

BEFORE THE
INDEPENDENT CITIZENS' OVERSIGHT COMMITTEE
TO THE
CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE
ORGANIZED PURSUANT TO THE
CALIFORNIA STEM CELL RESEARCH AND CURES ACT
REGULAR MEETING

LOCATION: SACRAMENTO CONVENTION CENTER
1400 J STREET, ROOM 204
SACRAMENTO, CALIFORNIA

DATE: APRIL 21, 2012
9 A.M.

REPORTER: BETH C. DRAIN, CSR
CSR. NO. 7152

BRS FILE NO.: 91065

BARRISTERS' REPORTING SERVICE

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BARRISTERS' REPORTING SERVICE

1 SACRAMENTO, CALIFORNIA; WEDNESDAY, MARCH 21, 2012

2 9 A.M.

3

4 CHAIRMAN THOMAS: EVERYBODY HEAR ME OKAY?

5 GREAT. WE'D LIKE TO CALL THE MARCH MEETING OF THE

6 INDEPENDENT CITIZENS OVERSIGHT COMMITTEE TO ORDER.

7 MARIA, CAN YOU PLEASE LEAD US IN THE PLEDGE OF

8 ALLEGIANCE.

9 (THE PLEDGE OF ALLEGIANCE.)

10 CHAIRMAN THOMAS: MARIA, PLEASE CALL THE

11 ROLL.

12 MS. BONNEVILLE: ROBERT PRICE.

13 DR. PRICE: HERE.

14 MS. BONNEVILLE: DAVID BRENNER.

15 DR. BRENNER: HERE.

16 MS. BONNEVILLE: JACOB LEVIN.

17 DR. LEVIN: HERE.

18 MS. BONNEVILLE: MARCY FEIT.

19 MS. FEIT: HERE.

20 MS. BONNEVILLE: MICHAEL FRIEDMAN.

21 DR. FRIEDMAN: HERE.

22 MS. BONNEVILLE: LEEZA GIBBONS. MICHAEL

23 GOLDBERG. SAM HAWGOOD.

24 DR. HAWGOOD: HERE.

25 MS. BONNEVILLE: STEVE JUELGAARD.

BARRISTERS' REPORTING SERVICE

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DR. JUELSGAARD: HERE.
MS. BONNEVILLE: SHERRY LANSING. TED
LOVE. BERT LUBIN.
DR. LUBIN: HERE.
MS. BONNEVILLE: SHLOMO MELMED.
DR. MELMED: HERE.
MS. BONNEVILLE: PHIL PIZZO. CLAIRE
POMEROY.
DR. POMEROY: HERE.
MS. BONNEVILLE: FRANCISCO PRIETO.
ELIZABETH FINI.
DR. FINI: HERE.
MS. BONNEVILLE: ROBERT QUINT. DUANE
ROTH.
MR. ROTH: HERE.
MS. BONNEVILLE: JOAN SAMUELSON. DAVID
SERRANO-SEWELL.
MR. SERRANO-SEWELL: HERE.
MS. BONNEVILLE: JEFF SHEEHY. JON
SHESTACK. OS STEWARD.
DR. STEWARD: HERE.
MS. BONNEVILLE: JONATHAN THOMAS.
CHAIRMAN THOMAS: HERE.
MS. BONNEVILLE: ART TORRES.
MR. TORRES: HERE.

BARRISTERS' REPORTING SERVICE

1 MS. BONNEVILLE: KRISTINA VUORI. EUGENE
2 WASHINGTON.

3 DR. PIZZO: PHIL PIZZO IS HERE AS WELL.

4 CHAIRMAN THOMAS: THANKS, PHIL.

5 I'VE BEEN ADMONISHED TO TELL EVERYBODY
6 WHEN THEY'RE SPEAKING TO MAKE A POINT OF GETTING THE
7 MICROPHONE FAIRLY CLOSE. SO WHENEVER YOU DO HAVE
8 COMMENTS, IF YOU WOULD DO THAT, THAT WOULD BE GREAT.

9 ON THIS, THE NATIONAL MS EDUCATION AND
10 AWARENESS MONTH, I'D LIKE TO WELCOME EVERYBODY HERE.
11 WE HAVE A VERY FULL AND MOST INTERESTING AGENDA TO
12 GO OVER. AND WE, AS ALWAYS, LOOK FORWARD TO ROBUST
13 CONVERSATION ON ALL OF THE VARIOUS ITEMS.

14 I'D LIKE TO GIVE YOU A CHAIRMAN'S REPORT.
15 IT'S BEEN TWO MONTHS SINCE WE MET. THERE'S BEEN A
16 LOT OF ACTIVITY. WE HAD SHORTLY AFTER OUR LAST
17 BOARD MEETING OUR FIRST PUBLIC SESSION OF THE IOM
18 WHICH TOOK PLACE UP IN SAN FRANCISCO. WE HAD A
19 NUMBER OF CIRM FOLKS WHO GAVE TESTIMONY AT THAT IOM
20 MEETING, INCLUDING DUANE, ALAN, ELONA, JEFF, AND
21 MYSELF. THERE WAS A NICE DISCUSSION AMONGST A
22 NUMBER OF THE PI'S IN A PANEL FORMAT, AND A LOT OF
23 INFORMATION WAS PUT ON THE TABLE FOR THE MEMBERS OF
24 THE IOM TO DIGEST.

25 SEVERAL OF THEM THE DAY BEFORE WENT ON

BARRISTERS' REPORTING SERVICE

1 TOURS OF A NUMBER OF THE STEM CELL FACILITIES,
2 INCLUDING THOSE AT UC DAVIS, UC SAN FRANCISCO, AND
3 STANFORD, AND BY ALL ACCOUNTS FOUND THOSE TOURS TO
4 BE VERY INTERESTING AND REWARDING.

5 SO WE ARE IN THE MIDST OF CONTINUED
6 DIALOGUE WITH THEM. THERE'S BEEN LOTS OF
7 INFORMATION REQUESTS, AND WE'RE PASSING THOSE ALONG
8 TO THEM TO INFORM THEIR REVIEW. THE NEXT PUBLIC
9 MEETING OF THE IOM IS GOING TO BE IN IRVINE ON APRIL
10 10TH, AND ALL MEMBERS OF THE PUBLIC ARE WELCOME TO
11 ATTEND.

12 SECOND ITEM TO REPORT TO YOU ON IS THE
13 STATUS OF THE FINANCING IN APRIL THROUGH THE
14 TREASURER'S OFFICE FOR OUR ONGOING OPERATIONS AND
15 AWARDS. THE TREASURER'S OFFICE THUS FAR HAS HAD A
16 BOND ISSUE THAT WAS DEVOTED TO REFINANCING
17 OUTSTANDING DEBT. AS YOU KNOW, NEEDN'T DWELL ON,
18 INTEREST RATES ARE EXCEEDINGLY LOW, AND A NUMBER OF
19 THE PAST BOND ISSUES HAD RATES THAT WERE HIGH ENOUGH
20 THAT THEY WARRANTED DOING REFINANCING, SOMETHING
21 CALLED ADVANCE REFUNDINGS. THE NEXT PART OF THE
22 SPRING FINANCING IS GOING TO TAKE PLACE IN APRIL.
23 AND IN DISCUSSIONS YESTERDAY WITH THE TREASURER'S
24 OFFICE AND THE DIRECTOR OF FINANCE, I LEARNED THAT
25 WE WILL BE TAKEN CARE OF FULLY TO OUR NEEDS.

BARRISTERS' REPORTING SERVICE

1 AND AS YOU MAY RECALL, THERE'S SORT OF TWO
2 WAYS TO GET FUNDED. ONE IS THROUGH BONDS ISSUED
3 THROUGH THE STATE TREASURER'S OFFICE. THE OTHER IS
4 THROUGH COMMERCIAL PAPER ISSUED BY THE STATE
5 TREASURER'S OFFICE. AND IT LOOKS LIKE IN THIS
6 PARTICULAR ROUND OF FINANCING WE WILL BE TAKEN CARE
7 OF THROUGH THE COMMERCIAL PAPER ALTERNATIVE, BUT I
8 WAS VERY HAPPY TO HEAR THAT THINGS ARE FULLY IN LINE
9 THERE AND WE CAN LOOK FORWARD TO HAVING ALL THE
10 MONEY WE NEED TO MEET OUR NEEDS FOR THE NEXT
11 SIX-MONTH PERIOD.

12 ALSO SHORTLY AFTER THE LAST BOARD MEETING,
13 WE HAD THE MEETING IN JANUARY OF THE CFAOC, WHICH IS
14 THE OVERSIGHT COMMITTEE CHAIRED BY THE STATE
15 CONTROLLER. THAT WAS DOWN IN LOS ANGELES. A NUMBER
16 OF US PRESENTED THERE AS WELL, ALAN, MATT, AND
17 MYSELF, JAMES. AND THAT MEETING, I'M HAPPY TO
18 INFORM ALL OF YOU, WENT VERY WELL. THE CONTROLLER
19 HIMSELF CAME UP TO TELL US AS MUCH AT THE END OF THE
20 MEETING AND WAS VERY IMPRESSED WITH THE DEGREE OF
21 INFORMATION THEY RECEIVED, THE ADVANCE NOTICE ON A
22 LOT OF IT, AND THE HIGH LEVEL OF TRANSPARENCY IN THE
23 DISCUSSION THAT WE HAD AT THAT MEETING. SO THINGS
24 ARE LOOKING VERY GOOD WITH RESPECT TO THE CFAOC AS
25 WELL.

BARRISTERS' REPORTING SERVICE

1 AS FOR SOME ADDITIONAL ITEMS, YOU MAY
2 RECALL AT THE LAST MEETING WE DISCUSSED OUR
3 TRANSITION PLAN WHICH WE PUT TOGETHER TO RESPOND TO
4 THE ALQUIST BILL WHICH WAS PASSED IN 2010 WHICH
5 REQUIRED THAT BY MARCH 1ST OF 2012 WE DO PRESENT A
6 PLAN FOR WHAT WILL HAPPEN AS FUNDING WINDS DOWN AT
7 CIRM. WE PUT THIS PLAN TOGETHER. MATT TOOK THE
8 LEAD ON WRITING IT UP.

9 YOU MAY RECALL THAT WE PRESENTED IT IN
10 POWERPOINT FORM AT THE LAST MEETING. IN THIS
11 INSTANCE MATT TURNED IT INTO A NARRATIVE. WE TOOK
12 THAT TO SACRAMENTO TO DELIVER IT IN A TIMELY MANNER
13 TO THE GOVERNOR'S OFFICE, THE TREASURER'S OFFICE,
14 THE CONTROLLER'S OFFICE, SENATOR ALQUIST'S OFFICE,
15 AND THE STATE TREASURER'S OFFICE. THOSE MEETINGS
16 WENT VERY WELL.

17 IN ADDITION TO THE TRANSITION ELEMENTS,
18 EVERYBODY WAS MOST INTERESTED TO HEAR SORT OF WHERE
19 WE ARE TODAY IN OUR RESEARCH AND OUR FUNDED
20 PROGRAMS. SO WE HAD A GOOD OPPORTUNITY TO DESCRIBE
21 ALL THE VARIOUS EXTRAORDINARY THINGS THAT OUR
22 SCIENTISTS ARE WORKING ON, AND EACH OF THOSE
23 MEETINGS WAS, WE VIEWED, SENATOR TORRES, SAFE TO
24 SAY, VERY SUCCESSFUL. THE SENATOR AND JAMES AND I
25 MET WITH ALL OF THE FOLKS I JUST LISTED. WE HAD A

BARRISTERS' REPORTING SERVICE

1 CONTINUATION OF THAT YESTERDAY WHERE WE MET WITH THE
2 MINORITY LEADERSHIP. OH, I NEGLECTED TO SAY THAT.
3 WE MET ALSO WITH THE SPEAKER'S OFFICE AND THE SENATE
4 PRO TEM OFFICE IN THAT EARLIER MEETING. YESTERDAY
5 WE MET WITH THE MINORITY LEADERSHIP TO GO OVER THE
6 TRANSITION PLAN, AND IT WAS SIMILARLY WELL RECEIVED.

7 FEW OTHER QUICK ITEMS. I SPOKE -- THERE
8 HAVE BEEN A NUMBER OF CONFERENCES SINCE THE LAST
9 MEETING. I SPOKE AND ATTENDED A CONFERENCE AT UCLA
10 ON STEM CELL RESEARCH WHICH FOCUSED ON CANCER AS
11 WELL AS THE BUCK INSTITUTE CONFERENCE A COUPLE WEEKS
12 AGO, BOTH OF WHICH WERE VERY WELL ATTENDED. ALAN,
13 ELONA, AND I WENT TO SEE THE FDA COMMISSIONER SPEAK,
14 WHICH WAS INTERESTING, SEVERAL WEEKS AGO UP IN SAN
15 FRANCISCO. WE HAVE SINCE, AS YOU KNOW, HAD TWO
16 ROUNDS OF THE GRANTS WORKING GROUP CREATIVITY AWARDS
17 WHICH WILL BE PRESENTED FOR APPROVAL TODAY AND EARLY
18 TRANSLATION III WHICH WILL BE PRESENTED FOR APPROVAL
19 AT OUR NEXT BOARD MEETING.

20 ALSO HAD A NICE OPPORTUNITY TO TOUR THE
21 IRVINE FACILITY AND MET A NUMBER OF THE SCIENTISTS
22 DOWN THERE, WHICH WAS VERY ENLIGHTENING, AS HAVE ALL
23 THESE TOURS BEEN.

24 AND LAST, BUT NOT LEAST, I WOULD LIKE TO
25 INTRODUCE TO YOU, AFTER AN EXTENSIVE SEARCH WHICH

BARRISTERS' REPORTING SERVICE

1 INVOLVED TALKING TO AND INTERVIEWING MANY POSSIBLE
2 CANDIDATES, WE'RE DELIGHTED TO SAY THAT WE HAVE
3 OFFICIALLY HIRED OUR DIRECTOR OF PUBLIC
4 COMMUNICATION AND PATIENT ADVOCATE OUTREACH. AND
5 THAT IS KEVIN MCCORMACK, WHO'S IN MY BACK RIGHT.
6 KEVIN IS STANDING UP BACK THERE. KEVIN'S CV IS IN
7 THE BACK OF YOUR BOARD PRESENTATION.

8 HE COMES TO US WITH MANY YEARS OF
9 EXPERIENCE MOST RECENTLY FROM THE CALIFORNIA PACIFIC
10 MEDICAL CENTER. AND HE HAS LOTS OF EXPERIENCE IN
11 MEDIA CRISIS MANAGEMENT DEALING IN SORT OF PRESSURE
12 COOKER POLITICAL SITUATIONS, FORMER TV PERSON, AND
13 IS SOMEBODY WHO HAS DONE A LOT OF WORK WITH PATIENT
14 ADVOCATES AND PATIENTS AND HAS A GOOD UNDERSTANDING
15 OF SCIENCE. SO HE COMBINES MANY DIFFERENT ELEMENTS
16 THAT WE THINK WERE CRUCIAL TO THE POSITION. HE
17 OFFICIALLY BEGINS APRIL 2D, KEVIN; IS THAT CORRECT?
18 BUT HE CAME HERE TO THE BOARD MEETING TODAY TO SORT
19 OF SEE EVERYBODY IN ACTION SO HE GETS AN IDEA FOR
20 HOW THINGS WORK WHEN HE BEGINS. SO WELCOME TO KEVIN
21 AND WE'RE DELIGHTED TO HAVE YOU HERE AND NOT A
22 MOMENT TOO SOON.

23 (APPLAUSE.)

24 CHAIRMAN THOMAS: SO THAT CONCLUDES MY
25 CHAIRMAN'S REPORT. ALAN, TURN IT OVER FOR THE

BARRISTERS' REPORTING SERVICE

1 PRESIDENT'S REPORT.

2 DR. TROUNSON: THANK YOU VERY MUCH, CHAIR,
3 MEMBERS OF THE BOARD. I HAVE A LITTLE PROBLEM WITH
4 MY THROAT. SO IF I SOUND SQUEAKY, PLEASE FORGIVE
5 ME. IT'S THE PROBLEM OF FLYING AROUND IN AIRPLANES,
6 AS EVERYONE KNOWS, I GUESS.

7 SO I WANTED TO DRAW YOUR ATTENTION TO
8 SEVERAL, I THINK, VERY INTERESTING REPORTS IN THE
9 LITERATURE THAT HAVE TURNED UP IN THIS LAST MONTH.
10 AND THE FIRST ONE FROM MARIUS WERNIG'S LAB IN
11 STANFORD WHERE THEY'VE BEEN DOING DIRECT
12 REPROGRAMMING OF FIBROBLASTS TO NEURONS. SO INSTEAD
13 OF TAKING THE CELLS ALL THE WAY BACK TO THE
14 EQUIVALENT OF EMBRYONIC STEM CELLS, THAT IS, INDUCED
15 PLURIPOTENTIAL STEM CELLS, THEY TOOK THE FIBROBLASTS
16 AND SHOWED THAT THEY ACTUALLY PRODUCE NEURONS IN A
17 MUCH SHORTER LOOP. PROBLEM WITH THAT IS THAT THOSE
18 NEURONS COULDN'T BE EXPANDED. SO IF YOU REALLY WANT
19 TO WORK CLINICALLY OR IN A RESEARCH WAY WITH THESE
20 CELLS, YOU NEED TO BE ABLE TO EXPAND THEM.

21 SO THIS IS WHAT THEY'VE DONE. THEY'VE
22 CREATED A METHOD FOR PROLIFERATION OF THE NEURAL
23 PRECURSORS. SO THEY TOOK MOUSE EMBRYONIC
24 FIBROBLASTS AND USED 11 TRANSCRIPTION FACTORS.
25 THESE WERE THE ONES THAT THEY THOUGHT IMPORTANT FOR

BARRISTERS' REPORTING SERVICE

1 THOSE PROGENITOR CELLS. AND THEN THEY CUT THEM
2 DOWN, SO THEY DELETED THEM ONE AT A TIME. AND THEY
3 FOUND THAT TWO OF THEM, SOX-2 AND FOXG1 ARE NEEDED
4 TO PRODUCE CLONAL SELF-RENEWING NEURAL PROGENITOR
5 CELLS. THAT MEANS THAT IT'S A STEM CELL POPULATION.
6 IT CAN RENEW, PRODUCE LARGE NUMBERS OF NEURONS AND
7 GLIA. IN THE CASE OF GLIA, THESE WERE ASTROCYTES,
8 AND THE NEURONS WERE SHOWN TO BE FUNCTIONAL.

9 IF YOU ADDED A THIRD TRANSCRIPTION FACTOR,
10 BRN2, THEN YOU COULD REDUCE OLIGODENDROCYTES. THESE
11 ARE THE CELLS THAT PUT THE MYELIN SHEATHS BACK ON
12 NEURONS. I THINK THIS IS A VERY MAJOR DEVELOPMENT
13 AND A VERY GOOD EXAMPLE OF SCIENTISTS WHO ARE SORT
14 OF CONCENTRATING ON THESE TRANSCRIPTION FACTORS AND
15 HOW THEY CAN BE USED TO SHORT-CIRCUIT THE
16 DEVELOPMENTAL PROCESS OR THE TRANSDIFFERENTIATION
17 PROCESS AND PRODUCE YOU A CELL WHICH IS REMARKABLE
18 AND MAY BE A VERY IMPORTANT DEVELOPMENT IN THE
19 FUTURE FOR, I GUESS, RESEARCH, BUT I THINK EVEN
20 LIKELY TO BE IN THE YEARS TO COME AN IMPORTANT WAY
21 OF USING THESE MOLECULES FOR CONVERTING CELLS WITHIN
22 THE BODY WITHOUT HAVING TO TRANSPLANT CELLS.

23 SO I HAVE A VIEW THAT THIS IS BECOMING A
24 VERY NEW MAJOR PLATFORM IN STEM CELL BIOLOGY, AND WE
25 MAY LOOK BACK IN 25 OR 30 YEARS TIME AND SAY WHY

BARRISTERS' REPORTING SERVICE

1 WERE WE REALLY BOTHERING TO TRANSPLANT CELLS WHEN
2 YOU COULD EFFECTIVELY DO THIS? THAT'S A LONG WAY
3 OFF, BUT I THINK YOU'RE SEEING THE BEGINNINGS OF A
4 NEW APPROACH IN STEM CELL BIOLOGY.

5 THE SECOND ONE WAS A PAPER BY JAN NOLTA.
6 I DIDN'T SELECT IT BECAUSE WE'RE UP HERE IN
7 SACRAMENTO. I ONLY SELECT THESE ON WHAT I THINK ARE
8 IMPORTANT. AND I WAS VERY INTERESTED YEARS AGO WHEN
9 I WAS A RECOGNIZED LABORATORY SCIENTIST, BEFORE I
10 CAME TO CIRM, THAT IS, THAT MESENCHYMAL STEM CELLS,
11 MSC'S, THESE BLOOD STROMAL CELLS, COULD ACTUALLY
12 TRANSFER MITOCHONDRIA IN CULTURE FROM THEMSELVES TO
13 ANOTHER CELL. THIS IS AN ORGANELLE. MITOCHONDRIA
14 IS THE ENERGY FACTORY IN THE CELL, AND THEY COULD
15 ACTUALLY TRANSFER THESE IN CULTURE.

16 SO THE GROUP HAS BEEN LOOKING AT THIS
17 BECAUSE MSC'S HAVE GOT A HIGH SAFETY PROFILE IN THE
18 CLINIC. THERE'S MANY THOUSANDS OF PATIENTS THAT
19 HAVE BEEN TREATED WITH MSC'S. SO THIS IS A GOOD
20 CELL IN THE SENSE OF TRANSPLANTATION. AND THE
21 QUESTION WAS COULD THEY TRANSFER SHORT HAIRPIN RNA
22 TO CELLS OF THE CENTRAL NERVOUS SYSTEM TO REDUCE THE
23 PROTEIN, THE MUTATED FORM OF HUNTINGTON PROTEIN THAT
24 IS RESPONSIBLE FOR THE NEURODEGENERATION IN
25 HUNTINGTON'S DISEASE. SO THEY WERE ABLE TO SHOW

BARRISTERS' REPORTING SERVICE

1 THAT THEY COULD TRANSFER THESE SHORT HAIRPIN RNA'S,
2 AND THEY DID THAT IN USING GREEN FLUORESCENT
3 PROTEIN. AND THEY ALSO THEN SHOWED THAT THEY COULD
4 EXPRESS THE SHORT HAIRPIN RNA AND REDUCE THE
5 HUNTINGTON PROTEIN, WHICH IS THE PROOF OF CONCEPT
6 THAT YOU REALLY WANT. THIS IS ALL DONE IN CULTURE,
7 OF COURSE. AND SOONER OR LATER YOU'RE GOING TO HAVE
8 TO TRY TO DO THIS IN THE ANIMAL. AND I GUESS THE
9 GROUP WOULD BE MUCH ON THE TRACK FOR THAT.

10 BUT THIS GIVES SOME SUPPORT TO THE
11 STRATEGY OF INTRODUCING SHORT HAIRPIN RNAI'S
12 EXPRESSING MSC'S INTO THE CENTRAL NERVOUS SYSTEM TO
13 KNOCK DOWN HUNTINGTON, WHICH COULD SIGNIFICANTLY
14 DELAY OR EVEN BLOCK THE HUNTINGTON'S PHENOTYPE. SO
15 I THINK IT'S A VERY IMPORTANT STEP ALONG THE WAY,
16 AND I THINK WE SHOULD FEEL THAT THIS IS ONE OF THOSE
17 PAPERS WE SHOULD FEEL VERY GOOD ABOUT.

18 SO THIS IN THE FIGURE THERE SHOWS THAT THE
19 CELLS IN THE MIDDLE CAN EITHER TRANSFER THE SHORT
20 HAIRPIN RNA'S THROUGH THE PROCESSES THAT THESE CELLS
21 PUSH OUT, OR POSSIBLY THEY COULD ALSO DO IT
22 INDIRECTLY, BUT IT'S CLEAR THAT IN OTHER SYSTEMS
23 THAT THE DIRECT CELL-CELL CONTACT IS THE WAY THEY
24 TRANSFER THESE ORGANELLES AND, HENCE, THESE PACKAGES
25 OF THE SHORT HAIRPIN RNA'S.

BARRISTERS' REPORTING SERVICE

1 THE NEXT PAPER WAS LOOKING AT, I THINK, A
2 DIFFERENT MODEL IN IPS CELLS. AND I REALLY HADN'T
3 THOUGHT MUCH ABOUT IT, BUT MODELING HEPATITIS C
4 VIRUS INFECTION USING INDUCED PLURIPOTENTIAL STEM
5 CELLS WHICH WAS DONE BY THE HARVARD GROUP, SCHWARTZ,
6 ET AL., PUBLISHED IN *PNAS*. THIS IS THE FIRST
7 DEMONSTRATION OF IPS CELLS FOR THE STUDY OF
8 SUSCEPTIBILITY TO INFECTION. SO THIS IS A PRETTY
9 IMPORTANT SORT OF NEW DEVELOPMENT, I THINK,
10 PARTICULARLY HEPATITIS C, IN THE RESPONSE OF
11 HEPATOCYTE-LIKE CELLS.

12 SO THESE IPS CELLS WERE DERIVED. THEY
13 DERIVED THE HEPATOCYTES AND THOSE HEPATOCYTES FROM
14 PATIENTS WHO WERE EASILY INFECTED WITH THE VIRUS AND
15 THOSE WHO WERE NOT. AND IN THE EASILY INFECTING
16 PATIENTS, THEY WERE SHOWN TO SUPPORT THE ENTIRE LIFE
17 CYCLE OF THE HEPATITIS C VIRUS INCLUDING ALL THE
18 INFLAMMATORY RESPONSES TO INFECTION.

19 I THINK THIS MODEL WILL ENABLE EXAMINATION
20 OF THE HOST GENETIC ROLE IN VIRAL PATHOGENESIS. AND
21 IT'S REALLY, REALLY IMPORTANT, AND WE'VE NEVER
22 REALLY HAD THIS KIND OF TOOL IN THE LABORATORY
23 BEFORE. SO THE ROLE OF THE HOST GENETICS IS
24 PRESENTLY UNKNOWN OF IPS CELLS THAT ARE RESISTANT OR
25 SUSCEPTIBLE TO HEPATITIS C, AND THE PHENOTYPE

BARRISTERS' REPORTING SERVICE

1 VARIANCE OR RESPONSE TO INFECTION WILL FORM A BASIS
2 OF FURTHER STUDIES TO UNDERSTAND THIS HOST ROLE. SO
3 I THINK THIS MAY LEAD TO MUCH BETTER STRATEGIES TO
4 COMBAT THE SEVERE PATHOGENESIS OBSERVED WITH THIS
5 PARTICULAR VIRUS.

6 AND IN THE LAST, I'D ACTUALLY CONCERNED
7 MYSELF WITH THE LARGE NUMBER OF PUBLICATIONS AND NOW
8 CLINICAL TRIALS USING MSC'S. AND, OF COURSE, WE'VE
9 GOT A DISEASE TEAM WHICH IS USING CARDIAC CELLS TO
10 TRY AND HELP PATIENTS WITH SEVERE HEART DISEASE,
11 MYOCARDIAL INFARCT. SO I WAS PLEASED TO SEE EDUARDO
12 MARBAN'S DIRECT COMPARISON OF DIFFERENT STEM CELL
13 TYPES IN SUBPOPULATIONS IN HIS PAPER WHICH WAS
14 PUBLISHED IN THE *AMERICAN JOURNAL OF CARDIOLOGY*.

15 AND IT WAS A COMPARISON OF HUMAN
16 CARDIOSPHERE-DERIVED CARDIAC CELLS. AND THOSE WHO
17 WERE HERE TO LISTEN TO DR. MARBAN REMEMBER HIS
18 PRESENTATION. AND THEY COMPARED HUMAN BONE
19 MARROW-DERIVED MSC'S, ADIPOSE DERIVED, THAT'S FAT
20 CELL-DERIVED MSC'S, AND BONE MARROW MONONUCLEOCYTE
21 CELLS FOR REPAIR OF DAMAGED HEARTS IN AN ANIMAL
22 MODEL.

23 SO THE CDC'S, RCD105+, PARTIALLY C KIT+,
24 AND CD 90S+. THEY'RE A MIXTURE -- THESE CELLS FROM
25 THE HEART ARE A MIXTURE OF STROMAL, MESENCHYMAL, AND

BARRISTERS' REPORTING SERVICE

1 PROGENITOR CELLS. SO THEY'RE PUTTING IN A MIXTURE
2 OF CELLS, AND THEY'RE COMPARING THAT AGAINST MSC'S,
3 WHICH ARE NOW BEING STUDIED IN A NUMBER OF CLINICAL
4 TRIALS.

5 WHAT HAPPENS TO THE CDC'S, THE CARDIAC
6 CELLS GET THE HIGHEST MYOGENIC DIFFERENTIATION AND
7 ANGIOGENIC POTENTIAL, SO THEY WERE MUCH BETTER AT
8 DOING THE JOB IN THE HEART. AND THEY GAVE THE BEST
9 IMPROVEMENT IN SKID MOUSE CARDIAC FUNCTION AFTER
10 INJECTION IN INFARCTED HEARTS AND THE HIGHEST CELL
11 ENGRAFTMENT, MYOGENIC DIFFERENTIATION RATES, AND
12 LEAST ABNORMALITIES OF HEART MORPHOLOGY.

13 SO THIS IS GOOD EVIDENCE THAT THE APPROACH
14 TAKEN BY DR. MARBAN AND HIS COLLEAGUES IS A BETTER
15 ONE AT THIS POINT IN TIME. BUT, OF COURSE, OTHERS
16 MIGHT SAY, WELL, THEY DIDN'T COMPARE IT OUR
17 PARTICULAR CELLS. BUT SHOWN ON THIS FIGURE UP IN
18 WHATEVER YOU'RE LOOKING AT, THE TOP LEFT-HAND
19 CORNER, IS THE HEART THAT WAS TREATED WITH THE
20 CARDIAC CELLS. AND THEN THE REST ARE TREATED WITH
21 BONE MARROW OR ADIPOSE MSC'S OR THE MONONUCLEOCYTES.
22 AND IF YOU LOOK ACROSS TO THE GRAPH, YOU CAN SEE
23 THAT IN WALL THICKNESS, YOU GET A MUCH BETTER
24 RESPONSE WITH THE CARDIAC CELLS AND A REDUCED
25 PERIMETER IN THE SCAR TISSUE. SO THAT'S WHAT YOU

BARRISTERS' REPORTING SERVICE

1 WANT. YOU WANT YOUR HEART TO BE PERFORMING BETTER,
2 AND YOU WANT AS LITTLE SCAR TISSUE AS NECESSARY.

3 SO I THINK THIS PAPER COULD EASILY GET
4 BURIED, BUT I THINK IT'S A VERY IMPORTANT
5 COMPARISON, AND I'D LIKE TO SEE SOME MORE
6 COMPARISONS ON THIS, BUT I THOUGHT IT WAS A REALLY
7 GOOD PIECE OF WORK.

8 MOVING ON NOW TO NEW APPOINTMENTS. SO WE
9 HAVE OTHER PEOPLE JUST RECENTLY APPOINTED. DIANA
10 ROBSON, GRANTS REVIEW SPECIALIST, IS JOINING THE
11 GRANTS REVIEW TEAM. WE'RE ABSOLUTELY UNDER THE PUMP
12 AT THE MOMENT FOR REVIEWING GRANTS. AND DIANA,
13 WHO'S FROM THE CALIFORNIA ACADEMY OF SCIENCES,
14 JOINED US, CAME VERY QUICKLY TO HELP US WITH THE
15 GRANTS THAT WERE UNDER REVIEW. I THINK SHE'S A
16 GREAT ADDITION TO THE GROUP AND ONE THAT'S NECESSARY
17 BECAUSE WE'RE GETTING THROUGH A HECK OF A LOT OF
18 GRANTS. THOSE PATIENT ADVOCATES WHO KNOW WHAT WE'RE
19 DOING CURRENTLY AT THE MOMENT KNOW THAT THERE'S AN
20 ENORMOUS AMOUNT OF WORK HAPPENING IN THAT SPACE.

21 KEVIN MCCORMACK HAS JOINED US, AS JON
22 SAID, AS SENIOR DIRECTOR OF COMMUNICATIONS. AND
23 INTERESTINGLY, AMY CHEUNG IS RETURNING TO CIRM AFTER
24 A SHORT ABSENCE. AND I'M PLEASED TO SEE AMY BACK.
25 SHE HAD A VERY INTERESTING ASSOCIATION WITH

BARRISTERS' REPORTING SERVICE

1 AUSTRALIA, SO I'M GLAD TO SEE HER BACK, MARIA. SHE
2 USED TO WORK FOR THE CONSULATE HERE IN SAN
3 FRANCISCO. AND SO SHE UNDERSTANDS AUSTRALIANS,
4 WHICH IS RATHER A GOOD START. SO IT WILL HELP ME IN
5 MY NEGOTIATIONS WITH MARIA OVER REALLY TOUGH
6 ACTIVITIES. MARIA AND I DON'T NEED TO NEGOTIATE.
7 WE JUST AGREE ALL THE TIME AND FIND A WAY TO DO
8 THINGS. THINGS ARE REALLY TERRIFIC, REALLY.

9 UPCOMING RFA'S, THE CREATIVITY AWARDS AT
10 THIS MEETING. EARLY TRANSLATIONAL II, WE'VE BEEN
11 THROUGH THAT. THE ICOC FUNDING DECISION IN MAY. I
12 THINK IT'S AN IMPORTANT ONE. A VERY INTERESTING SET
13 OF PROJECTS IN THERE. AND I THINK THOSE PEOPLE WHO
14 WERE THERE AT THE REVIEW THOUGHT THIS WAS A PRETTY
15 GOOD REVIEW. I THINK THAT WOULD BE A FAIR THING TO
16 SAY, JEFF. IT WAS ONE OF THOSE REALLY GOOD QUALITY,
17 AND ENJOYED IT VERY MUCH.

18 DISEASE TEAM THERAPY DEVELOPMENT IS COMING
19 UP. THE REVIEW OF APPLICATIONS IN APRIL. SO THAT'S
20 AN IMPORTANT MILESTONE FOR US, TO LOOK AT WHAT'S IN
21 THE PIPELINE FOR THERAPY. THIS IS PRECLINICAL
22 CLINICAL WORK. AND IN THE BASIC BIOLOGY REVIEWS,
23 THE GRANTS WORKING GROUP WILL REVIEW THOSE
24 APPLICATIONS IN JUNE.

25 NEW FACULTY SCIENTIST AWARDS WILL BE

BARRISTERS' REPORTING SERVICE

1 POSTED APRIL. I'VE BEEN THROUGH THOSE, AND THEY'LL
2 BE OUT -- APRIL IS NEARLY THIS MONTH. THAT'S EARLY
3 NEXT MONTH. AND THE STRATEGIC PARTNERSHIP AWARDS, A
4 VERY INTERESTING NEW AREA. THIS HAS EVOLVED OUT OF
5 THE OPPORTUNITY FUND. I THINK YOU WILL FIND THIS
6 REALLY QUITE DIFFERENT TO WHAT YOU'VE BEEN LOOKING
7 AT IN THE PAST. WE HAVE A LOT OF INDUSTRY REALLY
8 VERY KEEN ON THESE GRANTS. AND SO I EXPECT A LARGE
9 NUMBER OF PROBABLY VERY GOOD QUALITY GRANTS. AND
10 WE'LL BE CHALLENGED TO TRY AND DECIDE ON THE FEW TO
11 SUPPORT. THIS IS ONE WAY IN WHICH WE'LL BE ABLE TO
12 ACCELERATE FORWARD. AND WE'LL BE LOOKING FORWARD TO
13 REVIEWING THOSE LATER IN THE YEAR. AND THEN THERE'S
14 A GENOMICS INITIATIVE WHICH WE ANTICIPATE POSTING IN
15 JUNE.

16 WE NOW HAVE 18 PARTICIPANTS IN OUR
17 COLLABORATIVE PARTNERING PROGRAM. AND I'M
18 UNFORTUNATELY JUST ABOUT TOMORROW I'M ON AN
19 AIRPLANE, WHICH DOESN'T SOUND GOOD TO ME, TO GO TO
20 BRAZIL AND ARGENTINA. WE JUST SIGNED UP WITH THE
21 KEYSTONE SYMPOSIA. SO THOSE PEOPLE WHO ARE
22 SCIENTISTS WOULD KNOW THAT THE KEYSTONE SYMPOSIA OF
23 MOLECULAR AND CELLULAR BIOLOGY IS REALLY ONE OF THE
24 TOP NOT-FOR-PROFIT ORGANIZATIONS WHO HOLD
25 CONFERENCES AND PARTICULARLY CONFERENCES IN THE

BARRISTERS' REPORTING SERVICE

1 AREAS THAT WE'RE INTERESTED IN.

2 SO WE'VE JOINED TOGETHER THERE TO TRY AND
3 HELP ACCELERATE OUR INTEREST HERE IN CALIFORNIA, BUT
4 ALSO MORE BROADLY FOR SOME OF OUR COLLABORATIVE
5 FUNDING PARTNERS. SO THERE WILL BE A KEYSTONE
6 CONFERENCE LATER THIS YEAR, AND WE'LL BE VERY MUCH
7 PART OF THAT. AND WE EXPECT TO DO MORE CONFERENCES
8 TOGETHER WITH THE KEYSTONE GROUP IN THE FUTURE.

9 WE'RE REACHING OUT TO DISEASE FOUNDATIONS,
10 ALS, MDA, MICHAEL J. FOX, AND OTHERS, AND WE'RE
11 HAVING SOME VERY INTERESTING RESPONSES. I WANT TO
12 THANK MATT VERY MUCH FOR HIS WORK IN THIS AREA. HE
13 KNOWS THESE ORGANIZATIONS WELL, SO OUR THIRD
14 GO-ROUND WITH THEM IS A LITTLE BIT DIFFERENT THAN
15 THE FIRST TWO GO-ROUNDS WITH THEM. AND I THINK
16 THERE ARE SOME CHANGES IN THESE ORGANIZATIONS.
17 NIH IS COMING ON VERY STRONG AS PARTNERS WITH IT.

18 WE HAVE A PARKINSON'S DISEASE WORKSHOP
19 PLANNED FOR THE FALL THIS YEAR. AND THEY'RE
20 PARTICIPATING IN THE DISEASE TEAM THERAPY GROUP. SO
21 WE'VE ALREADY GOT NIH NOW PARTNERING WITH US, AT
22 LEAST IN APPLICATIONS.

23 THE EARLY TRANSLATIONAL III RFA INCLUDED
24 PARTNERS FROM AUSTRALIA, CHINA, GERMANY, AND JAPAN
25 AS POTENTIAL CO-FUNDERS. SO THIS IS HAPPENING ALL

BARRISTERS' REPORTING SERVICE

1 THE TIME. SO THERE ARE MORE AND MORE OF THESE
2 INTERNATIONAL OR TRANSNATIONAL PROJECTS COMING
3 FORWARD, AND I THINK THIS IS PARTICULARLY PLEASING.

4 IN GENOMICS UPDATE, A QUICK UPDATE ON
5 THIS, IN FEBRUARY THE OXFORD NANOPORE ANNOUNCED A
6 DNA SEQUENCING DEVICE THAT CAN PLUG INTO A LAPTOP
7 AND SEQUENCE A WHOLE GENOME FOR A THOUSAND DOLLARS.
8 SO IF YOU ARE INTERESTED, YOU CAN GET IT ON YOUR
9 LAPTOP AND AWAY YOU GO. SO THIS HAS CHANGED
10 REMARKABLY IF YOU SAW WHAT WAS NEEDED A FEW YEARS
11 AGO. THERE HAVE BEEN CLINICAL SUCCESSES FROM WHOLE
12 GENOME SEQUENCING OF PATIENTS FOR CANCER AND
13 DIAGNOSTICS, AND HEALTHCARE PAYERS IN SOME CASES PAY
14 FOR THIS. SO THIS IS IMPORTANT NEW DEVELOPMENTS
15 THERE AND NOT WIDELY RECOGNIZED.

16 THE NONCODING RNA'S, THESE ARE THE ONES
17 THEY THOUGHT WAS JUNK, MEDIATE LONG DISTANCE
18 INTERACTIONS ON CHROMOSOMES. SO IT'S AN IMPORTANT
19 ROLE AND WASN'T WELL RECOGNIZED, AGAIN, SOME YEARS
20 AGO. AND NEW INSIGHTS INTO THEIR STRUCTURE AND
21 ASSOCIATION ARE HAPPENING NOW WITH DISEASE.
22 BIOINFORMATICS IS BECOMING A CROWDED SPACE WITH MANY
23 NEW COMPANIES IN IT.

24 SO UNDERSTANDING THE THOUSANDS OF CODING
25 VARIANCES IN AN INDIVIDUAL'S DNA IS VERY RELEVANT TO

BARRISTERS' REPORTING SERVICE

1 DISEASE. AND SO THESE ARE SOME OF THE CHALLENGES
2 HERE AS WELL AS ESTABLISHING A REFERENCE GENOME,
3 COMPLETE GENOME, SEQUENCING WHOLE GENOMES OF
4 WELLDERLY HEALTHY PEOPLE. WHO'S WELLDERLY? MAYBE
5 THE WHOLE BOARD IS WELLDERLY. WE COULD GET THE
6 WHOLE BOARD SEQUENCED, CHAIR. THE LONGEVITY OF THIS
7 BOARD IS AMAZING. SO MIGHT NEED TO KNOW WHAT'S
8 KEEPING YOU HARD AT IT.

9 OBTAINING THE SEQUENCE FROM DIPLOID
10 GENOMES CONTAINING BOTH MATERNAL AND PATERNAL DNA,
11 SO NEXT GENERATION TECHNOLOGIES DON'T REALLY PROVIDE
12 THIS.

13 LOOKING AT GRANTEE FOLLOW-ON SURVEYS,
14 YOU'D BE INTERESTED TO KNOW WE ASKED OUR GRANTEES,
15 CIRM GRANTEES, WHAT KIND OF FUNDS DID THEY GENERATE
16 AFTER THAT THEY GOT OUR GRANTS. WERE THEY USED IN
17 DATA TO APPLY FOR NEW GRANTS? WERE THEY CITED CIRM
18 RESOURCES TO SOLICIT DONATIONS, OR CITED CIRM
19 FACILITIES IN GRANT APPLICATIONS? AND 45 PERCENT OF
20 THE RESPONDENTS, WHICH WASN'T TOO BAD, BECAUSE
21 ASKING SCIENTISTS FOR THIS KIND OF DATA IS OFTEN A
22 MISERABLE TYPE OF THING TO DO, BUT WE GOT 45 PERCENT
23 OF THEM TO RESPOND, WHICH IS GREAT.

24 AND IF YOU CARE TO EXTRAPOLATE THAT, GIVEN
25 THAT THERE'S ERRORS IN DOING THAT FROM 45 PERCENT,

BARRISTERS' REPORTING SERVICE

1 THIS IS CLOSE ON 400 MILLION THAT HAS BEEN GENERATED
2 ALREADY FROM THOSE GRANTS. SO THAT'S A GREAT --
3 THIS IS MONEY COMING TO CALIFORNIA THAT WOULDN'T
4 HAVE COME IF CIRM HADN'T BEEN THERE. SO I THINK WE
5 OUGHT TO TAKE AN ACCOLADE OR TWO FOR DOING THAT.
6 THIS IS A SUBSTANTIAL AMOUNT OF MONEY AND, OF
7 COURSE, IT WILL GROW AS TIME GOES ON.

8 I WENT TO VISIT THE QATAR FOUNDATION, FOR
9 THOSE WHO KNOW THE REGION, AND PARTICIPATED IN A
10 CONFERENCE THERE. THIS GROUP HAS A VERY LARGE
11 FOUNDATION. I UNDERSTAND IT'S AROUND 500 BILLION.
12 SO THAT'S A FAIR BIT LARGER THAN WHAT WE'VE GOT.
13 AND IT'S GOOD FOR A HUNDRED YEARS. SO EVERY TIME
14 THE GAS PRICE GOES UP HERE, THE FOUNDATION GETS
15 RICHER AND IT'S GOING TO HAPPEN FOR A WHILE NOW.

16 SO THIS FOUNDATION HAS LED THE MIDDLE EAST
17 DIALOGUE ON EMBRYONIC STEM CELLS AND HAS RESULTED IN
18 A FATWA PERMITTING USE IN QATAR, WHICH IS REALLY AN
19 IMPORTANT DEVELOPMENT. AND THEY'RE ESTABLISHING A
20 CENTER FOR EXCELLENCE IN STEM CELL RESEARCH AND
21 INVITING INTERNATIONAL ORGANIZATIONS TO PARTICIPATE.
22 THEY EXPECT TO FOCUS IN DIABETES, CANCER,
23 NEUROLOGICAL AND CARDIOVASCULAR DISEASE. SO I'M
24 LOOKING AT EVALUATING THE POSSIBILITIES THAT WE CAN
25 BECOME ENGAGED IN SOME WAY IN THIS, AND IT'S NOT

BARRISTERS' REPORTING SERVICE

1 CLEAR TO ME JUST YET HOW THAT WILL HAPPEN, BUT WE
2 HAVE A VERY GOOD DIALOGUE WITH THEM, AND WE'LL KEEP
3 YOU APPRAISED ABOUT HOW THAT DEVELOPS.

4 THERE'S A PARKINSON'S DISEASE SYMPOSIUM
5 THAT WAS AT THE BUCK INSTITUTE, A VERY GOOD
6 SYMPOSIUM. IT WAS ATTENDED BY A NUMBER OF OUR
7 PEOPLE, ELLEN FEIGAL, PAT OLSON AMONG THOSE OF THE
8 SENIOR STAFF, AND THE AIM WAS TO FOSTER A
9 MULTIDISCIPLINARY DIALOGUE ON THE LEADING-EDGE
10 TOPICS IN AGING AND STEM CELL RESEARCH TO DISCUSS
11 EMERGING PARADIGMS IN THOSE AREAS AND TO FORGE NEW
12 SCIENTIFIC COLLABORATIONS AND ALLIANCES WITH FUNDING
13 ORGANIZATIONS. GEORGE DALEY GAVE THE OPENING TALK
14 ON LIN28 IN DISEASE AND DEVELOPMENT. LIN28 IS ONE
15 OF THOSE GENES THAT'S INVOLVED IN PLURIPOTENTIALITY.
16 AND THERE WAS A KEYNOTE BY OLE ISACSON FROM HARVARD
17 ON NEW MEDICINES AND TREATMENTS FOR PARKINSON'S
18 DISEASE.

19 SO THERE'S NUMEROUS TALKS AND RESEARCH ON
20 PROMISING RESEARCH. THERE'S INTERESTING
21 REGENERATIVE MEDICINE TARGETED DIRECTLY AT THE
22 PHENOMENON OF AGING AND UNDERLYING BIOLOGICAL
23 MECHANISMS THAT CAN LEAD TO MANY DEGENERATIVE
24 CONDITIONS. AND, FOR EXAMPLE, A HIGHLIGHT ON RECENT
25 PROGRESS IN CELL REPLACEMENT THERAPY FOR

BARRISTERS' REPORTING SERVICE

1 HUNTINGTON'S DISEASE, PAUL ROBSON ON POTENCY OF
2 HUMAN BLASTOCYST-DERIVED STEM CELLS, AND SUSAN
3 FISHER ON VARIATION OF POTENCY IN RELATIONSHIP TO A
4 SUBSET OF GENES THEY'RE USING. SO CIRM AND THE NIH
5 ROAD MAP TO PARKINSON'S DISEASE INCLUDED ELLEN AND
6 MAHENDRA RAO, AND WE ARE MOVING TO OUR OWN WORKSHOP,
7 WHICH WILL BE HELD IN SEPTEMBER THIS YEAR.

8 SO THOSE WHO ARE INTERESTED IN PARKINSON'S
9 DISEASE, WE HAVE THE GOAL TO PROMOTE COLLABORATIONS
10 IN CALIFORNIA WITH KEY INTERNATIONAL AND NIH
11 INTRAMURAL AND EXTRAMURAL PARKINSON'S DISEASE
12 RESEARCHERS TO TRY AND ACCELERATE PARKINSON'S
13 DISEASE RESEARCH. I HAVE A FEELING THAT THE
14 RESEARCH IS GOING VERY WELL, BUT IT'S NOT AT THE
15 PACE I'D LIKE TO SEE IT HAPPENING, AND MAYBE WE CAN
16 HELP BY FOCUSING ON SOME AREAS WHERE WE CAN MAKE A
17 DIFFERENCE.

18 SO WE'RE GOING TO FOCUS ON THE DOPAMINE
19 NEURON DEVELOPMENT AND THE TOOL DEVELOPMENT FOR
20 DISCOVERY RESEARCH, IPS CELL LINES AND SCREENING
21 USING PATIENT-SPECIFIC CELL LINES, ASSAY DEVELOPMENT
22 AND NEURAL STEM CELL PRODUCTION, AND CELL-BASED
23 THERAPY, MANUFACTURING OF CELLS, MODELS FOR DELIVERY
24 OF CELL-BASED THERAPY DEVICES, AND SOURCES OF
25 FUNDING. SO WE WELCOME ANY OF THE BOARD WHO WOULD

BARRISTERS' REPORTING SERVICE

1 LIKE TO ATTEND THAT.

2 THERE'S A BRIDGES TO STEM CELL RESEARCH
3 ANNUAL TRAINEE MEETING. WE HOLD THESE EVERY 12
4 MONTHS. IT'S BEING HELD IN SAN FRANCISCO IN
5 MID-JULY JUST TO GIVE YOU A HEADS-UP ON THAT.
6 PLANNED ATTENDANCE IS BY 200 PEOPLE, INCLUDING
7 BRIDGES PROGRAM DIRECTORS, MENTORS, CIRM STAFF, ICOC
8 MEMBERS, AND 160 BRIDGES TRAINEES. THESE ARE THE
9 REALLY ENTHUSIASTIC BRIDGES YOUNG PEOPLE. IT WILL
10 FEATURE TALKS BY LEADING SCIENTISTS AND POSTER
11 PRESENTATIONS BY THE BRIDGES GROUP.

12 SO, AGAIN, WE'RE STARTING TO FILL UP.
13 THIS PICTURE, EVERYONE IS GETTING SMALLER, GETTING
14 SMALLER WITH TIME. BUT WE'RE PROBABLY GETTING CLOSE
15 TO SATURATION. I THINK THERE'S CERTAINLY ARGUMENTS
16 WITH ME WITH MOST PEOPLE ABOUT WHETHER WE CAN
17 APPOINT NEW PEOPLE GIVEN THE POSITION WHERE WE ARE.

18 NOW, I THOUGHT I MIGHT JUST STOP THERE FOR
19 A MOMENT BECAUSE THERE WAS A REPORT THIS MORNING ON
20 THE SUPREME COURT. AND I THOUGHT I'D ASK OUR
21 GENERAL COUNSEL TO MAKE A FEW COMMENTS ON THAT
22 BEFORE WE GO TO MATT'S REPORT ON THE FINANCES
23 BECAUSE MATT MIGHT ALSO HAVE COMMENTS WHEN HE COMES
24 UP ON THE FINANCIAL SIDE.

25 ELONA, WOULD YOU LIKE TO MAKE A COMMENT

BARRISTERS' REPORTING SERVICE

1 ABOUT THE SUPREME COURT FINDING? I THINK IT'S VERY
2 RELEVANT FOR US AND VERY IMPORTANT. SO PERHAPS YOU
3 COULD GIVE US A BIRDS-EYE VIEW OF IT.

4 MS. BAUM: SURE. I'M HAPPY TO DO SO. AND
5 JUST KEEP IN MIND I REALLY JUST OPENED IT UP AND
6 STARTED LOOKING INTO THIS, SO IT'S JUST A VERY BRIEF
7 REMARK THAT I'LL HAVE.

8 IT RELATES TO A CASE KNOWN AS MAYO VS.
9 PROMETHEUS. AND IN PARTICULAR IT'S ABOUT THE
10 PATENTABILITY OF MEDICAL DIAGNOSTIC CLAIMS WHICH
11 WERE MADE BY PROMETHEUS. AND BEFORE I START INTO A
12 LITTLE THUMBNAIL SKETCH OF SOME OF THE FACTS, I
13 THINK I SHOULD JUST GIVE YOU A LITTLE FOUNDATION AS
14 TO HOW IT'S BEING PERCEIVED BECAUSE SOME OF THE
15 EXPERTS ARE SEEING THAT IT COULD HAVE WIDERANGING
16 EFFECTS, BUT MANY OF THEM JUST SAY, WELL, YOU KNOW,
17 IT CREATES A LITTLE MORE UNCERTAINTY IN THE AREA,
18 AND THEY'RE READING IT NARROWLY. SO I DON'T WANT TO
19 OVERSTATE IT. SOME SAY, GEE, THIS COULD REALLY
20 IMPACT PERSONALIZED MEDICINE SIGNIFICANTLY. OTHERS
21 SAY, GEE, THIS IS A VERY NARROW CASE AND SHOULD BE
22 APPLIED WITH A NARROW READING.

23 SO BASICALLY THIS A U.S. SUPREME COURT
24 CASE HELD THAT PROMETHEUS' DIAGNOSTIC METHOD WHICH
25 WAS USED TO DETERMINE SUITABLE DOSING RANGES OF

BARRISTERS' REPORTING SERVICE

1 DRUGS USED TO TREAT AUTOIMMUNE DISEASES WAS NOT
2 PATENTABLE BECAUSE IT REPRESENTED CONVENTIONAL
3 APPLICATIONS OF THE LAWS OF NATURE WHICH ARE NOT
4 SUBJECT TO PATENTS.

5 THE PARTICULAR DISCOVERY WHICH WAS IN THE
6 PATENTS AS DESCRIBED JUST IDENTIFIED A CORRELATION
7 BETWEEN THE CONCENTRATION AND BLOOD OF CERTAIN
8 THIOPURINE METABOLITES AND THE LIKELIHOOD OF
9 EFFICACY OR AN ADVERSE OR HARMFUL EFFECT OF CERTAIN
10 TREATMENTS. BUT SINCE THIS RELATIONSHIP WAS
11 KNOWN AS A FUNDAMENTAL ASPECT OF NATURE, IT IN AND
12 OF ITSELF WASN'T A BASIS FOR PATENTABILITY. THEY
13 WENT THROUGH AND ANALYZED A LOT OF THE ASPECTS OF
14 THE CLAIM AND DIDN'T FIND THAT THE CLAIM ADDED ANY
15 ADDITIONAL STEP TO THIS LAW OF NATURE AND,
16 THEREFORE, DECLINED TO FIND THAT IT WAS ELIGIBLE FOR
17 A PATENT.

18 THAT'S ABOUT ALL I CAN SAY ABOUT THIS.
19 JUST LOOKED AT IT THIS MORNING VERY BRIEFLY.

20 DR. TROUNSON: OKAY. STEVE, DID YOU WANT
21 TO MAKE A COMMENT? YOU LOOK LIKE YOU DID.

22 DR. JUELSGAARD: WELL, I THINK THE MOST
23 INTERESTING PART OF THE CASE IS THE SUPREME COURT'S
24 NOTION OF A LAW OF NATURE, WHICH CERTAINLY I SUPPORT
25 THE EXISTENCE OF NONPATENTABILITY OF LAWS OF NATURE,

BARRISTERS' REPORTING SERVICE

1 BUT THE SUPREME COURT SEEMED TO HAVE DECIDED AB
2 INITIO THAT THIS WAS A LAW OF NATURE WITHOUT EXACTLY
3 EXPLAINING WHY, LIKENING IT TO EINSTEIN'S THEORY OF
4 RELATIVITY OR NEWTON'S LAW OF GRAVITY. AND THERE'S
5 A BIT OF A LEAP OF LOGIC IN ALL OF THAT, AT LEAST
6 FROM MY POINT OF VIEW.

7 SO THE SUPREME COURT SEEMS TO HAVE SAID
8 THIS IS A LAW OF NATURE AND THAT ENDS THAT
9 CONVERSATION. SO LET'S MOVE ON TO WHETHER YOU CAN
10 PATENT LAW OF NATURE AND WHETHER THIS INVENTION
11 ADDED ANYTHING BEYOND THE SIMPLE LAW OF NATURE.
12 THAT'S THE PART OF THE CASE I FIND MOST INTERESTING
13 IN ALL OF THIS.

14 DR. TROUNSON: I GUESS WHERE WE NEED TO
15 KEEP A WATCH ON THIS IS WHERE AN INTERPRETATION FOR
16 PEOPLE WHO ARE OPPONENTS TO STEM CELL RESEARCH MIGHT
17 WANT TO TAKE THIS.

18 DR. JUELSGAARD: I THINK THE MORE
19 IMPORTANT CASE, AND IT'S COMING DOWN THE ROAD, IS
20 THE MARRIOTT GENETICS CASE, IN ESSENCE THE BRCA 1
21 GENE TEST, AND WHETHER OR NOT YOU CAN PATENT THAT
22 UNDERLYING DNA, WHICH HAS BEEN THE MAINSTAY OF THE
23 BIOTECHNOLOGY INDUSTRY FOR YEARS NOW. AND SO THAT
24 FOR ME IS A MUCH MORE TELLING CASE THAN THIS
25 PARTICULAR CASE. I THINK THIS IS MORE AT THE

BARRISTERS' REPORTING SERVICE

1 MARGINS OF WHAT'S GOING ON IN THE THERAPEUTIC
2 DEVELOPMENT AREA.

3 DR. TROUNSON: SO WITH THAT, I THINK I'LL
4 JUST INVITE MATT TO GIVE YOU THE FINANCIALS AND I'LL
5 SIT DOWN.

6 DR. PLUNKETT: GOOD MORNING. I'LL GIVE
7 YOU A RECAP OF THE FINANCIAL RESULTS SINCE THE LAST
8 TIME WE MET IN JANUARY. THE YEAR-TO-DATE EXPENSES
9 THROUGH THE END OF JANUARY WERE 7.5 MILLION. THIS
10 COMPARES TO THE PRIOR YEAR PERIOD OF 5.5 MILLION.

11 ON THE NEXT SLIDE I'LL GO INTO SOME MORE
12 DETAIL ON THE VARIANCES THERE. GRANTS DISBURSEMENTS
13 YEAR TO DATE HAVE BEEN 131.3 MILLION. THIS COMPARES
14 TO 119.5 MILLION FOR THE PRIOR YEAR PERIOD. THE
15 AVAILABLE BOND CASH AT THE END OF JANUARY WAS \$157.8
16 MILLION. THIS IS A DECREASE OF \$22.7 MILLION FROM
17 THE END OF DECEMBER.

18 THIS SLIDE CONTAINS SOME DETAIL ON THE
19 OPERATING EXPENSES. I'LL JUST HIGHLIGHT A COUPLE OF
20 THE MAJOR VARIANCES FOR YOU. THE FIRST IS THE
21 INCREASE IN EMPLOYEE EXPENSES WAS DUE TO THE
22 ADDITION OF SIX FTE'S AT JANUARY 31, 2012, AS
23 COMPARED TO A YEAR PRIOR. THE VARIANCE IN THE
24 CONTRACTING IS ALMOST SOLELY DUE TO THE EXPENSE FOR
25 THE IOM REVIEW. THE AMOUNT THAT WE PAID TO DATE IS

BARRISTERS' REPORTING SERVICE

1 \$350,000.

2 PART OF THE VARIANCE IN THE TRAVEL AND
3 MEETINGS IS DUE TO THE \$110,000 FOR THE WORLD STEM
4 CELL CONFERENCE. AND IN ADDITION, THE GRANTEE
5 MEETING, WHICH WAS HELD THIS PAST FALL, THE EXPENSES
6 RECORDED IN THE PERIOD FROM JULY 2011 TO THE CURRENT
7 DATE WERE \$175,000. A REMINDER THAT WE HOLD OUR
8 GRANTEE MEETING EVERY 18 MONTHS.

9 ANY QUESTIONS ON THIS SLIDE?

10 AND THEN THE LAST SLIDE. I JUST WANTED TO
11 SHOW YOU, PARTICULARLY IN THE CONTEXT OF THE BUDGET
12 DISCUSSIONS THAT WE'LL HAVE THIS AFTERNOON, A
13 FORECAST TO YEAR-END. I THINK WE'RE PLANNING TO
14 PROVIDE THIS TO YOU ON A QUARTERLY BASIS, NOT
15 NECESSARILY AT EVERY BOARD MEETING. THIS ACTUALLY
16 DOES TAKE AN INCREDIBLE AMOUNT OF EFFORT TO PREPARE
17 SOME FORECASTING TO YEAR-END. WHAT I WOULD LIKE TO
18 DO IS JUST HIGHLIGHT EACH OF THE DIFFERENT EXPENSE
19 CATEGORIES, THE VARIANCES BETWEEN OUR CURRENT YEAR
20 BOARD-APPROVED BUDGET, AND WHERE WE EXPECT TO END UP
21 AT THE END OF THE YEAR.

22 THE BIGGEST VARIANCE HERE IS IN THE
23 EMPLOYEE EXPENSES. WE'VE ACTUALLY BEEN GOING
24 THROUGH THE YEAR WITH FIVE OR SIX OPEN APPOINTMENTS,
25 AND WE EXPECT AT THE END OF THE YEAR THAT WILL

BARRISTERS' REPORTING SERVICE

1 RESULT IN A CUMULATIVE VARIANCE OF ABOUT \$1 MILLION
2 OR 10 PERCENT UNDER BUDGET.

3 THE NEXT THING WHICH I WOULD LIKE TO FLAG
4 FOR YOU IS THE VARIANCE IN GRANTS REVIEWS. WE
5 EXPECT THAT TO BE ABOUT \$400,000 UNDER THE BUDGET
6 FOR THE YEAR. THAT'S REALLY DUE TO SAVINGS ON THE
7 GRANTS WORKING GROUP MEETINGS AS WELL AS SOME OF THE
8 CLINICAL DEVELOPMENT ADVISORY PANEL MEETINGS. SO
9 SOME MEANINGFUL SAVINGS ACHIEVED THERE.

10 THE I.T., AS YOU CAN SEE, IS APPROXIMATELY
11 \$300,000 OVER BUDGET. ONE THING THAT I WOULD LIKE
12 TO FLAG FOR YOU IS THE WAY THAT WE DID THIS ANALYSIS
13 IS WE DID INCLUDE ENCUMBRANCES TAKEN IN THE FISCAL
14 10-11 FISCAL YEAR FOR SERVICES RENDERED IN THE
15 CURRENT FISCAL YEAR. SO I REALLY WANT TO JUST
16 UNDERSCORE THAT THE PURPOSE OF THIS IS REALLY TO
17 UNDERSTAND WHAT THE TRUE RUN RATE OF EXPENSES IS AND
18 NOT ACTUALLY WHERE THE BUDGET WILL BE AT THE END OF
19 THE YEAR.

20 SO WE DID ACTUALLY HAVE ENCUMBRANCES
21 RECORDED IN THE PRIOR FISCAL YEAR OF \$500,000, AND
22 THAT IS INCLUDED IN THE \$1.6 MILLION FORECAST THAT
23 YOU SEE HERE.

24 THE OTHER THING WHICH I'D LIKE TO FLAG
25 ABOUT THE I.T. LINE ITEM IS THAT IN THE CURRENT YEAR

BARRISTERS' REPORTING SERVICE

1 AND IN PRIOR YEARS, THIS HAS BEEN TYPE OF EXPENSE, A
2 ROW ON THE FINANCIALS. WHAT WE'VE DONE GOING
3 FORWARD IS MAKE THIS A COLUMN, A DEPARTMENT, A COST
4 CENTER, SUCH THAT REALLY ALL OF THE EXPENSES
5 ASSOCIATED WITH THE I.T. FUNCTION ARE IN ONE AREA,
6 NOT NECESSARILY SPREAD OUT. AND YOU WILL SEE THAT
7 THIS AFTERNOON WHEN WE GO THROUGH THE BUDGET.

8 AND THEN THE LAST ITEM HERE, AND ACTUALLY
9 HAVE TO APOLOGIZE IN THAT I LUMPED TOGETHER TWO
10 CONCEPTS EARLIER, THE SAVINGS ON THE CLINICAL
11 DEVELOPMENT ADVISORY PANEL MEETINGS ARE HERE ON THE
12 SECOND FROM LAST ROW ON THE SCIENTIFIC MEETINGS
13 ITEM. WE'LL EXPECT TO SAVE ABOUT \$300,000 OVER THE
14 BUDGET, AND THAT IS ABOUT 1.9 MILLION OR A TOTAL
15 SPENDING IN THE YEAR OF ABOUT 16.6 MILLION.

16 ANY QUESTIONS?

17 CHAIRMAN THOMAS: THANKS VERY MUCH, MATT.

18 DR. PLUNKETT: THANK YOU.

19 CHAIRMAN THOMAS: OKAY. MARIA, WERE YOU
20 ABOUT TO SAY SOMETHING? IT'S LIKE RAISING YOUR HAND
21 AT AN AUCTION. YOU GOT TO BE CAREFUL.

22 OKAY. WE'RE NOW PROCEEDING TO THE ACTION
23 ITEMS. FIRST UP IS ITEM NO. 6, CONSIDERATION OF THE
24 APPOINTMENT OF NEW SCIENTIFIC MEMBERS OF THE GRANTS
25 WORKING GROUP. DR. SAMBRANO.

BARRISTERS' REPORTING SERVICE

1 DR. SAMBRANO: THANK YOU, MEMBERS OF THE
2 BOARD, MEMBERS OF THE PUBLIC. TODAY WE'RE BRINGING
3 FOR YOUR CONSIDERATION SEVEN NOMINEES FOR GRANTS
4 WORKING GROUP MEMBERS THAT ARE BRINGING KEY
5 SCIENTIFIC, REGULATORY, AND PRODUCT DEVELOPMENT
6 EXPERTISE. THE NOMINEES ARE LISTED, AND THERE'S A
7 BRIEF BIO IN YOUR BOOKS UNDER TAB 6.

8 THE NOMINEES INCLUDE DR. NESSAN
9 BERMINGHAM, DR. RAJESH CHOPRA, DR. BORO DROPULIC,
10 DR. RUSSELL LONER, DR. BRUCE MONTGOMERY, DR. DAVID
11 J. PEPPERL, AND DR. DARIN WEBER. AND SO WE REQUEST
12 YOUR APPROVAL AND APPOINTMENT OF THESE NOMINEES AS
13 MEMBERS OF THE GRANTS WORKING GROUP.

14 CHAIRMAN THOMAS: DO WE HEAR A MOTION?

15 MR. TORRES: SO MOVED.

16 MR. ROTH: SECOND.

17 CHAIRMAN THOMAS: MOVED BY SENATOR TORRES,
18 SECOND BY MR. ROTH. ANY DISCUSSION BY MEMBERS OF
19 THE BOARD? YES, MR. JUELGAARD.

20 DR. JUELGAARD: JUST OUT OF CURIOSITY,
21 WHO PROFFERS THESE NAMES TO YOU, THESE
22 RECOMMENDATIONS FOR BEING APPOINTED TO THE GRANTS
23 WORKING GROUP?

24 DR. SAMBRANO: SO THERE'S A VARIETY OF
25 SOURCES. A LOT OF TIMES EXISTING GRANTS WORKING

BARRISTERS' REPORTING SERVICE

1 GROUP MEMBERS PROVIDE THEM. WE GET SUGGESTIONS FROM
2 FOLKS IN THE SCIENCE OFFICE. ELLEN FEIGAL HAS BEEN
3 KEY IN ESPECIALLY IDENTIFYING FOLKS WITH PRODUCT
4 DEVELOPMENT, REGULATORY EXPERTISE. SCIENTIFIC
5 MEETINGS THAT SCIENCE OFFICERS ATTEND WHERE WE
6 ACTUALLY CAN ENGAGE IN CONVERSATION, SEE THEIR
7 PRESENTATIONS, UNDERSTAND WHAT EXPERTISE THAT THEY
8 CAN CONTRIBUTE TO THE GRANTS WORKING GROUP. SO
9 THAT'S WHERE WE KIND OF GET THE POOL OF NAMES.

10 I THINK THE OTHER IS ALSO OUR FUNDING
11 PARTNERS. SOMETIMES WE GET RECOMMENDATIONS COMING
12 FROM OUR FUNDING PARTNERS THAT IDENTIFY FOLKS THAT
13 ARE OUTSIDE OF THE U.S. THAT MAY HAVE CRITICAL
14 EXPERTISE. SO THAT'S THE POOL WE DRAW FROM.

15 DR. JUELSGAARD: DID YOU HAVE A LARGER
16 POOL TO WORK FROM THAN THIS LIST OF RECOMMENDATIONS?

17 DR. SAMBRANO: SURE. SO CURRENTLY THE
18 POOL IS ABOUT A HUNDRED FIFTY OR SO THAT WE DRAW
19 FROM. AND SO THE EXPERTISE RANGES FROM BASIC
20 BIOLOGY TO PRODUCT DEVELOPMENT, EXPERTISE IN
21 DEVELOPING TRAINING PROGRAMS. AND SO WE DRAW FROM
22 THAT POOL AND ASSEMBLE THE APPROPRIATE 15 GRANTS
23 WORKING GROUP MEMBERS WHO ARE GOING TO BE THE
24 SCORING AND VOTING MEMBERS FOR ANY PARTICULAR RFA.

25 AND THEN IN ADDITION TO THAT, EVEN WHEN WE

BARRISTERS' REPORTING SERVICE

1 PUT A FULL PANEL TOGETHER, THERE ARE GOING TO BE
2 GAPS IN EXPERTISE THAT WE USUALLY FILL WITH
3 SPECIALISTS. AND SO THESE ARE REVIEWERS THAT
4 PARTICIPATE BY PHONE, ADD THEIR EXPERTISE, AND THE
5 PANEL LISTENS AND TAKES THEIR EXPERTISE INTO ACCOUNT
6 DURING THE COURSE OF THE REVIEW.

7 DR. JUELSGAARD: LAST QUESTION. WHO MAKES
8 THE DECISION AS TO WHICH NAMES TO PUT FORWARD?

9 DR. SAMBRANO: SO THAT'S THE SCIENCE
10 OFFICE. SO THIS IS CLEARED WITH THE PRESIDENT AND
11 THE EXECUTIVE DIRECTOR OF SCIENTIFIC ACTIVITIES.
12 BUT I THINK A LOT OF IT IS IN SEARCH OF WHO THE BEST
13 EXPERTS ARE IN THE FIELD IN ORDER TO ROUND OUT AND
14 MAKE OUR REVIEWS AS BEST AS WE CAN MAKE THEM.

15 DR. JUELSGAARD: THANK YOU.

16 CHAIRMAN THOMAS: DR. PRIETO.

17 DR. PRIETO: SO SOME OF US WHO SERVE ON
18 THE GRANTS WORKING GROUP HAVE HAD QUESTIONS,
19 DISCUSSIONS ABOUT HOW THE GROUP IS CONSTITUTED AND
20 WHAT THE PROCESS IS, AND IN PARTICULAR WONDERED
21 ABOUT THESE DECISIONS, WHAT DR. JUELSGAARD ASKED
22 ABOUT. HOW DO WE DECIDE WHAT MEMBERS ARE INVITED?
23 BUT ALSO WHEN WE DO HAVE NEW MEMBERS, ONE OF THE
24 CONCERNS THAT SOME OF US HAVE IS THAT THESE MEMBERS
25 COMING ON AND DOING REVIEWS MAY NOT HAVE THE

BARRISTERS' REPORTING SERVICE

1 BACKGROUND AND THE HISTORY AND THE UNDERSTANDING OF
2 THE MISSION AND THE ROLE OF CIRM THAT SOME OF OUR
3 ESTABLISHED REVIEWERS HAVE HAD. AND WE DON'T WANT
4 TO LOSE THAT.

5 AND SO I WONDER IF YOU COULD TALK TO US A
6 LITTLE BIT MORE ABOUT HOW THE DECISION IS MADE TO
7 USE SOME OF THESE MEMBERS AS VOTING MEMBERS
8 REVIEWERS RATHER THAN AS SPECIALISTS.

9 DR. SAMBRANO: SO OBVIOUSLY THE PRIMARY
10 DRIVER IS THE SCIENTIFIC EXCELLENCE OF THE
11 REVIEWERS. BUT BEFORE WE BRING THEM ON NECESSARILY
12 AS A GRANTS WORKING GROUP MEMBER, WE USUALLY OBSERVE
13 THEM IN A COUPLE OF POTENTIAL CAPACITIES. IN SOME
14 CASES THEY PARTICIPATE AS SPECIALISTS. SO YOU MAY
15 NOT NECESSARILY SEE THEM AT GRANTS WORKING GROUP,
16 BUT YOU MAY CERTAINLY HEAR THEM. AND SO MANY OF
17 THEM WILL HAVE HAD AT LEAST ONE OR TWO SESSIONS THAT
18 THEY'VE PARTICIPATED IN THAT CAPACITY. SO THEY
19 BECOME FAMILIAR WITH THE PROCESS. THEY BECOME
20 FAMILIAR WITH THE BACKGROUND TO SOME EXTENT. SOME
21 HAVE PARTICIPATED IN OUR CLINICAL DEVELOPMENT
22 ADVISORY PANELS, OTHERS IN WORKSHOPS. SO WE DO GET
23 A GOOD SENSE OF BOTH THEIR EXPERTISE, AND THEY DO
24 BECOME SOMEWHAT FAMILIAR WITH CIRM AND WHAT OUR
25 GOALS AND INTENT ARE.

BARRISTERS' REPORTING SERVICE

1 BUT IT GOES WITHOUT SAYING THAT WE WOULD
2 ALSO MAKE AN EFFORT, AS ANY NEW MEMBER COMES ON
3 BOARD, TO MAKE IT CLEAR WHAT THE DIRECTIVES OF THE
4 INSTITUTE ARE, WHAT THEY'RE COMING INTO, HOW IT
5 DIFFERS FROM OTHER AGENCIES, ESPECIALLY NIH. SO
6 IT'S CLEAR TO THEM THAT THIS IS A DIFFERENT TYPE OF
7 REVIEW, A DIFFERENT GROUP. AND SO WE DO THE BEST WE
8 CAN TO INTRODUCE THEM.

9 I THINK PART OF YOUR QUESTION IS ALSO ONE
10 OF CONSISTENCY ACROSS REVIEWS. AND MEMBERS WHO HAVE
11 HAD A LONGER HISTORY WITH US BRING SOME OF THAT
12 CONSISTENCY TO THE GROUP. SO WE USUALLY SELECT ANY
13 GIVEN PANEL WITH A SUBSET OF MEMBERS WHO HAVE
14 PARTICIPATED BEFORE TO BRING SOME OF THAT. BUT WE
15 ALWAYS HAVE A NEW SET OF MEMBERS THAT ARE BRINGING
16 NECESSARY EXPERTISE TO THAT PANEL.

17 DR. PRIETO: I GUESS, YOU KNOW, SOME OF US
18 HAVE HAD CONCERNS ABOUT THIS. WHEN WE HAD A GREAT
19 DEAL OF EXPERTISE IN OUR INITIAL GROUP, ONE OF THE
20 THINGS THAT I'M CONCERNED ABOUT THAT I DON'T WANT TO
21 SAY WE'VE LOST, BUT MAY HAVE MOVED AWAY FROM IS WE
22 HAD A NUMBER OF PEOPLE WHO WERE, I DON'T KNOW IF I
23 WANT TO SAY MORE CLINICALLY FOCUSED, BUT PERHAPS
24 MORE DISEASE FOCUSED IN THEIR OWN RESEARCH AND THEIR
25 OWN WORK, AND THAT PERHAPS THERE'S BEEN A SHIFT

BARRISTERS' REPORTING SERVICE

1 TOWARDS MORE OF A BASIC SCIENCE AND SPECIFICALLY
2 STEM CELL BIOLOGY EXPERTISE AND CERTAIN SORT OF MORE
3 NARROWLY FOCUSED EXPERTISE AMONG SOME OF THE
4 MEMBERS.

5 AND I WONDER IF YOU CAN TALK A LITTLE BIT
6 ABOUT THAT, PARTICULARLY AS WE'RE MOVING OR TRYING
7 TO MOVE TOWARDS MORE TRANSLATIONAL AND CLINICALLY
8 ORIENTED PROJECTS. WHERE DO WE WANT TO BE REGARDING
9 THE COMPOSITION OF THE WORKING GROUP?

10 DR. SAMBRANO: I THINK THE OVERALL
11 COMPOSITION, IF YOU LOOK AT THE MOST RECENT
12 APPOINTMENTS, THEY'VE ACTUALLY BEEN MORE IN THE
13 REGULATORY, PRODUCT DEVELOPMENT, CLINICAL DISEASE
14 AREAS BECAUSE THAT'S WHERE THE NEED HAS BEEN. THERE
15 ARE KEY AREAS IN BASIC BIOLOGY THAT WE BROUGHT ON
16 BOARD AS WELL IN EPIGENETICS AND OTHER AREAS THAT
17 ARE DEVELOPING AND WE KNOW WE NEED EXPERTS IN.

18 SO AT LEAST FROM MY PERSPECTIVE, I THINK
19 WE'VE ACTUALLY BEEN INCLUDING AND BRINGING IN MORE
20 DISEASE RELEVANT AND CLINICAL EXPERTS INTO THE
21 GRANTS WORKING GROUP.

22 DR. PRIETO: ONE OTHER QUESTION THAT HAS
23 COME UP IS THAT PROP 71 ENVISIONED THAT THE GRANTS
24 WORKING GROUP WOULD HAVE A ROLE IN THE SORT OF
25 PLANNING OF OUR FUTURE RESEARCH PROGRAM AND

BARRISTERS' REPORTING SERVICE

1 FORMULATION OF RFP'S IN SOME WAY. I JUST WONDERED
2 ARE WE USING THESE PEOPLE WHO WE'VE RECRUITED, ARE
3 WE USING THEM IN THAT WAY?

4 DR. SAMBRANO: WE CERTAINLY GET FEEDBACK
5 FROM THEM IN REVIEWS, THEIR PARTICIPATION IN
6 WORKSHOPS. WE HAVEN'T USED THEM SPECIFICALLY AS A
7 PANEL TO THAT END ALONE. I THINK A LOT OF IT COMES
8 FROM THEIR COMMENTS, SUGGESTIONS, FEEDBACK DURING
9 THE COURSE AND AFTER A REVIEW.

10 DR. PRIETO: YOU KNOW, I DON'T KNOW IF I
11 CAN SAY WE'RE A MATURE ORGANIZATION NOW, BUT
12 CERTAINLY MORE MATURE THAN WE WERE. I WANT US TO
13 THINK ABOUT THESE THINGS AND THINK ABOUT THE PROCESS
14 AND WHETHER WE SHOULD MAKE CHANGES IN THE PROCESS.

15 DR. SAMBRANO: I CERTAINLY WOULD
16 APPRECIATE ANY SUGGESTIONS OR FEEDBACK THAT YOU
17 HAVE. AND CERTAINLY MEMBERS OF THE BOARD WHO HAVE
18 PARTICIPATED AS GRANTS WORKING GROUP MEMBERS
19 CERTAINLY APPRECIATE THE CONSISTENCY THAT YOU BRING
20 TO THAT GROUP. SO IF YOU HAVE OBSERVATIONS OR
21 SUGGESTIONS, PLEASE FEEL FREE.

22 DR. PRIETO: THANK YOU.

23 CHAIRMAN THOMAS: MR. SERRANO-SEWELL.

24 MR. SERRANO-SEWELL: SO IN THE BALLPARK,
25 HOW MANY GRANTS WORKING GROUP MEMBERS, SCIENTISTS,

BARRISTERS' REPORTING SERVICE

1 DO WE HAVE?

2 DR. SAMBRANO: THAT ARE IN THE GRANTS
3 WORKING GROUP?

4 MR. SERRANO-SEWELL: I KNOW THAT BY
5 STATUTE THERE'S THE 15 THAT PARTICIPATE. BUT WE
6 SEEM TO HAVE EXPANDED THE POTENTIAL LIST OF -- THE
7 LIST OF GRANTS WORKING GROUP MEMBERS.

8 DR. SAMBRANO: THE BALLPARK POOL IS ABOUT
9 A HUNDRED FIFTY.

10 MR. SERRANO-SEWELL: AND SO I WOULD JUST
11 ASK DO WE NEED THAT MANY?

12 DR. SAMBRANO: YES.

13 MR. SERRANO-SEWELL: WHY?

14 DR. SAMBRANO: BECAUSE THE TYPES OF RFA'S
15 WE ENCOMPASS UNDER CIRM HAVE A VERY BROAD RANGE FROM
16 VERY BASIC BIOLOGY THROUGH CLINICAL TRIALS. AND SO
17 THE EXPERTISE REQUIRED TO REVIEW, THEN, THE
18 DIFFERENT AREAS WITHIN EACH OF THOSE IS EXTREMELY
19 BROAD. I ACTUALLY DON'T THINK THAT A HUNDRED FIFTY
20 NECESSARILY IS ENOUGH.

21 THE OTHER ISSUE THAT COMES INTO PLAY IS
22 THE AVAILABILITY OF THE REVIEWERS THEMSELVES. SO
23 YOU CAN IMAGINE FOR ANY GIVEN RFA, THAT YOU MAY WANT
24 TO HAVE REPRESENTATION FOR ANY PARTICULAR AREA BY
25 MORE THAN ONE OR TWO INDIVIDUALS SO THAT YOU'RE

BARRISTERS' REPORTING SERVICE

1 ASSURED THAT YOU'RE GOING TO BE ABLE TO PUT A PANEL
2 TOGETHER AT A GIVEN TIME OR DATE AND WILL BE ABLE TO
3 FULLY PARTICIPATE.

4 MR. SERRANO-SEWELL: I SEE YOUR POINT.
5 IT'S ONE OF SCHEDULING AND GETTING THE BEST SORT OF
6 EXPERTS IN THE SUBJECT MATTER THAT'S RELATED TO THE
7 RFA.

8 DR. SAMBRANO: RIGHT.

9 MR. SERRANO-SEWELL: BUT I WOULD ASK US TO
10 THINK ABOUT SOMETHING FRANCISCO SAID, AND THAT IS
11 THE CONSISTENCY OF THE GRANTS WORKING GROUP MEMBERS.
12 AND AS THEY -- WHEN YOU GET CONSISTENCY, THEY GET
13 FURTHER EDUCATED ON A VARIETY OF TOPICS AND CAN
14 PARTICIPATE IN AS WELL EVEN IF IT MAY NOT BE THEIR
15 AREA OF EXPERTISE. AND THERE IS A VALUE IN HAVING
16 CONSISTENCY, NOT JUST WITH THE PATIENT ADVOCATE
17 WORKING GROUP MEMBERS, BUT ON THE 15 SCIENTISTS AS
18 WELL. I APPRECIATE YOU CAN'T HAVE THE SAME 15 ALL
19 THE TIME. THAT'S JUST NOT POSSIBLE. WHEREAS, YOU
20 SEE A HUNDRED FIFTY OR SO AS NOT ENOUGH, WHERE I
21 SIT, I SEE IT AS GETTING AT KIND OF A HIGH NUMBER.

22 CHAIRMAN THOMAS: ANY FURTHER DISCUSSION?
23 IT'S BEEN MOVED AND SECONDED. MARIA, DO WE NEED A
24 VOICE VOTE OR A ROLL CALL VOTE?

25 ALL THOSE IN FAVOR IN THE ROOM OF THIS

BARRISTERS' REPORTING SERVICE

1 MOTION PLEASE SIGNIFY BY SAYING AYE. OPPOSED?
2 ABSTENTIONS? THEN, MARIA, COULD YOU JUST POLL THE
3 MEMBERS ON THE PHONE?

4 MS. BONNEVILLE: PHIL PIZZO.

5 DR. PIZZO: YES.

6 MS. BONNEVILLE: MARCY FEIT.

7 MS. FEIT: YES.

8 MS. BONNEVILLE: MICHAEL FRIEDMAN.

9 DR. FRIEDMAN: YES.

10 CHAIRMAN THOMAS: MOTION CARRIES. THANK
11 YOU.

12 ON TO ITEM 7, WHICH IS CONSIDERATION OF
13 THE PROPOSED AMENDMENT TO REGULATION 100603 TO
14 REQUIRE CIRM GRANTEES TO MAKE CIRM-FUNDED
15 PUBLICATIONS AVAILABLE TO THE PUBLIC WITHIN 12
16 MONTHS OF PUBLICATION. MR. HARRISON.

17 MR. HARRISON: GOOD MORNING.

18 ASSEMBLYMEMBER SKINNER'S OFFICE HAS APPROACHED CIRM
19 ABOUT THE ASSEMBLYMEMBER'S INTEREST IN LEGISLATION
20 THAT WOULD REQUIRE CIRM-FUNDED GRANTEES TO ABIDE BY
21 NIH'S PUBLIC ACCESS POLICY WITH RESPECT TO
22 CIRM-FUNDED PUBLICATIONS.

23 UNDER SENATOR TORRES' LEADERSHIP, WE
24 ENGAGED IN DISCUSSIONS WITH THE ASSEMBLYMEMBER'S
25 OFFICE ABOUT THE POSSIBILITY OF CIRM AMENDING ITS

BARRISTERS' REPORTING SERVICE

1 PUBLIC DISCLOSURE REGULATION TO ADOPT NIH'S PUBLIC
2 ACCESS POLICY. AND THE ASSEMBLYMEMBER IS AMENABLE
3 TO THAT APPROACH, WHICH WOULD OBTAIN THE NEED FOR
4 LEGISLATION.

5 LET ME JUST CURRENTLY REVIEW WHAT CIRM'S
6 REGULATION COVERS. CIRM'S PUBLIC DISCLOSURE POLICY
7 REQUIRES CIRM-FUNDED INVESTIGATORS TO SUBMIT A
8 PUBLICATION DISCLOSURE FORM TO CIRM'S GRANTS
9 MANAGEMENT OFFICE THAT INCLUDES A 500-WORD SUMMARY
10 OF THE PUBLICATION ALONG WITH A COPY OF THE
11 PUBLICATION WITHIN 60 DAYS.

12 THE REGULATION, HOWEVER, DOES NOT REQUIRE
13 THAT GRANTEEES SUBMIT AN ELECTRONIC COPY OF THE
14 PUBLICATION, AND NEITHER THE 500-WORD SUMMARY NOR
15 THE PUBLICATION ARE CURRENTLY AVAILABLE ON CIRM'S
16 WEBSITE.

17 THE NIH PUBLIC ACCESS POLICY WHICH WAS
18 ADOPTED IN 2008 REQUIRES NIH-FUNDED INVESTIGATORS TO
19 SUBMIT AN ELECTRONIC COPY OF THE FINAL PEER REVIEWED
20 MANUSCRIPTS THAT WERE PRODUCED IN WHOLE OR IN PART
21 WITH NIH FUNDING TO THE NATIONAL LIBRARY OF
22 MEDICINE'S PUBMED CENTRAL TO BE MADE AVAILABLE TO
23 THE PUBLIC WITHIN 12 MONTHS OF THE OFFICIAL DATE OF
24 PUBLICATION.

25 WE WOULD PROPOSE TO ALIGN CIRM'S PUBLIC

BARRISTERS' REPORTING SERVICE

1 DISCLOSURE POLICY WITH THE NIH PUBLIC ACCESS POLICY
2 FIRST BY REQUIRING CIRM-FUNDED GRANTEES TO SUBMIT AN
3 ELECTRONIC COPY OF CIRM-FUNDED PUBLICATIONS TO
4 PUBMED CENTRAL, IF POSSIBLE. AND IF THAT'S NOT
5 POSSIBLE, TO CIRM TO BE MADE AVAILABLE TO THE PUBLIC
6 WITHIN 12 MONTHS OF PUBLICATION. WE WOULD ALSO
7 PROPOSE TO ELIMINATE THE 500-WORD SUMMARY THAT IS
8 CURRENTLY REQUIRED UNDER THE REGULATION.

9 WE WOULD LIKE TO ASK THE BOARD FOR
10 APPROVAL TO INITIATE A RULEMAKING WITH THE OFFICE OF
11 ADMINISTRATIVE LAW IN ORDER TO AMEND THE REGULATION
12 TO ALIGN CIRM'S POLICY WITH THE NIH PUBLIC ACCESS
13 POLICY.

14 CHAIRMAN THOMAS: DO I HEAR A MOTION TO
15 THAT EFFECT?

16 DR. HAWGOOD: SO MOVED.

17 CHAIRMAN THOMAS: MOVED BY DEAN HAWGOOD.
18 IS THERE IS A SECOND?

19 DR. JUELSGAARD: SECOND.

20 CHAIRMAN THOMAS: ANY DISCUSSION BY
21 MEMBERS OF THE BOARD? JOAN.

22 MS. SAMUELSON: A QUESTION. MAYBE I'M
23 JUST MISSING SOMETHING. WHY 12 MONTHS? WHY WOULD
24 IT NOT BE AVAILABLE TO THE PUBLIC INSTANTANEOUSLY,
25 ESPECIALLY BECAUSE IT'S ELECTRONIC?

BARRISTERS' REPORTING SERVICE

1 MR. HARRISON: I BELIEVE THE EXPLANATION
2 IS THAT THE JOURNALS IN WHICH THE ARTICLES ARE
3 PUBLISHED LIKE TO HAVE SOME TIME WHERE THE ONLY
4 PLACE TO FIND THE PUBLICATION IS IN THE JOURNAL IN
5 WHICH IT'S MADE AVAILABLE. SO THE NIH POLICY
6 REQUIRES THAT IT BE DONE WITHIN 12 MONTHS, AND IT
7 REQUIRES THE NIH-FUNDED INVESTIGATORS ACTUALLY TO
8 INCLUDE A PROVISION IN THEIR CONTRACT WITH THE
9 PUBLISHERS THAT ALLOWS THEM TO MAKE A COPY OF IT
10 AVAILABLE TO PUBMED CENTRAL WITHIN THAT TIME FRAME.

11 MS. SAMUELSON: COULD IT BE REDUCED AT ALL
12 AND GIVE THEM THAT SAME -- I'M TRYING TO THINK OF A
13 WORD FOR PERK.

14 MR. HARRISON: I THINK THE DIFFICULTY IS
15 THAT PUBLISHERS ARE ACCUSTOMED TO THE NIH RULE
16 BECAUSE IT'S BEEN IN EFFECT NOW FOR THREE YEARS.
17 AND BY ALIGNING OURSELVES WITH THE NIH RULE, WE'LL
18 MAKE IT EASIER FOR INVESTIGATORS AND PUBLISHERS TO
19 ABIDE BY CIRM'S POLICY BECAUSE IT WILL BE CONSISTENT
20 WITH NIH. SO FROM AN IMPLEMENTATION STANDPOINT, I
21 THINK THIS WOULD BE A FAR EASIER APPROACH.

22 MS. SAMUELSON: AND THAT'S AN IMPORTANT
23 CRITERION. AT THE SAME TIME CALIFORNIANS WOULD LOOK
24 AT IT THEY'RE FUNDING THE RESEARCH AND THE RESULTS,
25 AND THEY WOULDN'T WANT TO WAIT SIGNIFICANTLY LONGER.

BARRISTERS' REPORTING SERVICE

1 IF THERE'S ANY WAY TO ACCOMMODATE THAT AT ALL.

2 MR. HARRISON: WE CAN INVESTIGATE THAT
3 THROUGH THE RULEMAKING PROCESS. WE'RE NOT ASKING
4 THE BOARD FOR FINAL ADOPTION OF THE REGULATION AT
5 THIS POINT IN TIME, AND IT WILL BE SUBJECT TO PUBLIC
6 COMMENT, AND WE'LL TAKE INPUT AND COME BACK TO THE
7 BOARD.

8 MS. SAMUELSON: THANK YOU. GREAT.

9 CHAIRMAN THOMAS: SO, MR. HARRISON, DO WE
10 NEED A VOTE ON THIS?

11 MR. HARRISON: WE DO. WE'D LIKE TO ASK
12 THE BOARD TO APPROVE INITIATING THE RULEMAKING
13 PROCESS.

14 CHAIRMAN THOMAS: SO IS THIS ANOTHER VOICE
15 VOTE? PUBLIC COMMENT. YES, MR. REED.

16 MR. REED: IF I UNDERSTOOD CORRECTLY,
17 THERE WAS A TALK OF REMOVING THE REQUIREMENT FOR A
18 500-WORD SUMMARY. I WOULD STRONGLY OBJECT TO THAT.
19 I ASKED FOR THAT A COUPLE YEARS AGO, AND THERE WAS A
20 DISCUSSION ON THIS, AND IT WAS DECIDED TO DO THAT.
21 THOSE 500-WORD SUMMARIES ARE VERY IMPORTANT FOR THE
22 PUBLIC TO UNDERSTAND. THAT LETS US TAKE A LOOK AT
23 WHAT THE SCIENTISTS UNDERSTAND. BUT FOR WE WHO TRY
24 TO STRUGGLE TO UNDERSTAND, THOSE 500-WORD SUMMARIES
25 ARE REALLY IMPORTANT. I WOULD URGE THAT WE DO NOT

BARRISTERS' REPORTING SERVICE

1 REMOVE THAT.

2 CHAIRMAN THOMAS: MR. HARRISON.

3 MR. HARRISON: AGAIN, WE'RE NOT ASKING THE
4 BOARD FOR FINAL APPROVAL OF THIS REGULATION TODAY.
5 WE ASK ONLY FOR AUTHORITY TO INITIATE THE RULEMAKING
6 DURING WHICH TIME WE'LL HAVE THE OPPORTUNITY TO TAKE
7 COMMENT FROM PEOPLE LIKE DON AND FROM OTHER MEMBERS
8 OF THE PUBLIC AND RESPOND AND MAKE CHANGES IF STAFF
9 BELIEVE THEY'RE WARRANTED BEFORE WE BRING THE
10 REGULATION BACK TO THE BOARD FOR FINAL ADOPTION.

11 CHAIRMAN THOMAS: THANK YOU. POINT DULY
12 NOTED, MR. REED.

13 MR. REED: THAT WOULD REMOVE TRANSPARENCY,
14 WHICH IS REALLY IMPORTANT TO US. THANK YOU.

15 CHAIRMAN THOMAS: ANY OTHER COMMENT BY
16 MEMBERS OF THE PUBLIC? HEARING NONE, WE'LL PROCEED
17 TO A VOICE VOTE. ALL THOSE IN FAVOR PLEASE SAY AYE.
18 OPPOSED? ABSTENTIONS? MARIA, PLEASE POLL MEMBERS
19 ON THE PHONE.

20 MS. BONNEVILLE: PHIL PIZZO.

21 DR. PIZZO: AYE.

22 MS. BONNEVILLE: MARCY FEIT.

23 MS. FEIT: YES.

24 MS. BONNEVILLE: MICHAEL FRIEDMAN.

25 DR. FRIEDMAN: YES.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: MOTION APPROVED. THANK
2 YOU VERY MUCH, MR. HARRISON.

3 ON TO ITEM NO. 8, THE CONSIDERATION OF THE
4 CREATIVITY AWARDS. DR. SAMBRANO, WHO'S TAKING THE
5 LEAD HERE?

6 DR. VESSAL: MR. CHAIRMAN, MEMBERS OF THE
7 BOARD, I WOULD LIKE PRESENT TO YOU TODAY THE
8 RECOMMENDATIONS MADE BY THE GRANTS WORKING GROUP FOR
9 YOUR APPROVAL FOR THE CREATIVITY AWARDS RFA.

10 BRIEFLY, THE OBJECTIVES OF THIS RFA WAS TO
11 INTRODUCE HIGH SCHOOL STUDENTS TO CUTTING-EDGE
12 MEDICAL RESEARCH EDUCATION, EXPOSE THEM TO THE FIELD
13 OF STEM CELL SCIENCE THROUGH FORMING PARTNERSHIPS
14 WITH CALIFORNIA INSTITUTIONS THAT ALREADY HAVE AN
15 EXISTING PROGRAM IN PLACE AND ENCOURAGING THE
16 PROGRAMS TO FOSTER CREATIVITY BY ALSO ENCOURAGING
17 THE STUDENTS TO PURSUE A SECOND DISCIPLINE OF THEIR
18 CHOICE WHEN AVAILABLE. AND ALSO, OF COURSE, TO
19 PROVIDE THE OPPORTUNITY TO THE SOCIOECONOMICALLY
20 DISADVANTAGED STUDENTS.

21 THE AWARDED PROGRAMS WILL PROVIDE SUMMER
22 STUDENTS WITH SUMMER INTERNSHIPS AND EDUCATIONAL
23 PROGRAMS IN STEM CELL AND DEVELOPMENTAL BIOLOGY, AND
24 THE PROGRAM WILL SUPPORT UP TO THREE YEARS OF
25 FUNDING.

BARRISTERS' REPORTING SERVICE

1 THE ICOC AT THE TIME OF THE CONCEPT
2 PROPOSAL APPROVED UP TO \$3 MILLION FOR ABOUT TEN
3 GRANTS. THE AWARDS WILL PROVIDE DIRECT PROJECT
4 COSTS UP TO 87,500 A YEAR AND A TOTAL COST OF THE
5 PROGRAM OF UP TO \$96,250 PER YEAR FOR EACH PROGRAM.

6 THE GRANTS WORKING GROUP MET ON FEBRUARY
7 16TH TELEPHONICALLY, AND THE REVIEW CRITERIA THAT
8 THEY USED TO EVALUATE THE APPLICATIONS WERE AS
9 FOLLOWS: ONE WOULD BE THAT THERE MUST BE AN
10 EXISTING PROGRAM ALREADY IN PLACE WITH A TRACK
11 HISTORY AT THE INSTITUTIONS AND APPROPRIATE AND
12 AMPLE INTERNSHIP OPPORTUNITIES AVAILABLE AT THESE
13 INSTITUTIONS. THERE MUST BE A STUDENT RECRUITMENT,
14 PLACEMENT, AND PROGRAM ADMINISTRATION IN PLACE. AND
15 THEY SHOULD HAVE BENEFICIAL AND APPROPRIATE
16 SCIENTIFIC ACTIVITIES AVAILABLE FOR THE HIGH SCHOOL
17 STUDENTS AND A DEFINED AND INTEGRATED SECOND
18 DISCIPLINE ACTIVITY IN THE PROGRAM. OF COURSE, A
19 QUALIFIED AND EXPERIENCED PROGRAM DIRECTOR TO MANAGE
20 THIS.

21 THERE WERE 12 APPLICATIONS THAT WERE
22 SUBMITTED AND REVIEWED BY THE GRANTS WORKING GROUP.
23 AND THAT WAS HELD, AS I SAID, ON FEBRUARY 16TH
24 TELEPHONICALLY. EIGHT APPLICATIONS WERE RECOMMENDED
25 FOR FUNDING AT A TOTAL COST OF \$1.5 MILLION.

BARRISTERS' REPORTING SERVICE

1 AND I WILL TAKE ANY QUESTIONS IF YOU HAVE
2 AND WOULD LIKE TO ASK FOR YOUR APPROVAL FOR THIS.

3 CHAIRMAN THOMAS: WE HAVE A MOTION TO
4 APPROVE?

5 DR. PIZZO: MOVE APPROVAL.

6 CHAIRMAN THOMAS: MR. HARRISON HAS A
7 CONFLICT ANNOUNCEMENT TO MAKE HERE.

8 MR. HARRISON: EACH OF THE MEMBERS SHOULD
9 HAVE A SHEET IN FRONT OF THEM IDENTIFYING ANY
10 CREATIVITY AWARD APPLICATION IN WHICH THEY HAVE A
11 CONFLICT OF INTEREST. MEMBERS SHOULD CONSULT THAT
12 SHEET BEFORE ASKING A QUESTION OR MAKING A MOTION
13 WITH RESPECT TO A PARTICULAR APPLICATION. AND I
14 WOULD REQUEST THAT ONLY THOSE MEMBERS WHO DO NOT
15 HAVE AN INTEREST IN ANY OF THE APPLICATIONS MAKE ANY
16 EN BANC MOTION.

17 CHAIRMAN THOMAS: DO WE HAVE A MOTION?

18 MR. ROTH: I HAVE ONE MORE QUESTION BEFORE
19 WE GO TO THAT. YOU'RE RECOMMENDING EIGHT FOR
20 APPROVAL AT 1.5 MILLION?

21 DR. VESSAL: YES.

22 MR. ROTH: HOW MANY STUDENTS WILL THAT
23 TOUCH COLLECTIVELY?

24 DR. VESSAL: ROUGHLY A TOTAL FOR ALL
25 EIGHT, IT WOULD BE 60 TO 70 STUDENTS FOR SUMMER, NOT

BARRISTERS' REPORTING SERVICE

1 FOR ALL THREE YEARS. THIS IS FOR SUMMER, SO IT
2 WOULD BE ROUGHLY ABOUT 200, 250.

3 DR. LEVIN: HOW MUCH WAS BUDGETED FOR
4 THIS?

5 DR. VESSAL: WE HAVE \$3 MILLION THAT WAS
6 APPROVED BY THE ICOC.

7 CHAIRMAN THOMAS: DR. LEVIN.

8 DR. LEVIN: CAN WE DISCUSS ONE OF THE NOT
9 RECOMMENDED FOR FUNDING AT THIS POINT?

10 CHAIRMAN THOMAS: LET'S GET A MOTION ON
11 THE TABLE FIRST HERE. MR. SHEEHY.

12 MR. SHEEHY: IF WE DO AN OMNIBUS MOTION,
13 DOES THAT PRECLUDE US MOVING OTHER GRANTS OR
14 ATTEMPTING TO MOVE OTHER GRANTS INTO THE FUNDABLE
15 CATEGORY?

16 MR. HARRISON: I WOULD LIKE TO SUGGEST
17 THAT THE BOARD CONSIDER WHETHER IT IS INTERESTED IN
18 MOVING ANY OF THE APPLICATIONS THAT ARE IN TIER 3 TO
19 TIER 1, AND THEN CONSIDER WHETHER IT'S INTERESTED IN
20 MOVING ANY APPLICATIONS FROM TIER 1 TO TIER 3, AND
21 THEN WE CAN ENTERTAIN AN OMNIBUS MOTION.

22 CHAIRMAN THOMAS: THANK YOU.

23 DR. LEVIN: I GUESS I'D LIKE TO DISCUSS
24 6870, IF WE COULD, THE ONE THAT HIGH SCORED BUT WAS
25 NOT RECOMMENDED FOR FUNDING. AND I'LL FREELY ADMIT

BARRISTERS' REPORTING SERVICE

1 THAT ALL I KNOW ABOUT THESE GRANTS IS WHAT WAS IN
2 THE REVIEW SUMMARIES. BUT IN LOOKING AT THEM, THIS
3 GRANT SEEMED TO HAVE SOME POTENTIAL POSITIVE IMPACT.
4 IT HAD GOOD REMARKS ON THE PI. IT DIDN'T HAVE ANY
5 SEVERE DEFICIENCIES MENTIONED. IT WASN'T OUT OF
6 SCOPE. IT SEEMED TO ME THAT THE GENERAL VIEW OF THE
7 GRANTS WORKING GROUP WAS WHAT MY HIGH STUDENT CALLS
8 (GUTTURAL SOUND), WHICH MAYBE FOR A RESEARCH GRANT
9 OF A LARGE AMOUNT OF MONEY AND SIGNIFICANT POSSIBLE
10 IMPACT WOULD BE SOMETHING THAT WE SHOULDN'T CONSIDER
11 MOVING UP. BUT MY VIEW AT LEAST IS THAT ANYTHING
12 THAT GETS HIGH SCHOOL STUDENTS INTO THE LAB AND
13 PARTICIPATING IN SCIENCE AND IN SUCH AN ENVIRONMENT
14 IS GOING TO HAVE GOOD BENEFITS. AND WHAT FOR US IS
15 SMALL AMOUNT OF MONEY, IT IS WORTH CONSIDERING.

16 CHAIRMAN THOMAS: MR. SHEEHY.

17 MR. SHEEHY: AND IS THAT A MOTION, DR.
18 LEVIN, TO MOVE IT INTO THE FUNDABLE CATEGORY?

19 DR. LEVIN: I'LL MAKE A MOTION.

20 MR. SHEEHY: I'D BE HAPPY TO SECOND THAT.
21 ACTUALLY I THINK IF WE GO BACK TO THE CRITERIA, YOU
22 DON'T NECESSARILY HAVE TO PUT THEM BACK UP, BUT IN A
23 WAY THE CRITERIA WERE, IN MY MIND, INTERPRETED TOO
24 STRICTLY IN THIS PARTICULAR CASE. THIS WAS NOT A
25 PROGRAM THAT HAD A LONG TRACK RECORD. IN FACT, IT

BARRISTERS' REPORTING SERVICE

1 STARTED ITS FIRST GROUP OF STUDENTS LAST SUMMER AS A
2 CIRM-SPONSORED PILOT. SO WHEN COMPARED TO SOME OF
3 THESE PROGRAMS WHICH HAVE BEEN DOING SUMMER
4 PROGRAMS, SCIENCE PROGRAMS FOR KIDS FOR LIKE 20
5 YEARS, IT DOESN'T LOOK AS GOOD.

6 THERE ALSO -- SO THAT WAS ONE DEFICIENCY
7 THAT ACTUALLY WASN'T APPROPRIATE. THIS PROGRAM, IN
8 FACT, WAS SO WELL RECEIVED, THAT THERE WAS A
9 NEWSPAPER ARTICLE ABOUT THE STUDENTS WHO
10 PARTICIPATED IN THE PROGRAM AT A MAJOR CALIFORNIA
11 DAILY LAUDING THE PARTICIPATION OF THE STUDENTS.

12 IT'S INTERESTING TOO THAT THIS WAS THE
13 ONLY ONE WHERE THE STUDENTS GOT A CERTIFICATION. SO
14 THE STUDENTS WHO PARTICIPATED IN THIS PROGRAM, AT
15 LEAST THE ONES WHO DID LAST SUMMER, CAME OUT WITH A
16 GMP FACILITY EXPERTISE MASTER'S DOCUMENTATION OF
17 WORK THAT IS EQUIVALENT TO WHAT THE BRIDGES STUDENTS
18 WERE ACCOMPLISHING IN A MUCH LONGER TIME PERIOD,
19 WHICH WAS ALSO SIGNIFICANT.

20 THERE WAS ALSO FURTHER DAMAGE BECAUSE --
21 OF THIS PARTICULAR APPLICATION BECAUSE THERE WAS A
22 MISPERCEPTION ABOUT THE STATUS OF THE PI. SO HIS
23 TITLE WAS LISTED AS ASSOCIATE ADJUNCT PROFESSOR, AND
24 THEY TOOK THAT TO ASSUME THAT THIS WAS SOMETHING OF
25 A COWBOY WITHOUT THE FULL SUPPORT OF THE

BARRISTERS' REPORTING SERVICE

1 INSTITUTION. AND THOSE OF US WHO KNEW THE
2 INDIVIDUAL AND KNEW THE INSTITUTION KNEW THAT THIS
3 WAS ABSOLUTELY ABSURD. THE REVIEWERS ARE LOOKING AT
4 THIS AND SAID, YOU KNOW, THIS DOESN'T LOOK LIKE A
5 FULL FACULTY POSITION.

6 SO I THINK -- AND THEN THERE WAS SOME
7 CONCERNS ABOUT THE INTEGRATION OF THE SECOND
8 DISCIPLINE EVEN THOUGH THE SECOND DISCIPLINE WAS A
9 COLLEGE LEVEL COURSE THAT WAS TAUGHT AT THE
10 ASSOCIATED UNIVERSITY BY THIS INDIVIDUAL. SO I JUST
11 THINK THAT ON THIS ONE, ESPECIALLY THE ISSUES OF
12 DURATION AND LONGEVITY OF THE PROGRAM AND THE
13 ASSOCIATION OF THE PI WITH THE UNIVERSITY, THE
14 WORKING GROUP JUST OVEREMPHASIZED THOSE PARTICULAR
15 ASPECTS OF THE REVIEW. AND I THINK DR. VESSAL CAN
16 TELL US ABOUT WHAT THEIR PERFORMANCE WAS. GIVEN
17 THAT NOT MANY OF THESE DO WE HAVE DIRECT EXPERIENCE,
18 WE PILOTED, WHAT, I THINK THREE OR FOUR LAST SUMMER.

19 DR. VESSAL: THERE WERE FOUR PROGRAMS.

20 MR. SHEEHY: THIS WAS ONE OF THEM. DID
21 THEY PERFORM WELL? WHAT WAS THE --

22 DR. VESSAL: THEY REALLY EXCELLED. ALL
23 FOUR EXCELLED, I HAVE TO SAY, AND THIS DEFINITELY
24 DID NOT SHY AWAY FROM THE OTHER PROGRAMS.

25 MR. SHEEHY: SO WE'VE GOT A PROGRAM THAT

BARRISTERS' REPORTING SERVICE

1 HAS A GREAT RECORD, STUDENTS WHO HAVE BEEN
2 RECOGNIZED ALREADY IN PRINT, WHICH AS MANY OF US
3 KNOW, WE DON'T GET THAT MANY FAVORABLE NEWS
4 ARTICLES. I THINK THIS WOULD BE ONE THAT I THINK WE
5 WOULD BE WELL SERVED BY MOVING INTO THE FUNDABLE
6 CATEGORY.

7 CHAIRMAN THOMAS: SENATOR TORRES.

8 MR. TORRES: MR. HARRISON, IS THERE A
9 REASON WHY WE DON'T HAVE THE NAME OF THE INSTITUTION
10 HERE?

11 MR. HARRISON: YES. WE HAVE A POLICY OF
12 CONDUCTING A BLIND REVIEW OF APPLICATIONS.

13 MR. TORRES: SO THEN WHAT WAS THE COURSE
14 THAT YOU REFERENCED? WHAT WAS THE NAME OF THE
15 COURSE?

16 MR. SHEEHY: IT WAS A FILM STUDIES COURSE.

17 MR. TORRES: OH, THIS IS THE ONE. I HAD
18 STRONG OBJECTIONS TO THIS PROPOSAL BECAUSE I DID NOT
19 FEEL IT WAS SERIOUS ENOUGH IN THE SECOND DISCIPLINE.
20 I MADE THAT VERY CLEAR DURING OUR DISCUSSIONS, AND I
21 FELT THAT THE APPLICANT SHOULD HAVE GIVEN A
22 DIFFERENT APPROACH TO THE SERIOUSNESS AND ALIGNED
23 ITSELF AS TO WHY THE SECONDARY DISCIPLINE WAS
24 RELATED TO STEM CELL RESEARCH. THOSE WERE MY
25 CONCERNS AS I ARTICULATED THEM DURING OUR REVIEW

BARRISTERS' REPORTING SERVICE

1 PROCESS.

2 DR. JUELSGAARD: I UNDERSTAND FROM THE
3 AGENDA THAT THERE'S TO BE A CLOSED SESSION TO
4 DISCUSS THESE CREATIVITY AWARDS. IS THAT RIGHT?
5 AND IF SO, WHEN DO WE ENTERTAIN THAT BECAUSE PART OF
6 THIS DISCUSSION THAT JUST OCCURRED IS SORT OF A
7 LIMITATION, AT LEAST WITH REGARD TO THE REST OF US
8 UNDERSTANDING.

9 MR. HARRISON: YES, WE DO HAVE THE
10 OPPORTUNITY TO GO INTO CLOSED SESSION TO DISCUSS
11 CONFIDENTIAL AND PROPRIETARY INFORMATION RELATED TO
12 THE APPLICATION.

13 MR. SHEEHY: I'D LIKE TO RESPOND TO THE
14 SECOND DISCIPLINE.

15 CHAIRMAN THOMAS: HOLD ON, MR. SHEEHY.
16 MR. JUELSGAARD STILL HAS THE FLOOR.

17 DR. JUELSGAARD: BUT WHEN DO WE DO THAT,
18 MR. HARRISON?

19 MR. HARRISON: IN THE ORDINARY COURSE, WE
20 WOULD DO THAT AFTER EXHAUSTING ALL QUESTIONS FROM
21 THE BOARD THAT INVOLVE NONCONFIDENTIAL OR
22 NONPROPRIETARY INFORMATION.

23 DR. JUELSGAARD: SO WE'LL HAVE MOTIONS ON
24 THE FLOOR, BUT NOTHING WILL HAVE HAPPENED BEYOND
25 THIS PUBLIC DISCUSSION. WE'LL HAVE A CLOSED

BARRISTERS' REPORTING SERVICE

1 SESSION, AND THEN WE'LL GO BACK TO APPROVAL OR LACK
2 OF APPROVAL.

3 MR. HARRISON: THAT'S CORRECT. IF THE
4 BOARD FEELS THE NEED TO GO INTO CLOSED SESSION,
5 THAT'S WHAT WOULD HAPPEN.

6 DR. PRICE: POINT OF INFORMATION. JAMES,
7 IS THERE ANYTHING IN THESE PROPOSALS THAT FIT THE
8 CATEGORY OF THINGS WE CAN DISCUSS IN EXECUTIVE
9 SESSION?

10 MR. HARRISON: THERE MAY BE. I'D WANT TO
11 CONSULT WITH THE SCIENTIFIC STAFF ON THAT QUESTION.
12 BUT FOR THE MOST PART, I THINK THE CONVERSATION CAN
13 LARGELY OCCUR IN PUBLIC SESSION.

14 CHAIRMAN THOMAS: MR. SHEEHY AND THEN
15 DR. STEWARD.

16 MR. SHEEHY: I JUST THINK -- DR. VESSAL,
17 COULD YOU GIVE US A SENSE BECAUSE I THINK THIS IS A
18 POINT OF -- I MEAN THE GOAL OF THESE APPLICATIONS IS
19 NOT THE SECOND DISCIPLINE, THE WEIGHTING OF THAT
20 WITHIN THE CONTEXT OF THESE GRANTS.

21 DR. VESSAL: I JUST WANT TO MAKE A POINT
22 THAT IN TERMS OF THE FUNDING AND THE MONEY THAT'S
23 ACTUALLY BEING SPENT IN THE BUDGET PER APPLICATION,
24 ALMOST ALL OF IT IS BEING SPENT ON THE STEM CELL
25 SCIENCE ASPECT OF IT, NOT ON THE SECOND DISCIPLINE.

BARRISTERS' REPORTING SERVICE

1 REALLY THE SECOND DISCIPLINE, THE ENTIRE IDEA BEHIND
2 IT WAS TO, AS I SAID, REALLY JUST FOR CREATIVITY
3 PURPOSES. AND GIVEN THAT AT LEAST HALF, IF NOT
4 MORE, OF THE STUDENTS REPRESENTED IN THESE
5 APPLICATIONS COME FROM A SOCIOECONOMICALLY
6 DISADVANTAGED BACKGROUND, THEY ORDINARILY WOULDN'T
7 HAVE AN OPPORTUNITY TO PARTICIPATE IN ANY OF THESE
8 DISCIPLINES REALLY.

9 SO IT WOULD BE AN OPPORTUNITY FOR THEM TO
10 BE EXPOSED TO ANY OF THE ACTIVITIES THAT WERE SET
11 FORTH IN THESE APPLICATIONS. SO I DON'T KNOW IF
12 THAT ANSWERS YOUR QUESTION, BUT CERTAINLY THE
13 CONCENTRATION IS ON THE STEM CELL SCIENCE PORTION OF
14 IT, AND THAT IS REALLY THE MEAT OF THE APPLICATIONS.

15 MR. SHEEHY: AND THEN LOOKING AT THE STEM
16 CELL SCIENCE PORTION OF THIS, AT LEAST TO ME, BASED
17 ON -- AND MAYBE FROM THE PILOT WORK THAT YOU'VE
18 SEEN, THERE SEEMED TO BE AN UNUSUAL AMOUNT OF RIGOR
19 IN TERMS OF DETERMINING THAT THE PEOPLE WHO
20 PARTICIPATED IN THIS PROGRAM ACTUALLY MASTERED SOME
21 SIGNIFICANT AMOUNT OF -- I MEAN IF I LEARN HOW TO
22 FUNCTION IN A GMP ENVIRONMENT IN HIGH SCHOOL, MIGHT
23 THAT NOT GIVE ME A LOT MORE OPPORTUNITIES ONCE I GOT
24 OUT OF HIGH SCHOOL OR EVEN GOING FORWARD INTO
25 COLLEGE? I MEAN THE RIGOR, IT SEEMED TO ME, IN THIS

BARRISTERS' REPORTING SERVICE

1 PARTICULAR PROGRAM TO BE A LITTLE BIT HIGHER THAN
2 ACTUALLY SOME OF THE PROGRAMS THAT WERE FUNDED IN
3 THAT PEOPLE WERE ACTUALLY GETTING CERTIFIED, A REAL
4 HANDS-ON EXPERIENCE IN LEARNING HOW TO OPERATE IN
5 CLEAN SPACE IN A GMP COMPLIANT FACILITY IN A VERY
6 RIGOROUS PROGRAM THAT I THOUGHT STOOD UP VERY WELL
7 AGAINST THE OTHER PROGRAMS.

8 DR. VESSAL: AGAIN, I'M JUST GOING TO BASE
9 MY FACTS ON THE PILOT PROGRAM THAT WE RAN LAST YEAR
10 AND THE SURVEY THAT I CONDUCTED AND HAD A VERY
11 SUCCESSFUL 75 PERCENT ROUGHLY RESPONSE RATE FROM THE
12 STUDENTS AND THE MENTORS AND ALSO THE POSTERS THAT
13 EACH STUDENT PRESENTED AT THE POSTER DAY AT THE END
14 OF THE SUMMER BASED ON THEIR WORK. AND I HAVE TO
15 SAY THEY WERE REALLY IMPRESSIVE, VERY IMPRESSIVE.
16 ALMOST HUNDRED PERCENT OF THESE STUDENTS HAD
17 ABSOLUTELY NO BACKGROUND IN STEM CELL BIOLOGY OR
18 EVEN WORKING IN A LABORATORY SETTING. SO I HAVE TO
19 SAY THAT THEY WERE ALL REALLY EXCESSIVELY
20 IMPRESSIVE.

21 MR. SHEEHY: AND THEN AS A FURTHER AND I
22 THINK A KEY PROGRAMMATIC CONSIDERATION, THIS WOULD
23 BE THE ONLY PROGRAM WE APPROVED THAT IS NOT IN THE
24 SAN DIEGO AREA, THE LOS ANGELES AREA, OR THE BAY
25 AREA. SO I DO THINK WE HAVE AN OBLIGATION TO MAKE

BARRISTERS' REPORTING SERVICE

1 THESE PROGRAMS AVAILABLE TO A MORE DIVERSE GROUP OF
2 CALIFORNIANS AND NOT JUST THE PEOPLE WHO LIVE NEAR
3 THE COAST.

4 SO WE'VE GOT A GREAT PROGRAM THAT I KNOW
5 THE FILM CLASS YOU WERE NOT ENTHUSIASTIC ABOUT,
6 SENATOR TORRES, BUT I DON'T THINK --

7 MR. TORRES: I LOVE GOING TO FILM CLASSES.
8 I DON'T THINK IT'S PART OF SOMETHING THAT WE SHOULD
9 BE FUNDING WITH STEM CELL MONEY. THAT'S ALL.

10 MR. SHEEHY: A MINOR PORTION. I THINK
11 HAVING HIGH SCHOOL STUDENTS FROM MORE DIVERSE AREAS
12 OF CALIFORNIA --

13 MR. TORRES: I'M SORRY, MR. CHAIRMAN. AND
14 I'M SORRY, DR. STEWARD, YOU WERE NEXT. I'LL WAIT.

15 DR. STEWARD: ACTUALLY WHAT I WAS GOING TO
16 ASK, I DON'T THINK THAT THIS IS PROPRIETARY. COULD
17 WE GET A JUDGMENT ON THAT FIRST? AND IF NOT, THEN
18 ACTUALLY WHAT I WAS GOING TO ASK YOU TO DO IS UNPACK
19 A LITTLE BIT WHAT IT IS THAT THEY'RE PROPOSING AND
20 WHY IT IS THAT YOU'RE OPPOSED TO IT.

21 CHAIRMAN THOMAS: MR. HARRISON, IS ANY OF
22 THAT PROPRIETARY? I DON'T BELIEVE SO.

23 MR. HARRISON: BASED ON MY CONSULTATION
24 WITH STAFF, I DON'T BELIEVE THAT ANY OF THE
25 INFORMATION THE BOARD IS CURRENTLY DISCUSSING IS

BARRISTERS' REPORTING SERVICE

1 PROPRIETARY. IT MIGHT HELP FOR THE BENEFIT OF
2 MEMBERS WHO WERE NOT PRESENT AT THE GRANTS WORKING
3 GROUP FOR MANI TO EXPLAIN WHAT THE CRITERIA WERE
4 PARTICULARLY WITH RESPECT TO THE SECOND PROGRAM
5 BECAUSE I THINK WE'VE KIND OF ENTERED UPON A
6 DISCUSSION THAT HAS ALREADY OCCURRED AND SOME
7 MEMBERS HAVE NOT BEEN PARTICIPANTS IN.

8 CHAIRMAN THOMAS: DR. VESSAL.

9 DR. VESSAL: SURE. AGAIN, THE CRITERIA
10 THAT WE SET FORTH FOR THE SECOND DISCIPLINE WAS KIND
11 OF IN A GRAY ZONE, AND INTENTIONALLY SO. WE THOUGHT
12 THAT IT WOULD REALLY HINDER CREATIVITY, WHICH WAS
13 REALLY THE VERY CONCEPT BEHIND THIS SECOND
14 DISCIPLINE. IF WE WERE TO BORDER IT WITHIN
15 CONFINEMENTS OF A SET OF RULES, EITHER ACADEMICALLY
16 SPEAKING OR NOT, AND SO IT WAS REALLY LEFT UP TO THE
17 APPLICANT INSTITUTIONS TO DEFINE WHAT THAT SECOND
18 DISCIPLINE IS OR SET OF DISCIPLINES. WE DID NOT
19 ACTUALLY HAVE ANY LIMITATIONS ON THE SUBJECT MATTER
20 FOR THAT, FOR EXAMPLE. SO IT COULD HAVE BEEN REALLY
21 IN ANY DISCIPLINE WHATSOEVER. NON-ACADEMICALLY
22 BASED WOULD HAVE BEEN PERFECTLY FINE AS WELL, SO WE
23 DIDN'T SAY THAT IT HAD TO HAVE BEEN IN AN ACADEMIC
24 CATEGORY.

25 SO IT COULD HAVE BEEN SPORTS, IT COULD

BARRISTERS' REPORTING SERVICE

1 HAVE BEEN MUSIC, IT COULD HAVE BEEN ART, FOR SURE.
2 AS WE KNOW MULTIPLE EXAMPLES HISTORICALLY THAT HAVE
3 LED TO AN AHA MOMENT WHEN IT HAS NOTHING TO DO WITH
4 THE ACTUAL SUBJECT MATTER THAT THE PERSON HAS BEEN
5 WORKING ON. SO REALLY WE DIDN'T HAVE ANY
6 CONSTRAINTS ON THAT SECOND DISCIPLINE AS LONG AS
7 THEY HAD THE POTENTIAL OR THE INSTITUTION ACTUALLY
8 HAD THE CAPACITY TO OFFER IT TO WHATEVER EXTENT THAT
9 WOULD BE. AND SO, AGAIN, IT WAS DEFINITELY LEFT IN
10 THE GRAY ZONE, BUT PART OF THAT WAS REALLY
11 INTENTIONAL JUST BECAUSE WE DIDN'T WANT TO RESTRICT
12 IT TO ANY GIVEN SET OF RULES BECAUSE THAT WOULD
13 HINDER CREATIVITY.

14 MR. TORRES: I'LL PUT MY VOTING RECORD ON
15 THE ARTS AGAINST ANYBODY. BUT I DO BELIEVE THAT --
16 I'LL WAIT TILL MANI IS FINISHED. I DO BELIEVE THAT
17 THE PI IN THIS CASE IS VERY WELL RESPECTED. I KNOW
18 HIM. I RESPECT HIM GREATLY. I JUST DON'T THINK THE
19 APPLICATION WAS WRITTEN WITH GREAT SENSITIVITY TO
20 HOW THE PUBLIC WOULD REACT TO SUCH A PROPOSAL. AND
21 THAT'S WHY I OPPOSED IT. THERE WAS ANOTHER PROPOSAL
22 THAT TALKED ABOUT THE SECONDARY DISCIPLINE BEING
23 YACHTING AND GARDENING. DID THAT MAKE THE FUNDING?

24 MR. SHEEHY: YES.

25 MR. TORRES: IT DID AS WELL. FOR MY

BARRISTERS' REPORTING SERVICE

1 PURPOSES THERE WERE OTHER PROPOSALS THAT DIDN'T
2 STRETCH THE CREATIVITY DEFINITION. THEY KEPT IT
3 WITHIN THE STEM CELL SCIENCE FIELD. THAT'S WHERE I
4 FELT THOSE PROPOSALS WERE APPROPRIATE. AND THAT'S
5 WHY I OPPOSED THIS PROPOSAL AND THAT'S WHY I OPPOSED
6 THE YACHTING AND GARDENING PROPOSAL. I JUST DON'T
7 THINK THAT THE PUBLIC WILL UNDERSTAND THE AHA
8 MOMENTS. AND QUITE FRANKLY, THEY GIVE US A TRUST
9 AND A FIDUCIARY DUTY TO SPEND THE TAXPAYER'S MONEY
10 FOR IMPORTANT STEM CELL RESEARCH. AND, YES, I
11 SUPPORT HIGH SCHOOL STUDENTS. I SUPPORT THE BRIDGES
12 PROGRAM, BUT I DO THINK THAT SUPPORT OUGHT TO BE
13 TEMPERED WITH THE SENSITIVITY OF HOW THESE PROJECTS
14 ARE PERCEIVED.

15 CHAIRMAN THOMAS: MR. SHEEHY AND THEN DR.
16 PRIETO.

17 MR. SHEEHY: I THINK YOU'RE IN CONFLICT,
18 BY THE WAY, DR. PRIETO. SO I WOULD ADVISE YOU. I
19 JUST WANT TO SAY I CAN'T IMAGINE, AND MANY OF THE
20 INDIVIDUALS SITTING HERE ARE WORKING SCIENTISTS,
21 THAT A BETTER METAPHOR, ARTISTIC ENTERPRISE METAPHOR
22 FOR THE SCIENTIFIC ENDEAVOR EXISTS IN MAKING A
23 MOVIE. YOU HAVE A PRODUCT THAT AT THE END OF THE
24 DAY LOOKS LIKE THE CREATION OF AN INDIVIDUAL,
25 SCORSESE, COPPOLA, BUT REALLY IS THE RESULT OF A

BARRISTERS' REPORTING SERVICE

1 HIGHLY ORGANIZED TEAM OF MANY INDIVIDUALS DOING
2 DIFFERENT PIECES OF WORK COLLECTIVELY. AND, YOU
3 KNOW, YOU LOOK AT SOMEBODY WINS A NOBEL PRIZE, AND
4 PEOPLE THINK, WELL, THEY DID THIS ALL THEMSELVES. NO.
5 A GOOD RESEARCHER, AT LEAST IN MY EXPERIENCE, IS
6 SOMEONE WHO CAN ASSEMBLE A STRONG TEAM OF CREATIVE
7 INDIVIDUALS TO WORK COLLECTIVELY TOWARDS A COMMON
8 GOAL, AND THEY DO THIS WITH A CERTAIN PANACHE AND
9 CERTAIN FLARE AND CERTAIN ARTISTRY.

10 AND SO I THINK THE METAPHOR OF FILM MAKING
11 AND SCIENCE FOR A HIGH SCHOOL STUDENT IS INCREDIBLY
12 POWERFUL IF YOU WANT TO ENCOURAGE KIDS FROM SOCIALLY
13 DISADVANTAGED BACKGROUNDS.

14 MR. TORRES: THESE KIDS AREN'T MAKING
15 FILMS. THEY'RE VIEWING FILMS UNDER THIS PROPOSAL.

16 MR. SHEEHY: THEY'RE STUDYING THE HISTORY
17 OF FILM IN A COLLEGE ACCREDITED CLASS SO THEY
18 UNDERSTAND. YOU KNOW, AGAIN, WE COULD AGREE TO
19 DISAGREE, BUT I DON'T THINK THAT THE POINT OF THESE
20 GRANTS ARE THE SECONDARY DISCIPLINES. IT'S JUST A
21 LITTLE WHIPPED CREAM ON TOP OF WHAT IS REALLY A
22 STEAK DINNER. AND THE REAL MEAT OF THIS PROJECT IS
23 WHAT'S GOING ON INSIDE THE LABS, AS DR. VESSAL SAID.
24 WHAT PORTION OF THIS GRANT WILL REALLY BE DEDICATED
25 TO THE SECONDARY DISCIPLINE?

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1 DR. VESSAL: THAT WAS NOT BUDGETED IN
2 THERE REALLY. IT COMES OUT OF THE ADMINISTRATION
3 COST.

4 MR. SHEEHY: SO THE MONEY THEY'RE REALLY
5 SPENDING IS GOING TOWARDS SCIENCE. I JUST THINK
6 THIS WAS A GREAT GRANT.

7 MR. TORRES: SO YOU SEE US PAYING FOR THE
8 REMAINDER OF THE ACTIVITY IS WHAT YOU'RE SAYING?

9 DR. SAMBRANO: IF I MAY JUST ADD
10 SOMETHING. IN TERMS OF THE REVIEW CRITERIA AND THE
11 INSTRUCTIONS THAT WENT TO REVIEWERS, THE SECOND
12 DISCIPLINE, THERE WAS AN EXPECTATION THAT THERE
13 WOULD BE SOME KIND OF DESCRIPTION OF HOW IT
14 INCORPORATED INTO THE PROGRAM OVERALL. I THINK
15 REGARDLESS OF WHAT THE DISCIPLINE, THAT SECOND
16 DISCIPLINE IS, I THINK THERE WAS AN EXPECTATION THAT
17 SOMEHOW IT WOULD INCORPORATE INTO THE PROGRAM.

18 SO WHERE YOU MAY HAVE HAD GARDENING OR
19 SOME OTHER TYPE OF ACTIVITY, THERE IS THE
20 EXPECTATION THIS IS SOMEHOW GOING TO RELATE TO THE
21 PROGRAM IN SOME WAY. WHERE THIS PARTICULAR
22 APPLICATION UNDER DISCUSSION MAY HAVE FAILED MAY
23 HAVE BEEN IN THAT DESCRIPTION, BUT IT IS NOT
24 NECESSARILY THE SUBJECT MATTER ITSELF THAT WOULD BE
25 AN ISSUE FOR REVIEWERS. IT IS REALLY HOW THEY

BARRISTERS' REPORTING SERVICE

1 PACKAGE THE FULL PROGRAM TOGETHER AND WAS PRESENTED
2 AND THE REVIEWERS RANKED THEM AND RATED THEM
3 ACCORDINGLY.

4 MR. SHEEHY: MY MEMORY OF THE REVIEW WAS
5 THE TWO MOST DAMAGING PIECES OF WHAT THE REVIEWERS
6 LOOKED AT WAS THE RELATIONSHIP OF THE PI TO THE
7 INSTITUTION, WHICH SEEMED TO ME THE MOST FATAL FLAW
8 THAT THEY PERCEIVED, WHICH IS A MISPERCEPTION, BY
9 THE WAY. I DON'T THINK THAT THAT'S TRUE. NONE OF
10 US KNOW THAT TO BE TRUE, AND WE KNOW THE PI AND THE
11 INSTITUTION. AND THE OTHER FLAW WAS THE LENGTH OF
12 THE PROGRAM. THE OTHER ONES HAVE BEEN GOING ON FOR
13 QUITE SOME TIME, AND THIS ONE WAS ONLY IN ITS SECOND
14 YEAR. AND THAT WAS THE NO. 1 CRITERION.

15 FRANKLY, I WOULDN'T BE RECOMMENDING IT IF
16 WE DIDN'T HAVE A SOLID TRACK RECORD OF ACHIEVEMENT
17 BY THIS INSTITUTION AS MEASURED BY CIRM IN ITS PILOT
18 WORK LAST SUMMER THAT COULD SHOW THAT THEY DID A
19 GREAT JOB.

20 CHAIRMAN THOMAS: OKAY. WE HAVE DR.
21 STEWARD, DR. JUELGAARD, AND MR. ROTH.

22 DR. STEWARD: ACTUALLY THIS FOLLOWS
23 DIRECTLY FROM GIL'S STATEMENT OF THE REQUIREMENTS.
24 SO, JEFF, YOU ELOQUENTLY EXPLAINED HOW THIS ACTIVITY
25 COULD ACTUALLY BE SEEN AS A METAPHOR. I GUESS THE

BARRISTERS' REPORTING SERVICE

1 QUESTION IS DID THE GRANT DO THAT OR IS THAT YOU?

2 MR. SHEEHY: THAT'S ME. BUT I WILL SAY
3 THAT FOR MANY OF THE GRANTS THAT ARE IN THE FUNDABLE
4 CATEGORY, THE INTEGRATION OF THE SECOND DISCIPLINE
5 WAS NOT WELL EXPLAINED. SO THAT WAS NOT A FEATURE
6 THAT WAS UNIVERSALLY -- IT DID NOT QUALIFY YOU FOR
7 FUNDING. IT DID NOT DISQUALIFY YOU FOR FUNDING IF
8 YOU DID A POOR JOB OF EXPLAINING IT. I DON'T THINK
9 THAT THAT WAS THE FATAL FLAW, BY THE WAY, IN THIS
10 APPLICATION. IF IT WAS, SOME OF THE OTHER
11 APPLICATIONS WOULD NOT HAVE BEEN FUNDED.

12 DR. JUELSGAARD: WELL, I THINK OS JUST
13 ASKED ONE OF THE QUESTIONS I WAS INTERESTED IN.
14 PART OF THIS COLLOQUY GOING ON IS, IN ESSENCE, MR.
15 SHEEHY'S PERCEPTION OF THE PROCESS, WHICH I ACCEPT
16 THAT THAT'S YOUR PERCEPTION. THE QUESTION IS IS
17 THERE SOMEBODY WHO'S IN HERE WHO PARTICIPATED IN
18 THAT PROCESS WHO HAS A DIFFERENT PERCEPTION SO THAT
19 WE HAVE KIND OF BOTH SIDES OF THE ISSUE TO BE LAID
20 OUT? OTHERWISE WE'RE LEFT WITH WHAT'S WRITTEN
21 VERSUS YOUR FIRSTHAND KNOWLEDGE, JEFF. I'M CURIOUS
22 ABOUT THAT.

23 A SECOND POINT IS REALLY, AND THIS IS WHAT
24 I'M NOT SURE I UNDERSTAND, IS REALLY WHAT IS THIS
25 VALUE OF THE SECOND DISCIPLINE? FOR ME IT'S A

BARRISTERS' REPORTING SERVICE

1 REALLY NOVEL NOTION, AND IT'S NOT CLEAR WHAT REALLY
2 VALUE. I THINK MAYBE THAT'S WHY NOT SO MUCH
3 ATTENTION IS BEING PAID TO IT. IF NOT MUCH
4 ATTENTION IS BEING PAID IT BY THE GRANTS WORKING
5 GROUP, IT'S BECAUSE IT'S SORT OF JUST AN ADD-ON, AND
6 ONE HAS TO QUESTION ITS RELEVANCE TO WHAT REALLY IS
7 BEING ACCOMPLISHED. I WASN'T HERE WHEN THIS WAS
8 CREATED, BUT MY FUNDAMENTAL QUESTION IS WHAT'S THE
9 VALUE OF THE SECOND DISCIPLINE?

10 CHAIRMAN THOMAS: LET'S TAKE DR. TROUNSON.

11 DR. TROUNSON: WELL, I'D LIKE TO ADDRESS
12 THAT VERY SPECIFICALLY BECAUSE I ACTUALLY THINK THE
13 DISCUSSION IS VERY TYPICAL ABOUT WHAT PEOPLE DO AND
14 DON'T UNDERSTAND ABOUT CREATIVITY. YOU HAVE TO
15 ACTUALLY GO AND BOTHER TO READ WHAT MAKES REALLY
16 CREATIVE PEOPLE. IF YOU DO THAT, IF YOU DELVE INTO
17 WHAT REALLY CHANGES THINGS, WHAT GETS PEOPLE TO DO
18 THINGS DIFFERENTLY RATHER THAN TO FOLLOW A SINGLE
19 LINE AND A SINGLE PROCESS IS THAT THEY BE EXPOSED TO
20 SOME OTHER DISCIPLINE. NOW, THE ARGUMENT IS WHAT IS
21 THE EXTENT TO THAT DISCIPLINE? IS LAW AND
22 VETERINARY SCIENCE ENOUGH DIFFERENCE TO MAKE
23 SOMEBODY VERY SPECIAL IN ONE AREA, OR HAS THE
24 MOVEMENT OF BALLET AND STEM CELLS GOT SOME REAL
25 MERIT IN MAKING PEOPLE THINK IN A DIFFERENT WAY?

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1 WE WANTED TO TAKE YOUNG PEOPLE AND NOT
2 JUST DUMP THEM INTO STEM CELLS, BUT GIVE THEM AN
3 EXPERIENCE WHERE THEY WOULD BE EXPOSED TO THE
4 DISCIPLINE WE'RE INTERESTED IN, WHICH IS STEM CELLS,
5 BUT ALSO GIVE THEM THAT EXTRA OPPORTUNITY TO EXPRESS
6 THEMSELVES.

7 NOW, WE DIDN'T WANT TO SORT OF FORMULATE
8 WHAT THAT WAS BECAUSE IN CREATIVITY THEORY THAT'S
9 THE WRONG THING TO DO BECAUSE WE CAN'T PREDICT WHAT
10 MIGHT BE REALLY CRITICAL. AND SOME THINGS, YOU
11 KNOW, IN THIS CASE THE THEATER MAY NOT BE THE BEST
12 THING. BUT HOW MANY PEOPLE DO YOU KNOW THAT ARE
13 TREMENDOUS IN MUSIC AND VERY GOOD IN SCIENCE OR
14 FISHING AND SCIENCE, OR SAILING AND SCIENCE? THERE
15 ARE A WHOLE LOT OF THINGS WHICH GO TO MAKE UP VERY
16 CREATIVE PEOPLE; BUT IF YOU DISTILL IT DOWN, THEY'RE
17 NOT NECESSARILY THE SINGLE-MINDED PERSON THAT'S JUST
18 MAKING THE NEW DISCOVERIES. AND WE WERE TRYING TO
19 FIND THOSE PEOPLE AND STIMULATE THOSE FROM THIS
20 COHORT WHO WERE NOT ALREADY BURIED DEEP ALREADY IN
21 THE DISCIPLINE, BUT GIVE THEM SOME OPPORTUNITY TO
22 EXPRESS THEMSELVES IN A DIFFERENT WAY. I THINK THAT
23 HAPPENED IN THE WORK THAT WE DID WITH THESE YOUNG
24 PEOPLE THE FIRST TIME AROUND. I THINK WE'RE ALL
25 EXCITED.

BARRISTERS' REPORTING SERVICE

1 YOU'D HAVE TO SAY MANI AND I HAD A LOT OF
2 TROUBLE SELLING THIS WHOLE CONCEPT INTERNALLY. WE
3 HAD A LOT OF DISCUSSIONS LAST TIME WE WERE HERE.
4 AND UNLESS YOU BOTHERED TO READ DEEP INTO
5 CREATIVITY, YOU PROBABLY WON'T HAVE THE SAME VIEWS
6 THAT MANI AND I HAVE; BUT IF YOU DO, YOU'LL BE
7 REALLY INTERESTED TO SEE THE NUMBER OF PEOPLE WHO
8 HAVE NOBEL PRIZES THAT DO THINGS IN RATHER DIFFERENT
9 WAYS. THEY THINK DIFFERENTLY. AND THAT'S REALLY
10 WHAT WE WERE TRYING TO DO.

11 CHAIRMAN THOMAS: BACK TO MR. JUELSGAARD.

12 DR. JUELSGAARD: I JUST WANT TO RESPOND TO
13 THAT, ALAN. I DON'T DISAGREE WITH YOUR NOTION
14 GENERALLY SPEAKING THAT CREATIVE SCIENTISTS HAVE
15 OTHER INTERESTS THAT MAY HELP STIMULATE THAT
16 CREATIVITY. BUT NONE OF THAT IS IMPOSED FROM THE
17 OUTSIDE OR DICTATED FROM THE OUTSIDE. THOSE
18 CREATIVITY AMBITIONS RANGE A WHOLE VARIETY OF
19 THINGS, AND THESE INTERESTS ARE DEVELOPED BY THE
20 INDIVIDUALS THEMSELVES.

21 SO BACK TO THE ISSUE OF THE HISTORY OF
22 FILM, MAYBE ONE PERSON, I'M JUST SPECULATING, MAYBE
23 ONE PERSON OUT OF 20 WOULD FIND THAT OF SOME
24 CREATIVE INTEREST; WHEREAS, THE OTHER 19 HAVE NO
25 INTEREST IN FILM MAKING, NO DESIRE TO BE INVOLVED.

BARRISTERS' REPORTING SERVICE

1 THEIR DESIRE MIGHT BE MUSIC, IT MIGHT BE
2 PHOTOGRAPHY, IT MIGHT BE SOMETHING ENTIRELY
3 DIFFERENT. SO FOR ME ONE OF THE PROBLEMS IS WE PUT
4 EVERYBODY TOGETHER IN SOME SORT OF CREATIVITY
5 CONTEXT AND SAY, SO THIS IS YOUR CREATIVE MOMENT.
6 I'M NOT SURE HOW MUCH VALUE THAT REALLY BRINGS WHEN
7 YOU DO IT THAT WAY.

8 DR. TROUNSON: WE'RE TRYING TO PROVIDE
9 SOME DEPTH TO WHATEVER THAT DISCIPLINE IS. SO
10 THAT'S WHY WE WERE ASKING FOR THAT SECOND DISCIPLINE
11 TO HAVE SOME SORT OF STRUCTURE TO IT. WE CAN'T
12 ACTUALLY PROVIDE ALL OF THE POSSIBILITIES THAT
13 EVERYONE WOULD LIKE TO CHOOSE FOR THEMSELVES. SO
14 THIS WAS ONE WAY IN WHICH YOU CAN CREATE A RATHER
15 DIFFERENT ENVIRONMENT FOR SOMEBODY. WHETHER IT
16 WORKS FOR EVERYBODY? NO, PROBABLY DOESN'T. BUT IF
17 IT WORKS FOR SOME OF THEM, I THINK THAT WOULD BE
18 REALLY IMPORTANT.

19 MR. ROTH: JUST A QUICK CLARIFICATION ON
20 THE PROCESS. HOW WERE THE ORIGINAL PILOTS CHOSEN?

21 DR. VESSAL: FIRST COME, FIRST SERVED
22 BASICALLY. WE PUT A CALL OUT ACTUALLY, AND WE ONLY
23 HAD VERY LIMITED RESOURCES AVAILABLE.

24 MR. ROTH: THE REASON I WANTED THAT
25 QUESTION ANSWERED IS BECAUSE I WANT TO MAKE SURE WE

BARRISTERS' REPORTING SERVICE

1 DON'T PREJUDICE ALL THE APPLICATIONS BY THE ONES WHO
2 WERE FORTUNATE TO GET AN OUTBOUND CALL TO SAY WOULD
3 YOU LIKE TO DO THIS. SO IN THE INTEREST OF MAKING
4 SURE -- THE ONLY THING WE HAVE THAT'S REALLY LOOKED
5 AT TOTAL IS THE SCORING SYSTEM THAT CAME THROUGH
6 HERE. OTHERWISE CERTAIN PLACES, OBVIOUSLY THIS ONE,
7 IS BEING LOOKED AT BECAUSE THERE'S AN EXPERIENCE
8 HERE. WHAT ABOUT THE ONES THAT DIDN'T GET SCORED
9 DOWN BELOW THE LINE THAT DIDN'T HAVE A CHANCE TO GET
10 THAT EXPERIENCE SO THEY COULD SCORE HIGH ENOUGH?

11 DR. LEVIN: I BROUGHT THIS UP BASED ON THE
12 REVIEW, AND I DIDN'T KNOW ANYTHING ABOUT THE --

13 MR. ROTH: BUT THE CONVERSATION HAS LED TO
14 AN AWFUL LOT OF TRYING TO OUT WHO IT IS, WHY THEY
15 DESERVE IT, AND IT'S BASED ON HISTORIC PRECEDENT
16 WHICH WAS NOT EVENLY RANDOMLY SELECTED. SO THERE'S
17 A BIAS BUILT IN HERE EXCEPT FOR THE REVIEW CRITERIA.

18 MS. SAMUELSON: I'D JUST LIKE TO MAKE SURE
19 THAT WE DON'T HAVE THE APPLICANT IN THE ROOM OR
20 SOMEONE ELSE WHO COULD EXPLAIN THIS BECAUSE WE'RE
21 SPECULATING A BIT, AND THIS IS AN IMPORTANT
22 QUESTION. TODAY IT TURNS OUT JAMES CAMERON, THE
23 DIRECTOR OF *TITANIC*, IS GOING TO THE DEEPEST POINT
24 ON THE PLANET SOLO, A SEVEN-MILE DESCENT TO THE
25 BOTTOM OF THE SOUTH PACIFIC. AND THE FIRST THING

BARRISTERS' REPORTING SERVICE

1 HE'S GOING TO DO IS DO A FILM ABOUT IT. AND THAT
2 WHAT HE INTENTIONALLY WANTS TO DO, HE SAYS IN THE
3 NEWS ARTICLES, IS CREATE EXCITEMENT ABOUT THE
4 SCIENCE. SO IT MAY BE THAT THERE'S SOME LINK THAT
5 WE MISSED.

6 AND I'D ALSO LIKE TO KNOW IF WE COULDN'T
7 MAYBE USE THIS OPPORTUNITY TO, IN THIS CASE WHERE
8 THERE'S LESS PROPRIETARY INFORMATION AT ISSUE, I
9 WOULD THINK, THAT IN A LOT OF OUR GRANT RFA'S, WE
10 COULD LIFT THE CLOAK OF SECRECY ABOUT THE NAMES.
11 WE'VE GOT AN OPPORTUNITY TO COMMUNICATE HERE.

12 CHAIRMAN THOMAS: MR. HARRISON.

13 MR. HARRISON: YOU MAY WANT TO ASK FOR A
14 PUBLIC COMMENT, CHAIR, AT THIS POINT.

15 CHAIRMAN THOMAS: WE DON'T HAVE A -- WE
16 HAVE PUBLIC COMMENT BEFORE WE HAVE A MOTION?

17 MR. HARRISON: WE HAVE A MOTION ON THE
18 TABLE, SO THE PUBLIC COMMENT BEFORE THE VOTE.

19 CHAIRMAN THOMAS: SO THE SPECIFIC MOTION
20 IS WITH RESPECT TO THIS ONE ITEM. IS THERE PUBLIC
21 COMMENT ON THIS? MR. REED.

22 MR. REED: FIRST, THERE IS NO GREATER
23 CHAMPION FOR THE BRIDGES PROGRAM THAN THE SENATOR.
24 BUT ON THIS SITUATION, AS A FORMER JUNIOR HIGH
25 SCHOOL TEACHER, I KNOW THAT SCIENCE IS THE HARDEST

BARRISTERS' REPORTING SERVICE

1 SELL IN SCHOOL TODAY. THEY DON'T SEE THE WHY. THEY
2 DON'T UNDERSTAND. IF YOU ASK THEM WHAT'S THE MOST
3 HATED SUBJECT, IT'S SCIENCE BECAUSE THEY DON'T
4 UNDERSTAND WHY.

5 NOW, WHAT MADE THE DIFFERENCE FOR ME IN
6 UNDERSTANDING GLOBAL WARMING WAS A MOVIE. IT WAS
7 THE AL GORE MOVIE. THAT MADE IT REAL FOR ME.
8 SUDDENLY I UNDERSTOOD. BUT WE'RE FACING A
9 GENERATION OF SCIENTIFIC ILLITERACY. AND IF THIS IS
10 A BORDERLINE CALL, THEN I WOULD URGE YOU TO ERR ON
11 THE SIDE OF REACHING OUT TO THE PEOPLE WHO WILL BE
12 MAKING THE SCIENTIFIC DECISIONS OF TOMORROW. IT'S
13 NOT AN OVERWHELMINGLY EXPENSIVE ITEM, AND I REALLY
14 APPRECIATE THE CONCEPT OF CREATIVITY AS CRUCIAL TO
15 REACHING OUT TO YOUNG PEOPLE.

16 CHAIRMAN THOMAS: ANY OTHER COMMENTS FROM
17 THE PUBLIC?

18 DR. VESSAL: I'D JUST ACTUALLY LIKE TO
19 ECHO BOTH DR. TROUNSON AND MR. REED. I JUST WANTED
20 TO MAKE A COMMENT THAT ANOTHER PURPOSE FOR THE
21 SECOND DISCIPLINE, WHATEVER THAT MAY BE, REALLY I
22 THINK DON REALLY HIT IT, IS POSITIVE REINFORCEMENT.
23 AND JUST TO HAVE A POSITIVE EXPERIENCE OF DOING
24 SCIENCE HANDS-ON AND HAVING FUN WITH IT TOO.
25 BECAUSE AS A SCIENTIST, I CAN SAY THAT SCIENCE CAN'T

BARRISTERS' REPORTING SERVICE

1 BE FUN ALL THE TIME. IT'S NOT FUN ALL THE TIME.
2 BUT THIS IS THE VERY BEGINNING WHERE THE SEED IS
3 BEING PLANTED IN THESE KIDS WHO OTHERWISE REALLY
4 MOSTLY WOULDN'T HAVE THE OPPORTUNITY IN AT LEAST
5 HALF OF THE GROUP TO BE EXPOSED AT THIS HIGH LEVEL
6 TO A HANDS-ON SCIENCE.

7 SO I JUST -- ANY ACTIVITY, IF IT'S FUN,
8 IT'S ALSO POSITIVE REINFORCEMENT FOR SCIENCE PERHAPS
9 IN THE FUTURE AS A CAREER.

10 MR. TORRES: DR. VESSAL, COULD YOU GO VERY
11 QUICKLY OVER ALL THE ONES THAT WE AGREED TO FUND AND
12 GIVE US A QUICK HIT ON WHAT THE SECONDARY DISCIPLINE
13 WAS FOR EACH OF THESE PROJECTS?

14 DR. VESSAL: THEY'RE PROVIDED IN THE
15 SUMMARY ACTUALLY THAT HAS BEEN PROVIDED IN YOUR
16 FOLDERS, I BELIEVE. THEY'RE ALL IN THERE.

17 MR. TORRES: WELL, I DON'T SEE IT. I
18 DIDN'T SEE THEM.

19 DR. VESSAL: THE EXECUTIVE SUMMARIES ARE
20 ALL IN THE FOLDER WITH ALL THE HIGHLIGHTS OF THE
21 STRENGTHS AND WEAKNESSES IN A VERY SORT OF --

22 DR. JUELSGAARD: ARE THESE THE SAME ONES
23 THAT WERE DISTRIBUTED BY MARIA PRIOR TO THIS
24 MEETING? BECAUSE I READ EVERY ONE OF THOSE, AND I
25 DIDN'T SEE ANY TALK ABOUT THE SECONDARY DISCIPLINES.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: MR. SHEEHY.

2 MR. SHEEHY: COULD I JUST MAKE A
3 FUNDAMENTAL POINT ABOUT WHAT THIS GRANT IS ABOUT? I
4 THINK IN A WAY THIS IS A SUMMER PROGRAM. THESE
5 COURSES ARE A FEW WEEKS IN THE SUMMER FOR HIGH
6 SCHOOL STUDENTS FROM SOCIALLY DISADVANTAGED
7 BACKGROUNDS PREDOMINANTLY. SO, YOU KNOW, WHEN
8 PEOPLE LOOK AT THIS, WHEN THEY'RE PUTTING THEIR
9 FRAME ON THIS, THINK ABOUT WHO THE TARGET IS. THESE
10 ARE HIGH SCHOOL KIDS. MOST OF THEM MAY NOT HAVE ANY
11 OPPORTUNITY. THIS MAY BE THEIR ONLY OPPORTUNITY TO
12 GET INTO A LAB, TO HAVE CONTACT WITH THIS TYPE OF
13 SCIENCE. AND I JUST -- I THINK -- THIS IS THE SAME
14 THING THAT HAPPENED AT THE GRANTS WORKING GROUP. WE
15 GOT CAUGHT UP ON THE SECONDARY DISCIPLINING.

16 THE POINT, I THINK, IS TO GIVE KIDS IN
17 CALIFORNIA AN OPPORTUNITY AT THAT LEVEL OF THEIR
18 LIFE TO EXPERIENCE SOMETHING OF THIS \$3 BILLION
19 ENTERPRISE THAT THE TAXPAYERS ARE PAYING FOR, TO
20 GIVE THOSE KIDS WHO MAY HAVE NO OTHER OPPORTUNITY TO
21 EXPERIENCE WHAT WE'RE DOING THE CHANCE TO GET INTO A
22 LAB TO SEE THE SCIENCE, TO LEARN THE SCIENCE, TO GET
23 ENGAGED, PERHAPS TO BECOME PART OF THIS ENTERPRISE.

24 CHAIRMAN THOMAS: SO DR. STEWARD.

25 DR. STEWARD: I'M JUST GOING TO SAY THIS

BARRISTERS' REPORTING SERVICE

1 AND I'M GOING TO ACTUALLY CALL FOR THE QUESTION.

2 I THINK GOING BACK TO THE ISSUE OF WHETHER
3 OR NOT IT'S A GOOD IDEA, IT'S TOO LATE. THAT'S WHAT
4 WAS IN THE RFA. I'LL JUST SAY THAT AS A PERSON WHO
5 ACTUALLY DOES THIS, I HAVE STUDENTS JUST LIKE THIS
6 IN MY LAB EVERY SUMMER. WE DON'T DO ANYTHING ELSE
7 BUT WORK IN THE LAB, AND THEY HAVE FUN. I THINK
8 THEY ENJOY IT. ENOUGH SAID. THE RFA IS WHAT IT IS,
9 AND I THINK WE'VE HAD PLENTY OF DISCUSSION, SO I'D
10 JUST LIKE TO CALL FOR THE QUESTION.

11 CHAIRMAN THOMAS: OKAY. IS THERE -- YES.
12 WE'RE GOING TO HAVE A VOTE BEFORE YOUR COMMENT, DR.
13 PRIETO. THIS IS JUST ABOUT THE ONE APPLICATION.

14 DR. PRIETO: I WANTED TO COMMENT ON
15 ANOTHER APPLICATION OR QUOTE SOMETHING FROM ANOTHER
16 APPLICATION THAT MIGHT ILLUSTRATE A POINT.

17 CHAIRMAN THOMAS: DR. STEWARD, IS THAT
18 OKAY?

19 MR. HARRISON: DR. PRIETO CAN'T
20 PARTICIPATE IN THIS DISCUSSION. SO I'D REQUEST HIM
21 TO RESERVE HIS COMMENT FOR AFTER THE VOTE.

22 CHAIRMAN THOMAS: WE'RE GOING TO HAVE A
23 VOTE. I WOULD JUST LIKE TO SAY BEFORE THE VOTE THAT
24 HAVING LISTENED TO THE CREATIVITY AWARD DISCUSSION
25 IN THE GRANTS WORKING GROUP, I VERY STRONGLY AGREE

BARRISTERS' REPORTING SERVICE

1 WITH THE SENTIMENT THAT WE NEED TO TRY TO DO
2 WHATEVER WE CAN TO GET KIDS INTERESTED IN THE FIELD.
3 AND THIS PROJECT, AS WELL AS THE OTHERS, ARE, IN MY
4 OPINION, MORE THAN CAPABLE OF ACHIEVING THAT GOAL
5 AND IS SOMETHING THAT WE SHOULD BE BEHIND. MOST, IF
6 NOT ALL OF THE SECONDARY DISCIPLINES COME AT A DE
7 MINIMIS COST. SO I DON'T THINK THAT'S A
8 PARTICULARLY LARGE ISSUE. AND I THINK THE
9 OVERARCHING GOAL OF GETTING KIDS INTERESTED GOING
10 FORWARD TRUMPS, IN MY OPINION, CONCERNS, THOUGH
11 THEY'RE VERY WELL FOUNDED BY THE SENATOR AND MR.
12 JUELSGAARD. SO WITH THAT, CAN WE TAKE A -- IS THIS
13 A VOICE OR ROLL CALL? ROLL CALL.

14 MS. BONNEVILLE: ROBERT PRICE.

15 DR. PRICE: YES.

16 MS. BONNEVILLE: DAVID BRENNER.

17 DR. BRENNER: YES.

18 MS. BONNEVILLE: JACOB LEVIN.

19 DR. LEVIN: YES.

20 MS. BONNEVILLE: MICHAEL FRIEDMAN. LEEZA

21 GIBBONS. MICHAEL GOLDBERG. SAM HAWGOOD.

22 DR. HAWGOOD: YES.

23 MS. BONNEVILLE: STEPHEN JUELSGAARD.

24 DR. JUELSGAARD: YES.

25 MS. BONNEVILLE: TED LOVE. BERT LUBIN.

BARRISTERS' REPORTING SERVICE

1 DR. LUBIN: YES.
2 MS. BONNEVILLE: SHLOMO MELMED.
3 DR. MELMED: YES.
4 MS. BONNEVILLE: PHIL PIZZO.
5 DR. PIZZO: YES.
6 MS. BONNEVILLE: ELIZABETH FINI.
7 DR. FINI: YES.
8 MS. BONNEVILLE: ROBERT QUINT. DUANE
9 ROTH.
10 MR. ROTH: NO.
11 MS. BONNEVILLE: JOAN SAMUELSON.
12 MS. SAMUELSON: YES.
13 MS. BONNEVILLE: DAVID SERRANO-SEWELL.
14 MR. SERRANO-SEWELL: YES.
15 MS. BONNEVILLE: JEFF SHEEHY.
16 MR. SHEEHY: YES.
17 MS. BONNEVILLE: JONATHAN SHESTACK.
18 MR. SHESTACK: YES.
19 MS. BONNEVILLE: OSWALD STEWARD.
20 DR. STEWARD: YES.
21 MS. BONNEVILLE: JONATHAN THOMAS.
22 CHAIRMAN THOMAS: YES.
23 MS. BONNEVILLE: ART TORRES.
24 MR. TORRES: NO.
25 MS. BONNEVILLE: KRISTINA VUORI. EUGENE

BARRISTERS' REPORTING SERVICE

1 WASHINGTON.

2 CHAIRMAN THOMAS: MOTION PASSES. ON
3 ANOTHER APPLICATION YOU HAD A QUESTION, DR. PRIETO,
4 OR IS IT ONLY AS PERTAINED TO THE LAST?

5 DR. PRIETO: WELL, IT'S PERHAPS MOOT AT
6 THIS POINT. I JUST WANTED TO QUOTE FROM THE SUMMARY
7 ON ONE OF THE OTHER HIGHLY RATED PROGRAMS AND THE
8 RESPONSIVENESS TO THE RFA.

9 MS. SAMUELSON: COULD WE GET THE NUMBER?

10 DR. PRIETO: 5868. REVIEWERS EXPRESSED
11 CONCERN THAT THE PROGRAM DOES NOT SUFFICIENTLY --
12 I'M SORRY. WAIT A MINUTE. MAKE SURE I'M ON THE
13 RIGHT ONE.

14 BASICALLY THE CRITICISM WAS THAT ALTHOUGH
15 THIS WAS VERY HIGHLY RATED, THAT THE SECONDARY
16 DISCIPLINE WAS VERY MINIMALLY DESCRIBED. SO I
17 THOUGHT IN SPITE -- THEY MAY HAVE BENEFITED FROM THE
18 FACT THAT THEY JUST DIDN'T TALK ABOUT IT VERY MUCH.

19 CHAIRMAN THOMAS: THANK YOU, DR. PRIETO.

20 SO ANY OTHER DISCUSSION ON ANY OTHER
21 APPLICATIONS? HEARING NONE, I WOULD ENTERTAIN A
22 MOTION THAT, AS WE HAVE NOW MOVED THAT LAST
23 DISCUSSED ITEM UP INTO TIER 1, WE ENTERTAIN A MOTION
24 TO APPROVE THE ENTIRE GROUP OF ITEMS, AND THAT HAS
25 TO BE MADE BY SOMEBODY WHO DOESN'T HAVE A CONFLICT

BARRISTERS' REPORTING SERVICE

1 WITH ANY; IS THAT CORRECT, MR. HARRISON?

2 MR. HARRISON: THAT'S CORRECT.

3 DR. LEVIN: I'LL MAKE IT.

4 CHAIRMAN THOMAS: DR. LEVIN, YOU ARE
5 MAKING THE MOTION?

6 DR. VESSAL: MR. CHAIRMAN, I JUST WANT TO
7 POINT OUT THAT THE BUDGET IS NOW UPDATED TO
8 \$1,747,020.

9 CHAIRMAN THOMAS: THANK YOU. MOVED BY DR.
10 LEVIN, SECONDED BY MR. SHESTACK. IS THERE
11 DISCUSSION ON THE PACKAGE AS A WHOLE?

12 MS. FEIT: WHICH GRANT NUMBER?

13 CHAIRMAN THOMAS: THIS IS ON -- THE
14 DISCUSSION NOW IS WE HAVE MOVED THE ITEM DISCUSSED A
15 MOMENT AGO UP INTO TIER 1, AND WE NOW HAVE NINE
16 RECOMMENDED AWARDS. THE MOTION REFERS TO ALL NINE.

17 MS. FEIT: OKAY.

18 CHAIRMAN THOMAS: DO YOU HAVE A QUESTION,
19 OR DOES THAT ANSWER YOUR QUESTION?

20 MS. FEIT: THAT ANSWERS MY QUESTION.

21 CHAIRMAN THOMAS: THANK YOU. DISCUSSION
22 BY THE BOARD? HEARING NONE, PUBLIC COMMENT.

23 MS. SAMUELSON: CAN I GET A POINT OF
24 CLARIFICATION? IT APPEARS THAT 5868 WAS APPROVED,
25 RECOMMENDED FOR APPROVAL. SO IT WASN'T IN A LOWER

BARRISTERS' REPORTING SERVICE

1 TIER TO BE MOVED UP.

2 CHAIRMAN THOMAS: DR. PRIETO RECOGNIZED IT
3 HAD BEEN MOVED FOR APPROVAL. HE WAS JUST NOTING A
4 FEATURE OF THE APPLICANT REVIEW.

5 ANY OTHER QUESTIONS? NO COMMENTS BY
6 MEMBERS OF THE PUBLIC. MR. HARRISON.

7 MR. HARRISON: JUST A REMINDER TO MEMBERS,
8 TO THE EXTENT THAT YOU HAVE AN INTEREST IN A
9 APPLICATION THAT'S SUBJECT TO THIS MOTION, PLEASE
10 VOTE YES OR NO OR ABSTAIN EXCEPT WITH RESPECT TO
11 THOSE APPLICATIONS IN WHICH YOU HAVE AN INTEREST.

12 CHAIRMAN THOMAS: MARIA, PLEASE CALL THE
13 ROLL ON THIS MOTION.

14 MS. BONNEVILLE: ROBERT PRICE.

15 DR. PRICE: YES, EXCEPT FOR THOSE WITH
16 WHICH I HAVE A CONFLICT.

17 MS. BONNEVILLE: DAVID BRENNER.

18 DR. BRENNER: YES, EXCEPT FOR THOSE WITH
19 WHICH I HAVE A CONFLICT.

20 MS. BONNEVILLE: JACOB LEVIN.

21 DR. LEVIN: YES.

22 MS. BONNEVILLE: MARCY FEIT.

23 MS. FEIT: YES, EXCEPT FOR THOSE WITH
24 WHICH I HAVE A CONFLICT.

25 MS. BONNEVILLE: MICHAEL FRIEDMAN. LEEZA

BARRISTERS' REPORTING SERVICE

1 GIBBONS. MICHAEL GOLDBERG. SAM HAWGOOD.

2 DR. HAWGOOD: YES, EXCEPT FOR THOSE WITH
3 WHICH I HAVE A CONFLICT.

4 MS. BONNEVILLE: STEPHEN JUELSGAARD.

5 DR. JUELSGAARD: YES.

6 MS. BONNEVILLE: SHERRY LANSING. TED
7 LOVE. BERT LUBIN.

8 DR. LUBIN: YES, EXCEPT FOR THOSE WITH
9 WHICH I HAVE A CONFLICT.

10 MS. BONNEVILLE: SHLOMO MELMED. PHIL
11 PIZZO.

12 DR. PIZZO: YES, EXCEPT FOR THOSE WITH
13 WHICH I HAVE A CONFLICT.

14 MS. BONNEVILLE: CLAIRE POMEROY.

15 DR. POMEROY: YES, EXCEPT FOR THOSE WITH
16 WHICH I HAVE A CONFLICT.

17 MS. BONNEVILLE: FRANCISCO PRIETO.

18 DR. PRIETO: YES, EXCEPT FOR THOSE WITH
19 WHICH I HAVE A CONFLICT.

20 MS. BONNEVILLE: ELIZABETH FINI.

21 DR. FINI: YES, EXCEPT FOR THOSE WITH
22 WHICH I HAVE A CONFLICT.

23 MS. BONNEVILLE: ROBERT QUINT. DUANE
24 ROTH.

25 MR. ROTH: YES.

BARRISTERS' REPORTING SERVICE

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MS. BONNEVILLE: JOAN SAMUELSON.
MS. SAMUELSON: YES.
MS. BONNEVILLE: DAVID SERRANO-SEWELL.
MR. SERRANO-SEWELL: YES.
MS. BONNEVILLE: JEFF SHEEHY.
MR. SHEEHY: YES, EXCEPT FOR THOSE WITH
WHICH I HAVE A CONFLICT.
MS. BONNEVILLE: JONATHAN SHESTACK.
MR. SHESTACK: YES.
MS. BONNEVILLE: OSWALD STEWARD.
DR. STEWARD: YES.
MS. BONNEVILLE: JONATHAN THOMAS.
CHAIRMAN THOMAS: YES.
MS. BONNEVILLE: ART TORRES.
MR. TORRES: AYE.
MS. BONNEVILLE: KRISTINA VUORI. EUGENE
WASHINGTON.
CHAIRMAN THOMAS: THANK YOU. MOTION
CARRIES.
WE'RE GOING TO TAKE OUT OF ORDER, JUST TO
MAKE SURE WE GET A VOTE, THE MOST IMPORTANT PASSAGE
OF THE MINUTES FROM THE JANUARY BOARD MEETING. IT
APPEARS ON YOUR AGENDA AS ITEM NO. 14. DO I HAVE A
MOTION TO APPROVE?
MR. TORRES: SO MOVED.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: IS THERE A SECOND?

2 MR. JUELSGAARD: SECOND.

3 CHAIRMAN THOMAS: MOVED BY MR. ROTH,
4 SECONDED BY MR. JUELSGAARD. ALL THOSE IN FAVOR
5 PLEASE SAY AYE. OPPOSED? ABSTENTIONS? MOTION
6 PASSED.

7 OKAY. NOW WE GET TO THE FIRST OF A NUMBER
8 OF VERY IMPORTANT PRESENTATIONS ON DIFFERENT ITEMS.
9 ITEM NO. 9 IS GOING TO BE A DISCUSSION OF THE
10 STRATEGIC PLAN. AND PART AND PARCEL OF THAT, WHICH
11 WILL BE LED BY DR. FEIGAL, WILL BE A DISCUSSION OF
12 THE ALLOCATION AND PRIORITIZATION OF FUNDING, WHICH
13 WILL BE LED BY DR. OLSON.

14 MS. BONNEVILLE: WE NEED TO POLL THE
15 MEMBERS ON THE PHONE TO APPROVE THE MINUTES.

16 CHAIRMAN THOMAS: GOOD POINT. SORRY.
17 SORRY ABOUT THAT PHIL, MARCY, AND MICHAEL.

18 MS. BONNEVILLE: PHIL PIZZO.

19 DR. PIZZO: YES. I WAS WONDERING.

20 MS. BONNEVILLE: MARCY FEIT.

21 MS. FEIT: YES.

22 MS. BONNEVILLE: MICHAEL FRIEDMAN.

23 CHAIRMAN THOMAS: THANK YOU, LADY AND
24 GENTLEMAN.

25 MR. SHEEHY: SHOULD WE HAVE A BRIEF BREAK

BARRISTERS' REPORTING SERVICE

1 BEFORE WE DIVE INTO THIS NEXT ONE, OR DO YOU WANT TO
2 GO ALL THE WAY THROUGH BECAUSE I'M NOTICING PEOPLE.

3 CHAIRMAN THOMAS: FIVE MINUTES.
4 FIVE-MINUTE BREAK. PLEASE BE BACK BECAUSE WE WANT
5 TO GET AS MUCH AS POSSIBLE STAYING ON SCHEDULE.
6 THANK YOU.

7 (A RECESS WAS TAKEN.)

8 CHAIRMAN THOMAS: IF EVERYBODY WILL TAKE
9 THEIR SEATS SO WE CAN RESUME HERE. THE MIKES ARE
10 BACK ON. SOMEBODY JUST CHECK TO SEE IF ANY BOARD
11 MEMBERS ARE OUT IN THE HALL AND PLEASE ASK THEM TO
12 COME BACK TO THEIR SEATS.

13 I'M REMINDED BY MR. HARRISON THAT WE WERE
14 REMISS IN CLOSING OUT THE CREATIVITY AWARDS. WE DO
15 NEED A BOARD VOTE TO NOT FUND THE TIER 3 PROJECTS.
16 SO IF WE COULD PERHAPS HAVE A MOTION AND SECOND BY
17 THE SAME PARTIES WHO MOTIONED ORIGINALLY.

18 DR. LEVIN: I'LL PUT FORTH THAT MOTION.

19 CHAIRMAN THOMAS: I GUESS THE MOTION WAS
20 BY MR. SHESTACK -- SECOND WAS BY MR. SHESTACK. IS
21 THERE SOMEBODY ELSE WHO'D LIKE TO SECOND THAT
22 MOTION --

23 DR. STEWARD: SECOND.

24 CHAIRMAN THOMAS: -- WHO'S NOT CONFLICTED?
25 SECONDED BY DR. STEWARD.

BARRISTERS' REPORTING SERVICE

1 SO, AGAIN, PLEASE CONSULT YOUR LIST OF
2 CONFLICTS. THERE ARE ONLY THREE AWARDS AFFECTED BY
3 THIS. MOST OF YOU WILL NOT BE CONFLICTED AND
4 THEREFORE DON'T NEED TO HAVE THE CAVEAT LANGUAGE
5 ADDED TO YOUR VOTE. WITH THAT, MARIA, WILL YOU
6 PLEASE CALL THE ROLL.

7 MS. BONNEVILLE: ROBERT PRICE.

8 DR. PRICE: YES.

9 MS. BONNEVILLE: DAVID BRENNER.

10 DR. BRENNER: YES.

11 MS. BONNEVILLE: JACOB LEVIN.

12 DR. LEVIN: YES.

13 MS. BONNEVILLE: MARCY FEIT. MICHAEL
14 FRIEDMAN. LEEZA GIBBONS. MICHAEL GOLDBERG. SAM
15 HAWGOOD.

16 DR. HAWGOOD: YES.

17 MS. BONNEVILLE: STEPHEN JUELSGAARD.

18 SHERRY LANSING. TED LOVE. BERT LUBIN.

19 DR. LUBIN: YES.

20 MS. BONNEVILLE: SHLOMO MELMED.

21 DR. MELMED: YES.

22 MS. BONNEVILLE: PHIL PIZZO.

23 DR. PIZZO: YES.

24 CHAIRMAN THOMAS: MR. HARRISON IS WAVING
25 HIS HAND FRANTICALLY. NEVER A GOOD SIGN.

BARRISTERS' REPORTING SERVICE

1 MR. HARRISON: FOR THE RECORD, I THINK DR.
2 MELMED IS YES, EXCEPT FOR THOSE WITH WHICH YOU HAVE
3 A CONFLICT.

4 DR. MELMED: CORRECT. YES, EXCEPT FOR
5 THOSE WITH WHICH I HAVE A CONFLICT.

6 CHAIRMAN THOMAS: THAT'S EXACTLY WHAT HE
7 MEANT, YES.

8 MS. BONNEVILLE: CLAIRE POMEROY.

9 DR. POMEROY: YES.

10 MS. BONNEVILLE: FRANCISCO PRIETO.

11 DR. PRIETO: YES.

12 MS. BONNEVILLE: ELIZABETH FINI.

13 DR. FINI: YES.

14 MS. BONNEVILLE: ROBERT QUINT. DUANE
15 ROTH.

16 MR. ROTH: YES.

17 MS. BONNEVILLE: JOAN SAMUELSON. DAVID
18 SERRANO-SEWELL.

19 MR. SERRANO-SEWELL: YES.

20 MS. BONNEVILLE: JEFF SHEEHY.

21 MR. SHEEHY: YES.

22 MS. BONNEVILLE: JONATHAN SHESTACK.
23 OSWALD STEWARD.

24 DR. STEWARD: YES.

25 MS. BONNEVILLE: JONATHAN THOMAS.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: YES.

2 MS. BONNEVILLE: ART TORRES.

3 MR. TORRES: AYE.

4 MS. BONNEVILLE: KRISTINA VUORI. EUGENE
5 WASHINGTON.

6 CHAIRMAN THOMAS: THANK YOU. MR.
7 HARRISON.

8 MR. HARRISON: ANOTHER CORRECTION FOR THE
9 RECORD. FOR DR. FINI, THAT WAS YES, EXCEPT FOR
10 THOSE WITH WHICH YOU HAVE A CONFLICT.

11 DR. FINI: YES, EXCEPT FOR THOSE WITH
12 WHICH I HAVE CONFLICTS.

13 CHAIRMAN THOMAS: THANK YOU, MR. HARRISON,
14 FOR CONTINUING TO KEEP US IN LINE HERE ON ALL
15 MATTERS.

16 WE'RE GOING TO, BEFORE WE GET TO DR.
17 FEIGAL, JUST VERY BRIEFLY, DR. KNOEPFLER IS HERE
18 FROM UC DAVIS WOULD LIKE TO MAKE A PUBLIC COMMENT.

19 DR. KNOEPFLER: HELLO, EVERYONE. I'M DR.
20 KNOEPFLER. I'M AN ASSOCIATE PROFESSOR HERE AT UC
21 DAVIS AT THE MED CENTER HERE IN SACRAMENTO, AND I'M
22 A RECIPIENT OF A NEW FACULTY AWARD. AND I JUST
23 WANTED TO INTRODUCE MYSELF BECAUSE I HAVEN'T MET
24 MOST OF YOU, AND I'M A LITTLE BIT INCOGNITO TO A
25 FUND-RAISER WHERE YOU SHAVE YOUR HEAD TO RAISE MONEY

BARRISTERS' REPORTING SERVICE

1 FOR ST. BALDRICK'S FOUNDATION. SO EVEN THOSE OF YOU
2 WHO KNOW ME MAY NOT RECOGNIZE ME.

3 I JUST WANTED TO THANK YOU FOR THE SUPPORT
4 THAT I'VE RECEIVED FROM CIRM AND GIVE YOU JUST A
5 LITTLE BIT OF SOME OF THE OUTCOMES. BASED ON THE
6 CIRM FUNDING, I'VE BEEN ABLE TO OBTAIN AN RO1 FROM
7 NIH THAT IS ON A RELATED TOPIC TO MY CIRM NEW
8 FACULTY GRANT. I'VE ALSO RECEIVED OTHER FUNDING
9 THAT'S RELATED TO THE CIRM RESEARCH AS WELL.

10 MY LAB HAS ABOUT HALF A DOZEN PUBLICATIONS
11 SO FAR IN JUST ABOUT THREE YEARS THAT ARE DIRECTLY
12 RELATED TO THE CIRM FUNDING. THERE ARE ALSO A
13 NUMBER OF TRAINEES IN MY LAB GETTING TRAINING
14 BECAUSE OF CIRM FUNDING. SO I THINK THESE ARE
15 WONDERFUL OUTCOMES.

16 I ALSO WANTED TO POINT OUT THAT I'M A
17 LITTLE BIT OF AN UNUSUAL SCIENTIST IN THAT I'M ALSO
18 A PATIENT ADVOCATE. I'M A CANCER SURVIVOR. I HAD
19 PROSTATE CANCER AT AGE 42, TWO YEARS AGO. SO I
20 REALLY FEEL I CAN SEE THINGS FROM BOTH THE LAB SIDE
21 AND ALSO THE PATIENT SIDE, AND THIS REALLY MAKES ME
22 VERY PASSIONATE ABOUT THE WORK THAT WE DO.

23 JUST A NOTE ON THAT, WE WORK ON BASIC
24 MECHANISMS OF PLURIPOTENCY AND HOW THOSE RELATE TO
25 THE TUMORGENICITY, THE TERATOMA FORMING ACTIVITY, OF

BARRISTERS' REPORTING SERVICE

1 STEM CELLS. I ALSO RUN A BLOG THAT SOME OF YOU
2 MIGHT BE AWARE OF CALLED IPSCELL.COM. AND TO MY
3 KNOWLEDGE, THIS IS THE ONLY FACULTY LEVEL BLOG IN
4 THE WORLD THAT IS ON STEM CELLS. AND I'M VERY MUCH
5 A CIRM SUPPORTER, AND OFTENTIMES POSITIVE HEADLINES
6 ABOUT CIRM ARE THINGS THAT I WRITE ABOUT OR EVEN
7 START THE BALL ROLLING ON THOSE.

8 SO I JUST WANTED TO TAKE A FEW MINUTES TO
9 INTRODUCE MYSELF AND TELL YOU A LITTLE BIT ABOUT
10 WHAT I'M DOING. AND, AGAIN, THANK YOU VERY MUCH.

11 (APPLAUSE.)

12 DR. POMEROY: THANK YOU, PAUL. AND I JUST
13 WANT TO SAY THAT DR. KNOEPFLER IS ONE OF OUR UC
14 DAVIS STEM CELL SUPER STARS AND POINT OUT TO MY
15 FELLOW BOARD MEMBERS THAT RETAINING DR. KNOEPFLER AT
16 UC DAVIS HAS BEEN VERY MUCH ENHANCED BY THE
17 OPPORTUNITY TO APPLY FOR THE CIRM FUNDING AND TO
18 BUILD ON THAT CIRM FUNDING TO GET ADDITIONAL GRANTS.
19 AND SO I THINK HE'S AN EXAMPLE OF THE BRAIN POWER
20 THAT HAS BEEN KEPT IN CALIFORNIA BECAUSE OF THIS
21 INITIATIVE. AND WE'RE VERY GRATEFUL TO HAVE HIM.

22 MR. TORRES: HERE. HERE.

23 MR. HARRISON: CHAIR, WE NEED TO CLOSE OUT
24 THE VOTE ON THE MOTION NOT TO FUND THE APPLICATIONS
25 IN TIER 3 OF THE CREATIVITY AWARDS BECAUSE THERE

BARRISTERS' REPORTING SERVICE

1 WERE SEVERAL MEMBERS WHO WERE OUT OF THE ROOM WHEN
2 THE VOTE WAS TAKEN. SO IF WE COULD JUST FOLLOW UP
3 WITH THOSE MEMBERS.

4 MEMBER FEIT. MEMBER JUELSGAARD.

5 DR. JUELSGAARD: NOT TO FUND?

6 MR. HARRISON: YES.

7 DR. JUELSGAARD: YES.

8 MR. HARRISON: MEMBER SERRANO-SEWELL.

9 MR. SERRANO-SEWELL: I VOTED YES.

10 MR. HARRISON: MEMBER SHEEHY.

11 MR. SHEEHY: I VOTED YES.

12 MR. HARRISON: MEMBER SAMUELSON.

13 MS. SAMUELSON: YES.

14 CHAIRMAN THOMAS: THAT MOTION IS
15 OFFICIALLY PUT TO BED.

16 DR. KNOEPFLER, THANK YOU VERY MUCH FOR
17 YOUR COMMENTS. AND THANK YOU VERY MUCH FOR YOUR
18 BLOG. IT'S NICE TO SEE POSITIVE NEWS REFLECTED IN
19 YOUR REPORTING, AND WE VERY MUCH APPRECIATE IT.

20 OKAY. SO BACK NOW TO THE STRATEGIC PLAN
21 DISCUSSION. DR. FEIGAL.

22 DR. FEIGAL: WELL, THANKS VERY MUCH FOR
23 THE OPPORTUNITY TO GIVE YOU AN UPDATE ON THE 2012
24 REVISION OF CIRM'S STRATEGIC PLAN. YOU'VE SEEN THIS
25 PLAN, DRAFTS OF IT, SEVERAL TIMES BEFORE AT THE

BARRISTERS' REPORTING SERVICE

1 BOARD MEETINGS. WHAT I'D LIKE TO DO OVER THE NEXT
2 APPROXIMATELY 15, 20 MINUTES IS REMIND YOU OF WHERE
3 WE'VE BEEN WITH YOU IN TERMS OF SOME OF THE ELEMENTS
4 OF THE STRATEGIC PLAN AND ALSO FOR TODAY FOCUS
5 PRIMARILY ON THE ONE- AND FIVE-YEAR GOALS FOR THE
6 STRATEGIC PLAN.

7 SO JUST TO REMIND YOU, WE HAVE TALKED
8 ABOUT THE 2012 STRATEGIC PLAN ELEMENTS. WE HAVE
9 REVIEWED WITH YOU THE STAKEHOLDER INPUT. AS IN
10 PRIOR YEARS, WE WENT OUT TO SEEK INPUT ON OUR
11 STRATEGIC PLAN FROM PATIENTS, PATIENT ADVOCACY
12 ORGANIZATIONS, MEMBERS OF INDUSTRY, OTHER MEMBERS OF
13 THE PUBLIC SO THAT WE CAN CONSIDER THEM AS WE REVISE
14 AND EMBED THESE ISSUES IN THE REVISED PLAN.

15 THE OUTPUT INCLUDED THOSE OR THE INPUT
16 INCLUDED THOSE FROM PUBLIC MEETINGS, ICOC MEETINGS,
17 INDUSTRY MEETINGS, AND OTHER STAKEHOLDER
18 DISCUSSIONS. AT THE LAST ICOC IN JANUARY, WE
19 DISCUSSED OUR STRATEGIES TO ACHIEVE OUR STRATEGIC
20 OBJECTIVES. AS I MENTIONED, TODAY WE'RE GOING TO
21 FOCUS ON THE ONE- AND FIVE-YEAR GOALS, THE ALIGNMENT
22 OF THESE GOALS WITH OUR 2012 STRATEGIC PLAN, AND
23 ALSO TO CONSIDER THE PREREAD THAT YOU ALREADY
24 RECEIVED A COUPLE OF WEEKS AGO, AS WELL AS THE
25 PRESENTATION TODAY AS REFERENCE FOR THE SUBSEQUENT

BARRISTERS' REPORTING SERVICE

1 DISCUSSION ON FUNDING PRIORITIES AND STRATEGIES,
2 WHICH PAT OLSON IS GOING TO TALK ABOUT. SO CONSIDER
3 THIS TALKING ABOUT THE GOALS, BUT ALSO TEEING IT UP
4 FOR THE SUBSEQUENT DISCUSSION ON FUNDING PRIORITIES
5 AND STRATEGIES.

6 JUST TO REMIND YOU OF WHERE WE'VE BEEN,
7 THE STRATEGIC PLAN INITIALLY WRITTEN IN 2006,
8 UPDATED IN 2009-2010 IN PREPARATION FOR THE EXTERNAL
9 REVIEW PANEL. THE EXTERNAL REVIEW TOOK PLACE IN
10 OCTOBER OF 2010, AND THEY PROVIDED A SERIES OF
11 RECOMMENDATIONS. SO WE'RE UPDATING THE STRATEGIC
12 PLAN IN 2012 TO REFLECT THE RECOMMENDATIONS FROM THE
13 EXTERNAL REVIEW PANEL TO REFLECT SHIFTS IN THE FIELD
14 AND TO REFLECT STAKEHOLDER INPUT THAT WE'VE GOTTEN
15 SINCE WE STARTED THIS PROCESS BACK IN AUGUST OF
16 2011. AND IT'S GOING TO CONTINUE THROUGH BOARD
17 CONSIDERATION IN MAY, IN A COUPLE MONTHS, 2012.

18 DISCUSSIONS TO DATE HAVE INCLUDED A CIRM
19 SENIOR STAFF RETREAT IN AUGUST, A SCIENCE TEAM
20 DISCUSSION BACK IN AUGUST OF LAST YEAR. YOU
21 RECEIVED UPDATES IN AUGUST, OCTOBER, DECEMBER, AND
22 JANUARY. THERE WERE DISCUSSIONS WITH THE STEM CELL
23 RESEARCH LEADERSHIP IN SEPTEMBER; AND BETWEEN
24 SEPTEMBER AND DECEMBER, WE'VE HAVE HELD MULTIPLE
25 STAKEHOLDER DISCUSSIONS WITH INDUSTRY, PATIENT

BARRISTERS' REPORTING SERVICE

1 ADVOCATES, COLLABORATIVE FUNDING PARTNERS, CLINICAL
2 DEVELOPMENT ADVISORS, PROFESSIONAL SOCIETIES, AND
3 THE ALLIANCE FOR REGENERATIVE MEDICINE.

4 IN ADDITION, WE'VE BEEN PROVIDING VERSIONS
5 OF THE STRATEGIC PLAN TO OUR INSTITUTE OF MEDICINE
6 REVIEW PANEL SO THAT THEY CAN SEE WHERE WE'RE
7 THINKING AND WHERE WE'RE HEADED IN THE NEXT FIVE
8 YEARS.

9 THE APPROACH HAS BEEN THREE-PRONGED:
10 DEFINING THE STRATEGIC PLAN, SEEKING INPUT, AND THEN
11 TODAY WHAT WE'RE GOING TO FOCUS ON IS THAT DRAFT OF
12 THE ONE- AND FIVE-YEAR GOALS.

13 REMINDING YOU OF OUR MISSION IS TO SUPPORT
14 ADVANCED STEM CELL RESEARCH AND REGENERATIVE
15 MEDICINE WITH THE GOAL OF REALLY APPLYING THOSE TO
16 THE DISCOVERY AND DEVELOPMENT OF CURES, THERAPIES,
17 DIAGNOSTICS, AND RESEARCH TECHNOLOGIES TO RELIEVE
18 HUMAN SUFFERING FROM CHRONIC DISEASE AND INJURY. AS
19 YOU RECALL, THE LAST FIVE YEARS WERE EXPLORATORY,
20 FUNDING PROJECTS, SEEDING THE FIELD, BRINGING IN
21 RESEARCH LEADERS LIKE DR. KNOEPFLER, ESTABLISHING
22 THE FOUNDATION FOR LEADERSHIP IN STEM CELL RESEARCH.

23 THESE NEXT FIVE YEARS ARE REALLY ABOUT
24 PRIORITIZATION OF OUR PROJECTS AND OUR INVESTMENTS,
25 ADVANCING THE SCIENCE INTO CLINICAL TRIALS FOR

BARRISTERS' REPORTING SERVICE

1 PATIENTS TO GENERATE THAT PRELIMINARY EVIDENCE OF
2 THERAPEUTIC BENEFIT, AND DEVELOPING PARTNERSHIPS
3 BETWEEN ACADEMIA, WITH INDUSTRY, WITH PATIENT
4 GROUPS, AND ALSO INTERNATIONALLY, GEOGRAPHICALLY AS
5 WELL AS WITH DIFFERENT DISCIPLINES SO THAT BY 2016
6 WE'LL BE ABLE TO FACILITATE COMMERCIALIZATION OF
7 THERAPIES, ADVANCE THESE THERAPIES TO PATIENTS, AND
8 ALSO HAVE HELPED ENABLE A BUSINESS MODEL FOR STEM
9 CELL-BASED THERAPIES.

10 OUR STAKEHOLDER INPUT WAS DONE PRIMARILY
11 TO OBTAIN PERSPECTIVES ON HOW WELL WE'RE DOING,
12 WHETHER THE PROPOSED REVISIONS ARE APPROPRIATE, AND
13 ALSO TO IDENTIFY ADDITIONAL AREAS OR ACTIVITIES FOR
14 CIRM TO CONSIDER IN MOVING FORWARD. WE DID CHANGE
15 THE STRATEGIC OBJECTIVES FROM 2009 TO 2010 TO
16 CONSOLIDATE THEM INTO FOUR: SCIENTIFIC, CLINICAL,
17 ECONOMIC, AND COMMUNITY.

18 THESE ARE JUST THE PICTOGRAPHS, I GUESS,
19 OF THE DIFFERENT PUBLIC DISCUSSIONS THAT TOOK PLACE
20 WITH DIFFERENT MEMBERS OF THE PUBLIC.

21 AND THE KEY THEMES FROM ALL OF OUR
22 DISCUSSIONS HAVE BEEN, NO. 1, THAT CIRM HAS
23 ESTABLISHED MOMENTUM, THAT WE HAVE MADE GREAT
24 INITIAL PROGRESS IN ESTABLISHING AN EXTENSIVE
25 PROGRAM IN SUPPORT OF STEM CELL RESEARCH AND THE

BARRISTERS' REPORTING SERVICE

1 ADVANCEMENT OF SCIENCE.

2 TWO, SUSTAINABILITY, THAT CIRM NEEDS TO BE
3 MORE AGGRESSIVE IN FINDING ALTERNATIVE FUNDING
4 RESOURCES AND TO IMPLEMENT GREATER CREATIVITY IN
5 IDENTIFYING THE TYPES OF ORGANIZATIONS THAT MAY BE
6 ABLE TO CONTRIBUTE TO THE SUSTAINABILITY OF OUR
7 WORK.

8 THREE, COMMUNICATION AND PUBLIC AWARENESS.
9 YOU JUST HEARD WE ADDED A POSITION ON APRIL 2D WITH
10 A NEW SENIOR DIRECTOR OF PUBLIC COMMUNICATION AND
11 PATIENT ADVOCATE OUTREACH, BUT THIS IS IN THE
12 STRATEGY TO REALLY HAVE MORE ROBUST PUBLIC AFFAIRS
13 TACTICS AND THAT WE NEED TO BETTER COMMUNICATE OUR
14 ORGANIZATIONAL INITIATIVES, AS WELL AS EDUCATE THE
15 PUBLIC MORE BROADLY.

16 FOURTH, GLOBAL NETWORKING. THAT WE NEED
17 TO PROVIDE GREATER OPPORTUNITIES FOR NETWORKING AND
18 BREED COLLABORATIVE PROJECTS THAT UNITE ACADEMIA AND
19 INDUSTRY AS WELL AS RESEARCHERS ACROSS GEOGRAPHIC
20 REGIONS.

21 AND FIFTH, PROCESS OPTIMIZATION. THAT WE
22 NEED TO HAVE GREATER TRANSPARENCY IN OUR FUNDING
23 PROCESS, AND THAT THERE'S A GREAT NEED FOR THE
24 PROCESS TO BE LESS BUREAUCRATIC AND EASIER TO
25 NAVIGATE.

BARRISTERS' REPORTING SERVICE

1 I'M NOT GOING TO GO THROUGH ALL THIS, BUT
2 I'M JUST REMINDING YOU THAT WE'VE DISCUSSED ALL
3 THESE DIFFERENT ISSUES. YOU'VE SEEN IT IN OTHER
4 PREREADS THAT YOU'VE BEEN PROVIDED. AND IT JUST
5 SUMMARIZES THE PUBLIC, THE BOARD, AND THE INDUSTRY
6 INPUTS.

7 IN ADDITION, WE RECEIVED STAKEHOLDER INPUT
8 FROM INDUSTRY, FROM OUR COLLABORATIVE FUNDING
9 PARTNERS, FROM PATIENT ADVOCATE ORGANIZATIONS, FROM
10 CLINICAL DEVELOPMENT ADVISORS, FROM PROFESSIONAL
11 SOCIETIES, AND ALSO FROM ASSOCIATIONS THAT ACTUALLY
12 WORK ON POLICY AND LEGISLATIVE ISSUES. SO THAT'S
13 JUST REMINDING YOU OF EVERYTHING THAT WE'VE TALKED
14 ABOUT TO DATE.

15 SO WHAT WE'RE GOING TO TALK ABOUT RIGHT
16 NOW, THEN, IS HOW DO OUR ONE- AND FIVE-YEAR GOALS
17 FIT OR ALIGN WITH OUR REVISED STRATEGIC OBJECTIVES
18 FOR THE NEXT FIVE YEARS AND OUR SINGLEMOST IMPORTANT
19 KEY OUTCOMES. SO JUST TO REMIND YOU, IN SCIENTIFIC
20 IT WAS TO ACCELERATE THE UNDERSTANDING OF STEM CELL
21 SCIENCE AND ITS APPLICATIONS TOWARDS HUMAN DISEASES
22 AND INJURY WITH THE SINGLEMOST IMPORTANT KEY OUTCOME
23 BEING TO ACHIEVE TRANSFORMATIVE RESEARCH
24 DISCOVERIES.

25 THE SECOND STRATEGIC OBJECTIVE, AND

BARRISTERS' REPORTING SERVICE

1 THEY'RE NOT IN ANY PREFERENCE ORDER, IS CLINICAL,
2 AND THAT'S TO ADVANCE SCIENCE INTO CLINICAL TRIALS
3 TO ACHIEVE EVIDENCE OF THERAPEUTIC BENEFIT TO
4 PATIENTS WITH THE SINGLEMOST IMPORTANT KEY OUTCOME
5 BEING TO ACHIEVE CLINICAL PROOF OF CONCEPT FOR STEM
6 CELL THERAPIES. AND THESE ARE IN THE NEXT FIVE
7 YEARS, NOT THIS YEAR, BUT IN THE NEXT FIVE.

8 ECONOMIC IS TO DRIVE ECONOMIC DEVELOPMENT
9 FOR CALIFORNIA FROM STEM CELL SCIENCE AND THERAPIES
10 WITH THE KEY OUTCOME ECONOMICALLY BEING TO LEVERAGE
11 CIRM'S INVESTMENT IN CALIFORNIA. YOU HEARD A LITTLE
12 BIT ABOUT THE FOLLOW-ON FUNDING TODAY IN THE
13 PRESIDENT'S REPORT WITH THE SURVEY THAT WAS DONE
14 WITH GRANTEES IN TERMS OF THE 300 OR SO MILLION THAT
15 WAS LEVERAGED UTILIZING CIRM FUNDS. YOU ALSO HAVE
16 SEEN OTHER PAPERS OUT THERE ABOUT ECONOMIC IMPACT,
17 AND THOSE WILL CONTINUE TO BE UPDATED.

18 AND THEN IN TERMS OF COMMUNITY, THE
19 STRATEGIC OBJECTIVE IS TO MAINTAIN CALIFORNIA AS
20 WORLD STEM CELL LEADER. AND OUR KEY OUTCOME IS THAT
21 CALIFORNIA IS GLOBALLY RECOGNIZED AS THE STEM CELL
22 STATE.

23 THE STRATEGIES YOU'VE SEEN BEFORE. THE
24 CHANGE THAT WAS MADE BACK AT THE JANUARY ICOC IS IN
25 THE ECONOMIC CATEGORY, THE THIRD BULLET, THAT CIRM

BARRISTERS' REPORTING SERVICE

1 WOULD LAY THE GROUNDWORK FOR DEVELOPMENT OF NEW
2 THERAPEUTIC APPROACHES TO TREAT OR CURE CHRONIC
3 DISEASES AND INJURIES. THIS WAS RECOMMENDED AT THE
4 LAST BOARD MEETING TO TAKE INTO ACCOUNT THE AGENCY'S
5 ATTEMPT TO TAKE EVERY OPPORTUNITY TO ADVANCE THERAPY
6 CANDIDATES THAT CAN DRAMATICALLY REDUCE THE COST OF
7 CHRONIC ILLNESS AND INJURY.

8 THAT BRINGS US TO, THEN, OUR ONE-YEAR
9 GOALS, REMEMBERING WHAT OUR ULTIMATE ASPIRATIONAL
10 GOALS ARE. SO YOU ARE GOING TO HEAR NEXT ABOUT
11 ONE-YEAR AND THEN FIVE-YEAR GOALS. SO THESE ARE
12 GOALS THAT WE SEEK TO ACHIEVE IN THE COMING FISCAL
13 YEAR.

14 THE FIRST IS THAT WE'LL ENSURE THAT CIRM'S
15 PORTFOLIO INCLUDES AT LEAST TWO PROGRAMS WITH AN
16 APPROVED INVESTIGATIONAL NEW DRUG FILING WITH THE
17 U.S. FOOD AND DRUG ADMINISTRATION SO THAT THAT
18 PRODUCT CAN ENTER CLINICAL TRIALS IN PATIENTS.

19 AND JUST SO EVERYBODY UNDERSTANDS, SOME OF
20 WHOM MAY NOT BE FAMILIAR WITH REGULATORY PROCESSES,
21 IT'S NOT JUST FILLING OUT A FORM TO FILE AN IND.
22 IT'S YEARS OF STUDIES TO LOOK AT THE PROPOSED
23 CANDIDATE, MAYBE IN PRECLINICAL MODELS, IN
24 LABORATORY TESTS, IN PARTICULAR OTHER TYPES OF
25 PRECLINICAL MODELS, AND REALLY TO LOOK AT SAFETY

BARRISTERS' REPORTING SERVICE

1 ISSUES SO THAT IT'S SAFE TO BRING THAT PRODUCT INTO
2 THE FIRST INVESTIGATIONAL TESTING. SO WHERE REAL
3 ESTATE IS FOCUSED ON LOCATION, LOCATION, LOCATION,
4 IND'S ARE FOCUSED ON DETAIL, DETAIL, DETAIL. THEY
5 WANT TO HAVE A LOT OF INFORMATION ABOUT HOW THIS
6 PRODUCT WORKS, WHAT ITS SAFETY PROFILE IS BEFORE IT
7 CAN EVER GET INTO THE FIRST PATIENT. SO THIS IS
8 REALLY AN IMPORTANT STEP IN MOVING THESE THERAPIES
9 TOWARDS PATIENTS.

10 THE SECOND BULLET IS ABOUT ACHIEVING 50
11 MILLION IN NEW OUTSIDE FINANCIAL COMMITMENT FOR CIRM
12 PROGRAMS. THIS OUTSIDE COMMITMENT CAN COME FROM
13 COLLABORATIVE FUNDING PARTNERS, FROM INDUSTRY, FROM
14 VENTURE CAPITALISTS, FROM MATCHING FUNDS FROM
15 INSTITUTIONS, BUT IT'S OUTSIDE CIRM.

16 THE THIRD BULLET IS THAT WE ENSURE FUNDING
17 OF POTENTIALLY HIGH IMPACT PROJECTS THAT COULD
18 RESULT IN TRANSFORMATIVE RESEARCH BY MODIFYING THE
19 PRIORITIES IN CIRM'S REQUEST FOR APPLICATIONS SO
20 THAT WE ARE REALLY TRYING TO LOOK FOR THAT
21 TRANSFORMATIVE RESEARCH THAT COULD POTENTIALLY HAVE
22 A LARGER IMPACT.

23 THE FOURTH BULLET IS TO EDUCATE AND ENGAGE
24 THE CALIFORNIA COMMUNITY IN CIRM'S MISSION AND
25 ACHIEVEMENTS IN PART BY INCREASING THE NUMBER OF

BARRISTERS' REPORTING SERVICE

1 MONTHLY ONLINE ENGAGEMENTS FROM THE CURRENT 70,000
2 TO A HUNDRED THOUSAND. THIS IS A METRIC THAT WAS
3 PROPOSED, A GOAL THAT WAS PROPOSED BY OUR
4 COMMUNICATIONS GROUP. IT'S ACTUALLY AN EVOLVING I
5 THINK YOU'D CALL A METRIC IN TERMS OF HOW TO
6 CATEGORIZE AND MEASURE THESE TYPES OF ENGAGEMENT,
7 BUT IT INCLUDES HOW MANY TIMES PEOPLE ARE READING,
8 WHAT YOU'RE WRITING ABOUT, HOW MANY TIMES THEY'RE
9 ENGAGING IN THE CONVERSATION. AND I'M TOLD THERE IS
10 SOFTWARE TO ACTUALLY MEASURE THIS IN A WAY. SO WE
11 WERE TRYING TO GIVE YOU GOALS THAT HAD SOME ABILITY
12 TO BE MEASURED.

13 AND THEN THE LAST BULLET IS TO OPTIMIZE
14 CIRM'S WORKFORCE, STAFFING, AND OUR PROCESSES TO
15 MEET CHANGING PRIORITIES WITHIN THE 6-PERCENT
16 CEILING.

17 WE HAVE A LOT OF ACTIVITIES, A LOT OF
18 IMPORTANT PROGRAMS THAT NEED TO GO ON, BUT WE ARE
19 ALSO GOING TO ABSOLUTELY STAY TRUE TO MEETING ALL OF
20 THESE PRIORITIES WITHIN THE CEILING.

21 LET ME FIRST ASK IF THERE'S ANY -- WOULD
22 YOU LIKE ME TO GO THROUGH THE ONE-YEAR AND THE
23 FIVE-YEAR AND THEN ASK QUESTIONS? WOULD THAT BE THE
24 BEST WAY TO GO THROUGH THIS BECAUSE I CAN DO THAT?
25 I'M GETTING THE NOD.

BARRISTERS' REPORTING SERVICE

1 LET ME GO ON, THEN, TO THE FIVE-YEAR GOALS
2 AND JUST SUMMARIZE WHAT IS WRITTEN IN YOUR PREREAD
3 BECAUSE ACTUALLY FOR THE FIVE-YEAR GOALS, CIRM
4 ALREADY HAD FROM 2006 COMMUNICATED FIVE-YEAR AND
5 TEN-YEAR GOALS. AND THE TEN-YEAR GOALS THAT WERE
6 WRITTEN BACK IN 2006 ARE BEING MODIFIED TO BE NOW
7 OUR FIVE-YEAR GOALS. BUT I WANT TO ALSO SUMMARIZE
8 WHAT PROGRESS CIRM HAS MADE ON THE FIVE-YEAR GOALS
9 THAT WERE ARTICULATED BACK IN THE 2006 STRATEGIC
10 PLAN.

11 WE'VE MET EIGHT OF THOSE TEN GOALS, AND
12 WE'RE MEETING THE NINTH GOAL IN 2012, AND WE'RE
13 WORKING ON PROGRESS TO DEMONSTRATE METHODS TO
14 ADDRESS THE IMMUNOLOGIC CHALLENGES WITH TRANSPLANTED
15 TISSUES.

16 YOU CAN RELOOK AT YOUR PREREAD THAT I
17 PROVIDED TO YOU FOR THE FULL DETAILS. BUT TO
18 SUMMARIZE, THE GOALS THAT CIRM FUNDING HAS MET TO
19 DATE INCLUDE THAT SIX THERAPIES BASED ON STEM CELL
20 RESEARCH ARE IN PRECLINICAL DEVELOPMENT, THAT WE
21 HAVE DEVELOPED NEW METHODS FOR MAKING STEM CELL
22 LINES, THAT OUR INVESTMENTS HAVE SUCCESSFULLY
23 CREATED DISEASE-SPECIFIC STEM CELL LINES IN FOUR
24 DISEASES, THE FUNDING HAS DEVELOPED METHODS FOR
25 GROWING STEM CELLS IN DEFINED MEDIA. IT HAS ENABLED

BARRISTERS' REPORTING SERVICE

1 ESTABLISHMENT OF STEM CELL BANK BY SUPPORTING
2 DEVELOPMENT OF NEW LINES, ENCOURAGING THE
3 REGISTRATION AND DOCUMENTATION, AND ULTIMATELY
4 PROVIDING SUPPORT FOR SELF-SUSTAINING BANKING AND
5 DISTRIBUTION EFFORTS.

6 IT HAS INCREASED THE WORKFORCE OF STEM
7 CELL RESEARCHERS IN CALIFORNIA. IT HAS ESTABLISHED
8 TOOLS FOR TOXICITY TESTING BASED ON STEM CELL
9 RESEARCH. IT HAS ENABLED EFFECTIVE PARTNERSHIPS IN
10 STEM CELL RESEARCH BETWEEN SCIENTIFIC TEAMS IN
11 NOT-FOR-PROFIT AND COMMERCIAL SECTORS, AND IT HAS
12 ESTABLISHED NATIONAL AND INTERNATIONAL
13 COLLABORATIONS IN STEM CELL RESEARCH THAT LEVERAGES
14 CALIFORNIA RESEARCHERS AND RESEARCHERS OUTSIDE OF
15 CALIFORNIA TO ADVANCE TOWARDS THERAPIES.

16 THAT'S A QUICK, CONCISE SUMMARY OF WHAT WE
17 HAVE ACCOMPLISHED. WHAT I'M GOING TO COMMUNICATE
18 NOW ARE THE GOALS THAT WE WANT TO ACCOMPLISH IN THE
19 NEXT FIVE YEARS. SO THIS WILL TAKE US OUT TO FISCAL
20 YEAR 2017, 18. AND WHAT I'M GOING TO DESCRIBE IS
21 THE GOAL AND WHETHER IT'S IDENTICAL OR SOMEWHAT
22 MODIFIED FROM THE GOAL THAT WAS COMMUNICATED AS A
23 TEN-YEAR GOAL BACK IN 2006. SO THAT WILL BE
24 PERFECTLY TRANSPARENT IF THINGS ARE STAYING THE SAME
25 OR IF WE'RE MODIFYING THEM.

BARRISTERS' REPORTING SERVICE

1 SO THE GOAL 1 IS BASICALLY AN UNCHANGED
2 GOAL 9. IT'S THROUGH RESEARCH SPONSORED BY CIRM AND
3 OTHERS THAT THE FACTORS REGULATING SELF-RENEWAL IN
4 TUMOR CAUSING POTENTIAL OF STEM CELLS AND THEIR
5 DERIVATIVES WILL BE IDENTIFIED AND CHARACTERIZED.

6 MS. SAMUELSON: DR. FEIGAL, COULD YOU SAY
7 WHERE YOU ARE IN YOUR OUTLINE? THE MATERIALS.

8 DR. FEIGAL: JUST GO AHEAD AND LOOK AT MY
9 SLIDES. IF YOU CAN SEE THAT -- IF YOU WANT ME TO
10 TELL YOU WHAT PAGE FROM THE PREREAD.

11 MS. SAMUELSON: THAT'S WHAT I PREPARED
12 WITH.

13 DR. FEIGAL: LET ME TELL YOU CHAPTER AND
14 VERSE. WE ARE ON PAGE 3.

15 MS. SAMUELSON: GREAT. THANKS.

16 DR. FEIGAL: STARTING ON PAGE 5 IS REALLY
17 THE APPENDIX OF DETAILS. SO IT'S REALLY JUST THE
18 FIRST FEW PAGES THAT ARE THE TOPIC FOR THIS
19 PRESENTATION.

20 SO GOAL 2 IS AN UNCHANGED GOAL 8, THAT
21 THROUGH RESEARCH SPONSORED BY CIRM AND OTHERS, A
22 THOROUGH DESCRIPTION OF THE STEPS TO DIFFERENTIATION
23 LEADING TO THE PRODUCTION OF CRITICAL CELLS OF THE
24 BODY DESIRED FOR TRANSPLANTATION WILL BE ACHIEVED.

25 AND THEN GOAL 3 IS A MODIFIED GOAL 4. THE

BARRISTERS' REPORTING SERVICE

1 GOAL 4 FROM 2006 STATED THAT CIRM WILL HAVE FUNDED
2 NEW APPROACHES FOR ACHIEVING IMMUNE TOLERANCE FOR
3 TRANSPLANTATION THAT ARE IN PRECLINICAL DEVELOPMENT.
4 AND IT'S NOW BEEN MODIFIED TO READ CIRM WILL HAVE
5 FUNDED NEW APPROACHES FOR ENSURING SUCCESSFUL
6 ALLOGENEIC CELL TRANSPLANTATION THAT ARE IN CLINICAL
7 DEVELOPMENT.

8 GOAL 4 IS A MODIFICATION FROM GOAL 5.
9 WHERE GOAL 5 IN 2006 SAYS USING STEM CELL RESEARCH,
10 CIRM-FUNDED INVESTIGATORS WILL HAVE ESTABLISHED
11 PROOF OF PRINCIPLE IN PRECLINICAL ANIMAL MODELS FOR
12 THE TREATMENT OF SIX TO EIGHT DISEASES. WE'RE
13 BASICALLY UPPING THE ANTE TO MORE THAN TEN DISEASES.

14 GOAL 5 IS AN UNCHANGED GOAL 6, THAT
15 CIRM-FUNDED INVESTIGATORS WILL HAVE CREATED
16 DISEASE-SPECIFIC CELL LINES FOR 20 TO 30 DISEASES
17 AND USED THEM TO GAIN NEW INFORMATION ABOUT THEIR
18 UNDERLYING PATHOGENESIS AND TO IDENTIFY NEW DRUG
19 TARGETS FOR DISCOVERY OF NEW THERAPEUTICS.

20 GOAL 6 IS A SLIGHT CHANGE FROM GOAL 7.
21 GOAL 7 HAD SAID THAT WE HAVE ENABLED DEVELOPMENT OF
22 NEW PROCEDURES FOR THE PRODUCTION OF A VARIETY OF
23 STEM AND/OR PROGENITOR CELLS THAT MEET GMP
24 REQUIREMENTS. WE MODIFIED THAT TO SAY ENABLE
25 DEVELOPMENT OF NEW PROCEDURES FOR THE PRODUCTION OF

BARRISTERS' REPORTING SERVICE

1 A VARIETY OF STEM AND PROGENITOR CELLS THAT MEET
2 REQUIREMENTS FOR CLINICAL APPLICATION.

3 GOAL 7 ACTUALLY TRIED TO PROVIDE A
4 MEASURABLE METRIC HERE. GOAL 3, IT'S FOCUSED ON
5 WHAT WAS GOAL 3, WHICH SAID THAT CIRM-FUNDED
6 PROJECTS WILL HAVE ACHIEVED SUFFICIENT SUCCESS TO
7 ATTRACT PRIVATE CAPITAL FOR FUNDING FURTHER CLINICAL
8 DEVELOPMENT OF STEM CELL THERAPY. IT NOW SAYS AT
9 LEAST 20 CIRM-FUNDED PROGRAMS WILL HAVE OUTSIDE
10 CAPITAL COMMITMENTS FOR FUNDING DEVELOPMENT WORK.

11 GOAL 8 IS AN AMALGAMATION OF GOALS 1 AND 2
12 FROM 2006. GOAL 1 HAD PREVIOUSLY STATED THAT CIRM
13 GRANTEES WILL HAVE CLINICAL PROOF OF PRINCIPLE THAT
14 TRANSPLANTS AND CELLS DERIVED FROM PLURIPOTENT CELLS
15 CAN BE USED TO RESTORE FUNCTION FOR AT LEAST ONE
16 DISEASE. AND GOAL 2, THAT CIRM-SPONSORED RESEARCH
17 WILL HAVE GENERATED THERAPIES BASED ON STEM CELL
18 RESEARCH THAT IS IN PHASE I OR II CLINICAL TRIALS
19 FOR TWO TO FOUR ADDITIONAL DISEASES.

20 WE MODIFIED GOAL 8 TO READ THAT CIRM WILL
21 HAVE FUNDED TEN THERAPIES AS OPPOSED TO TWO TO FOUR
22 THAT ARE IN PHASE I OR II CLINICAL TRIALS, WE ADDED,
23 IN AT LEAST FIVE DIFFERENT THERAPEUTIC AREAS BASED
24 ON STEM CELL RESEARCH. AND WE MODIFIED THIS LATTER
25 PART, AND HAVE ACHIEVED CLINICAL PROOF OF CONCEPT

BARRISTERS' REPORTING SERVICE

1 THAT TRANSPLANTED CELLS THAT ARE DERIVED FROM
2 PLURIPOTENT OR PROGENITOR CELLS CAN BE USED TO
3 RESTORE FUNCTION FOR AT LEAST ONE DISEASE OR INJURY
4 CONDITION.

5 AND WE CHANGED THE LATTER PART OF GOAL 8
6 BASED ON A VARIETY OF INPUTS THAT WE GOT FROM
7 STAKEHOLDERS, INCLUDING THIS BOARD BACK IN JANUARY,
8 THAT WE WERE BEING TOO NARROW IN OUR PREVIOUSLY
9 DESCRIBED GOAL IN TERMS OF WHERE THAT CLINICAL PROOF
10 OF CONCEPT COULD COME FROM. AND THAT'S WHY WE
11 EXPANDED IT TO PLURIPOTENT OR PROGENITOR CELLS.

12 AND THEN GOAL 9, WHICH IS IN ADDITION, IS
13 THAT WE BROADEN AND REINFORCE CIRM'S EFFORT TO
14 EDUCATE AND ENGAGE THE CALIFORNIA COMMUNITY IN
15 CIRM'S MISSION AND ACHIEVEMENTS IN PART BY
16 INCREASING THE NUMBER OF MONTHLY ONLINE ENGAGEMENTS
17 TO 250,000.

18 LET ME JUST FINISH, I ONLY HAVE TWO MORE
19 SLIDES, ART, OR DID YOU HAVE A QUESTION RIGHT NOW?

20 MR. TORRES: NO.

21 DR. FEIGAL: I JUST WANT TO SHOW YOU WHAT
22 THE STRATEGIC PLAN IS GOING TO LOOK LIKE. YOU SAW
23 THIS BACK IN JANUARY. THIS IS WHAT THE TABLE OF
24 CONTENTS WILL LOOK LIKE. SO YOU WILL HAVE AN
25 EXECUTIVE SUMMARY, THE MISSION AND VISION, THE FOUR

BARRISTERS' REPORTING SERVICE

1 STRATEGIC OBJECTIVES, THE SINGLE KEY OUTCOME AMONG
2 THEM, THE GOALS AND METRICS, WHICH WE ARE TALKING
3 ABOUT TODAY, THE FINANCIAL PROJECTIONS WHERE PAT IS
4 GOING TO LEAD THAT DISCUSSION TODAY, AND THEN
5 APPENDICES THAT INCLUDE THE EXTERNAL ADVISORY PANEL
6 REPORT, OUR RESPONSE, THE PROCESS, AND THE SUMMARY
7 OF STAKEHOLDER INPUTS, AND OUR PROGRESS ON THE 2006
8 FIVE- AND TEN-YEAR GOALS.

9 AND THEN THE NEXT STEPS WILL BE OVER THE
10 NEXT TWO MONTHS WE'LL EMBED THE DISCUSSION TODAY,
11 THE PREVIOUS INPUTS SO THAT BY MAY 24TH YOU WILL BE
12 ABLE TO CONSIDER THIS FINALIZED DOCUMENT FOR YOUR
13 CONSIDERATION.

14 CHAIRMAN THOMAS: THANK YOU, DR. FEIGAL.
15 DR. STEWARD.

16 MR. HARRISON: I'M SORRY. QUICKLY, WE
17 NEED TO ASK MEMBER SHESTACK AND MEMBER FEIT FOR
18 THEIR VOTES ON MOTION 6, WHICH WAS NOT TO FUND THE
19 APPLICATIONS IN TIER 3 TO CLOSE THIS OUT.

20 CHAIRMAN THOMAS: THIS IS BECOMING THE
21 LONGEST MOTION IN CIRM HISTORY. PLEASE.

22 MR. HARRISON: MEMBER SHESTACK. THE
23 MOTION IS NOT TO FUND THE APPLICATIONS IN TIER 3.

24 MR. SHESTACK: YES, I AGREE.

25 MR. HARRISON: AND MEMBER FEIT.

BARRISTERS' REPORTING SERVICE

1 MS. FEIT: YES.

2 MR. HARRISON: THANK YOU.

3 CHAIRMAN THOMAS: ARE WE NOW FINISHED WITH
4 THAT?

5 MR. HARRISON: YES. THE MOTION PASSES.

6 CHAIRMAN THOMAS: OUTSTANDING. THANK YOU,
7 MR. HARRISON.

8 DR. STEWARD: I WAS INTERESTED IN THE
9 ONE-YEAR GOAL. I THINK IT WAS BULLET 3 OR 4. AND
10 IT WAS BULLET 3. AND I THINK THIS IS A REALLY
11 IMPORTANT POINT. I GUESS I'D LIKE, IF YOU COULD, TO
12 UNPACK THAT A LITTLE BIT. THE IDEA OF ENHANCING THE
13 FUNDING OF THESE REALLY TRANSFORMATIVE THINGS I
14 THINK IS REALLY IMPORTANT.

15 DR. FEIGAL: THIS IS PROBABLY THE MOST
16 DIFFICULT TO QUANTITATE BECAUSE IT REALLY IS
17 QUALITATIVE, AND AT SOME POINT IT REALLY REQUIRES
18 STARGAZING BECAUSE WE DON'T KNOW WHERE THAT
19 POTENTIALLY TRANSFORMATIVE DISCOVERY COULD COME
20 FROM. BUT WHAT WE THINK WE COULD DO, BECAUSE WE'VE
21 BEEN SITTING THROUGH A LOT OF REVIEWS AND LISTENING
22 TO REVIEWER QUESTIONS AND GOING BACK AND READING THE
23 RFA AND TRYING TO DECIDE IF SOMETHING WAS ELIGIBLE
24 OR OUT OF SCOPE, SO WE THINK ACTUALLY WHEN WE DO PUT
25 SOLICITATIONS OUT THERE, PERHAPS WE COULD BE CLEARER

BARRISTERS' REPORTING SERVICE

1 TO THE APPLICANT ABOUT WHAT WE'RE REALLY LOOKING FOR
2 AND CLEARER TO THE REVIEWER ABOUT THE TYPE OF INPUT
3 THAT WE'RE REALLY GOING FOR.

4 BUT IF YOU HAVE SUGGESTIONS ON HOW WE
5 COULD ACCOMPLISH THAT, I'D BE ALL EARS.

6 DR. STEWARD: WELL, I GUESS THIS IS A
7 RECORD THAT I SORT OF KEEP PLAYING. AND I JUST
8 WONDER IF IT WOULD BE POSSIBLE IN EFFECT TO GO IN
9 THE OPPOSITE DIRECTION, TO ESSENTIALLY BE LESS CLEAR
10 ABOUT WHAT YOU'RE LOOKING FOR BECAUSE, AS YOU SAY,
11 YOU DON'T KNOW WHAT YOU'RE REALLY LOOKING FOR.

12 DR. FEIGAL: NOT BE TOO NARROW.

13 DR. STEWARD: YEAH. AND REALLY ENCOURAGE
14 CREATIVITY FROM THE OUTSIDE. I KNOW IT'S HARD TO
15 DEVELOP AN RFA THAT SAYS WE'RE REALLY LOOKING FOR
16 OUT-OF-THE-BOX THINKING. BUT TO THE EXTENT THAT
17 IT'S POSSIBLE TO ACTUALLY DO THAT AND TO HAVE
18 GREATER FLEXIBILITY IN THE BOUNDARY CONDITIONS ON
19 SOME OF THESE RFA'S, YOU MIGHT BE ABLE TO ATTRACT
20 JUST THE KIND OF THING YOU'RE TALKING ABOUT HERE,
21 SOMETHING THAT'S REALLY A LITTLE BIT OUT OF THE BOX
22 AND THAT REALLY COULD BE TRULY TRANSFORMATIVE.
23 EXACTLY HOW TO DO THAT, AGAIN, I'M NOT SURE, BUT IF
24 YOU COULD THINK ABOUT THAT.

25 DR. LUBIN: SO I HAVE THREE COMMENTS.

BARRISTERS' REPORTING SERVICE

1 THIS IS A LITTLE TANGENT TO THIS, BUT REALLY
2 IMPORTANT, THAT IF A DISCOVERY OR WHEN A DISCOVERY
3 IS MADE WITH ANY OF THE FUNDING THAT WE PROVIDED
4 THAT CAN BE USED IN A CLINICAL SETTING, THIRD-PARTY
5 PAYERS ARE GOING TO HAVE TO PAY FOR THIS. AND FOR
6 THOSE OF YOU WHO ARE IN THE HEALTH BUSINESS, YOU
7 REALIZE THAT THE ABILITY TO GET REIMBURSEMENT FOR
8 MANY OF THESE THINGS IS GOING TO BE EXTREMELY
9 CHALLENGING. AND THE WORST THING IS THAT WE'RE
10 GOING TO HAVE A CURE FOR SOMETHING AND NOT BE ABLE
11 TO GET IT FUNDED.

12 SO ONE STRATEGY TO CONSIDER IS AS WE GO
13 FORWARD, TO HAVE A COMMITTEE OR SOME PEOPLE TAKE A
14 LOOK AT HOW WE'RE GOING TO START LOBBYING WITH THE
15 PAYERS BECAUSE IF YOU LOOK AT THE TOTAL COST OF
16 CHRONIC ILLNESS AND THEN YOU LOOK AT THE THERAPY
17 THAT'S GOING TO COME OUT OF THIS, IT MAKES SENSE TO
18 DO THE THERAPY, BUT TO CONVINCING THE HEALTHCARE
19 PROVIDERS THAT PAY THAT THIS MAKES SENSE TAKES A
20 LONG TIME. AND THE LAST THING YOU WANT IS TO GET
21 SOMETHING AND THEN HAVE IT SIT ON THE SHELF IN
22 ANOTHER SECOND VALLEY OF DEATH THAT WE'VE TALKED
23 ABOUT HERE.

24 SO I WOULD ENCOURAGE US TO BE THINKING IN
25 OUR STRATEGIC PLAN HOW WE MIGHT WANT TO ADDRESS THAT

BARRISTERS' REPORTING SERVICE

1 AND WHAT FORMAT. SO THAT'S ONE COMMENT.

2 THE SECOND IS, AS A RELATIVELY NEW MEMBER
3 OF THE COMMITTEE AND AS A VERY LONGSTANDING REVIEWER
4 AT THE NATIONAL INSTITUTES OF HEALTH FOR A VARIETY
5 OF STUDIES, I'M IMPRESSED BY THE MAGNITUDE OF THE
6 AWARDS THAT WE MAKE RELATIVE TO THE AWARDS THAT I
7 SIT ON WHERE SIMILAR CONSIDERATIONS ARE MADE. AND I
8 JUST WANT TO BE SURE THAT THE BOARD OR WHATEVER
9 COMMITTEE OF THE BOARD LOOKS AT THIS CAREFULLY LOOKS
10 AT ARE WE IN THE RIGHT BALLPARK ON THESE AWARDS, AND
11 IS THIS WHAT WE WANT TO CONTINUE TO DO.

12 RESTRICTIONS ARE PLACED ON NIH GRANTS NOW
13 FOR SALARIES FOR A WHOLE VARIETY OF THINGS. MAYBE
14 THAT'S NOT GOOD. MAYBE WE DON'T HAVE TO DO IT, BUT
15 IF WE COULD STRETCH OUT THE DOLLARS TO MORE, MAYBE
16 WE CAN ENCOURAGE MORE PEOPLE. SO I THROW THAT OUT
17 AS AN IDEA.

18 AND THEN THE THIRD IS WE DIDN'T HEAR ABOUT
19 THE INSTITUTE OF MEDICINE'S REVIEW AND HOW THAT'S
20 GOING TO FIT INTO OUR STRATEGIC PLAN OF WHAT
21 RECOMMENDATIONS AND THINGS COME UP. SO AT LEAST
22 THAT SHOULD BE A TRAILER AND SOMETHING FOR US TO BE
23 THINKING ABOUT.

24 DR. FEIGAL: I COULD JUST MAKE A COMMENT.
25 THEY CERTAINLY -- I CAN COMMENT AND THEN J.T. CAN

BARRISTERS' REPORTING SERVICE

1 PROBABLY ANSWER BECAUSE HONESTLY AT THIS POINT,
2 THEIR RECOMMENDATIONS, I BELIEVE, ARE GOING TO COME
3 OUT MORE NEAR THE END OF THE YEAR. SO THEY'RE
4 LOOKING AT WHERE WE SAY WE'RE GOING TO IMPACT ON
5 MAYBE SOME OF THE RECOMMENDATIONS THEY MAKE. BUT,
6 J.T., IF YOU HAVE OTHER THOUGHTS ON THAT.

7 CHAIRMAN THOMAS: JUST TO FURTHER THAT
8 POINT, THE TIMING OF THE STRATEGIC PLAN WAS TO SOME
9 EXTENT DICTATED BY A DESIRE TO HAVE IT DONE WELL IN
10 ADVANCE SO THAT THE IOM COULD REVIEW IT AS PART OF
11 THEIR ANALYSIS AND GIVE CRITICAL COMMENT IN DECEMBER
12 WHEN THEY PRESENT THEIR REPORT.

13 MR. ROTH: SO I WOULD LIKE TO JUST
14 COMPLIMENT ALL THE PEOPLE THAT WORKED ON THE
15 STRATEGIC PLAN. THESE ARE TOUGH DOCUMENTS TO PULL
16 TOGETHER, ESPECIALLY WHEN YOU INHERIT A GREAT DEAL
17 OF THIS, AS MANY OF YOU DID. BUT I THINK AFTER ALL
18 THE ITERATIONS WE'VE BEEN THROUGH, THE INPUT WE'VE
19 HAD, THAT THIS IS A VERY SOLID DOCUMENT. IT
20 ENCOMPASSES, I THINK, THE NEXT PERIOD OF TIME WE'RE
21 MOVING INTO. IT DOESN'T JUST PICK UP THE PAST AND
22 SAY EVERYTHING THAT WE DID THEN WILL CONTINUE.

23 SO I THINK EVERYBODY ON THE STAFF AND ALL
24 THE PEOPLE THAT PARTICIPATED DESERVE GREAT CREDIT
25 FOR DOING THIS.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: THAT'S VERY WELL SAID,
2 DUANE. THANK YOU.

3 MS. SAMUELSON: I'M THRILLED TO HEAR THAT
4 BECAUSE OBVIOUSLY YOU'RE ONE OF THE PEOPLE ON OUR
5 BOARD WHO HAS MUCH MORE EXPERTISE THAN I DO TO BE
6 ABLE TO EVALUATE IT. I NEED TO UNDERSTAND IT
7 BETTER, SO THAT'S WHERE MY QUESTIONS ARE GOING.
8 IT'S NOT CRITICISM OF IT. IT'S JUST SEEKING TO
9 UNDERSTAND IT.

10 THE FIRST QUESTION I HAVE IS WHAT ARE YOU
11 ASKING FROM US TODAY? BECAUSE I THINK IT'S AN
12 ACTION ITEM, BUT IT'S CALLED CONSIDERATION OF THE
13 PRESENTATION TODAY.

14 DR. FEIGAL: LET ME TAKE A STAB AT IT. WE
15 CERTAINLY DO WANT YOUR INPUT ON THE ONE- AND
16 FIVE-YEAR GOALS AND IF YOU THINK THESE ARE THE
17 APPROPRIATE GOALS TO MOVE ON. IT'S NOT MY
18 IMPRESSION THAT IT'S A VOTE. IT'S MORE TO GET YOUR
19 INPUT. MAYBE, J.T., YOU COULD COMMENT ON THAT.

20 CHAIRMAN THOMAS: THAT'S CORRECT. THIS IS
21 THE LATEST OF A SERIES OF DISCUSSIONS THAT INFORM
22 THE REFINEMENT OF PLAN WHICH WILL ACTUALLY BE
23 PRESENTED FOR A VOTE AT THE MAY BOARD MEETING.

24 MS. SAMUELSON: THEN THERE'S LOTS OF
25 TWEAKING. THAT'S NOT OF SERIOUS ENOUGH WORD FOR

BARRISTERS' REPORTING SERVICE

1 WHAT'S GOING ON. FORGIVE ME. BUT MOVING THIS GOAL
2 THIS MUCH AND SO ON, MAYBE DR. OLSON IS THE PERSON
3 WHO WOULD ADDRESS SPECIFICS. I DON'T KNOW. BUT FOR
4 EXAMPLE, THE ONE-YEAR GOAL SAYS ENSURE CIRM'S
5 PORTFOLIO INCLUDES AT LEAST TWO PROGRAMS WITH AN
6 APPROVED IND WITH THE FDA. WHERE DOES THAT COME
7 FROM? ARE THERE CERTAIN THERAPEUTIC INTERVENTIONS
8 THAT ARE MOVING TOWARD BEING READY FOR THAT, OR IS
9 THIS MORE AT A CONCEPTUAL LEVEL? ARE THERE DISEASES
10 WE'RE AHEAD IN, AND THAT WOULD BE REAL GOOD NEWS, OR
11 ARE THERE IMPORTANT OBSTACLES THAT REALLY NEED A
12 SORT OF FRONTAL ASSAULT WITH OUR RESEARCH IN THE
13 NEXT FEW YEARS? PLEASE TRY TO ELABORATE ON THAT.

14 DR. FEIGAL: TO YOUR FIRST OF WHAT I TAKE
15 WILL BE SEVERAL QUESTIONS, THE ONE-YEAR GOALS ARE
16 SUPPOSED TO BE GOALS WITHIN OUR GRASP, NOT
17 ASPIRATIONAL. SO THEY ARE BASED ON DATA THAT WE'VE
18 OBSERVED TO DATE IN TERMS OF HOW THINGS ARE
19 FUNCTIONING. IT'S BASED ON INFORMATION THAT WE HAVE
20 KNOWLEDGE ABOUT OF WHAT'S GOING ON IN THE FIELD AND
21 MAY BE COMING INTO US. I CAN'T SHARE THOSE DETAILS,
22 OF COURSE, WITH YOU BECAUSE THEY'RE PROPRIETARY, BUT
23 WE HAVE REASON TO BELIEVE THESE ARE REACHABLE GOALS.

24 MS. SAMUELSON: IS THERE NOTHING MORE YOU
25 CAN SHARE?

BARRISTERS' REPORTING SERVICE

1 DR. FEIGAL: I CAN SHARE MORE IN THE
2 UPCOMING DISCUSSION.

3 MS. SAMUELSON: THIS BOARD NEEDS TO OWN
4 THIS DOCUMENT. WE HAVE A FIDUCIARY RESPONSIBILITY.
5 MAYBE IT HAS TO HAPPEN IN CLOSED SESSION. I DON'T
6 KNOW, BUT I NEED TO KNOW MORE THAN THAT.

7 DR. FEIGAL: OKAY. WE HAVE REASON -- WE
8 HAVE, AS YOU KNOW, DISEASE TEAMS THAT WE'RE FUNDING.
9 WE ALSO HAVE KNOWLEDGE OF DISEASE TEAM II'S THAT ARE
10 COMING IN THAT ARE YET TO BE REVIEWED AND
11 PRIORITIZED. AND WE HAVE INITIATIVES COMING OUT IN
12 APRIL FOR STRATEGIC PARTNERSHIP FUNDING WHERE WE
13 KNOW THERE'S A TREMENDOUS AMOUNT OF INTEREST. AND
14 THERE ARE POTENTIAL FOR THINGS TO COME IN THROUGH
15 THAT DOOR. OF COURSE, THEY HAVE TO GO THROUGH
16 REVIEW AND PRIORITIZATION. BUT WE HAVE REASON TO
17 BELIEVE THAT THERE'S ENOUGH IN THE DENOMINATOR
18 BETWEEN WHAT WE'RE CURRENTLY FUNDING AND WHAT WE
19 ANTICIPATE MAY COME IN THE DOOR, THAT THE GOAL OF
20 TWO IS SOMETHING REACHABLE. AND IT MAY BE WE HAVE
21 TO GO INTO SOME OTHER SORT OF DISCUSSION FOR MORE
22 DETAILS ABOUT THAT, BUT WE DO THINK THAT THIS IS A
23 REACHABLE GOAL.

24 MR. ROTH: JOAN, MAYBE I COULD MAKE A
25 COMMENT ON THAT. I THINK WHAT THIS GOAL WOULD SAY

BARRISTERS' REPORTING SERVICE

1 IS IF THERE ARE IND'S THAT ARE GOING TO BE SUBMITTED
2 AND MOVE FORWARD, THAT'S WONDERFUL. IF WE HELP FUND
3 THOSE, WE'LL TAKE CREDIT. BUT IT ALSO SAYS IF THERE
4 ARE POTENTIAL IND'S THAT COULD BE FUNDED, BUT THEY
5 LACK THE MONEY TO ACTUALLY CONDUCT THE TRIAL AND WE
6 CAN PUT THEM TOGETHER WITH A PHARMA COMPANY AND USE
7 OUR SPECIAL FUNDS FOR THAT, WE SHOULD TAKE MAXIMUM
8 OPPORTUNITY TO DO SO. SO WE CAN ENABLE, IF YOU
9 WILL, HELPFUL AND EVERYBODY IS FOCUSED ON THAT. AND
10 IF WE -- FOR EXAMPLE, MANY IND'S ARE POTENTIALLY
11 THERE, BUT YOU DON'T SUBMIT AN IND IF YOU DON'T HAVE
12 THE MONEY TO CONDUCT THE CLINICAL TRIAL ONCE THE FDA
13 APPROVES IT. SO CAN WE HELP MAKE THAT HAPPEN?

14 DR. FEIGAL: WE WANTED TO PUT IT OUT THERE
15 BECAUSE WE HAD AS A FIVE-YEAR GOAL TO ESTABLISH SOME
16 PRECLINICAL PROOF OF CONCEPT. SO IF YOU WORK
17 BACKWARDS, IT MEANS WE HAVE TO TAKE STEPS TODAY.
18 AND WE HAVE BEEN TAKING STEPS FOR THE PAST SEVERAL
19 YEARS NOW IN ADVANCING THE FIELD SO THAT WE HAVE THE
20 ABILITY TO MAKE THIS A REALITY. SO IF WE'RE GOING
21 TO BE ABLE TO ACHIEVE WHAT WE WANT TO ACHIEVE IN
22 FIVE YEARS, THEN WE NEED WITHIN THIS NEXT YEAR TO
23 HAVE STARTED MAKING PROGRESS THERE. BECAUSE WE KNOW
24 IT TAKES TIME TO CONDUCT A CLINICAL TRIAL, IT TAKES
25 TIME TO DO A CLINICAL TRIAL TO ESTABLISH PRECLINICAL

BARRISTERS' REPORTING SERVICE

1 PROOF OF CONCEPT. AND IN ORDER TO GET THERE, WE
2 NEED TO START MOVING THINGS IN THAT DIRECTION.

3 MS. SAMUELSON: INDEED. QUESTION FOR
4 DUANE. DO YOU KNOW THIS DOCUMENT AND THE FIELD WELL
5 ENOUGH THAT YOU CAN READ THIS AND KNOW HOW THIS
6 RELATES TO SPECIFIC DISEASE AREAS?

7 MR. ROTH: I CAN'T SAY THAT I'M AN EXPERT
8 ON ALL OF THESE DISEASE AREAS, BUT I THINK IT'S
9 WRITTEN BROAD ENOUGH TO ENCOMPASS WHATEVER IS THERE,
10 PLUS GIVES US A DIRECTION TO SAY THESE ARE THE
11 PRIORITIES. SO IF YOU HAVE TO MAKE DECISIONS, THIS
12 IS YOUR GUIDANCE DOCUMENT FOR THE NEXT YEAR. AND
13 THEN THERE'S A FIVE-YEAR GUIDANCE DOCUMENT. SO TO
14 ME IT'S VERY HELPFUL IN THAT REGARD. AND IT'S
15 OPPORTUNISTIC. YOU CAN'T KNOW EVERYTHING THAT'S
16 GOING TO MATERIALIZE; BUT IF YOU HAVE AN
17 OPPORTUNITY, LET'S MAKE SURE WE GET AS MANY OF THESE
18 PRODUCTS IN THE CLINIC AS WE CAN. THAT'S WHAT IT
19 WOULD SAY TO ME.

20 AND THEN THERE ARE OTHERS THAT ARE THE
21 SAME WAY. HOW DO WE GO OUT AND MAKE SURE THERE'S
22 \$50 MILLION WORTH OF CO-INVESTMENT?

23 MS. SAMUELSON: LET ME JUST FOLLOW ONCE
24 MORE AND THEN I'LL STOP TALKING AND GIVE SOMEONE
25 ELSE AN OPPORTUNITY. IT MADE SENSE TO ME IN THE

BARRISTERS' REPORTING SERVICE

1 FIRST FEW YEARS OF OUR STRATEGIC PLANNING TO BE THAT
2 THEORETICAL WITHOUT ANY CONNECTION TO THE SCOPE OF
3 DISEASE AREAS THAT THE INITIATIVE SAYS WE ARE TO
4 ADDRESS. BUT NOW WE'VE GOT -- IT'S NOT SEVEN YEARS
5 OF FUNDING BECAUSE OF THE LAWSUITS, BUT MAYBE IT'S
6 FOUR OR FIVE, BUT THAT'S A SIGNIFICANT TIME FRAME
7 AND AMOUNT OF MONEY, THAT THERE IS SOMETHING TO SAY
8 ABOUT WHAT IT'S DONE. AND PERHAPS IT'S THAT THERE'S
9 NOTHING THAT CONCRETE BECAUSE SO MUCH BASIC
10 FOUNDATIONAL WORK NEEDED TO BE DONE, BUT I DON'T
11 KNOW THE ANSWER TO THAT. AND I DO KNOW THAT I HAVE
12 NOT YET SEEN AN IMPACT ON THE SEVERAL
13 NEURODEGENERATIVE DISEASES, INCLUDING PARKINSON'S,
14 WHICH I HAVE, AND SO I HAVE TO ASK.

15 WHAT HAS BEEN THE IMPACT OF THE MONEY?
16 AND I THINK WE NEED TO START TYING THE TWO TOGETHER.

17 DR. FEIGAL: WELL, YOU WILL HEAR --

18 MS. SAMUELSON: WE CAN'T JUST HEAR THE
19 GENERIC WISH LIST THAT DOESN'T SHOW HOW IT RELATES
20 TO WHAT'S GOING ON. AND I CAN'T LEARN IT JUST FROM
21 PARTICIPATION IN THE GRANTS WORKING GROUP. SO
22 THAT'S MY QUESTION.

23 DR. FEIGAL: ALL I WAS GOING TO SAY IS
24 ANOTHER DISCUSSION THAT'S GOING TO TAKE PLACE TODAY
25 ARE THE DISEASE TEAM I UPDATES. AND ALTHOUGH I

BARRISTERS' REPORTING SERVICE

1 DON'T HAVE A CRYSTAL BALL IN TERMS OF SPECULATING
2 WHICH HORSE IS GOING TO WIN THE RACE, SORRY FOR THE
3 MIXED METAPHORS HERE, BUT I THINK THAT WE HAVE
4 REASON TO THINK THAT A HORSE OR TWO IS GOING TO
5 FINISH THE RACE. AND SO I DO THINK WE CAN AT LEAST
6 PROVIDE YOU SOME INFORMATION TO THAT REGARD. BUT WE
7 ALSO LEAVE IT OPEN THAT, AS OS SAID, WE'RE NOT
8 OVERCIRCUMSCRIBING WHERE THAT SUCCESS HAS TO COME
9 FROM.

10 MR. ROTH: JOAN, I DON'T THINK IN THE
11 ONE-YEAR GOALS THAT YOU CAN PUT A LOT OF SPECIFICITY
12 ON WHICH DISEASES WE SHOULD PAY ATTENTION TO. I
13 THINK THEY'RE GOING TO BE OPPORTUNISTIC. I THINK WE
14 NEED TO LOOK AT THE PIPELINE, HOWEVER, AND MAKE SURE
15 THAT, AND THAT'S BULLET NO. 3, IF THERE ARE
16 BREAKTHROUGHS, THAT WE BRING THOSE FORWARD AS
17 QUICKLY AS WE CAN AND TO BE CONSCIOUS OF THE AREAS
18 THAT ARE NOT MATURING AS FAST AS OTHERS AND ASK THE
19 QUESTION WHY NOT.

20 MS. SAMUELSON: SO AT THAT POINT WE CAN
21 TALK SPECIFICS.

22 MR. ROTH: I THINK WE WOULD BE IN GOOD
23 SHAPE BY TALKING UNDER NO. 3 ABOUT REAL
24 OPPORTUNITIES TO MOVE THINGS THAT ARE BREAKTHROUGHS
25 FORWARD QUICKLY.

BARRISTERS' REPORTING SERVICE

1 MS. SAMUELSON: AND HAVE THEY BECOME HIGH
2 IMPACT. OKAY. GOOD.

3 DR. FEIGAL: DID YOU HAVE OTHER QUESTIONS
4 TOO?

5 CHAIRMAN THOMAS: WE HAVE A QUESTION ON
6 THE PHONE.

7 DR. FRIEDMAN: IF I COULD JUST ADD ONE
8 QUICK THING, PLEASE. I ACTUALLY THINK THE STRATEGIC
9 PLAN AS ARTICULATED HERE IS PRETTY REASONABLE. AND
10 THIS IS MEANT TO BE A GENERAL GUIDELINE
11 (UNINTELLIGIBLE). I'M VERY SYMPATHETIC WITH WHAT
12 JOAN SAYS ABOUT AS MUCH SPECIFICITY AS POSSIBLE, BUT
13 I THINK (UNINTELLIGIBLE) IS PREPARED TO TAKE
14 ADVANTAGE OF THE OPPORTUNITIES AS THEY PRESENT
15 THEMSELVES OR BYPASS CHALLENGES THAT I EXPECT WILL
16 COME UP. SO I'M COMFORTABLE WITH THIS DEGREE OF
17 SPECIFICITY. THANK YOU.

18 CHAIRMAN THOMAS: THANK YOU, MICHAEL.

19 DR. JUELSGAARD: ELLEN, COULD YOU TURN TO
20 YOUR FIVE-YEAR GOALS AND IN PARTICULAR GOAL 8?

21 CHAIRMAN THOMAS: CAN I ASK A QUESTION
22 HERE, MR. JUELSGAARD? JUST INTERVENE ON A
23 LOGISTICAL MATTER. I'M ASKING THIS OF MARIA. WE
24 HAD ORIGINALLY CONTEMPLATED -- THIS ITEM 9 IS SORT
25 OF A LENGTHY PRESENTATION INVOLVING BOTH DR. FEIGAL

BARRISTERS' REPORTING SERVICE

1 AND DR. OLSON, AND IT CONTEMPLATED WE WOULD IN ALL
2 LIKELIHOOD HAVE TO BREAK BECAUSE OF THE TIMING OF
3 OUR SPOTLIGHT AT NOON AND TO RESUME DISCUSSION AFTER
4 THAT.

5 SO, MR. JUELSGAARD, I WAS WONDERING IF I
6 COULD ASK YOU IF WE CAN USE YOU AS THE KICKOFF
7 QUESTION OF THE POST SPOTLIGHT DISCUSSION.

8 DR. JUELSGAARD: I YIELD.

9 CHAIRMAN THOMAS: THANK YOU.

10 DR. JUELSGAARD: IN ALL SENSES OF THAT
11 WORD.

12 CHAIRMAN THOMAS: THANK YOU VERY MUCH.
13 AND THANK YOU, DR. FEIGAL. WE WILL SEE YOU IN A
14 LITTLE WHILE.

15 SO COULD EVERYBODY GO OVER TO ROOM 205,
16 GRAB THEIR LUNCH. PLEASE COME BACK HERE IMMEDIATELY
17 AND TAKE YOUR SEATS AGAIN. AND WE'RE GOING TO HAVE
18 THE SPOTLIGHT WHICH WILL BE INTRODUCED BY DEAN
19 POMEROY. SO WE WILL NOW ADJOURN TO GO OVER TO GET
20 LUNCH. THANK YOU.

21 (A RECESS WAS TAKEN.)

22 CHAIRMAN THOMAS: CAN EVERYBODY PLEASE
23 TAKE THEIR SEATS? WE ARE PREPARING TO RESUME.
24 PLEASE TAKE YOUR SEATS.

25 WHEN LAST WE SPOKE WE WERE AT THE TAIL END

BARRISTERS' REPORTING SERVICE

1 OF DR. FEIGAL'S PRESENTATION ON THE STRATEGIC PLAN.
2 AND MR. JUELSGAARD WAS SO KIND TO DEFER TO AFTER
3 WHAT WAS A FASCINATING SPOTLIGHT TO RESUME HIS LINE
4 OF QUESTIONING OF DR. FEIGAL ON ONE ASPECT OF HER
5 GOALS PRESENTATION. MR. JUELSGAARD, IF YOU COULD
6 RESURRECT YOUR QUESTION AT THIS TIME, PLEASE.

7 DR. JUELSGAARD: YES. SO IN GOAL NO. 8,
8 DR. FEIGAL, IF I READ IT CORRECTLY, SO WE TALK ABOUT
9 ESSENTIALLY DOING TEN EITHER PHASE I OR PHASE II
10 CLINICAL STUDIES IN FIVE DIFFERENT DISEASE STATES,
11 AND THEN THERE'S THE ADDITION OF THE WORD "AND," AND
12 THEN YOU SAY HAVE ACHIEVED PROOF OF CONCEPT. AND I
13 READ THAT TO MEAN THAT YOU WOULD ACHIEVE PROOF OF
14 CONCEPT IN TEN TRIALS. AND IT'S REALLY HARD TO DO
15 THAT IN A PHASE I TRIAL.

16 DR. FEIGAL: BADLY WORDED SENTENCE. THAT
17 WAS NOT THE INTENT.

18 DR. JUELSGAARD: WHAT WAS THE INTENT THEN?

19 DR. FEIGAL: THE INTENT, AND OPEN TO
20 SUGGESTIONS TO MAKE IT GRAMMATICALLY ACCURATE, WE
21 WERE TRYING -- PART OF OUR INTENT WAS TO DECREASE
22 THE NUMBER OF GOALS FROM 2006 INTO A SMALLER,
23 MEATIER NUMBER. IN DOING SO, WE MAY HAVE
24 INADVERTENTLY CONVEYED THE WRONG MESSAGE. WHAT WE
25 WERE TRYING TO DO IS TAKE GOAL 1 AND GOAL 2 AND

BARRISTERS' REPORTING SERVICE

1 SOMEHOW MERGE THEM INTO ONE GOAL.

2 SO WHAT WAS INTENDED IS THAT WITHIN FIVE
3 YEARS CIRM WILL HAVE FUNDED TEN THERAPIES IN PHASE I
4 OR II CLINICAL TRIALS IN AT LEAST FIVE DIFFERENT
5 THERAPEUTIC AREAS BASED ON STEM CELL RESEARCH. AND
6 NOT NECESSARILY WITHIN THOSE TEN, WITHIN A MUCH
7 BIGGER UNIVERSE OF WHAT COULD COME IN, WE WOULD HAVE
8 WITHIN FIVE YEARS ONE ENTITY THAT COULD HAVE SHOWN
9 CLINICAL PROOF OF CONCEPT, BUT NOT NECESSARILY FROM
10 THE DENOMINATOR OF TEN IN FIVE THERAPEUTIC AREAS.
11 AND THAT IS IN KEEPING WITH NOT MODIFYING OUR
12 ORIGINAL GOAL FROM 2006 WHICH WAS TO HAVE A CLINICAL
13 PROOF OF CONCEPT AT THAT TIME TEN YEARS FROM THE
14 CREATION OF CIRM. WE ARE NOW FIVE YEARS CLOSER TO
15 THAT, SO WE WERE ACTUALLY TRYING NOT TO MODIFY THAT
16 ORIGINAL GOAL. DOES THAT HELP?

17 DR. JUELSGAARD: THAT DOES HELP. THANK
18 YOU.

19 DR. FEIGAL: DO YOU HAVE A SUGGESTION?
20 SHOULD WE SEPARATE IT INTO TWO GOALS AGAIN SO THAT
21 OTHER PEOPLE DON'T MISCONSTRUE WHAT WE MEANT?

22 DR. JUELSGAARD: I REALLY DO SEE THOSE AS
23 TWO DIFFERENT GOALS.

24 DR. FEIGAL: I THINK WE'LL SEPARATE IT
25 INTO TWO THEN.

BARRISTERS' REPORTING SERVICE

1 DR. JUELSGAARD: BESIDES THAT'S TEN.
2 THAT'S A NICE ROUND NUMBER.

3 DR. FEIGAL: IT IS A GOOD NUMBER. ARE
4 THERE OTHER QUESTIONS?

5 CHAIRMAN THOMAS: THANK YOU, MR.
6 JUELSGAARD, FOR YOUR MATHEMATICAL, SYMMETRICAL
7 SUGGESTION. OTHER COMMENTS ON THE STRATEGIC PLAN OF
8 DR. FEIGAL?

9 MR. ROTH: I WOULD MAKE A MOTION THAT WE
10 ACCEPT THESE GOALS WITH THAT MODIFICATION AS THE
11 BASIS FOR THE FINAL APPROVAL WHICH WILL TAKE PLACE
12 NEXT MONTH.

13 DR. HAWGOOD: SECOND.

14 CHAIRMAN THOMAS: FURTHER DISCUSSION BY
15 MEMBERS OF THE BOARD? PUBLIC COMMENT? MR. REED.

16 MS. SAMUELSON: MR. CHAIRMAN.

17 CHAIRMAN THOMAS: HOLD ON. MR. REED,
18 BEFORE WE GET TO PUBLIC COMMENT, WE HAVE ONE MORE
19 BOARD COMMENT. JOAN.

20 MS. SAMUELSON: I DON'T FEEL PREPARED TO
21 THINK THAT I KNOW ENOUGH TO APPROVE THIS. I THINK
22 IT WOULD BE HELPFUL IF WE COULD GET A REDRAFT OF THE
23 SUMMARY ON ACCOMPLISHMENTS BECAUSE THOSE WERE SOME
24 REAL QUALITATIVE CHANGES, IT SOUNDED LIKE, IN THE
25 STATEMENTS OF WHAT WE HAVE ACCOMPLISHED. IF WE HAVE

BARRISTERS' REPORTING SERVICE

1 FUNDED SIX THERAPIES AS OPPOSED TO WE HAVE SIX
2 THERAPIES, WHICH SOUNDS LIKE WE'VE DEVELOPED SIX
3 THERAPIES, RIGHT?

4 DR. FEIGAL: I GUESS I'M NOT QUITE
5 FOLLOWING.

6 MS. SAMUELSON: I'M LOOKING AT THE
7 EXECUTIVE SUMMARY ON ACCOMPLISHMENTS.

8 DR. FEIGAL: THE EXECUTIVE SUMMARY IS A
9 SUMMARY. THE DETAIL IS IN THE APPENDIX.

10 MS. SAMUELSON: AS I UNDERSTOOD YOUR
11 DIALOGUE, IT CHANGED THE MEANING OF THE SENTENCE.
12 AND I'D LIKE TO BASE MY UNDERSTANDING ON THE
13 ACCURATE FACTS.

14 DR. FEIGAL: IF YOU ARE TALKING ABOUT --
15 WELL, FIRST OF ALL, WE'RE TALKING ABOUT TWO
16 DIFFERENT THINGS. THE EXECUTIVE SUMMARY IS NOT A
17 SUMMARY OF THE TEN-YEAR GOALS. IT WAS A SUMMARY OF
18 THE FIVE-YEAR GOALS FROM 2006, WHICH IS BASICALLY
19 THIS YEAR, AND IT HAS A DETAIL -- WE HAVE NOT MET
20 THE TEN-YEAR GOALS YET. IT WAS JUST TALKING ABOUT
21 THE STATUS OF WHERE WE ARE IN MEETING THEM. AND,
22 FRANKLY, THE FIRST GOAL ABOUT SIX THERAPIES, THAT
23 WAS THE FIVE-YEAR GOAL, NOT A TEN-YEAR GOAL.

24 MS. SAMUELSON: WHATEVER IT WAS, IF THE
25 STATEMENT IS THAT CIRM GRANTEES WILL HAVE FUNDED

BARRISTERS' REPORTING SERVICE

1 FUNDING FOR SIX THERAPIES AS OPPOSED TO --

2 DR. FEIGAL: PRECLINICAL. THAT IS TRUE.

3 MS. SAMUELSON: -- AS OPPOSED TO SAYING

4 THAT THEY HAVE SIX THERAPIES, THAT TELLS ME

5 SOMETHING VERY DIFFERENT. I'D JUST LIKE TO --

6 THAT'S JUST AN EXAMPLE TO SAY I DON'T THINK I KNOW

7 ENOUGH ABOUT WHERE WE ARE AND HOW WE CAME UP WITH

8 THESE PREDICTIONS IN TERMS OF WHERE WE ARE.

9 CHAIRMAN THOMAS: I THINK DR. STEWARD HAS
10 SOME THOUGHTS ON THAT QUESTION.

11 DR. STEWARD: JUST TO SAY I THOUGHT THAT
12 WE REALLY WEREN'T BEING ASKED TO DO ANYTHING
13 FORMALLY AT ALL. I THINK I SAW JAMES SORT OF
14 NODDING IN THAT RESPECT EARLIER ON.

15 DR. FEIGAL: WELL, I THOUGHT ALL WE WERE
16 SUPPOSED TO DO TODAY PERSONALLY WAS TO GET INPUT ON
17 THESE ONE- AND FIVE-YEAR GOALS BECAUSE YOU ARE GOING
18 TO SEE THE FINAL STRATEGIC PLAN IN MAY. SO NOW IS
19 THE LAST BOARD MEETING BEFORE MAY 24TH.

20 DR. STEWARD: I JUST RECOMMEND THAT WE NOT
21 TAKE ANY ACTION AT ALL. IT'S A DOCUMENT THAT'S A
22 WORKING DOCUMENT, AND I THINK WE ALL APPRECIATE THE
23 OPPORTUNITY TO HAVE PROVIDED INPUT. IT'S COMING
24 TOGETHER REALLY NICELY AND GO FORTH, SO TO SPEAK.

25 DR. FEIGAL: THAT SOUNDS GREAT. WHAT WE

BARRISTERS' REPORTING SERVICE

1 DO WANT TO DO, THOUGH, IS MAKE SURE THAT YOUR INPUTS
2 ARE RECEIVED. IT MAY BE THERE'S NOT A CONSENSUS,
3 BUT WE'RE HEARING DIFFERENT INPUTS AND THAT WE ARE
4 COMING FORWARD IN MAY WITH A FINALIZED STRATEGIC
5 PLAN. SO IF YOU DO HAVE ISSUES OR CONCERNS, WE DO
6 NEED TO HEAR ABOUT THEM.

7 CHAIRMAN THOMAS: MR. SHESTACK.

8 MR. SHESTACK: JUST, JOAN, HAVE YOU GOTTEN
9 TO READ THIS IN DETAIL, OR YOU'RE REACTING MORE TO
10 WHAT WAS PRESENTED ON THE SLIDES?

11 MS. SAMUELSON: SOME OF EACH.

12 MR. SHESTACK: OKAY. BECAUSE IN HERE
13 THERE IS --

14 MS. SAMUELSON: I HAD A LOT OF QUESTIONS
15 AFTER I READ IT THE FIRST TIME.

16 MR. SHESTACK: IN HERE THERE IS A LOT MORE
17 DETAIL THAN THERE WAS THERE. I'M SURE WHAT MAY HAVE
18 GOTTEN YOU A LITTLE BIT CONCERNED WAS THE WAY ON A
19 SLIDE IT SIMPLY SAID LIKE WE'VE MET EIGHT OF OUR TEN
20 GOALS. IT WAS LIKE VERY SELF-CONGRATULATORY WITHOUT
21 PORTFOLIO, BUT THERE IS MORE DETAIL IN HERE. AND I
22 THINK, IN GENERAL, WE SHOULD TALK -- ALL OF THE
23 PATIENT ADVOCATES IN THE COMMUNITY SHOULD HAVE AS
24 GOOD A SENSE AS POSSIBLE OF WHAT REALLY WE HAVE
25 ACCOMPLISHED AND USING -- THE BENCHMARK THAT TEN

BARRISTERS' REPORTING SERVICE

1 STATED GOALS EARLIER WAS A GREAT WAY TO DO IT. I
2 WOULD SAY THAT WE SHOULD TRY AND -- I KNOW I HAVE TO
3 READ THIS MORE CAREFULLY, BUT THEN I WILL NEED
4 SOMEBODY WHO I CAN REALLY TALK TO DIRECTLY ABOUT IT
5 AT THE OFFICE AND SORT OF MAKE SUGGESTIONS AND BE
6 ABLE TO DO THAT IN A TIMELY FASHION. I IMAGINE YOU
7 MIGHT WANT THE SAME OPPORTUNITY.

8 MS. SAMUELSON: I THINK THAT'S RIGHT.
9 THANK YOU.

10 THE OTHER THING THAT WOULD BE HELPFUL IS
11 SOME DOCUMENTATION. I THINK IT WOULD BE VERY USEFUL
12 IF WE COULD GET DATA THAT SHOWS HOW THE MONEY HAS
13 BEEN FUNDED IN TERMS OF ITS IMPACT ON SPECIFIC
14 DISEASES AND THE STATUS OF THAT WORK. SO THAT WOULD
15 MEAN LOOKING AT THE RECORD OF FUNDING FOR INDIVIDUAL
16 GRANTS TO THE EXTENT THAT THEY PERTAIN TO THE
17 SPECIFIC DISEASES THAT ARE PART OF THE MISSION IN
18 THE LAW THAT WE HAVE TO FOLLOW AND HOW MUCH FUNDING
19 THEY GOT AND IN WHICH RFA CATEGORY. THAT'S
20 SOMETHING THAT WOULD HELP ME SEE HOW WE'RE EVOLVING
21 AND WHAT IMPACT IT SEEMS TO BE HAVING.

22 DR. FEIGAL: SO WHAT I CAN SAY IS THE
23 FIRST THING, AND EVEN IN THIS SLIDE, IT MAY SAY SEE
24 BACKGROUND PREREAD FOR THE DETAILS, IS GO THROUGH
25 THE PREREAD. AND THEN OBVIOUSLY IN A PREREAD,

BARRISTERS' REPORTING SERVICE

1 THERE'S ONLY -- THERE'S MOUNTAINS OF INFORMATION.
2 AND SO WE DO NEED TO DECIDE HOW TO PRESENT IT SO
3 THAT IT'S WHAT YOU WANT. BUT THEN AGAIN, WE DO WANT
4 TO MAKE SOME PROGRESS WITH GETTING A STRATEGIC PLAN
5 OUT THERE. WE CAN THINK ABOUT WAYS TO HAVE INPUTS
6 AND DIALOGUE, I GUESS, BEFORE THE NEXT BOARD
7 MEETING, AND WE'RE HAPPY TO DO THAT. YOU JUST
8 SUGGEST HOW WE CAN HAVE THOSE CONVERSATIONS WITH THE
9 BOARD MEMBERS.

10 MS. SAMUELSON: THAT'S MY FIRST REQUEST
11 AND ONE FOR TODAY. THAT WOULD BE VERY HELPFUL, AND
12 THEN I'LL DO MY HOMEWORK REVIEWING THE RESULTS OF
13 ALL OF THE APPLICATIONS IN RESPONSE TO RFA'S THAT
14 WERE TRANSLATIONAL AND CLINICAL IN NATURE.

15 CHAIRMAN THOMAS: JOAN, JUST TO MAKE SURE
16 I UNDERSTAND. WE'RE GETTING THE DISEASE TEAM --
17 EXACTLY, I THINK, WHAT YOU'RE LOOKING FOR WILL BE
18 PRESENTED TODAY WITH RESPECT TO THOSE. YOU'RE
19 SAYING YOU WOULD IN ADDITION LIKE A SIMILAR SORT OF
20 REPORT ON, I GUESS IT'S, ET I AND II. IS THAT WHAT
21 WE'RE TALKING ABOUT HERE?

22 DR. FEIGAL: JUST SO WE KNOW, THERE'S
23 HUNDREDS OF AWARDS. WE DO NEED TO UNDERSTAND WHAT
24 IT IS YOU WANT.

25 CHAIRMAN THOMAS: SHE DID SAY

BARRISTERS' REPORTING SERVICE

1 TRANSLATIONAL.

2 MS. SAMUELSON: TRANSLATIONAL AND
3 CLINICAL.

4 CHAIRMAN THOMAS: SO SHE'S NOT TALKING
5 ABOUT THE BASIC RESEARCH.

6 DR. FEIGAL: SO WE HAVE 43 AT LEAST.

7 CHAIRMAN THOMAS: OF WHICH 14 YOU'RE
8 DISCUSSING TODAY, CORRECT?

9 DR. FEIGAL: CORRECT.

10 MR. SHESTACK: THERE IS A LOT OF
11 INFORMATION IN THE APPENDIX HERE. AND THEN I THINK
12 IF WE LOOK AT IT CAREFULLY, WE CAN HAVE SPECIFIC
13 QUESTIONS BACK FOR THEM, AND THEN ASK FOR ADDITIONAL
14 KINDS OF BREAKDOWNS OR REPORTS. I THINK YOU'RE
15 LOOKING FOR A LOT OF INFORMATION ON AWARD TYPE AND
16 DISEASE TARGETED AND OUTCOME AND SORT OF TRYING TO
17 TRACK A RELATIONSHIP IF THERE IS ONE. SO WE SHOULD
18 TRY AND FIGURE OUT A WAY TO ASK THE QUESTION AS
19 SUCCINCTLY AS POSSIBLE AND GIVE THEM AN OPPORTUNITY
20 TO ANSWER IT. I DON'T THINK THEY CAN DO IT RIGHT
21 NOW. IF YOU GIVE US SOMEBODY, AND MAYBE IT'S YOU,
22 ELLEN, WE CAN TALK TO ABOUT IT AND ASK SPECIFIC
23 QUESTIONS, THAT WOULD BE GREAT.

24 DR. TROUNSON: CHAIR, CAN I MAKE A
25 SUGGESTION, THAT THE BOARD MEMBERS WHO WANT MORE

BARRISTERS' REPORTING SERVICE

1 INFORMATION, IF THEY COULD CONTACT US AND WE WILL
2 TRY AND SET ABOUT PROVIDING SOMEBODY TO BE ABLE TO
3 ANSWER THOSE QUESTIONS IN A TIMELY FASHION. SO
4 THOSE BOARD MEMBERS WHO WANT MORE INFORMATION, IF
5 THEY COULD CONTACT US EITHER DIRECTLY OR THROUGH --

6 MR. SHESTACK: WHILE WE'RE ON THAT
7 SUBJECT, FOR THREE YEARS I'VE BEEN ASKING. THERE'S
8 NO WAY ON THE WEBSITE AND NO OTHER WAY EASILY FOR
9 BOARD MEMBERS TO KNOW WHICH STAFF MEMBER IS
10 RESPONSIBLE FOR WHICH AREA OF THE GRANTS OR TO
11 ACTUALLY JUST -- OUR NAMES ARE HERE. YOU GUYS ARE
12 HERE AT EVERY MEETING, BUT YOUR NAMES AREN'T HERE.
13 SOMETIMES YOU CHANGE. I SEE YOU ONCE EVERY FOUR
14 MONTHS. IT WOULD BE GREAT IF THERE WAS JUST A WAY
15 WE KNEW WHAT PEOPLE WERE A LITTLE BIT MORE EXPERT OR
16 RESPONSIBLE AND COULD HAVE A MORE PRODUCTIVE
17 DIALOGUE.

18 DR. TROUNSON: IF IT COMES FROM MARIA'S
19 OFFICE OR DIRECTLY TO MINE, WE CAN ENSURE WE DO THAT
20 BECAUSE THERE'S A WIDE VARIETY OF PEOPLE. AND I
21 WANT THEM TO BE AVAILABLE TO ANSWER THE KIND OF
22 QUESTIONS YOU WANT TO ASK, SO IT MAY BE BETTER TO
23 HAVE ONE SORT OF PERSON OR ANOTHER. SO I'M HAPPY TO
24 DO THAT. IF WE DO IT THROUGH MARIA OR THROUGH MY
25 OFFICE, THEN I THINK WE CAN GET IT. WE ARE HAPPY TO

BARRISTERS' REPORTING SERVICE

1 TAKE TIME TO MEET WITH YOU TO CLEAR UP OR TO HELP
2 ADDRESS SPECIFIC ISSUES THAT ARE EVOLVING.

3 CHAIRMAN THOMAS: I THINK THAT'S A GOOD
4 SUGGESTION. I WOULD SAY THAT THE KINDS OF
5 INFORMATION THAT JOAN AND JON ARE ASKING FOR WOULD
6 BE OF INTEREST TO ALL MEMBERS OF THE BOARD. SO
7 WHATEVER YOU CAN PRODUCE ON THAT AND UPDATE THE FULL
8 BOARD, THAT WOULD BE APPRECIATED.

9 DR. STEWARD: I APPRECIATE THAT THERE'S A
10 LOT OF STAFF TIME THAT WOULD BE INVOLVED IN THIS.
11 ON THE OTHER HAND, THIS IS ALSO THE KIND OF THING
12 THAT IT WOULD BE PERFECTLY FAIR TO ASK THE GRANTEES
13 TO PROVIDE. I THINK WHAT JOAN IS LOOKING FOR IS A
14 VERY CRISP DOCUMENT THAT IN MAYBE A PAGE SUMMARIZED
15 ANSWERS TO A COUPLE OF KEY QUESTIONS ABOUT REALLY
16 ACCOMPLISHMENTS RELATED TO TRANSLATABILITY. MAYBE
17 WE COULD JUST SEND OUT A SIMPLE THING AND REQUIRE
18 THE GRANTEES TO RESPOND TO IT TO PROVIDE SOMETHING
19 ALONG THOSE LINES, AGAIN, IN A CONSISTENT FORMAT, IN
20 A FORM THAT WOULD BE LAY LANGUAGE AND USEFUL TO ALL
21 BOARD MEMBERS.

22 DR. FEIGAL: THE ONLY THING I WOULD SAY WE
23 CAN FIGURE OUT HOW TO GET YOU WHAT YOU NEED; BUT IF
24 IT'S GOING TO THE BOARD, WE DO HAVE TO CONSIDER IT'S
25 A PUBLIC DOCUMENT. SO WE HAVE TO TAKE THOSE THINGS

BARRISTERS' REPORTING SERVICE

1 INTO ACCOUNT AS WELL, BUT WE'LL FIGURE OUT HOW TO
2 GET YOU THE ANSWERS. WHAT WE NEED TO KNOW IS --
3 MAKE SURE WHAT YOUR QUESTIONS ARE. AND IN PURSUIT
4 OF TRYING TO KEEP THE STRATEGIC PLAN SOMEWHAT ON
5 TRACK, INITIALLY WE WERE GOING TO PRESENT A FINAL
6 VERSION TODAY, BUT THE DECISION WAS MADE LET'S HAVE
7 A DISCUSSION ON FUNDING PRIORITIES AND STRATEGIES.
8 IF WE ARE STILL GOING TO SET FOR A TRAJECTORY OF
9 MAY, FIGURE OUT HOW TO DO IT UNLESS YOU WANT TO PUT
10 IT OFF TO ANOTHER TIME. BUT IF WE DO WANT TO DO IT
11 IN MAY, THEN LET'S FIGURE OUT A WAY TO GET THE
12 QUESTIONS ANSWERED IN BETWEEN BOARD MEETINGS.

13 CHAIRMAN THOMAS: WE WANT TO HAVE A FINAL
14 VOTE IN MAY FOR A VARIETY OF REASONS. I THINK MR.
15 SHEEHY HAD HIS HAND UP.

16 MR. SHEEHY: I JUST WANT TO SAY AS
17 SOMEBODY WHO'S READ EVERYTHING AND FOLLOWS THIS
18 PRETTY CLOSELY, I ACTUALLY THINK A LOT OF THE
19 DISEASE-SPECIFIC INFORMATION IS ON THE WEBSITE. IF
20 YOU GO AND LOOK -- LIKE I MONITOR THE HIV STUFF
21 FAIRLY CLOSELY. I READ THIS DOCUMENT. I THOUGHT
22 DR. FEIGAL AND STAFF HAVE DONE A GREAT JOB. YOU GO
23 THROUGH ALL THE APPENDICES, THERE ACTUALLY IS A
24 TREMENDOUS AMOUNT OF INFORMATION. NOW, IT'S NOT
25 NECESSARILY DISEASE SPECIFIC, BUT I WOULD REALLY

BARRISTERS' REPORTING SERVICE

1 HOPE -- THERE'S A LOT OF WORK THAT'S GONE INTO THIS
2 SO FAR, AND I THINK DUANE ROTH MENTIONED THAT. I
3 THINK THIS IS GREAT. I LIKE THE METRICS IN IT,
4 WHICH IS VERY IMPORTANT TO HAVE SOME KEY
5 DELIVERABLES THAT ARE PUT OUT THERE WITH NUMBERS.

6 SO IF WE ARE GOING TO ASK STAFF FOR STUFF,
7 LET'S JUST BE REALLY CLEAR ABOUT WHAT WE'RE ASKING
8 FOR AND READ EVERYTHING THAT WE HAVE, LOOK ON THE
9 WEBSITE BEFORE WE START SAYING -- OTHERWISE, I DON'T
10 THINK WE'LL HAVE A STRATEGIC PLAN. IT MIGHT BE NEXT
11 CHRISTMAS.

12 MR. SHESTACK: JEFF, I AGREE. I THINK
13 THAT THE APPENDICES ARE FILLED WITH A LOT OF VERY
14 DETAILED, GRANULAR INFORMATION. I UNDERSTAND WHAT
15 JOAN'S SAYING. I JUST WANT TO MAKE SURE THAT WE
16 HAVE THE OPPORTUNITY TO LIKE ASK SOME MORE SPECIFIC
17 QUESTIONS IF WE NEED THEM. AND I DO AGREE, IF YOU
18 READ IT CAREFULLY, THERE'S A LOT OF INFORMATION IN
19 HERE WITH PERSPECTIVE.

20 DR. TROUNSON: JUST FOR JOAN, WE DO HAVE
21 THIS WORKSHOP COMING UP IN PARKINSON'S WHERE WE'RE
22 BRINGING REALLY ALL THE PEOPLE ACROSS THE U.S. AND
23 WORLD TOGETHER. AND SO THERE WILL BE A REPORT
24 EVOLVING OUT OF THAT. SO I WOULD HAVE THOUGHT THAT
25 THAT WOULD BE A REALLY BIG SYNC OF IMPORTANT

BARRISTERS' REPORTING SERVICE

1 INFORMATION FOR PARKINSON'S DISEASE.

2 MS. SAMUELSON: WONDERFUL.

3 DR. TROUNSON: OTHER CONDITIONS POSSIBLY
4 NOT SO WELL VISITED MORE RECENTLY, BUT WE'LL PROVIDE
5 AS MUCH INFORMATION AS WE CAN IN A TIMELY FASHION
6 FOR YOU.

7 DR. PIZZO: THIS IS PHIL. CAN I RAISE A
8 QUESTION? FIRST OF ALL, I WANT TO ECHO WHAT OTHERS
9 HAVE SAID. THIS HAS BEEN AN OUTSTANDING SUMMARY AND
10 A GREAT PRESENTATION. I HAVE A SLIGHTLY NUANCED
11 ADDITION, WHICH IS THE REPORT IN A SENSE LEADS TO A
12 CONCLUSION OF A JOB WELL DONE. AND I THINK THAT IN
13 SOME WAYS, IN TERMS OF OUR OWN CONCLUSIONS AND THE
14 PUBLIC REVIEW OF THIS, WE MAY BE CONVEYING THAT OUR
15 EFFORTS ARE ALL COMPLETED, WHICH IS HARDLY THE CASE.
16 I WOULD VERY MUCH WELCOME SEEING AS PART OF THE
17 STRATEGIC PLAN A LIST OF, AS BEST AS WE CAN DEFINE
18 THEM, KEY INITIATIVES AND QUESTIONS THAT ARE LIKELY
19 TO TRANSCEND AND GO BEYOND THE FIVE-YEAR PERIOD TO
20 MAKE CLEAR TO THOSE WHO READ IT THAT THERE'S A LOT
21 MORE WORK THAT NEEDS TO BE DONE THAN JUST THE
22 CONCLUSIONS WE SEEM TO BE REACHING AT THIS JUNCTURE
23 IN TIME.

24 DR. FEIGAL: THAT'S AN INTERESTING NUANCE.
25 WHEN WE FIRST STARTED WITH THE STRATEGIC PLAN BACK

BARRISTERS' REPORTING SERVICE

1 IN AUGUST, WE DID HAVE A QUESTION, SHOULD WE FOCUS
2 IT ON THE NEXT FIVE YEARS, OR SHOULD WE HAVE MORE OF
3 A VISION THAT WOULD TRANSCEND THE LIFE SPAN, AT
4 LEAST CURRENTLY, OF HOW THINGS ARE. AND THE
5 DECISION WAS MADE AT THAT TIME TO FOCUS IT HERE. IF
6 WE'RE GOING TO FOCUS IT BEYOND, I THINK THAT'S GOING
7 TO TAKE ANOTHER DISCUSSION.

8 DR. PIZZO: WHAT I'M THINKING, ELLEN, IS
9 THE FOLLOWING: THE SUMMARY AND THE REPORT FOCUSING
10 ON THE NEXT FIVE YEARS IS TERRIFIC, AND I THINK THAT
11 WAS A WISE DECISION. BUT TO THE READERS BOTH PUBLIC
12 AND PRIVATE, FUNDERS AND OTHERS, THEY'LL LOOK AT
13 THIS TO SAY, WELL, THE JOB OF CIRM HAS BEEN
14 COMPLETED. WE FULFILLED THE GOALS THAT WE SET OUT
15 TO DO. AND I DON'T, FOR ONE, BELIEVE THAT'S GOING
16 TO BE THE CASE AT ALL.

17 SO I THINK WE NEED TO HAVE IN THIS AS AN
18 EXTENSION OF IT A CLEAR DELINEATION THAT, A, STATES
19 THAT AND, B, BEGINS TO OUTLINE SOME OF THE REALLY
20 IMPORTANT CHALLENGES THAT ARE STILL LIKELY TO STAND
21 BEFORE US SO THAT IT APPEARS TO BE WHAT IT SHOULD
22 BE, AN ORGANIC DOCUMENT THAT WILL CONTINUALLY EVOLVE
23 OVER TIME. AND IT WILL NEED AN ADDITIONAL REPORT TO
24 MAKE THE INVESTMENT FULLY REALIZED OVER THE NEXT 10
25 OR 15 OR 20 YEARS.

BARRISTERS' REPORTING SERVICE

1 DR. FEIGAL: I HEAR WHAT YOU ARE SAYING,
2 AND I THINK WE ALL ACTUALLY CAN AGREE WITH THAT
3 SENTIMENT. I'M JUST THINKING OUT LOUD IN TERMS OF
4 HOW DO I GET THE NECESSARY INPUTS TO ACTUALLY GO
5 BEYOND THAT NEXT FIVE YEARS, BUT WE CAN TALK ABOUT
6 THAT OFFLINE PERHAPS.

7 DR. PIZZO: OKAY. I'M HAPPY TO.

8 CHAIRMAN THOMAS: THANK YOU, PHIL. JOAN.

9 MS. SAMUELSON: I'LL PUT IT ALL IN WRITING
10 AND SHARE IT WITH THE REST OF THE BOARD.

11 CHAIRMAN THOMAS: I THINK DR. STEWARD IS
12 RIGHT. THERE REALLY IS NO NEED FOR A MOTION HERE.
13 THIS IS JUST AN INFORMATIVE SESSION TO GIVE DR.
14 FEIGAL ADDITIONAL TAKEAWAYS TO REFINE.

15 MR. ROTH: THAT WAS THE BASIS OF THE
16 MOTION WAS JUST TO BASICALLY BRING BACK IN MAY THE
17 FINAL VERSION. BUT THE QUESTION WAS WERE THE
18 FIVE-YEAR GOALS AS PRESENTED, THE ONE-YEAR AND
19 FIVE-YEAR, ON THE RIGHT DIRECTION, RIGHT TRACK. AND
20 THAT'S ALL I WAS TRYING TO REINFORCE. SO IF WE
21 DON'T NEED A MOTION, I'M HAPPY TO WITHDRAW THE
22 MOTION.

23 CHAIRMAN THOMAS: THANK YOU. WITHDRAWN
24 SECOND. THANK YOU.

25 JAMES, IS THIS WHERE WE HAVE TO GO BACK

BARRISTERS' REPORTING SERVICE

1 AND REVISIT THE CREATIVITY AWARD VOTE? JUST
2 KIDDING. SO I THINK THAT WE NOW HAVE PUBLIC
3 COMMENT. MR. REED.

4 MR. REED: I WAS GLAD TO HEAR DR. PIZZO
5 SAY THAT BECAUSE I SEE THIS AS A SALES DOCUMENT FOR
6 PROPOSITION 71, PART 2. WE'RE GOING TO HAVE TO HAVE
7 SOME KIND OF A PART 2, WHETHER IT'S A GOVERNMENT
8 THING OR WHETHER IT'S PRIVATE DONATIONS, WHATEVER.
9 THIS IS TOO VALUABLE TO NOT BE SUSTAINED. EVERYONE
10 AGREES ON THAT.

11 THIS IS GOING TO BE THE DOCUMENT PEOPLE
12 WILL LOOK AT FIRST. I JUST RECENTLY LOOKED UP A
13 LIST OF THE PEOPLE WHO DONATED TO PROP 71. ONLY
14 ABOUT A HUNDRED PEOPLE DONATED ABOVE \$5,000 AND
15 MORE. THIS INCLUDED PEOPLE LIKE GATES. I THINK
16 EVERY ONE OF THOSE DONORS AND THE MORE THAN 80
17 PATIENT ADVOCATE GROUPS SHOULD GET A COPY OF THIS SO
18 THEY CAN SEE WHAT WE'RE DOING, WHAT WE'VE
19 ACCOMPLISHED, AND KNOW WHY THEY MUST SUPPORT US EVEN
20 HARDER NEXT TIME, NOT THINK OUR JOB IS DONE.

21 CHAIRMAN THOMAS: THANK YOU, MR. REED.

22 MR. TORRES: ON THAT POINT, DON, MAYBE YOU
23 ARE AWARE, BUT 80 PERCENT OF THE SALES FOR THE
24 BONDS, THE REVENUE BONDS, TO HELP US OUT WERE
25 PURCHASED BY PRIVATE INDIVIDUALS, NOT INSTITUTIONS,

BARRISTERS' REPORTING SERVICE

1 NOT OTHER TYPES OF ENTITIES, BUT PRIVATE
2 INDIVIDUALS. THAT'S QUITE A STATEMENT FOR A
3 CALIFORNIA BOND.

4 MR. REED: THAT'S HUGE AND THOSE PEOPLE
5 SHOULD BE GIVEN A COPY OF THIS SO THEY CAN KNOW
6 WHERE THEIR MONEY WENT AND IT WAS WORTHWHILE.

7 CHAIRMAN THOMAS: THANK YOU. OBVIOUSLY,
8 AS WE'VE SAID BEFORE, WITH RESPECT TO FUTURE
9 FUNDING, WE'RE IN THE PROCESS OF ANALYZING A VARIETY
10 OF ALTERNATIVES AND HAVE MADE NO DECISIONS, BUT WE
11 FIRMLY AGREE ON THE NOTION THAT THE MISSION SHOULD
12 BE SUSTAINED, FOR SURE.

13 SO WITH THAT, THANK YOU, DR. FEIGAL, FOR A
14 VERY GOOD PRESENTATION. LIKE TO TURN IT OVER NOW TO
15 PART 2 OF ITEM 9 TO DR. OLSON.

16 DR. OLSON: THANK YOU, MR. CHAIR, MEMBERS
17 OF THE BOARD. SO TODAY WHAT I'D LIKE TO DO IS
18 PROVIDE A FRAMEWORK FOR DISCUSSION ON DISTRIBUTION
19 OF THE REMAINDER OF THE CURRENT BOND ALLOCATION.
20 YOU'VE HEARD -- WE'VE BEEN TALKING NOW OVER SEVERAL
21 BOARD MEETINGS ABOUT THE STRATEGIC PLAN. YOU'VE
22 BEEN PRESENTED WITH THE KEY STRATEGIC OBJECTIVES,
23 THE KEY OUTCOMES WE HOPE TO GET. YOU'VE HEARD FROM
24 ELLEN TODAY ABOUT OUR FIVE-YEAR GOALS, AND THEN OUR
25 ONE-YEAR GOALS THAT HOPEFULLY WOULD PUT US ON TRACK

BARRISTERS' REPORTING SERVICE

1 TO ACHIEVE THOSE GOALS.

2 WHAT I WOULD ASK YOU TO CONSIDER AND WHAT
3 THE PURPOSE OF THIS DISCUSSION IS TODAY IS TO THINK
4 ABOUT HOW WE WILL ALLOCATE THE MONEY -- FIRST I'D
5 LIKE TO TALK ABOUT HOW WE HAVE ALLOCATED THE MONEY.
6 THEN I'D LIKE TO TALK ABOUT THE ALLOCATION THAT HAS
7 ALREADY BEEN CONCEPT APPROVED, AND THEN I'D LIKE TO
8 TALK ABOUT CONSIDERATIONS FOR FUTURE FUNDING. AND
9 I'D LIKE TO TALK ABOUT IT IN THE CONTEXT OF THESE
10 FIVE-YEAR GOALS, THE KEY OUTCOMES, AND THE STRATEGIC
11 OBJECTIVES.

12 SO FIRST, I'M NOT GOING TO TALK ABOUT
13 SPECIFIC RFA'S. I'M GOING TO TALK ABOUT CATEGORIES
14 OF FUNDING. I JUST WANT TO MAKE SURE WE HAVE A
15 COMMON UNDERSTANDING OF THE CATEGORIES THAT I'M
16 TALKING ABOUT, THE DEFINITIONS THAT I'LL USE BECAUSE
17 THEY'RE A LITTLE BIT -- TRANSLATION GETS BANDIED
18 ABOUT. AND THESE ARE THE DEFINITIONS THAT I AM
19 GOING TO BE USING FOR THIS DISCUSSION.

20 SO WHEN WE TALK ABOUT FUNDING FACILITIES
21 OR CORE RESOURCES, WE'RE TALKING ABOUT PROGRAMS IN
22 THE PAST THAT WE HAVE FUNDED THAT RESULTED IN NEW
23 AND REMODELED FACILITIES TO EXPAND OUR CAPACITY TO
24 HOUSE RESEARCHERS IN CALIFORNIA. WE'RE ALSO TALKING
25 ABOUT PROGRAMS THAT PROVIDE A CORE RESOURCE TO STEM

BARRISTERS' REPORTING SERVICE

1 CELL RESEARCHERS. SHARED LABORATORIES ARE A GOOD
2 EXAMPLE OF THAT.

3 WHEN I TALK ABOUT FUNDING IN A TRAINING OR
4 CAREER DEVELOPMENT CATEGORY, I'M TALKING ABOUT THOSE
5 PROGRAMS WHOSE FOCUS IS BROADENING AND/OR
6 STRENGTHENING THE POOL OF STEM CELL RESEARCH,
7 SEEDING THE FIELD, CREATING THE BASIS FOR GROWTH AND
8 FOR CONTINUED RESEARCH GOING FORWARD. DR. PIZZO
9 MENTIONED WHAT DOES THIS MEAN GOING FORWARD. WE'RE
10 CREATING A WHOLE CADRE OF RESEARCHERS.

11 WHEN I TALK ABOUT BASIC RESEARCH, THAT IS
12 FUNDING FOR RESEARCH THAT ADDRESSES THE FUNDAMENTALS
13 OF STEM AND PROGENITOR CELL BIOLOGY. IT'S QUESTIONS
14 ABOUT MECHANISM. IT'S THE DISCOVERIES THAT ARE THE
15 BASIS FOR PATENT APPLICATIONS. IT'S THE BASIS FOR
16 WHAT I'LL CALL THE NEXT CATEGORY, TRANSLATIONAL
17 RESEARCH WHERE THE FOCUS IS ON TRANSLATING THE BASIC
18 RESEARCH DISCOVERIES TO POTENTIAL THERAPEUTICS.
19 IT'S THE STUDIES WHERE YOU HAVE A HYPOTHESIS, AND
20 YOU DO A PROOF OF CONCEPT IN AN ANIMAL MODEL, THAT
21 YOUR HYPOTHESIS ABOUT A MECHANISM OF ACTION MAY
22 ACTUALLY HAVE SOME RELEVANCE TO A DISEASE. IT'S
23 ABOUT ADDRESSING THE BOTTLENECKS TO TRANSLATION,
24 SOME OF OUR TOOLS AND TECHNOLOGIES AWARDS.

25 AND THEN, FINALLY, THE CATEGORY THAT I'LL

BARRISTERS' REPORTING SERVICE

1 CALL DEVELOPMENT RESEARCH. SO HERE THE FOCUS IS
2 ACTUALLY ON NOW TAKING THOSE PRECLINICAL CONCEPTS,
3 IF YOU LIKE, AND ACTUALLY THE PREPARATION FOR AND
4 THE CONDUCT OF CLINICAL TESTING IN HUMANS OF A STEM
5 OR CELL-BASED THERAPEUTIC CANDIDATE.

6 I DO WANT TO MAKE THE POINT, WE'VE TALKED
7 TO YOU BEFORE ABOUT OUR TRANSLATIONAL PORTFOLIO.
8 OUR TRANSLATIONAL PORTFOLIO INCLUDES VIRTUALLY
9 EVERYTHING THAT FALLS IN THE DEVELOPMENT RESEARCH
10 CATEGORY WITH THE EXCEPTION OF PLANNING AWARDS. AND
11 IT INCLUDES A SUBSET OF THE PROJECTS THAT ARE IN THE
12 TRANSLATIONAL RESEARCH CATEGORY. SO IT DOESN'T, FOR
13 EXAMPLE, INCLUDE TOOLS AND TECHNOLOGIES. SO I JUST
14 WANT TO MAKE SURE THAT WE HAVE A COMMON
15 UNDERSTANDING ABOUT THAT.

16 LET ME REMIND YOU JUST OF WHAT WE'VE DONE.
17 SO IF YOU LOOK AT THE -- THIS BOARD HAS AWARDED AND
18 WE HAVE ALLOCATED OR WILL BE ALLOCATING MONEY TO
19 PROGRAMS REPRESENTING \$1.29 BILLION. YOU CAN SEE
20 THAT IN LARGE PART THIS IS -- ROUGHLY HALF OF IT HAS
21 GONE INTO WHAT I'LL CALL INFRASTRUCTURE, WHETHER IT
22 BE PHYSICAL INFRASTRUCTURE, THE FACILITIES, OR
23 WHETHER IT BE INTELLECTUAL STRUCTURE IN TRAINING
24 CAREER DEVELOPMENT. ROUGHLY EQUAL AMOUNTS HAVE BEEN
25 DISTRIBUTED TO THE BASIC, TRANSLATIONAL, AND

BARRISTERS' REPORTING SERVICE

1 DEVELOPMENTAL RESEARCH CATEGORY.

2 THE GRAPH ON THE BOTTOM GIVES VERY MUCH A
3 SENSE OF IT SHOWS YOU, IN ESSENCE, THE HISTORY OF
4 OUR INSTITUTE. IT SHOWS YOU HOW A LOT OF OUR
5 INITIAL FUNDING WAS IN THOSE INFRASTRUCTURE. THE
6 RED BEING THE FACILITIES. SO THAT BIG BAR IN 2007
7 AND 8, THAT WAS WHEN WE STARTED FUNDING THE MAJOR
8 FACILITIES. SO YOU SEE A HISTORY. YOU CAN SEE, AND
9 WE'VE SEEN THIS IN OTHER FORMATS, THAT IT WAS IN
10 2009 AND 10 THAT WE ACTUALLY STARTED FUNDING THE
11 TRANSLATIONAL AND THE DEVELOPMENT RESEARCH. SO THIS
12 IS A HISTORY OF WHAT IT'S BEEN TO DATE.

13 I THINK WE CAN ALL BE PROUD. YOU'VE ALL
14 HEARD ELLEN MENTION THE PROGRESS AND THE
15 ACCOMPLISHMENTS ON OUR FIVE-YEAR GOALS THAT YOU
16 APPROVED WITH THE 2006 PLAN. THE THINGS THAT YOU'VE
17 HEARD ALAN AND MANY OF US TALK ABOUT IN TERMS OF THE
18 ACCOMPLISHMENTS OF THE INSTITUTE, THE 12 NEW
19 INSTITUTIONS, THE THOUSAND PAPERS PUBLISHED, MANY IN
20 HIGH IMPACT JOURNALS, BUT IT'S ALSO THE INTANGIBLES.
21 IT'S ESSENTIALLY HAVING CALIFORNIA RECOGNIZED AS A
22 NEXUS AND A LEADER, THAT CALIFORNIA HAS ESSENTIALLY,
23 I THINK, PROVIDED A BIT OF THE DRIVING OF FOCUS ON
24 STEM CELL RESEARCH WORLDWIDE. SO IT'S MORE OF THOSE
25 INTANGIBLES.

BARRISTERS' REPORTING SERVICE

1 ELLEN HAS SPENT SOME TIME NOW TALKING TO
2 YOU ABOUT ESSENTIALLY THE STRATEGIC OBJECTIVES, THE
3 KEY OUTCOMES, AND THE FIVE-YEAR GOALS. AND I WANT
4 TO SPEND A LITTLE BIT OF TIME BECAUSE REALLY THIS IS
5 WHAT IS DRIVING -- I THINK NEEDS TO DRIVE OUR
6 CONSIDERATION IN FUTURE RESEARCH FUNDING. SO YOU'VE
7 HEARD ABOUT -- IN THE SCIENTIFIC GOALS, YOU'VE HEARD
8 ABOUT UNDERSTANDING A LOT ABOUT SOME OF THE VERY
9 FUNDAMENTAL QUESTIONS IN STEM CELL BIOLOGY, ABOUT A
10 DESCRIPTION OF DIFFERENTIATION, ABOUT ESTABLISHING
11 PROOF OF PRINCIPLE. A LOT OF THESE CAN BE ACHIEVED
12 THROUGH SOME OF OUR CORE PROGRAMS IN BASIC BIOLOGY,
13 IN EARLY TRANSLATION, ACHIEVING TRANSFORMATIVE
14 RESEARCH DISCOVERIES. I MEAN IT'S WHEN YOU MAKE
15 THIS BREAKTHROUGH DISCOVERY IS WHEN YOU SAY, AHA, MY
16 HYPOTHESIS WORKS IN A MODEL. AND IT EVEN IS IN A
17 CLINIC WHEN YOU GET PROOF OF PRINCIPLE. SO I THINK
18 A LOT OF WHAT WE DO SPEAKS TO THAT.

19 I WANT TO FOCUS YOUR ATTENTION, THOUGH, ON
20 THE CLINICAL GOALS THAT WE JUST TALKED ABOUT, THE
21 FUNDED TEN THERAPIES IN PHASE I OR PHASE II CLINICAL
22 TRIALS IN AT LEAST FIVE DIFFERENT THERAPEUTIC AREAS.
23 AND I WANT TO ASK YOU TO REMEMBER THAT ONE. BUT
24 THEN I WANT TO ALSO ASK YOU TO REALLY LOOK AT WHAT
25 WE SAY IN THE ONE HIGHLIGHTED IN RED. WE SAY WE

BARRISTERS' REPORTING SERVICE

1 WILL IN FIVE YEARS HAVE ACHIEVED CLINICAL PROOF OF
2 CONCEPT THAT TRANSPLANTED CELLS, SO WHAT THIS MEANS
3 IS A CELL THERAPY, DERIVED FROM PLURIPOTENT OR
4 PROGENITOR CELLS CAN BE USED TO RESTORE FUNCTION IN
5 AT LEAST ONE DISEASE OR INJURY CONDITION.

6 SO CLINICAL PROOF OF CONCEPT MEANS
7 SUCCESSFUL COMPLETION OF A PHASE II STUDY,
8 TYPICALLY. OKAY. WHAT DOES THIS MEAN? BECAUSE
9 THIS IS ACTUALLY -- AND I WANT TO TALK ABOUT WHY I
10 WOULD ASK YOU TO CONSIDER THIS TO BE A KEY DRIVER
11 FOR THE FUNDING STRATEGY. THIS PARTICULAR GOAL, AND
12 WHY DO I THINK IT REALLY IS A KEY DRIVER FOR THE
13 FUNDING STRATEGY? LET'S TALK A LITTLE BIT ABOUT
14 DRUG DEVELOPMENT. AND I'LL TALK ABOUT INDUSTRY
15 STATISTICS, AND THERE IS AN APPENDIX IN THE DOCUMENT
16 PROVIDED TO YOU AS A PREREAD THAT CITES SOME, BUT I
17 WOULD SAY TO YOU THAT THIS INFORMATION, ESPECIALLY
18 THE COST INFORMATION, COMES NOT JUST FROM THAT, BUT
19 FROM OUR DISCUSSIONS WITH PEOPLE IN BIOTECHNOLOGY,
20 FROM OUR DISCUSSIONS WITH PEOPLE IN PHARMA, AND FROM
21 OUR TALKING TO -- FROM ACTUALLY MANY OF US HAVE
22 EXPERIENCE IN THE BIOTECHNOLOGY INDUSTRY OURSELVES.

23 SO BASED ON INDUSTRY STATISTICS, AND I
24 THINK ELLEN ALLUDED TO THIS TOO IN HER DISCUSSION,
25 WHAT DO WE TALK ABOUT IN TERMS OF TIME WHEN WE TALK

BARRISTERS' REPORTING SERVICE

1 ABOUT CLINICAL DEVELOPMENT? AND I SHOULD ALSO MAKE
2 THE POINT, INDUSTRY STATISTICS ARE DRIVEN BY THE
3 BIOTECH AND THE PHARMA INDUSTRY. THEY ARE
4 PREDOMINANTLY SMALL MOLECULE FOCUSED, INCREASINGLY
5 BIOLOGICS, MONOCLONAL ANTIBODIES, BUT THERE IS A LOT
6 OF INFORMATION BACK HERE. SO THEY'RE FOR
7 THERAPEUTIC CANDIDATES THAT HAVE WELL-KNOWN PATHS.

8 OKAY. IN PHASE I, TYPICAL TIMES ARE FROM
9 ONE TO TWO YEARS. IN PHASE II, TYPICAL TIMES TO GO
10 THROUGH A PHASE II TRIAL IS FROM TWO TO FOUR YEARS.
11 SO IF WE LOOK AT PHASE I-II TOGETHER, WE WOULD HAVE
12 TO SAY AT THE MINIMUM IT WILL TAKE -- FOR SOMETHING
13 ENTERING PHASE I WILL TAKE A MINIMUM OF AROUND THREE
14 YEARS AND A MAXIMUM FOR AROUND SIX YEARS. WHEN WE
15 TALK ABOUT PROBABILITY OF SUCCESS, I KNOW WE WOULD
16 ALL LOVE TO THINK THAT EVERYTHING THAT WE PUT IN THE
17 CLINIC WILL BE SUCCESSFUL. UNFORTUNATELY THAT IS
18 NOT THE -- THAT'S JUST NOT TRUE. IN AN IN VITRO
19 SYSTEM, YOU CANNOT IN PRECLINICAL MODELS, YOU CANNOT
20 DEFINE HOW THE HUMAN BODY IS GOING TO RESPOND, OR
21 IF, IN FACT, HOW CENTRAL IS YOUR HYPOTHESIS OF
22 IMPACT ON DISEASE REALLY GOING TO PLAY OUT IN THE
23 CLINIC. IN FACT, THAT'S WHY THEY CALL IT CLINICAL
24 RESEARCH. THAT'S THE STAGE WHERE WE FIND OUT DO
25 THINGS WORK IN PEOPLE.

BARRISTERS' REPORTING SERVICE

1 SO WHAT THAT MEANS IS THAT IT IS THE CASE,
2 AND THIS IS UNFORTUNATELY TRUE, THAT IN GENERAL ONE
3 IN FIVE CANDIDATES THAT INITIATE PHASE I WILL
4 SUCCESSFULLY COMPLETE A PHASE II TRIAL, WILL GIVE
5 YOU THE PROOF OF CONCEPT AT A CERTAIN LEVEL OF
6 CERTAINTY, NOT ABSOLUTELY. THAT'S WHY YOU DO PHASE
7 III TRIALS. BUT WILL GIVE YOU A GOOD INDICATION
8 THAT IT IS WORTH PROCEEDING. ONE OUT OF FIVE
9 UNFORTUNATELY, VERY UNFORTUNATELY, FAILURES TEND TO
10 OCCUR IN PHASE II RATHER THAN IN PHASE I. SO THAT'S
11 JUST SOMETHING THAT WE'RE WORKING WITH, AND THAT'S
12 WHAT WE'VE TRIED TO USE IN THINKING ABOUT THIS.

13 THE COSTS, AGAIN, BASED ON INDUSTRY
14 STATISTICS, BASED ON OUR DISCUSSIONS WITH MANY IN
15 THE INDUSTRY. CLINICAL DEVELOPMENT IS AN EXPENSIVE
16 PROPOSITION. PHASE I COSTS ROUGHLY 20 MILLION.
17 PHASE II COSTS FROM 25 TO 40 MILLION. SO YOU TALK
18 ABOUT A PROJECT IN BASIC BIOLOGY, ONE PROJECT WILL
19 COST YOU MAYBE \$1.5 MILLION. A CLINICAL PROJECT OR
20 A PROJECT IN THIS DEVELOPMENT SPACE WILL COST YOU
21 MORE ON THE ORDER OF, I WOULD SAY, THESE KINDS OF
22 NUMBERS. THESE ARE WHY OUR DISEASE TEAM PROJECTS
23 ARE PRICED THE WAY THEY ARE. NOT TO SAY THAT
24 EVERYBODY SHOULD GO THAT, BUT WE WANTED TO MAKE SURE
25 THAT WE COULD FUND ALL THE ACTIVITIES THAT IT

BARRISTERS' REPORTING SERVICE

1 ACTUALLY TOOK TO DO THE WORK.

2 OKAY. WHAT ARE THE IMPLICATIONS OF THIS?

3 IT JUST MEANS THAT A LARGER PERCENTAGE IN ORDER TO
4 ACHIEVE THIS GOAL THAT REQUIRES PLANNING IN ADVANCE
5 BECAUSE OF THE TIME FRAMES, BECAUSE OF THE COSTS,
6 BECAUSE OF THE PROBABILITIES OF TECHNICAL SUCCESS,
7 IN ORDER TO DO THAT, A LARGER PERCENTAGE OF OUR
8 RESEARCH FUNDING WILL GO TO DEVELOPMENT STAGE
9 PROJECTS, OR WE WOULD SUGGEST SHOULD GO TO
10 DEVELOPMENT STAGE PROJECTS IF YOU WANT TO INCREASE
11 YOUR LIKELIHOOD OF ACHIEVING THE GOAL.

12 GIVEN THE TIME FRAME AND GIVEN THE FIVE
13 YEARS FROM NOW OF THAT FIVE-YEAR GOAL, OVER THE NEXT
14 TWO YEARS, WE WOULD SUGGEST THAT WE SHOULD TARGET
15 THE FUNDING OF MERITORIOUS PROJECTS THAT ARE ALREADY
16 IN THE CLINIC. OUR MOST CHALLENGING PART OF THAT
17 GOAL IS FOR CELL THERAPY. SO, YOU KNOW, WE NEED TO
18 SEE IF THERE ARE GOOD PROJECTS THERE.

19 AND I WOULD JUST POINT OUT THAT THERE IS
20 AN ASSUMPTION HERE, AND IT IS A RISK, THE NUMBER OF
21 STRONG PROJECTS IN CALIFORNIA AT APPROPRIATE STAGES
22 IS DEVELOPMENT. AND THAT'S SOMETHING WE'LL SEE.
23 WE'LL SEE WHAT COMES TO US. WE'LL SEE IN THE
24 DISEASE TEAM PLANNING AWARDS. WE'LL SEE IN ALL
25 THESE PROJECTS. IT ALSO HAS AN IMPLICATION THAT

BARRISTERS' REPORTING SERVICE

1 PROJECTS THAT ENTER IND-ENABLING DEVELOPMENT THIS
2 YEAR ARE UNLIKELY TO BE ABLE TO COMPLETE A PHASE II
3 STUDY WITHIN THE FIVE YEARS. WHAT I DIDN'T SPEAK TO
4 WAS THE TIME IT TAKES TO BE AN IND-ENABLING
5 DEVELOPMENT. I WOULD ARGUE THAT THAT IS, AGAIN, FOR
6 A PROJECT THAT ACTUALLY ENTERS WITH A DEVELOPMENT
7 CANDIDATE, THAT'S ONE TO THREE YEARS AS WELL, ONE TO
8 TWO, ONE TO THREE.

9 SO, HOWEVER, ALL OF THESE PROJECTS ARE
10 PART OF OUR DEVELOPMENT PIPELINE. THEY ARE PART OF
11 MAYBE THEY WON'T HAVE COMPLETED A PHASE II IN 2017,
12 BUT MAYBE THEY'LL COMPLETE IT IN 2018 OR 2019. AND,
13 YOU KNOW, DR. PIZZO MENTIONED IT. DEVELOPMENT
14 DOESN'T STOP. PEOPLE'S DESIRE TO HAVE BETTER
15 THERAPIES, TO HAVE INNOVATIVE THERAPIES THAT CAN
16 REALLY MAKE A DIFFERENCE DOESN'T STOP. WE ARE NOT
17 GOING TO HAVE CURED ALL DISEASE IN FIVE YEARS. AND
18 SO THIS IS OUR WAY TO KEEP GOING, AND THIS IS WHAT
19 THAT OTHER PART OF THE GOAL, THAT WE ARE STILL -- WE
20 ARE FUNDING THINGS, WE ARE PUTTING THINGS IN THE
21 CLINIC, WE ARE MOVING THEM THROUGH.

22 SO WE HAVE \$1.48 BILLION LEFT. CURRENTLY
23 649 MILLION OF THAT HAS BEEN APPROVED IN CONCEPT BY
24 THIS BOARD. 836 MILLION IS AVAILABLE FOR FUTURE
25 PROGRAMS. AMONG THOSE CONCEPT APPROVED PROGRAMS

BARRISTERS' REPORTING SERVICE

1 WITH NEAR-TERM POTENTIAL TO CONTRIBUTE TO THE
2 CLINICAL STRATEGIC OBJECTIVE ARE THE DISEASE TEAM
3 THERAPY DEVELOPMENT, WHICH THIS BOARD HAS ALREADY
4 APPROVED PLANNING AWARDS FOR, WHICH WE WILL BE
5 REVIEWING IN APRIL, I BELIEVE, AND WHICH WILL COME
6 TO THIS BOARD IN JUNE, I BELIEVE.

7 THE STRATEGIC PARTNERSHIP PROGRAM, WHICH,
8 AS YOU WILL RECALL, THIS BOARD HAS APPROVED \$30
9 MILLION OF THIS. THIS IS THE IDEA OF REALLY GETTING
10 TOGETHER WITH PARTNERS WHO CAN HELP MOVE PROGRAMS
11 FORWARD. APPROVED PROJECTS IN BOTH PROGRAMS WILL BE
12 BROUGHT TO THIS BOARD ACTUALLY IN EITHER THIS FISCAL
13 YEAR OR EARLY NEXT FISCAL YEAR, BUT FUNDING WILL
14 CERTAINLY START IN FISCAL YEAR 12 AND 13.

15 JUST TO MAKE THE POINT THAT I DID, THAT
16 JUST BECAUSE OF THE NATURE OF THE COST OF
17 DEVELOPMENT PROJECTS, AND EVEN WHEN WE ASK FOR
18 CO-FUNDING, STILL YOU WILL RECALL THE TARGETED
19 CLINICAL DEVELOPMENT PROGRAM WITH GERON THAT
20 UNFORTUNATELY IS NO LODGER THERE, BUT NONETHELESS,
21 WE PUT FORTH 20 MILLION IN THAT PROGRAM AND THEY HAD
22 20 MILLION. THERE WAS A MATCH THERE. SO TO GET
23 THROUGH A PHASE I TRIAL IN THAT CASE, WE WERE
24 TALKING ABOUT \$40 MILLION.

25 SO WE ARE GOING TO BE PUTTING UP THE

BARRISTERS' REPORTING SERVICE

1 CONCEPT APPROVED PROGRAMS, AND THIS IS ALL THE
2 DOLLARS ALLOCATED BY THE BOARD, AND JUST TO THE
3 CATEGORIES AS DEFINED, IS THAT THIS IS WHAT THE
4 DISTRIBUTION LOOKS LIKE.

5 LET'S TALK A LITTLE BIT ABOUT THE FUTURE
6 FUNDING. SO I HAVE MADE SOME ASSUMPTIONS, AND I
7 WOULD JUST PUT THEM FORTH. AND AGAIN, THE
8 ASSUMPTIONS PUT FORTH HERE ARE BASICALLY IN THE
9 CONTEXT OF WHAT IS ONE WAY OR WHAT IS A WAY OF
10 ACHIEVING THOSE FIVE-YEAR GOALS, THE SCIENTIFIC, THE
11 CLINICAL. AND THE ASSUMPTIONS ARE IN DEVELOPMENT
12 RESEARCH, IT WILL BE A CONTINUED FOCUS OF FUNDING.
13 THERE WILL BE NEW DISEASE TEAM, NEW STRATEGIC
14 PARTNERSHIP PROGRAMS. THE FUNDING IS VERY MUCH
15 FRONT-LOADED AT THE MOMENT, BUT IT ACTUALLY -- YOU
16 KNOW, WE NEED TO CONSIDER, AND WE'RE OFFERING
17 THROUGH OUR STRATEGIC PARTNERSHIP PROGRAM IS THAT
18 WE'RE OFFERING PEOPLE TO COME IN TWICE A YEAR WHEN
19 THEY'RE READY. HOPEFULLY WE COULD BE READY TO
20 REVIEW THEM. WE ALSO HAVE THE ALPHA CLINICS. SO
21 ALAN'S TALKED ABOUT THAT.

22 IN ORDER TO TALK ABOUT SOME OF THESE
23 TRANSFORMATIONAL DISCOVERIES, REALLY MAKING A
24 DIFFERENCE, WE THINK IT'S IMPORTANT TO FUND BASIC
25 RESEARCH. YOU HAVE TO KEEP FUNDING THE NEW

BARRISTERS' REPORTING SERVICE

1 DISCOVERIES THAT WILL DRIVE THE FUTURE THERAPEUTICS.
2 THE TRANSLATIONAL RESEARCH WHERE YOU MAKE THE --
3 WHERE YOU SAY MY MECHANISM HYPOTHESIS REALLY COULD
4 HAVE AN IMPACT ON DISEASE. SO WE INTEND -- WE
5 BELIEVE THAT IT'S IMPORTANT TO KEEP FUNDING SOME OF
6 THESE CORE PROGRAMS.

7 I'LL JUST TALK TO YOU A LITTLE BIT ABOUT
8 THE SCENARIOS. SO THE COMMON ASSUMPTIONS THAT I
9 LAID OUT FOR YOU THERE WERE VERY MUCH TRUE FOR ALL
10 THESE SCENARIOS. AND WHEN I SAY FUNDING COMMITMENT,
11 LET ME BE CLEAR WHAT THIS IS GRAPHING. THIS DOESN'T
12 MEAN ALL THAT MONEY IS GOING OUT THAT YEAR. THAT
13 MEANS THE BOARD HAS APPROVED IT AND NOTICE OF GRANT
14 OR LOAN AWARDS HAVE BEEN SIGNED. THE CONTRACT
15 BETWEEN THE AGENCY AND THE GRANTEE TO INITIATE THE
16 FUNDING, MOST OF IT HAS HAPPENED IN THAT TIME
17 PERIOD. SO IT IS A COMMITMENT OF THIS BOARD AND THE
18 AGENCY TO FUND.

19 SO I JUST PUT FORTH FOR YOUR
20 CONSIDERATION, AND THESE SCENARIOS REALLY DIFFER
21 ONLY IN THE OUTER YEARS, WHICH IS A POINT I WANT TO
22 MAKE AS WELL. AND THE DIFFERENCES BETWEEN THE TWO
23 IS HOW MUCH MORE MONEY WE PUT IN TRAINING CAREER
24 DEVELOPMENT OR IN SHARED LABS OR PUT IN YOUR
25 FAVORITE THING. PUT MORE IN BIOLOGY INSTEAD OF

BARRISTERS' REPORTING SERVICE

1 THAT. BUT THOSE KINDS OF DECISIONS, IF YOU ACCEPT
2 THE PREMISE THAT IT IS IMPORTANT TO FUND DEVELOPMENT
3 AND IT IS IMPORTANT TO FUND IT TO THE EXTENT TO
4 WHICH I'VE OUTLINED IN ORDER TO GIVE US A REASONABLE
5 ASSURANCE OF ACHIEVING THAT GOAL, IF YOU ACCEPT THAT
6 PREMISE, THEN WE CAN TALK ABOUT WHAT WE MIGHT DO TWO
7 YEARS DOWN THE ROAD AS FAR AS OTHER PROGRAMS FUNDED
8 BECAUSE WHAT YOU ARE LOOKING AT IS A SNAPSHOT IN
9 TIME. YOU ARE LOOKING AT WHAT THIS BOARD HAS
10 COMMITTED IN CONCEPT, BUT NOT YET WHAT YOU HAVE
11 AWARDED. YOU ARE LOOKING AT A FUTURE SCENARIO THAT
12 I WANT YOU TO CONSIDER BECAUSE IF YOU BUY INTO THE
13 STRATEGY, THERE ARE IMPLICATIONS OF THAT STRATEGY.

14 SO I JUST SHOW YOU HERE SCENARIO ONE. I
15 SHOW YOU HOW THAT AS WE MOVE FORWARD, AS WE LOOK AT
16 HOW WE SPENT OUR MONEY TO DATE, THE DISTRIBUTION OF
17 THE CONCEPT APPROVED FUNDS, ALL THAT YOU HAVE
18 APPROVED, AND THE DISTRIBUTION OF THE FUTURE
19 FUNDING, WHAT IT MIGHT LOOK LIKE.

20 THE IMPLICATIONS OF THE COMBINED, IF WE
21 AWARD ALL THE CONCEPT APPROVED, ALL THE \$649 MILLION
22 AS INDICATED, ALL THE \$836 MILLION AS SUGGESTED, WE
23 HAVE THE POTENTIAL FOR AN ADDITIONAL 25, AND I PUT
24 IT NEW IN PARENTHESES BECAUSE IT COULD BE A
25 CONTINUATION, THE NEXT STAGE OF A DISEASE TEAM

BARRISTERS' REPORTING SERVICE

1 PROJECT, FOR EXAMPLE. THEN BY THE END OF FISCAL
2 YEAR 13-14, SO THAT'S SORT OF THE MIDDLE -- TWO
3 YEARS FROM JUNE THIS YEAR. OKAY -- WE WILL HAVE 16
4 PROGRAMS, ROUGHLY 16 ADDITIONAL PROJECTS IN OUR
5 PORTFOLIO, DEVELOPMENT PROJECTS. LET ME MAKE THE
6 POINT, DEVELOPMENT PROJECTS IN OUR PORTFOLIO DERIVED
7 FROM CONCEPT APPROVED FUNDS. WE WILL HAVE ROUGHLY
8 NINE ADDITIONAL DEVELOPMENT PROJECTS FROM EITHER
9 STRATEGIC -- IT WOULD HAVE TO BE FROM STRATEGIC
10 PARTNERSHIP-TYPE PROGRAMS IN FUTURE SCENARIOS. AND,
11 AGAIN, I SAID SOME OF THESE COULD COME FROM DISEASE
12 TEAM I FOLLOW-ON MOVING TO THE NEXT STAGE. THEY
13 FILED THEIR IND. WE THINK THEY'RE GOOD INVESTMENTS.
14 WE WANT TO REALIZE THE POTENTIAL OF OUR INVESTMENT,
15 SO WE WOULD CONSIDER FUNDING THEM FOR A PHASE I
16 TRIAL.

17 I WOULD ARGUE THAT OUR TARGET HAS TO BE
18 MORE THAN FIVE STEM OR PROGENITOR CELL-DERIVED CELL
19 THERAPIES IN PHASE I OR II, AGAIN, BECAUSE OF THAT
20 FIVE-YEAR STRATEGIC GOAL, BECAUSE OF THE
21 PROBABILITIES OF TECHNICAL SUCCESS. AND SO THAT'S
22 WHAT I WOULD SUGGEST. UNFORTUNATELY, SINCE IT'S
23 ALWAYS A BINARY THING, SOMETHING EITHER WORKS OR IT
24 DOESN'T, BUT AT LEAST IF YOU GO BY THAT, I WOULD
25 ARGUE WE NEED AT LEAST FIVE.

BARRISTERS' REPORTING SERVICE

1 THE ASSUMPTIONS, AND I'VE MENTIONED THIS
2 BEFORE, THE ASSUMPTIONS UNDERLYING THIS ARE THAT
3 THERE ARE AN ADEQUATE POOL OF STRONG PROJECTS AT
4 THIS STAGE OF DEVELOPMENT IN CALIFORNIA, THAT THEY
5 WILL SUBMIT APPLICATIONS TO US, AND THEY WILL BE
6 FUNDED BY US. I WOULD ALSO POINT OUT THAT CERTAINLY
7 IN THE STRATEGIC PARTNERSHIP, WE ARE REQUIRING
8 CO-FUNDING, WHETHER IT COMES FROM AN ACTUAL PARTNER,
9 WHETHER IT COMES FROM -- CO-FUNDING WILL MAKE AN
10 IMPACT, BUT I DON'T THINK THAT WE WILL STILL HAVE TO
11 INVEST THE DOLLARS.

12 AND THEN I'LL JUST MAKE A POINT. AS FAR
13 AS THE OPERATIONAL IMPACT, WE AS AN ORGANIZATION ARE
14 REALLY WORKING TO MAKE SURE THAT WE CAN HANDLE THIS
15 KIND OF REVIEW TWICE A YEAR OF DEVELOPMENT-TYPE
16 PROGRAMS, THE STAFF TO ACTUALLY WORK WITH THESE VERY
17 ACTIVELY MANAGED PROGRAMS. SO I JUST POINT OUT FOR
18 YOU HERE, AGAIN, THIS IS JUST THE ONE SCENARIO, BUT
19 AGAIN THE SCENARIO DIFFERENCES ARE VERY MUCH HERE IN
20 THE OUTER YEARS. SO IT JUST LOOKS, YOU CAN SEE SORT
21 OF HOW OUR FUNDING IS SHIFTING OVER TIME IN TERMS OF
22 TYPE OF CATEGORIES WE'RE FUNDING. BUT, AGAIN, I
23 THINK WE ACKNOWLEDGE THAT IT'S IMPORTANT TO CONTINUE
24 FUNDING THE BASIC RESEARCH, THE TRANSLATIONAL
25 RESEARCH THAT LEADS TO THE DEVELOPMENT PROGRAMS, AND

BARRISTERS' REPORTING SERVICE

1 THEN THE DEVELOPMENT PROGRAMS THAT ACTUALLY CAN
2 BRING THERAPIES TO PATIENTS.

3 THIS BASICALLY JUST GIVES YOU A TABLE AND
4 SUMMARIZES WHAT IT LOOKS LIKE. AND I WOULD ARGUE
5 THAT AT LEAST THIS IS ONE WAY, YOU KNOW, IT'S THE
6 OUTLINE OF A STRATEGY THAT I DO THINK ALLOWS US TO
7 DO WHAT WE ALL WANT TO DO, TO ACHIEVE THE CLINICAL
8 PROOF OF CONCEPT FOR STEM CELL THERAPIES, TO ACHIEVE
9 TRANSFORMATIVE RESEARCH DISCOVERIES BY WAY OF
10 CO-FUNDING, BY LEVERAGE TO MULTIPLY CIRM'S
11 INVESTMENT IN CALIFORNIA, AND TO CONTINUE TO GROW
12 THE RECOGNITION OF CALIFORNIA AS THE STEM CELL
13 STATE, AND THEN BASICALLY TO REALLY FURTHER OUR
14 MISSION. SO I'M HAPPY TO ENTERTAIN ANY QUESTIONS.
15 THANK YOU.

16 CHAIRMAN THOMAS: COMMENTS? MR. SHEEHY.

17 MR. SHEEHY: SO I JUST -- I'M TRYING TO
18 WORK MY HEAD THROUGH THIS BECAUSE IT'S A LOT OF
19 NUMBERS. THE RFA'S, IT'S HARD TO PUT ON A TIMELINE.
20 BUT I GUESS, NO. 1, JUST LOOKING AT THESE SCENARIOS,
21 I PERSONALLY THINK NOT EXTENDING BRIDGES OR TRAINING
22 OR SHARED LABS, THOSE ARE KIND OF CORE
23 INFRASTRUCTURE THAT DON'T COST US RELATIVELY THAT
24 MUCH MONEY, THAT WE SHOULD EXTEND FOR THE, YOU KNOW,
25 FOR THE FORESEEABLE FUTURE. I THINK THAT'S

BARRISTERS' REPORTING SERVICE

1 IMPORTANT.

2 DR. OLSON: YOU DON'T EVEN NEED TO MAKE
3 THAT DECISION FOR ANOTHER TWO YEARS.

4 MR. SHEEHY: THE SECOND THING IS, FOR
5 INSTANCE, THIS PLAN SUGGESTS TWO MORE DISEASE TEAM
6 ROUNDS. WHEN WE DO A DISEASE TEAM, IT'S ABOUT THREE
7 YEARS BETWEEN DISEASE TEAM ROUNDS. SO THE NEXT
8 ONE -- THIS ONE WE'RE GOING TO BASICALLY START
9 FUNDING IN 2013, I'M GOING TO GUESS.

10 DR. OLSON: CURRENT ONE WE WOULD START
11 FUNDING THIS YEAR.

12 MR. SHEEHY: IT TAKES FOUR TO SIX MONTHS.
13 YOU GUYS MIGHT HAVE IT DOWN. WE'RE GOING TO APPROVE
14 THE FUNDING IN JUNE. MAYBE BY THE END OF THE YEAR.
15 I DON'T KNOW. YOU HAVE A LOT OF WORK. I KNOW HOW
16 MUCH WORK.

17 DR. OLSON: FUNDED BY THE END OF THE YEAR.

18 MR. SHEEHY: I THINK THE WORK THAT YOU DO
19 IN TERMS OF SETTING MILESTONES AND THE WORK YOU DO
20 WITH THE TEAMS IS VERY IMPORTANT WORK. I'M
21 RECOGNIZING THAT THAT IS NOT GOING TO -- WE DON'T
22 GIVE THE MONEY AND THEN YOU --

23 DR. OLSON: THIS IS WHY THE TIMING I PUT
24 IN IS ACTUALLY ONE OR TWO QUARTERS DELAYED FROM WHEN
25 I EXPECT THE BOARD TO APPROVE, SO I DO ALLOW FOR

BARRISTERS' REPORTING SERVICE

1 THAT.

2 MR. SHEEHY: SO ROUGHLY BEGINNING LATE
3 2012, BEGINNING 2013 THE SECOND DISEASE TEAM GOES
4 IN. YOU GO THREE YEARS OUT --

5 DR. OLSON: NO. WE WOULD PUT IN THE NEW
6 DISEASE TEAM AT THE END OF THIS YEAR.

7 MR. SHEEHY: END OF 2012.

8 DR. OLSON: AND IT WOULD ONLY BE ONE MORE
9 DISEASE TEAM THAT COULD POSSIBLY IMPACT ON THAT
10 FIVE-YEAR GOAL.

11 MR. SHEEHY: I'M JUST TRYING TO GET -- I'M
12 LOOKING AT THIS, AND MAYBE THIS IS WHY I'M NOT
13 GETTING THE NUMBERS WHEN YOU TALK ABOUT SCENARIO ONE
14 VERSUS SCENARIO TWO. BOTH SCENARIOS HAVE TWO MORE
15 DISEASE TEAM ROUNDS, AND I DON'T THINK, UNLESS WE
16 GET REFUNDED, IT WILL MAKE SENSE. I'M ALSO WORKING
17 OFF MR. PLUNKETT'S NICE BUDGET PROJECTIONS, WHICH
18 ACTUALLY SHOW US STARTING TO GO DOWN. SO IF YOU DO
19 THREE MORE YEARS, YOU'RE IN 2015 TO DO THE NEXT
20 DISEASE TEAM, IF WE DID DISEASE TEAM III, AND THEN
21 IN 2018 WE START -- 2017, 2018 WE ACTUALLY START
22 REDUCING.

23 DR. OLSON: THIS IS CASH FLOW.

24 MR. SHEEHY: BUT I ALSO THINK THAT IF WE
25 DON'T GET REFUNDED -- IN OTHER WORDS, PART OF IT IS

BARRISTERS' REPORTING SERVICE

1 WHAT WE CAN ACCOMPLISH BETWEEN NOW AND, SAY, ABOUT
2 2016, 2017, RECOGNIZING THAT IF WE DON'T GET A
3 SIGNIFICANT SOURCE OF NEW FUNDING, THAT WE'RE REALLY
4 GOING TO START GOING THE OTHER DIRECTION. AND SO
5 LIKE TWO MORE DISEASE TEAMS, I DON'T SEE HOW THAT
6 FITS IN THE SCENARIO BECAUSE WE PROBABLY WON'T HAVE
7 THE STAFF TO MANAGE A DISEASE TEAM AFTER 2017 IF WE
8 DON'T HAVE -- YOU ARE GOING TO HAVE TO BUILD OUT
9 JUST TO MANAGE THE 25 ADDITIONAL PROGRAMS.

10 THIS IS SAID WITH GREAT RESPECT FOR THE
11 AMOUNT OF WORK THAT'S GONE INTO MANAGING THE
12 DEVELOPMENT PROGRAMS WE HAVE ALREADY, WHICH WE'RE
13 GOING TO HAVE TO BUILD OUT AS WE BUILD OUT, BUT THEN
14 THIS IS GOING TO START TO GO THE OTHER DIRECTION IF
15 WE DON'T GET REFUNDED.

16 I GUESS I'M JUST TRYING TO -- FIRST OF
17 ALL, I'M NOT SURE WHAT YOU'RE ASKING US TO DO. BUT
18 FOR ME I WOULDN'T NECESSARILY START PROJECTING THAT
19 WE'RE NOT GOING TO DO BRIDGES AND SHARED LABS AND
20 TRAINING.

21 DR. OLSON: NO. NO. NO. I WASN'T ASKING
22 THAT.

23 MR. SHEEHY: BUT FOR DEVELOPMENTAL WORK
24 THAT WE PROBABLY WON'T BE ABLE TO FUND AND MANAGE IF
25 WE DON'T GET REFUNDED. THAT'S KIND OF WHERE, WHEN

BARRISTERS' REPORTING SERVICE

1 I'M LOOKING AT THESE SCENARIOS, I'M TRYING TO GET A
2 SENSE AND ALSO TRYING TO HAVE A SENSE OF WHERE THE
3 RFA'S ARE GOING TO FALL OVER THE NEXT FIVE YEARS. I
4 FEEL LIKE THERE'S A SCHEDULE EMBEDDED IN HERE, BUT I
5 CAN'T REALLY SEE IT, AND SCHEDULE PLUS WHAT TYPE OF
6 MONEY WE'RE GOING TO BE SPENDING, MAYBE HOW MANY
7 PROJECTS WE'RE GOING TO BE MANAGING, WHAT KIND OF
8 STAFFING THAT WILL TAKE, THERE SEEMS A LOT OF
9 DIFFERENT MOVING PARTS HERE AND THAT I CAN'T REALLY
10 SEE THEM ALTOGETHER MYSELF YET.

11 THAT'S WHAT I KIND -- WOULD BE REALLY
12 HELPFUL FOR ME BECAUSE I THINK THE GOALS ARE
13 LAUDABLE, I THINK THEY'RE ACHIEVABLE, AND I THINK
14 THE RFA'S ARE HOW WE'RE GOING TO ACHIEVE THOSE
15 GOALS. BUT IT WOULD BE GREAT TO HAVE THAT, BUT I DO
16 THINK THAT SOME OF THESE UNDERLYING INFRASTRUCTURE
17 ONES ARE CRITICAL AND THAT MAYBE SOME OF THOSE
18 SHOULD EVEN SUNSET US IF THAT'S WHERE -- TRAINING
19 AND SHARED LABS AND BRIDGES MIGHT BE SOME OF THE
20 STUFF THAT DON'T REQUIRE A LOT OF STAFF TIME TO
21 MANAGE THAT WE MIGHT CONTINUE ON THROUGH 2020 IF WE
22 DON'T HAVE ADDITIONAL FUNDING THAT COMES IN.

23 I'M ASSUMING VOTERS WOULD BE WITH US,
24 WE'LL HAVE SOMETHING TO SHOW. I JUST THINK WE NEED
25 TO BE VERY PRACTICAL ABOUT THESE SCENARIOS. WE HAVE

BARRISTERS' REPORTING SERVICE

1 A SCENARIO THAT BASICALLY CUTS THAT OFF WHILE WE'RE
2 TALKING ABOUT DEVELOPMENTAL PROGRAMS THAT WE
3 WOULDN'T BE ABLE TO STAFF AND MANAGE IF WE GOT TO
4 BEING ABLE TO DO THEM. SIX YEARS FROM NOW, WHICH IS
5 WHERE WE WOULD BE, WOULD BE -- FUND DISEASE TEAM II.
6 DISEASE TEAM IV, I DON'T KNOW WHY WE WOULD BE
7 SETTING ASIDE MONEY FOR THAT. AM I MAKING SENSE?
8 I'M NOT VERY ARTICULATE.

9 DR. TROUNSON: JEFF, IT WAS SET ON THE
10 KIND OF PROGRAM THEY'VE BEEN WORKING OFF BEFORE. SO
11 WE DIDN'T WANT TO SORT OF ALTER IT TOO MUCH. IT'S
12 LESS THAN THREE YEARS, BUT WE WOULD HAVE JUST GOT IT
13 IN. AND SO WE DIDN'T SORT OF MESS WITH ANY OF THAT
14 TOO MUCH. BUT WHAT YOU'RE RIGHT IS WE NEED TO
15 COMPOSE IT WITH THE OUTCOMES IN MIND. I THINK
16 THAT'S REALLY WHAT PAT'S TRYING TO GET TO US.
17 THERE'S SOME SERIES OF OUTCOMES THAT'S IMPORTANT TO
18 ACHIEVE. AND I THINK THE MOST IMPORTANT FIGURE
19 THERE IS CURRENTLY THERE'S ONLY ABOUT 800 ODD
20 MILLION TO ALLOCATE GIVEN THAT WE'VE ALREADY MADE
21 ALLOCATIONS AND SO FORTH FOR THE REMAINDER.

22 SO IT BECOMES A VERY IMPORTANT TOUCHPOINT,
23 I THINK, FROM NOW ON TO CONSIDER WHAT WE SHOULD DO.
24 YES, ONE MORE DISEASE TEAM, OR SHOULD WE BUILD
25 PERHAPS MORE THE COMPANY PROJECTS, SOME MORE OF

BARRISTERS' REPORTING SERVICE

1 THOSE. WE HAVE THEM ON THE SORT OF SIX-MONTH BASIS.
2 WHAT DO WE DO WITH THOSE? WE'RE GOING TO GET GOOD
3 INPUTS FROM THOSE. THERE'S A FEW THINGS TO CONSIDER
4 IN THE MIX, BUT I DON'T THINK WE'RE HOLDING ANYTHING
5 HARD AND FAST HERE, BUT TRYING TO SORT OF LOOK AT
6 WHAT WE'VE BEEN DOING AND THEN SAY, WELL, THERE'S
7 EFFECTIVELY 800 MILLION LEFT TO ALLOCATE, GIVEN THAT
8 WE MIGHT GET SOME BACK FROM DISEASE TEAMS THAT DON'T
9 WORK, BUT WE HADN'T SORT OF FIGURED HOW MUCH THAT
10 WOULD BE, BUT IT'S NOT GOING TO GET US OVER A
11 BILLION DOLLARS, I DON'T THINK.

12 AND THE NEED -- HOPEFULLY I SEE THE NEED
13 TO BUILD SOME PARTNERSHIPS HERE WHERE INDUSTRY CAN
14 SAVE US SOME MONEY ON THOSE EXPENSIVE STUDIES, SO
15 THEY MAKE A CONTRIBUTION AS WELL AS US AND SAVE US
16 SOME --

17 MR. SHEEHY: NIH, FOR THAT MATTER.

18 DR. TROUNSON: NIH, BUT ALSO INDUSTRY, I
19 THINK, WILL COME IN AT LEAST THROUGH THE STRATEGIC
20 FUNDING GROUP AND START TO HELP US IN THIS. SO IT
21 IS AN IMPORTANT TIME, I THINK, IF YOU THINK THAT
22 WE'VE GOT \$800 MILLION, AND THAT'S AN IMPORTANT
23 FIGURE IN MY MIND, I THINK IN MOST PEOPLE'S MIND.
24 ALMOST YOU THINK THAT WE HAVE 1.5 BILLION, BUT A LOT
25 OF THAT HAS ALREADY BEEN ALLOCATED. WE MAY NOT

BARRISTERS' REPORTING SERVICE

1 SPEND IT ALL, BUT IT'S BEEN ALLOCATED THUS FAR.

2 MR. SHEEHY: YOU KNOW, I'M ALMOST --
3 AGAIN, THIS GOES BACK TO THE ARGUMENT OF HOW BIG
4 THIS DISEASE TEAM ROUND. I ALMOST FEEL LIKE THAT
5 THIS IS REALLY THE LAST DISEASE TEAM ROUND, THE ONE
6 THAT WE'RE DOING, THAT WILL BE ABLE TO HAVE A
7 SIGNIFICANT IMPACT, YOU KNOW, ON WHAT WE'RE TRYING
8 TO ACHIEVE. NOT THAT I THINK WE CAN'T AND WON'T DO
9 ANOTHER, BUT LET'S FACE IT, THE NEXT ONE AFTER THIS
10 IS GOING TO BE 2014, 2015 AT THE EARLIEST THAT THEY
11 WOULD START. THOSE PROGRAMS CANNOT --

12 DR. TROUNSON: THEY CAN'T GET TO PROOF OF
13 CONCEPT IN THAT TIME, MOST UNLIKELY.

14 MR. ROTH: SO, PAT, CAN YOU GO BACK TO
15 SEVERAL SLIDES TO YOUR PIE CHART THAT SHOWS WHERE
16 WE'VE BEEN? THIS ONE. SO WHEN I THINK ABOUT WHAT
17 PAT IS DOING -- AND THANK YOU. THIS IS A
18 CONTINUATION OF THE LAST MEETING WHEN WE HAD A VERY
19 SIMPLE CHART. NOW WE HAVE A LOT MORE NUANCE AND
20 DATA TO LOOK AT. BUT THIS CHART TO ME SAYS IT'S
21 DIRECTIONALLY ALIGNED WITH WHAT WE JUST TALKED ABOUT
22 IN THE STRATEGIC PLAN AND WE TALKED ABOUT IN THIS
23 BOARD MANY TIMES, THAT NOW IS THE TIME THAT WE START
24 TO MOVE TO THE TRANSLATIONAL, THE CLINICAL, CLOSER
25 TO THE PATIENTS WHO ACTUALLY -- AND THAT'S ALL THIS

BARRISTERS' REPORTING SERVICE

1 SAYS. HOW WE GO ABOUT ALLOCATING THE MONEY WILL
2 REALLY DEPEND ON WHETHER THE ASSUMPTIONS MATERIALIZE
3 OR NOT AND WHAT WE THINK THE PRIORITIES ARE TO GIVE
4 THEM TIME.

5 THIS SETS A NICE DIRECTION, FOR ME ANYWAY,
6 THAT SAYS I SEE THE SHIFT FROM A LOT OF RED TO MORE
7 AND MORE OF THE GOLD COLOR, WHICH SAYS THAT WE'RE
8 MOVING IN THE RIGHT DIRECTION. AND I THINK WE CAN
9 GO THROUGH THIS, AS WE HAVE, THE CONCEPT APPROVALS,
10 AND MAKE SURE WE ARE DOING EXACTLY AND RESPONDING
11 EXACTLY AS WE SHOULD TO THAT.

12 DR. FEIGAL: I WAS JUST GOING TO COMMENT,
13 YOU KNOW, EACH TIME WE DO THE DISEASE TEAMS, WE
14 REFINE IT. SO, FOR EXAMPLE, DISEASE TEAM II IS MORE
15 MATURE -- HERE I CAN USE THE WORD "MATURE" -- LEVEL
16 OF DEVELOPMENT OF THE PROGRAM. AND FOR DISEASE TEAM
17 III, WE MAY CONTINUE TO REFINE IT. SO IT'S NOT
18 NECESSARILY IDENTICAL TO WHAT DISEASE TEAM I LOOKED
19 LIKE SO THAT THERE ACTUALLY MIGHT BE THE POSSIBILITY
20 WITH THE SUBSEQUENT SOLICITATION THAT WE'RE BRINGING
21 IN MORE MATURE PROJECTS THAT COULD HAVE A CHANCE OF
22 REACHING. SO WE ARE TRYING TO FOCUS ON SOME
23 ADVANCEMENT ALONG THE WAY, NOT KEEPING THINGS
24 STATIC.

25 MR. SHEEHY: THAT'S HELPFUL. THAT'S A

BARRISTERS' REPORTING SERVICE

1 GOOD POINT. I HAD FORGOTTEN THAT ABOUT DISEASE TEAM
2 II. IT'S CLEARLY FURTHER ADVANCED.

3 CHAIRMAN THOMAS: MR. JUELSGAARD.

4 DR. JUELSGAARD: I WOULD JUST AGREE WITH
5 DUANE. SO FOR ME THIS PRESENTATION WAS MORE
6 DIRECTIONAL THAN SPECIFIC, AND THIS CONVERSATION
7 SHOULD BE MORE DIRECTIONAL THAN SPECIFIC. I WOULD
8 ONLY POINT OUT THAT FOR ME THE 19 PERCENT OF THE
9 FUNDS COMMITTED ARE GOING TO TRAINING AND
10 DEVELOPMENT, THAT WHAT YOU ARE SUGGESTING IS THAT WE
11 RATCHET THAT WAY BACK TO SOME MUCH SMALLER
12 PERCENTAGE OF THE FUNDS THAT WE HAVE UNCOMMITTED,
13 WHICH I WOULD COMPLETELY AGREE WITH IN FAVOR OF
14 PUTTING THAT MONEY TOWARDS DEVELOPMENT WORK, WHICH
15 IS, I THINK, REALLY WHERE WE OUGHT TO BE PUTTING OUR
16 EFFORT AT THIS POINT.

17 DR. OLSON: I GUESS I WILL RESPOND TO THAT
18 AS FOLLOWS. CONCEPT APPROVED PROGRAMS ARE PROGRAMS
19 FOR WHICH RFA'S, IF NOT WRITTEN AND POSTED AND IN
20 SOME CASES READY FOR REVIEW, RFA'S ARE GETTING READY
21 TO BE POSTED. WHAT YOU'RE LOOKING AT IN THE GREEN
22 IN THE CONCEPT APPROVED IS ACTUALLY A NEW FACULTY
23 PHYSICIAN SCIENTIST FOR TRAINING. THAT IS THE BULK
24 OF THAT. THAT IS \$80 MILLION OF THAT. NOW, AGAIN,
25 HOW MANY APPLICATIONS WE RECEIVE, HOW THE GRANTS

BARRISTERS' REPORTING SERVICE

1 WORKING GROUP VIEWS THEM, AND HOW THE BOARD FUNDS
2 THEM, BUT AT THIS POINT THE SCIENCE OFFICE IS
3 PROCEEDING WITH EVERY CONCEPT APPROVED PROGRAM.

4 MR. SHEEHY: IN RESPONSE TO MR.
5 JUELSGAARD, I DO THINK THAT I WOULD NOT AGREE WITH
6 YOU, AND I THINK THAT WE SHOULD VOTE ON SOME OF
7 THESE. I'M NOT SAYING THAT YOU'RE WRONG AND I'M
8 RIGHT, BUT I THINK THESE ARE PRECISELY THE DECISIONS
9 WE'RE HERE TO MAKE. I THINK, FOR INSTANCE, BRIDGES
10 AND TRAINING ARE VERY IMPORTANT FOR MAINTAINING A
11 CERTAIN INFRASTRUCTURE. WE BUILT BUILDINGS. SOME
12 OF THIS IS JUST BASIC INFRASTRUCTURE THAT WE NEED TO
13 CONTINUE REGARDLESS. YOU KNOW, IT WOULD BE GREAT TO
14 LIKE CREATE SOME DECISION POINTS ON SOME OF THESE.
15 SO IF I LOSE, THAT'S FINE. IT'S NOT A PERSONAL
16 THING. BUT I DO THINK THAT THERE ARE DECISION
17 POINTS, AND I'M NOT SURE WHERE WE'RE GOING TO COME
18 TO THOSE. AND IF WE DO THE STRATEGIC PLAN AS
19 PROPOSED, HAVE WE ALREADY MADE THE DECISION THAT
20 WE'RE DOING SCENARIO ONE OR --

21 DR. OLSON: I APPRECIATE THAT. MR.
22 CHAIRMAN, MAY I SPEAK IN RESPONSE TO THAT? I THINK
23 WHAT I REALLY WAS TRYING TO COMMUNICATE HERE, AND
24 FORGIVE ME IF I WAS LESS CLEAR, IS THE POINT THAT
25 MR. ROTH AND MR. JUELSGAARD HAVE MADE, WHICH IS I'M

BARRISTERS' REPORTING SERVICE

1 TRYING TO GET A DIRECTIONAL BUY-IN THAT WE WILL NEED
2 TO SPEND SIGNIFICANT AMOUNTS OF OUR FUNDING GOING
3 FORWARD ON DEVELOPMENT. I HAVE NO BIAS ONE WAY OR
4 THE OTHER TO SCENARIO 1 OR SCENARIO 2 OR SOME
5 VARIANT THEREON, BUT I DO THINK IT IS IMPORTANT FOR
6 THE BOARD TO AT LEAST BUY INTO MINIMALLY THE FACT
7 THAT A SUBSTANTIAL PROPORTION OF OUR FUNDING WILL BE
8 GOING TO DEVELOPMENT. I THINK THAT IS A KEY
9 STRATEGIC DECISION, THAT THAT FUNDING IS COMPATIBLE
10 OR THAT DECISION FOR THAT DIRECTION IS COMPATIBLE
11 WITH OUR STRATEGIC GOALS, WITH THE FIVE-YEAR GOALS,
12 WITH THE KEY OUTCOME, AND THE STRATEGIC OBJECTIVE.
13 AND TO NOT MAKE THAT COMMITMENT, I WOULD ARGUE, YOU
14 WOULD HAVE TO REVISE THE GOALS, OR YOU WOULD HAVE TO
15 CONSIDER THAT, AT LEAST THE CLINICAL GOAL.

16 CHAIRMAN THOMAS: MR. PLUNKETT, DID YOU
17 HAVE A COMMENT EARLIER THAT WE MISSED?

18 DR. PLUNKETT: NOT TO JUMP AHEAD A COUPLE
19 OF AGENDA ITEMS, BUT JUST IN TERMS OF THE TIE-IN OF
20 OUR FUTURE FORECASTING OF EXPENSES THROUGH THE NEXT
21 DECADE, WE'VE REALLY MADE AN EXPLICIT ASSUMPTION
22 THAT THE HEAD COUNT OF THE AGENCY STAYS CONSTANT
23 THROUGH AT LEAST A YEAR PAST THE LAST AWARD, AND AT
24 THAT POINT WE START TO FADE DOWN OVER THE NEXT FOUR
25 YEARS. SO THERE REALLY IS SUBSTANTIAL ROOM TO

BARRISTERS' REPORTING SERVICE

1 MAINTAIN EVEN PROGRAMS WHICH WOULD REQUIRE A
2 SIGNIFICANT DEGREE OF MANAGEMENT BY THE CIRM STAFF
3 FOR THAT PERIOD OF TIME.

4 SO WE'VE LEFT SOME ROOM FOR THAT. AND YOU
5 CAN CERTAINLY ALSO THINK ABOUT CONCEPTS WHERE MAYBE
6 SOME OF THE MORE INVOLVED CLINICAL AWARDS, TO
7 ELLEN'S POINT THAT THEY MIGHT BE LATER STAGED, MIGHT
8 BE A THREE-YEAR DURATION TOWARDS THE END INSTEAD OF
9 A FOUR-YEAR, FOR EXAMPLE.

10 CHAIRMAN THOMAS: THANK YOU. DR. LEVIN.

11 DR. LEVIN: SO I UNDERSTAND THE MARCH
12 TOWARDS TRANSLATION IS PART OF OUR MISSION AND
13 STRUCTURE OF CIRM, AND I'M FULLY AWARE OF THE
14 SIGNIFICANT INCREASE IN COST FOR THE DISCOVERY
15 PROJECTS AND THOSE THAT ARE ACTUALLY GETTING INTO
16 TOWARDS CLINICAL TRIAL. BUT I STILL HAVE TO SAY
17 THAT I'M NOT AT ALL COMFORTABLE WITH HAVING A
18 SCENARIO ON THE BOOKS, MUCH LESS SCENARIO 1, THAT
19 COMPLETELY ZEROS OUT ALL FUNDING FOR INFRASTRUCTURE
20 FOR BASIC RESEARCH AND FOR TRAINING BECAUSE I THINK
21 THAT THOSE ARE CORE ASPECTS OF WHAT CIRM HAS ALWAYS
22 DONE AND WHAT CIRM SHOULD DO.

23 BASICALLY THERE'S TWO POTENTIAL SCENARIOS.
24 ONE IS THAT CIRM WILL GO ON, AND THE OTHER IS THAT
25 IT WILL SUNSET ITSELF AT SOME POINT IN THE FUTURE,

BARRISTERS' REPORTING SERVICE

1 2017 OR WHAT HAVE YOU. AND IN EITHER SCENARIO, IF
2 WE GO ON, THEN WE ARE GOING TO WANT TO HAVE THIS
3 PIPELINE OF BASIC RESEARCH DISCOVERIES AND NEW BLOOD
4 BROUGHT INTO THE FIELD AND EDUCATED. THAT'S GOING
5 TO BE A CRITICAL COMPONENT OF OUR PORTFOLIO. AND IF
6 NOT, THEN WHAT'S THE IMPACT IS GOING TO BE MAYBE
7 FIVE, MAYBE NINE, MAYBE TEN DISEASE TEAMS, ONE OR
8 TWO OF WHICH, WHEREVER THEY'VE GONE, THEY'VE HAD A
9 THERAPEUTIC CANDIDATE THAT'S GONE ALL THE WAY TO
10 BEING IN PRACTICE. BUT THE REAL IMPACT IS ON ALL
11 THE PEOPLE BROUGHT INTO THE FIELD AND ALL THE GREAT
12 DISCOVERIES THAT THEN WILL BE TAKEN UP BY OTHER
13 MECHANISMS. AND IF WE SHUT THOSE PROGRAMS OR
14 CONSIDER SHUTTING THOSE PROGRAMS DOWN ENTIRELY, THEN
15 THAT STOPS. THAT'S HALF OF THE GOOD WORK THAT'S
16 BEEN DONE.

17 CHAIRMAN THOMAS: BEFORE I GO TO DR.
18 OLSON, JUST NOTE IF WE DO NOT HAVE ADDITIONAL
19 FUNDING, WE WOULD SUNSET IN 2021 WOULD BE THE TIME
20 OF THE LAST AWARD.

21 DR. OLSON: I'M HAPPY -- AS I SAY, I HAVE
22 NO BIAS AS TO WHICH SCENARIO. I'M HAPPY TO PUT THAT
23 ONE BECAUSE I, IN FACT, AGREE WITH YOU THAT A LOT OF
24 WHAT WE'VE DONE, OVER 500 PEOPLE THAT JUST THROUGH
25 TRAINING II THAT WE'VE TRAINED ARE AMBASSADORS,

BARRISTERS' REPORTING SERVICE

1 THEY'RE STEM CELL AMBASSADORS. SO I'M HAPPY TO USE
2 THAT AS THE SCENARIO WE INCLUDE AS SORT OF -- IT
3 REALLY -- THAT'S FINE BECAUSE IT JUST CUTS DOWN TO
4 SOME --

5 DR. LEVIN: I WOULD JUST BE MUCH HAPPIER
6 IF THAT WERE SCENARIO 1 AND THIS WERE SCENARIO 2,
7 JUST ASSUMING THAT THERE WOULD BE SOME BECAUSE FOR
8 THE COST OF A SINGLE DISEASE TEAM, YOU CAN PRESERVE
9 THE ENTIRE PROGRAM OF BASIC BIOLOGY FOR ANOTHER
10 THREE YEARS OR AN ENTIRE PROGRAM OF THE TRAINING
11 GRANTS OR SHARED RESEARCH LABS.

12 DR. OLSON: TRAINING GRANTS IS A \$48
13 MILLION PROGRAM, SHARED LABS IS A \$25 MILLION
14 PROGRAM, AND BRIDGES IS A \$22 MILLION PROGRAM. SO
15 WE ARE WORKING.

16 DR. LEVIN: YOU'RE PROPOSING YOUR SCENARIO
17 2 TO BE --

18 DR. OLSON: YEAH. IN MY SCENARIO 2, WHAT
19 DECREASES -- THERE'S DECREASES IN ALL OF THOSE, A
20 LITTLE BIT IN ALL OF THOSE POTS. YES, I'M HAPPY TO
21 USE THAT, SWITCH THEM AROUND IF YOU LIKE. BUT
22 REALLY IS AN EXAMPLE. AGAIN, THE POINT, DO YOU BUY
23 INTO THE NOTION THAT WE NEED TO SPEND A SUBSTANTIAL
24 AMOUNT OF DOLLARS ON DEVELOPMENT? NOT TO SAY THAT
25 WE'LL HAVE THE PROJECTS, BUT IN PRINCIPLE.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: WE HAVE DR. STEWARD,
2 DR. MELMED, MR. SHEEHY.

3 DR. STEWARD: JUST LOOKING FORWARD, I
4 THINK LOOKING AT THESE KINDS OF THINGS IS VERY
5 HELPFUL. AND I ACTUALLY THINK IT'S HELPFUL ON A
6 ROLLING BASIS.

7 DR. OLSON: I AGREE.

8 DR. STEWARD: ONE OF THE THINGS THAT I'D
9 LOVE TO SEE EACH TIME WE CONSIDER IMPROVING A ROUND
10 OF FUNDING IS THIS CHART UPDATED. SO THIS IS WHAT
11 WE'VE SPENT. THIS IS WHAT WE'VE COMMITTED. AND
12 THEN ACTUALLY AFTER WE VOTE, IF YOU COULD EVEN JUST
13 ADJUST IT A LITTLE BIT, BUT WE DON'T ALWAYS ACTUALLY
14 SPEND EVERYTHING THAT'S ALLOCATED. JUST REMIND US
15 ROLLING FORWARD WHAT IT ACTUALLY MEANS. I THINK THE
16 MOST IMPORTANT POINT YOU MAKE HERE, AND IT'S REALLY
17 AN IMPORTANT POINT, IS THAT THERE'S A LIMITED AMOUNT
18 OF MONEY THAT IS LEFT TO SPEND AT THIS POINT. AND
19 EACH OF THE DECISIONS WE MAKE GOING FORWARD, EACH
20 TIME WE SAY, WELL, LET'S RAISE THIS GRANT UP, WE CAN
21 AFFORD THIS, MAYBE WE CAN'T. IT'S JUST REALLY
22 IMPORTANT TO KIND OF THINK ABOUT THAT EACH AND EVERY
23 TIME WE VOTE FOR A NEW ROUND OF FUNDING.

24 CHAIRMAN THOMAS: DR. OLSON IN RESPONSE,
25 THEN DR. MELMED.

BARRISTERS' REPORTING SERVICE

1 DR. OLSON: THANK YOU FOR REITERATING THAT
2 POINT. I DO WANT TO EMPHASIZE YOU ARE REALLY
3 LOOKING AT A SNAPSHOT IN TIME. ALL THE CONCEPT
4 APPROVED PROGRAMS MAY NOT BE FUNDED TO THE EXTENT
5 APPROVED. ACTUALLY ALL THE CURRENTLY FUNDED
6 PROGRAMS MAY NOT UTILIZE ALL THEIR MONEY, MAY NOT
7 ALL CONTINUE. SO IT REALLY IS A SNAPSHOT IN TIME.

8 CHAIRMAN THOMAS: I THINK WE HAVE DR.
9 TROUNSON IN RESPONSE ALSO BEFORE WE GET TO DR.
10 MELMED.

11 DR. TROUNSON: SO, CHAIR, YOU AND I HAVE
12 BEEN TALKING ABOUT THE OPPORTUNITY TO CO-FUND SOME
13 OF THE TRAINING AREAS. AND I THINK THAT MIGHT BE A
14 VERY IMPORTANT STRATEGY TO REALLY TAKE ON BOARD
15 BECAUSE OTHERWISE YOU START TO FACE A CLIFF. YOU
16 KNOW, IF YOU CONTINUE THE TRAINING ALL THE WAY TO
17 THE END AND THEN IT DROPS, IT REALLY MAKES IT VERY,
18 VERY DIFFICULT FOR EVERYBODY. SO I JUST WONDERED IF
19 WE OUGHT TO INCLUDE IN OUR THINKING THE OPPORTUNITY
20 TO NOT ONLY CO-FUND SOME OF THE RESEARCH, BUT
21 CO-FUND WHERE APPROPRIATE SOME OF THE TRAINING GRANT
22 PROGRAMS AND BRING IN THE NIH OR BRING IN SOME OTHER
23 ORGANIZATIONS AS PART OF THAT. AND I THINK IT WOULD
24 HELP WITH A MUCH SOFTER LANDING IN DUE COURSE IF
25 WE'RE NOT CONTINUING IN A MAJOR WAY.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: GOOD SUGGESTION, DR.
2 TROUNSON.

3 DR. MELMED: I ECHO WHAT DR. LEVIN WAS
4 SAYING. I'D LIKE TO JUST EXTEND THAT. I'M VERY
5 NERVOUS ABOUT LONG-TERM, TOP-DOWN PLANNING. WE
6 DON'T KNOW WHERE THE CLINICAL SCIENCE WILL BE IN
7 TWO, THREE, FOUR, FIVE YEARS TIME, AND WE CAN'T
8 DRIVE THE SCIENCE. THE SCIENCE HAS TO COME BOTTOM
9 UP. AND IF THE CLINICAL TRIALS AREN'T READY, THEY
10 WON'T BE READY. AND AS MUCH AS ALL THE GOODWILL IN
11 THE WORLD THAT WE BELIEVE WE ALL HAVE THAT GOODWILL
12 AND WE ALL WANT IT TO SUCCEED, BUT THESE CLINICAL
13 TRIALS MAY TAKE TEN YEARS, MAY TAKE 20 YEARS. WE
14 HAVE NO IDEA. AND BY INFLEXIBLE TOP-DOWN, LONG-TERM
15 PLANNING, I THINK WE DO OURSELVES A DISSERVICE.

16 AND IN THE SPIRIT OF WHAT DR. LEVIN WAS
17 SUGGESTING, I WOULD SUGGEST THAT WE BE VERY FLEXIBLE
18 IN OUR LONG-TERM THINKING, AND THAT THIS BE
19 REVISITED EVERY MEETING. WE MAY CHANGE DIRECTION
20 EVERY YEAR FOR THE NEXT FIVE YEARS. AND I WOULD BE
21 VERY RELUCTANT TO COMMIT OURSELVES TO A RIGID PIE
22 GRAPH FOR FIVE YEARS TIME. WE JUST SIMPLY DON'T
23 KNOW WHERE THE REAL QUALITY CLINICAL SCIENCE WILL BE
24 IN FIVE YEARS.

25 MR. ROTH: IF I COULD JUST RESPOND

BARRISTERS' REPORTING SERVICE

1 QUICKLY. BUT THAT'S PRECISELY IN THE ASSUMPTIONS.
2 THAT'S WHAT LED UP TO THIS. IF THOSE ASSUMPTIONS
3 AREN'T REAL, THEN WE DON'T SPEND THE MONEY THERE.
4 THIS IS DIRECTIONAL.

5 DR. MELMED: JEFF HAD ASKED FOR SOMETHING
6 ELSE. HE ASKED FOR REDIRECTING.

7 MR. ROTH: ONE OF THE CHALLENGES WE'RE
8 GOING TO HAVE IS DECIDING BETWEEN THE VARIOUS
9 OPPORTUNITIES WE HAVE. DO WE CONTINUE TO FUND BASIC
10 SCIENCE? DO WE CONTINUE TO FUND ALL THE DEVELOPMENT
11 OF PEOPLE, FACILITIES? OR DO WE FUND THE CLINICAL
12 DEVELOPMENT PROGRAMS THAT WE THINK WILL ADVANCE THE
13 SCIENCE THE MOST? THOSE ARE THE DECISIONS WE AS A
14 BOARD HAVE TO MAKE.

15 THE CONCERN I HAVE IS THAT WE DON'T WANT
16 TO TELEGRAPH TO ALL THE INSTITUTIONS THIS IS GOING
17 ON INDEFINITELY BECAUSE IT'S NOT NECESSARILY GOING
18 ON INDEFINITELY, AND WE HAVE TO START THINKING
19 ABOUT, AS ALAN JUST SAID, HOW DO YOU SUPPLEMENT THIS
20 STUFF? HOW DO YOU GET PEOPLE TO START THINKING
21 ABOUT CREATIVE WAYS OF BRINGING MORE MONEY TO THE
22 THINGS THAT WE'VE ALREADY SPENT A WHOLE LOT OF MONEY
23 IN AS WE MOVE FORWARD TO THE NEXT.

24 CHAIRMAN THOMAS: I THINK, DR. MELMED,
25 POINT VERY WELL TAKEN, BUT I DON'T THINK THERE IS

BARRISTERS' REPORTING SERVICE

1 RIGIDITY IN WHAT WE'RE HEARING. WHAT WE'RE HEARING
2 REALLY IS THE BASIC CONCEPT THAT WE WANT TO
3 EMPHASIZE THE DEVELOPMENTAL PHASE MORE, AND THAT
4 WILL BE EVALUATED ON AN ONGOING BASIS PER YOUR
5 COMMENT AND EVERYBODY ELSE'S AS TO WHAT THAT MEANS.

6 DR. OLSON: DR. MELMED, I APOLOGIZE IF I
7 GAVE YOU THE IMPRESSION THIS IS A TOP-DOWN RIGID.
8 IT ISN'T. IT IS BASED ON A SERIES OF ASSUMPTIONS.
9 THOSE ASSUMPTIONS MAY WELL NOT MATERIALIZE.

10 AND I WAS -- I POINT OUT A KEY RISK OF
11 THIS AND, IN FACT, OF ACHIEVING THAT FIVE-YEAR
12 CLINICAL GOAL IS THE STAGE OF MATURITY OF THE
13 CLINICAL DEVELOPMENT OF THIS FIELD.

14 DR. POMEROY: SO GOOD DISCUSSION. THANK
15 YOU. AND YOU ASKED REALLY FOR CONCEPTUAL DIRECTION.
16 SO I'D LIKE TO SAY THAT I REALLY DO LIKE THE IDEA OF
17 MOVING MORE TOWARDS DEVELOPMENT RESEARCH, BUT I AM
18 PERSONALLY UNCOMFORTABLE WITH THE SCENARIO THAT EVEN
19 SUGGESTS THAT WE WOULD CONTEMPLATE STOPPING ALL OF
20 THE TRAINING AT THIS POINT. SO I THINK A MORE
21 HYBRID APPROACH THAT PERHAPS DID TAPER BECAUSE WE
22 WERE ABLE TO IDENTIFY OTHER SOURCES OF FUNDING FOR
23 TRAINING, BUT I DON'T WANT EVEN THE POTENTIAL
24 MESSAGE TO GO OUT THAT SOMEHOW WE'RE NO LONGER
25 SUPPORTIVE OF ENSURING THE NEXT GENERATION OF

BARRISTERS' REPORTING SERVICE

1 RESEARCHERS.

2 DR. PIZZO: CAN I UNDERSCORE CLAIRE'S
3 COMMENT? I THINK THAT THIS IS A DELICATE BALANCE,
4 AND IT ALLUDES TO THE POINT THAT I MADE EARLIER. I
5 THINK WE'RE ALL SENSITIVE TO BEING RESPONSIBLE
6 CUSTODIANS AND STEWARDS OF THE RESOURCES WE HAVE AND
7 NOT ENGAGING IN FALSE PROMISES. BUT IF WE AT THE
8 SAME TIME BEGIN TO CONVEY THE MESSAGE THAT WE ARE
9 CURTAILING OR ANTICIPATING THAT OUR FUTURE WILL BE
10 ENDING, IT WILL BECOME A SELF-FULFILLED PROPHECY, I
11 FEAR. I THINK WE NEED TO REALLY WORK WITH OUR
12 (TELEPHONE INTERFERENCE).

13 CHAIRMAN THOMAS: PHIL, CAN YOU HOLD ON
14 ONE SECOND? WE'RE GETTING REAL STATIC. PHIL, ARE
15 YOU ON A SPEAKER? MAYBE YOU COULD PICK UP. THAT
16 MIGHT HELP A BIT.

17 DR. PIZZO: GEE, IT WAS SUCH A PROFOUND
18 STATEMENT. I'M SORRY THAT YOU ALL MISSED IT. I'M
19 GETTING INTERNAL FEEDBACK. SO IT'S JUST HARD TO
20 SPEAK. BUT WHAT I WAS SAYING OR ATTEMPTING TO SAY
21 WAS THAT I BASICALLY AGREE WITH THE POINT THAT
22 CLAIRE WAS MAKING AND DO VERY STRONGLY BELIEVE THAT
23 WHILE WE WANT TO BE RESPONSIBLE STEWARDS FOR THE
24 RESOURCES THAT WE HAVE AND NOT ENGAGE IN FALSE
25 PROMISES, WE ALSO WANT TO MAKE CLEAR THAT THERE IS

BARRISTERS' REPORTING SERVICE

1 GOING TO BE A NEED TO MAKE THE INVESTMENTS
2 SUCCESSFUL FOR THE FUTURE.

3 IF WE DON'T DO THAT WELL, I THINK WE'RE
4 GOING TO BE PART OF A SELF-FULFILLED PROPHECY. AND
5 I THINK THIS IS WHERE WORKING WITH THE COMMUNICATION
6 TEAM IN TANDEM WITH STRATEGIC PLANNING AND RESEARCH
7 TEAMS ARE GOING TO BE SO IMPORTANT IN TERMS OF
8 GETTING THIS MESSAGE RIGHT. AND THE MESSAGE TO ME
9 IS NOT RIGHT IF IT SAYS WE ARE CONCLUDING, AND IT
10 WOULDN'T BE RIGHT IF WE SAID WE'RE ABSOLUTELY
11 CONTINUING, BUT IT NEEDS TO BE A SUBTLE BLEND THAT
12 CONVEYS THE IMPORTANCE OF BOTH.

13 CHAIRMAN THOMAS: THANK YOU. ARE THERE
14 ANY OTHER COMMENTS BY MEMBERS ON THE PHONE?
15 MR. SHESTACK.

16 MR. SHESTACK: I THINK WHAT DR. PIZZO IS
17 SAYING A LITTLE BIT MORE MAYBE DIPLOMATICALLY THAN I
18 WOULD WAS BEING TOO SELF-CONGRATULATORY. WE WALK
19 THE BALANCE. BEING TOO SELF-CONGRATULATORY IN OUR
20 ASSESSMENT OF HOW MUCH CIRM HAS DONE DOES SORT OF
21 CLOUD THE ISSUE THAT WE'RE NOT MAKING THAT MANY
22 PEOPLE BETTER YET. AND WE STILL HAVE TO DO IT, AND
23 THE NEED WILL BE GREAT. I APPRECIATE EVERYTHING PAT
24 HAS PRESENTED HERE, AND I THINK WHAT SHE POINTS OUT
25 IS THAT IT'S JUST POSSIBLE THAT WE WILL HAVE SOME

BARRISTERS' REPORTING SERVICE

1 VERY TOUGH CHOICES AHEAD OF US. OR WE COULD GET
2 REALLY LUCKY IN ONE OF SEVERAL WAYS OR WE WON'T, BUT
3 IT LOOKS LIKE WE WILL HAVE TOUGH CHOICES.

4 AND SO AS WE'RE THINKING GOING FORWARD, I
5 WOULD JUST ASK THE BOARD, PARTICULARLY SINCE IT IS
6 FILLED WITH THE DEANS OF THE MAJOR SCHOOLS IN
7 CALIFORNIA, IS HOW CAN WE PUT THE ARM BACK ON YOU?
8 AS AN ADVOCATE, I LOOK AT THIS AND I GO LIKE
9 TAXPAYER MONEY DID AN AMAZING THING FOR THE
10 FACULTIES IN CALIFORNIA, PARTICULARLY THIS ASPECT OF
11 BASIC SCIENCE AND TRAINING WHEN CIRM PUT A LOT OF
12 THE MONEY IN EARLY PURELY ON FAITH WITH NO SENSE --
13 NO IDEA THAT RESULTS WOULD COME FROM IT, BUT JUST
14 YOU APPLIED, ASKED FOR MONEY TO TRAIN YOUR PEOPLE.
15 SOME OF THEM TURNED OUT GREAT.

16 SO NOW I WOULD SAY AS A BOARD YOU HAVE TO
17 REALLY LOOK TO YOURSELF AND SAY HOW CAN YOU FIND
18 WAYS TO TAKE THIS BURDEN OFF OF CIRM AND DO IT
19 YOURSELF AND POINT IT OUT SO WE CAN MOVE -- SO WE
20 KNOW THAT THIS MISSION IS BEING ACCOMPLISHED WHILE
21 WE MOVE THE MONEY INTO MORE DEVELOPMENT AND
22 TRANSLATION. WE'VE GOT TIME TO THINK ABOUT IT, BUT
23 I THINK WE SHOULD THINK ABOUT IT HARD.

24 CHAIRMAN THOMAS: OKAY. THANK YOU. I
25 THINK WE NEED TO MOVE THE AGENDA ALONG HERE. IT'S

BARRISTERS' REPORTING SERVICE

1 BEEN A VERY GOOD, ROBUST DISCUSSION ON THIS. PAT,
2 THANK YOU VERY MUCH FOR YOUR PRESENTATION. VERY
3 COMPREHENSIVE AND WE APPRECIATE IT.

4 SO WE'RE GOING TO TAKE ONE THING SLIGHTLY
5 OUT OF ORDER BECAUSE DUANE HAS A TIME CONSTRAINT
6 HERE. WE WANT TO MAKE SURE WE GET THROUGH THIS
7 BECAUSE HE'S DIRECTLY INVOLVED. SO CAN WE MOVE TO
8 THE HASTINGS ITEM ON THE AGENDA. AND, DR. FEIGAL,
9 YOU WILL DO THE INTRODUCTIONS.

10 DR. FEIGAL: GOOD AFTERNOON. IT'S MY
11 PLEASURE TO INTRODUCE DR. MICHAEL GUSMANO. HE'S
12 RESEARCH SCHOLAR AT THE HASTINGS CENTERS, AND HE'S
13 ALSO ASSOCIATE PROFESSOR OF HEALTH POLICY AND
14 MANAGEMENT AT NEW YORK MEDICAL COLLEGE. ONE OF HIS
15 PRIMARY ROLES AT THE HASTINGS CENTER, WHICH IS
16 ACTUALLY THE WORLD'S FIRST CENTER FOR BIOETHICS AND
17 HEALTH POLICY, IS THAT HE'S DIRECTING THE HASTINGS
18 CENTER PROJECT ON THE FDA AND PATIENT VOICES WHICH
19 IS FUNDED IN PART BY CIRM.

20 AND SO HE CAME HERE, HE FLEW ACROSS FROM
21 THE EAST COAST LAST NIGHT, TO ACTUALLY BE HERE TO
22 PRESENT TO THE BOARD ABOUT SOME OF THE WORK THE
23 HASTINGS CENTER IS DOING IN TERMS OF TRYING TO GET
24 INPUT FROM THE PATIENT PERSPECTIVE FROM PATIENT
25 VOICES AS WELL AS FROM WHAT THEY CALL THE CONSUMER

BARRISTERS' REPORTING SERVICE

1 VOICES AS NEW MEDICAL TECHNOLOGY IS DEVELOPED. HE'S
2 GOING TO TELL YOU A LITTLE BIT ABOUT THE ROUNDTABLE
3 THAT TOOK PLACE EARLIER THIS YEAR AND ALSO SOME OF
4 THE DIRECTIONS THAT THE HASTINGS CENTER IS TAKING.

5 AND BECAUSE WE INFORMED HIM -- DUANE AND I
6 WERE ABLE TO GO TO THAT ROUNDTABLE, AND WE ASKED
7 DR. GUSMANO TO COME OUT, AND HE KINDLY AGREED
8 BECAUSE WE LET HIM KNOW ABOUT ALL THE WORK THAT THE
9 PATIENT ADVOCATES ON THE BOARD ARE DOING, THAT WE
10 THOUGHT THIS WOULD BE A TOPIC OF GREAT INTEREST FOR
11 OUR BOARD.

12 SO HE'S AGREED TO COME OUT TO TELL US
13 ABOUT THAT PROJECT, AND I THINK HE'S GOING TO BE
14 VERY INTERESTED IN YOUR INPUT AND PERSPECTIVES ON
15 HOW TO MOVE FORWARD HERE. SO WITHOUT FURTHER ADO,
16 LET ME INTRODUCE DR. GUSMANO.

17 DR. GUSMANO: THANK YOU, ELLEN. AND
18 THANKS TO ALL OF YOU. IT'S A REAL PLEASURE TO BE
19 HERE. I WANT TO THANK YOU FOR YOUR SUPPORT OF OUR
20 WORK. I HAVE BEEN DOING RESEARCH AND THINKING ABOUT
21 THE ROLE OF PATIENTS AND ADVOCACY GROUPS AND HEALTH
22 POLICY FOR QUITE A NUMBER OF YEARS. I HAD THE
23 PLEASURE LAST YEAR TO MEET DUANE ROTH AFTER HE HAD
24 PUBLISHED AN ARTICLE IN THE *HASTINGS CENTER REPORT*
25 INSPIRED IN LARGE PART TO HIS EXPERIENCE WORKING

BARRISTERS' REPORTING SERVICE

1 WITH CIRM ON THESE SORTS OF ISSUES.

2 WE SUBSEQUENTLY HAD BEEN HAVING
3 CONVERSATIONS WITH SOME OF THE STAFF AT THE FDA AND
4 LEARNED THAT THEY ARE ACTUALLY DEVELOPING SOME NEW
5 PROCESSES TO TRY TO EXPAND THE ROLE OF PATIENTS AND
6 OTHER ADVOCATES IN WHAT THEY'RE DOING, BUT THEY WERE
7 ACTUALLY STRUGGLING A BIT WITH HOW TO MOVE FORWARD
8 WITH THIS. AS I'LL DESCRIBE TO YOU IN JUST A FEW
9 MOMENTS, THEY ALREADY HAVE SOME EXISTING MECHANISMS
10 FOR INVOLVING PATIENTS IN THEIR ADVISORY BOARDS, AND
11 MANY OF YOU ARE FAMILIAR WITH THIS AND THEIR
12 RESEARCH ADVOCACY PROGRAMS, BUT THESE ARE RELATIVELY
13 LIMITED. AND THEY'RE LIMITED IN A COUPLE OF WAYS.

14 FIRST, THEY'RE LIMITED BECAUSE THE NUMBER
15 OF PEOPLE INVOLVED IS ACTUALLY RELATIVELY SMALL WHEN
16 YOU CONSIDER THE BROAD NUMBER OF STAKEHOLDERS THAT
17 THEY MIGHT REACH OUT TO, AND IT'S LIMITED LARGELY TO
18 SORT OF GO/NO-GO DECISIONS WITHIN REVIEW COMMITTEES.
19 AND OUR DISCUSSIONS IN JANUARY, WHICH INVOLVED
20 PEOPLE FROM THE FDA, PEOPLE FROM INDUSTRY, A NUMBER
21 OF DIFFERENT ADVOCACY GROUPS, AND SEVERAL LEADING
22 RESEARCHERS THAT HAVE THOUGHT A LOT ABOUT THE ROLE
23 OF PATIENTS IN THE HEALTH POLICY PROCESS, ENCOURAGED
24 A MORE EXPANSIVE VIEW OF THIS. AND I KNOW IT'S BEEN
25 A LONG DAY, SO I'VE GOT A BUNCH OF SLIDES. I'M

BARRISTERS' REPORTING SERVICE

1 GOING TO SKIP THROUGH MOST OF THEM RELATIVELY
2 QUICKLY, BUT I'LL BE HAPPY TO TAKE YOUR QUESTIONS AS
3 WE MOVE ALONG.

4 REALLY WHAT I WANT TO DO IS KIND OF TALK
5 ABOUT THE CURRENT ROLE AND THE VALUE OF PUBLIC
6 INVOLVEMENT IN THESE SORTS OF DECISIONS, THE CURRENT
7 PROGRAMS AT THE FDA, AND A LITTLE BIT ABOUT HOW OUR
8 CONVERSATION HAS EVOLVED IN TERMS OF WHAT THE AGENCY
9 SHOULD DO, AND I'LL ALSO DESCRIBE TO YOU MY NEXT
10 STEPS AND OUR NEXT STEPS AT THE HASTINGS CENTER WITH
11 THAT PROJECT.

12 ONE OF THE THINGS THAT REALLY CAME OUT AT
13 THE MEETING, IT WAS THE FIRST THING WE DISCUSSED,
14 WAS THE EXTENT TO WHICH A BROADER INVOLVEMENT OF
15 STAKEHOLDERS COULD REDEFINE OR AT LEAST POTENTIALLY
16 BROADEN THE DEFINITION OF BENEFITS AND RISKS. AS
17 I'LL MENTION TO YOU IN A FEW MOMENTS, THE FDA HAS
18 ACTUALLY DEVELOPED A NEW TOOL, WHICH IT'S JUST
19 ROLLING OUT, THAT I THINK HAS A LOT OF INTERESTING
20 POTENTIAL TO TRY TO GET ITS REVIEW COMMITTEES AT
21 LEAST INITIALLY LOOKING BACKWARDS TO TAKE A LOOK AT
22 SOME OF THE DECISIONS THEY MADE AND UNDERLYING
23 ASSUMPTIONS OF THOSE DECISIONS, AND WE THINK MOVING
24 FORWARD COULD BE USED PROSPECTIVELY TO THINK ABOUT
25 HOW THE FDA OUGHT TO THINK ABOUT BENEFITS AND RISKS

BARRISTERS' REPORTING SERVICE

1 AND STRIKING THAT BALANCE.

2 THERE WAS ALSO A LOT OF DISCUSSION ABOUT
3 HETEROGENEITY AND THE EXTENT TO WHICH YOU MIGHT WANT
4 TO HAVE MORE NUANCED DECISIONS ABOUT THE APPROVAL OF
5 NEW DRUGS FOR CERTAIN SUBPOPULATIONS. AND I'LL GET
6 TO THAT IN A MOMENT. BUT PERHAPS MOST IMPORTANT,
7 THE FOCUS WAS REALLY ON THE NEED TO BUILD TRUST IN
8 THE PROCESS AND ENHANCE THE LEGITIMACY OF FDA
9 DECISION MAKING. ONE OF OUR ATTENDEES NOTED THAT IF
10 YOU LOOK OVER THE LAST SEVERAL DECADES, EVERY TIME
11 THERE IS A SCANDAL OR A PROBLEM WITH A DRUG THAT'S
12 BEEN APPROVED BY THE FDA THAT RESULTS IN SOME SORT
13 OF HARM, PUBLIC CONFIDENCE IN THE AGENCY DIPS PRETTY
14 DRAMATICALLY. AND THAT'S TO BE EXPECTED IN MANY
15 WAYS, BUT TO SOME EXTENT WE THOUGHT THAT BROADENING
16 THE ROLE OF PATIENTS IN THEIR PROCESS COULD ACTUALLY
17 HELP INSULATE THE AGENCY FROM SOME OF THOSE HITS
18 BECAUSE PEOPLE WOULD HAVE GREATER TRUST IN THE
19 PROCESS.

20 DUANE WROTE QUITE ELOQUENTLY IN HIS PIECE
21 ABOUT THE EXTENT TO WHICH INDUSTRY, PATIENT
22 ADVOCATES, THE FDA ITSELF ARE ALL UNHAPPY AND
23 FRUSTRATED WITH THE CURRENT WAYS OF MAKING DECISIONS
24 AND BALANCING BENEFITS AND RISKS.

25 RIGHT NOW THEY HAVE A FAIRLY

BARRISTERS' REPORTING SERVICE

1 WELL-ESTABLISHED PATIENT REPRESENTATIVE PROGRAM.
2 THEY DRAW ON PATIENT REPRESENTATIVES AND FAMILIES OF
3 PATIENTS WHO SERVE IN A COUPLE OF DIFFERENT
4 CAPACITIES, ONE ON ADVISORY COMMITTEES, BUT ALSO AS
5 CONSULTANTS TO THEIR REVIEW COMMITTEES. THIS IS A
6 FAIRLY RIGOROUS PROCESS IN THE SENSE THAT THE PEOPLE
7 WHO ARE SELECTED ARE ACTUALLY HIRED AS SPECIAL
8 GOVERNMENT EMPLOYEES, WHICH MEANS THEY ARE SUBJECT
9 TO THE FULL RANGE OF CONFLICT OF INTEREST STANDARDS
10 OF GOVERNMENT EMPLOYEES, WHICH IS LARGELY A POSITIVE
11 THING. AND IN DOING MY BACKGROUND READING FOR THIS
12 PROJECT, THOUGH NOT ENTIRELY, I'LL GET TO THAT IN A
13 MOMENT, IT'S HIGHLY RESTRICTIVE AND PROBLEMATIC. SO
14 DESPITE THE GOOD INTENTIONS, IT CAUSES SOME
15 PROBLEMS.

16 IT'S ALSO, I WOULD CHARACTERIZE IT AS,
17 SOMEWHAT REACTIVE IN THE SENSE THAT THE FDA DOES NOT
18 DO A LOT OF OUTREACH TO STAKEHOLDERS TO BRING PEOPLE
19 IN. THE PEOPLE WHO ARE INVOLVED TEND TO BE PEOPLE
20 WHO HAPPEN TO BE WORKING WITH THE FDA OR WHO HAPPEN
21 TO STUMBLE ACROSS THE FDA WEBSITE AND MADE THEIR WAY
22 THROUGH ALL THE LAYERS TO FIND OUT THE OPPORTUNITIES
23 AVAILABLE TO THEM, AND THAT WAS A MAJOR PART OF OUR
24 DISCUSSION.

25 SIMILARLY, THERE WAS A RESEARCH ADVOCACY

BARRISTERS' REPORTING SERVICE

1 PROGRAM. EVEN THE PEOPLE AT THE FDA SAID THERE ARE
2 VERY FEW STAKEHOLDERS WHO ARE ACTUALLY EVEN AWARE OF
3 THE ADVOCACY PROGRAM OR THE FACT THAT ADVOCATES CAN
4 COME TO THE FDA WITH QUESTIONS AND CONCERNS OR
5 SUGGESTIONS FOR NEW RESEARCH. AND THAT WAS
6 IMPORTANT.

7 THIS IS REALLY WHAT LED THEM TO WHERE THEY
8 ARE NOW, WHICH IS, AND THIS HAS NOT GONE LIVE YET --
9 MY UNDERSTANDING FROM OUR MEETING IN JANUARY IS
10 THEY'RE SUPPOSED TO ROLL THIS OUT NEXT MONTH --
11 WHICH IS THE DEVELOPMENT OF A NEW FDA PATIENT
12 NETWORK. THIS, IN ADDITION TO PROVIDING ADDITIONAL
13 INFORMATION, EDUCATIONAL INFORMATION, TO A NUMBER OF
14 ADDITIONAL STAKEHOLDERS WILL RESULT IN A NEW WEBINAR
15 ON THEIR WEBSITE AND WHAT THEY HOPE WILL BE AN
16 ANNUAL CONFERENCE TO BRING TOGETHER DIFFERENT
17 STAKEHOLDERS TO ENGAGE THEM IN BROADER DISCUSSIONS
18 ABOUT THESE SORTS OF ISSUES.

19 RELATED TO THAT, ALTHOUGH NOT IDENTICAL,
20 WAS THE DEVELOPMENT OF A NEW BENEFIT RISK TOOL. AND
21 THIS BENEFIT RISK ASSESSMENT TOOL WAS FAIRLY SIMPLE,
22 AND IT BEGAN WITH AN ANALYSIS OF EACH CONDITION AND
23 A DISCUSSION OF UNMET NEED. AND THE IDEA WAS TO
24 PRESENT THIS FAIRLY SIMPLE TEMPLATE TO STAKEHOLDERS
25 WHO HAD BEEN INVOLVED IN THE REVIEW PROCESS TO GET

BARRISTERS' REPORTING SERVICE

1 THEM TO THINK ABOUT HOW THEY MADE DECISIONS ABOUT
2 UNMET NEED WITHIN PARTICULAR CONDITIONS AND THEIR
3 ASSESSMENT OF EVIDENCE. WHAT DO WE KNOW? WHAT
4 DON'T WE KNOW? AND HOW DID THAT INFORM THE
5 DECISION?

6 TO MAKE A LONG STORY SHORT, WE REALLY FELT
7 THAT THEY OUGHT TO TAKE THIS TOOL AND RUN WITH IT
8 AND USE IT IN A VARIETY OF OTHER SETTINGS. I'LL
9 COME BACK TO THAT IN JUST A MOMENT.

10 A LOT OF OUR DISCUSSION DID FOCUS ON THE
11 LIMITED NUMBER OF PEOPLE WHO ARE CURRENTLY INVOLVED
12 IN THE FDA PROGRAMS AND HOW PROBLEMATIC THAT COULD
13 BE. FIRST, IT'S NOT CLEAR WHETHER THESE PEOPLE ARE
14 REPRESENTATIVE IN ANY WAY, NOR IS IT CLEAR WHETHER
15 THE PEOPLE WHO REPRESENT THEMSELVES AS MEMBERS OF
16 GROUPS ARE REPORTING BACK TO THE GROUPS THAT THEY
17 CLAIM TO REPRESENT OR HOW THEY'RE SEEKING INPUT.
18 MUCH OF OUR CONVERSATION REVOLVED AROUND THE FACT
19 THAT THE FDA, IN ADDITION TO PROVIDING TRAINING
20 ABOUT THE REVIEW PROCESS AND THE LEGAL MECHANISMS AT
21 STAKE AND THE SCIENCE, SHOULD ACTUALLY PROVIDE
22 TRAINING TO EVERYONE INVOLVED, INCLUDING THE
23 SCIENTISTS THAT ATTEND THE MEETINGS, ABOUT THE
24 DELIBERATIVE PROCESS AND THE IMPORTANCE OF TAKING
25 THESE THINGS SERIOUSLY.

BARRISTERS' REPORTING SERVICE

1 THERE'S A LONG HISTORY IN THE UNITED
2 STATES GOING BACK TO PROGRAMS STARTED IN THE 1960S
3 AND 1970S OF TRYING TO INVOLVE THE LAY PUBLIC IN
4 INFORMING POLICY. AND THERE'S A LOT OF CONCERN
5 ABOUT DEFERENCE TO SCIENCE. BUT WE ACTUALLY BROUGHT
6 IN SOME EXPERTS WHO HAVE DONE A LOT OF WORK LOOKING
7 AT NEWBORN GENETIC SCREENING THAT MADE THE OPPOSITE
8 ARGUMENT, SAYING THAT IN MANY STATES, FOR EXAMPLE,
9 PATIENT ADVOCATES THAT WERE BROUGHT IN SORT OF
10 PUSHED WHAT THEY CHARACTERIZED AS THE URGENCY
11 NARRATIVE AND THE IDEA THAT THEY SORT OF PUSHED
12 ASIDE THE SCIENCE IN WAYS THAT WERE SOMEWHAT
13 PROBLEMATIC.

14 AND SO YOU REALLY WANT TO THINK CAREFULLY
15 ABOUT BOTH OF THESE SORTS OF PROBLEMS, AND
16 BROADENING THE NUMBER OF VOICES IN THE ROOM, WE
17 THOUGHT, WAS THE ANSWER TO THAT.

18 ELLEN MENTIONED BRIEFLY THIS IDEA OF
19 CONSUMERS. THERE WAS SOME DISCUSSION EARLY ON THAT
20 I THINK WE PUSHED ASIDE WITH THE ASSUMPTION THAT
21 PATIENTS ARE ALWAYS GOING TO WANT TO SORT OF CHANGE
22 THE BENEFIT RISK SCENARIO IN WAYS OF TAKING GREATER
23 RISKS, AND CONSUMERS, HOWEVER YOU DEFINE THAT, ARE
24 GOING TO BE MORE RISK AVERSE. AND MOST OF THE
25 PEOPLE IN THE ROOM ACTUALLY DISMISSED THAT

BARRISTERS' REPORTING SERVICE

1 PRESUMPTION. PARTICULARLY A LOT OF THE LEADING
2 CANCER ADVOCATES IN THE ROOM HAD SAID, DUE TO A
3 NUMBER OF THINGS, INCLUDING THE CONTROVERSY OVER
4 BONE MARROW TRANSPLANT TREATMENTS FOR BREAST CANCER,
5 THAT IN FACT THE ADVOCACY COMMUNITY, THEY FELT, HAD
6 BECOME MUCH MORE SOPHISTICATED ABOUT SCIENTIFIC
7 EVIDENCE AND WAS CERTAINLY CAPABLE OF LOOKING AT
8 THIS. THAT WAS ALSO SORT OF THE BACKBONE OF DUANE'S
9 ARTICLE WITHIN THE *HASTINGS CENTER REPORT*.

10 SO OUR RECOMMENDATIONS IN PART FOCUS ON
11 MOVING BEYOND JUST THE REVIEW PROCESS, AND A NUMBER
12 OF PEOPLE IN THE ROOM INVOKED, ALTHOUGH I'M
13 COGNIZANT OF THE TROUBLE DON BERWICK GOT INTO FOR
14 REFERENCING ENGLAND, BUT I'LL REFERENCE THE NHS
15 ANYWAY, AND SUGGEST THAT THE CITIZENS COUNCIL THAT
16 HAS BEEN ADOPTED BY THE NATIONAL INSTITUTE FOR
17 HEALTH IN CLINICAL EXCELLENCE WAS ONE KIND OF MODEL
18 THAT PEOPLE TALKED ABOUT AS POTENTIALLY ANOTHER
19 MECHANISM THAT THE FDA MIGHT CONSIDER WHEN BRINGING
20 IN A BROADER SET OF VOICES.

21 THE IDEA HERE WAS NOT TO ONLY INVOLVE
22 PATIENTS IN THE REVIEW PROCESS AND IN ADVISORY
23 COMMITTEES, BUT ACTUALLY TO THINK ABOUT INVOLVING
24 PATIENTS IN WHAT YOU MIGHT CONSIDER BROADER POLICY
25 QUESTIONS ABOUT HOW TO CONSIDER RISKS AND BENEFITS

BARRISTERS' REPORTING SERVICE

1 ABOUT HOW TO SHAPE THE DIRECTION OF RESEARCH AND TO
2 USE OTHER MECHANISMS THAT WOULD NOT RESTRICT IT, IN
3 FACT, TO HIRING PEOPLE AS SPECIAL GOVERNMENT
4 EMPLOYEES SUBJECT TO ALL THE CONFLICT OF INTEREST
5 RESTRICTIONS. THAT IF YOU MOVED BEYOND THOSE FAIRLY
6 NARROW PROCESSES, YOU MIGHT ACTUALLY BE ABLE TO
7 ENGAGE A BROADER NUMBER OF STAKEHOLDERS IN WHAT THE
8 FDA IS DOING AND THINKING ABOUT.

9 MY SORT OF SOBER COMMENTS ON THIS CAME
10 FROM A LOT OF MY RESEARCH ON EFFORTS TO BRING ABOUT
11 DELIBERATION IN THE U.S. AND OTHER COUNTRIES. IF
12 YOU READ A LOT OF GOVERNMENT REPORTS, INCLUDING THE
13 MOST RECENT PRESIDENTIAL COMMISSION ON BIOETHICS,
14 THE IDEA THAT WE SHOULD CREATE DELIBERATIVE
15 PROCESSES IS SOMETHING THAT IS VERY HOT IN POLICY
16 CIRCLES RIGHT NOW. IT'S HARD TO FIND ANYBODY WHO
17 OPPOSES THIS IDEA AND VERY FEW PEOPLE WHO ACTUALLY
18 THINK ABOUT IT SERIOUSLY. AND THE PEOPLE WHO DO
19 THINK ABOUT IT SERIOUSLY RECOGNIZE THAT IT'S REALLY
20 HARD TO DO. IT'S HARD TO DO BECAUSE TAKING
21 DELIBERATION SERIOUSLY MEANS AN INTENSE COMMITMENT
22 OF TIME. IT OFTEN REQUIRES REGULAR INTERACTION
23 AMONG SMALL GROUPS OF PEOPLE WHO GET TO KNOW EACH
24 OTHER OVER TIME. AND THERE'S A TENSION BETWEEN
25 WANTING TO EXPAND THE NUMBER OF VOICES INVOLVED IN

BARRISTERS' REPORTING SERVICE

1 THE PROCESS AND THAT NEED FOR REGULAR INTERACTION.

2 SO WE TALKED QUITE A BIT ABOUT THIS, AND I
3 THINK ONE OF THE THINGS THAT WE NEED TO DO MOVING
4 FORWARD IS TO FIGURE OUT HOW TO HELP THE FDA
5 UNDERSTAND HOW TO BALANCE THAT. ONE OF THE THINGS
6 THAT CAME THROUGH VERY CLEARLY IN ALL OF OUR
7 DISCUSSIONS WAS THE NEED TO ASK MORE FROM
8 STAKEHOLDER GROUPS, THAT THE FDA COULD NOT, IN FACT,
9 DO ALL OF THIS AND SHOULD NOT DO ALL OF THIS, BUT
10 THE FDA COULD ACTUALLY FACILITATE DISCUSSIONS OF
11 THIS SORT AMONG OTHER STAKEHOLDER GROUPS. SOME OF
12 THE REPRESENTATIVES FROM THE FRIENDS OF CANCER
13 RESEARCH, FOR EXAMPLE, TALKED ABOUT THE TRAINING
14 THAT THEY DO WITH THEIR OWN MEMBERSHIP IN TERMS OF
15 HOLDING ANNUAL MEETINGS AND EVEN BRINGING FDA
16 REPRESENTATIVES TO THEIR MEETINGS.

17 I'LL JUST SORT OF SKIP THROUGH THIS EXCEPT
18 TO SAY HERE ARE SOME OF OUR PRELIMINARY
19 OBSERVATIONS. ONE IS THAT THE FDA NEEDS TO MOVE
20 AWAY FROM THEIR SOMEWHAT PASSIVE INSTEAD OF REACTIVE
21 PROCESS AND TO DO MUCH GREATER OUTREACH. AND HERE A
22 NUMBER OF THE PEOPLE WHO WERE IN THE ROOM OFFERED TO
23 GET INVOLVED AND SAID THAT THEY WANTED MORE
24 INFORMATION, FOR EXAMPLE, ABOUT THE DEVELOPMENT OF
25 THE PATIENT ADVOCACY NETWORK. I THINK ALL OF YOU

BARRISTERS' REPORTING SERVICE

1 COULD HELP IN THIS PROCESS AS WELL. I'LL BE PUTTING
2 TOGETHER A MEETING SUMMARY AND ALSO AN INITIAL ISSUE
3 BRIEF THAT WILL BE AVAILABLE FOR YOUR COMMENT BY THE
4 END OF APRIL, AND I'D VERY MUCH APPRECIATE YOUR
5 INPUT INTO HOW THEY CAN DO A BETTER JOB WITH THEIR
6 OUTREACH.

7 ONCE AGAIN, GOING BEYOND THE ADVISORY AND
8 THE REVIEW COMMITTEES, TO STOP THINKING ABOUT THE
9 INVOLVEMENT OF PATIENTS AND PATIENT ADVOCACY GROUPS
10 NARROWLY IN TERMS OF THIS ONE DIMENSION OF A LONG
11 SERIES OF DECISIONS. IN LISTENING TO YOUR
12 DISCUSSION OF YOUR STRATEGIC PLAN AND THE NEED TO
13 THINK OVER FIVE- AND TEN-YEAR PERIODS AND EVEN
14 LONGER FOR THE DEVELOPMENT OF THE SCIENCE AND
15 THINKING ABOUT HOW TO INVOLVE PATIENTS AT THE FDA
16 LEVEL BEFORE THEY GET TO A STAGE IN THE PROCESS THAT
17 IS SORT OF MUCH FURTHER ALONG IS IMPORTANT.

18 THERE WAS ALSO, I THINK, A FAIRLY LARGE
19 CONSENSUS THAT THE FDA SHOULD THINK SERIOUSLY ABOUT
20 THE MEANING OF REPRESENTATION IN GROUPS TO TRY TO
21 ENCOURAGE THEM TO REPORT BACK TO THEIR GROUPS ABOUT
22 THE CONVERSATIONS THAT THEY HAD AT THE FDA, BUT ALSO
23 TO ENCOURAGE THE PEOPLE WHO WERE APPROVED FOR
24 ATTENDING MEETINGS TO SEEK INPUT FROM THOSE GROUPS
25 IN SOME SYSTEMATIC WAY AND TO PROVIDE SOME TRAINING

BARRISTERS' REPORTING SERVICE

1 ALONG THOSE LINES.

2 AND THEN, FINALLY, OUR RECOMMENDATION WAS
3 THAT THEY BUILD ON THE BENEFIT RISK ASSESSMENT TOOL
4 THAT THEY DEVELOPED FOR THEIR REVIEW PROCESS BECAUSE
5 THINKING VERY SERIOUSLY ABOUT THE CURRENT STATE OF
6 DIFFERENT CONDITIONS, THE CURRENT STATE OF EVIDENCE
7 ABOUT THOSE CONDITIONS, AND WHAT SHOULD BE
8 CONSIDERED BENEFIT AND WHAT SHOULD BE CONSIDERED A
9 RISK, HOW THOSE SHOULD BE MEASURED ARE IMPORTANT
10 TOOLS, NOT JUST FOR THE REVIEW PROCESS, BUT FOR THE
11 BROADER CONVERSATION THAT WE HOPE TO STIMULATE.

12 SO I WILL END THERE AND HAPPY TO TAKE ANY
13 OF YOUR COMMENTS OR QUESTIONS.

14 CHAIRMAN THOMAS: MR. ROTH.

15 MR. ROTH: THANK YOU, MICHAEL, FOR THE
16 OVERVIEW. AND TO ALL OF YOU THAT HAVE SAT AND
17 LISTENED TO ME TALK ABOUT THIS FOR A WHILE, IT IS
18 THE CREDIBILITY OF THIS ORGANIZATION THAT REALLY
19 RESONATED, I THINK, WITH THE FDA. THE FACT THAT WE
20 HAVE PEOPLE THAT HAVE SAT HERE AS PART OF THE
21 PROCESS, INFORMED PROCESS, INSTEAD OF SAYING YOU CAN
22 SIT OUT IN THE AUDIENCE AND WE'LL TALK IT OVER AND
23 THEN YOU COME TO THE MICROPHONE AND GIVE US SOME
24 ADVICE. THAT'S NOT WHAT HAPPENS HERE. AND THAT'S
25 WHAT WE WERE TRYING TO DO.

BARRISTERS' REPORTING SERVICE

1 BUT TO START WITH, YOU REALIZE, AND
2 SOMEBODY SAID THIS, IT'S SO IMPORTANT TO THINK
3 ABOUT, WE HAVE THE INVERSE OF MOORE'S LAW IN TERMS
4 OF NEW THERAPIES. MOORE'S LAW YOU HAVE PRICE, TWICE
5 THE POWER EVERY 18 MONTHS. IT'S COSTING TWICE AS
6 MUCH, TAKING TWICE AS LONG, AND WE'RE GETTING HALF
7 AS MANY NEW THERAPIES IN THE UNITED STATES. THAT
8 CAN'T GO ON. THAT'S NOT SUSTAINABLE. IT HAS A
9 DRAMATIC IMPACT ON WHAT WE'RE DISCUSSING TODAY.
10 HOW DO YOU BREAK THAT LOGJAM?

11 THE SECOND PART OF THAT IS THAT THE FDA
12 WAS QUITE RECEPTIVE TO THESE CONVERSATIONS, WHICH I
13 THINK MICHAEL AND ELLEN AND ALL OF US WERE TAKEN BY,
14 THAT THEY REALLY, REALLY ARE LOOKING FOR WAYS TO
15 MAKE THIS WORK. AND THERE WAS CONSENSUS THAT IT
16 WORKS FOR NOBODY RIGHT NOW. PATIENTS AREN'T HAPPY.
17 THEY AREN'T GETTING THE THERAPIES. THE COMPANIES
18 AREN'T HAPPY. THE FDA GETS CRITICIZED ALL THE TIME.

19 THIS INFORMED PATIENT INVOLVEMENT IS WHAT
20 WE BELIEVE COULD FUNDAMENTALLY CHANGE THINGS. IF
21 YOU SAT THROUGH THESE DECISION-MAKING PROCESSES, YOU
22 COULD CONTRIBUTE AS YOU DO TO EVERYTHING WE'VE DONE
23 TOGETHER ON THIS BOARD.

24 AND THEN FINALLY, THIS WHOLE THING OF
25 TRUST. THESE DISEASES DON'T BELONG TO THE COMPANIES

BARRISTERS' REPORTING SERVICE

1 THAT ARE DEVELOPING THE THERAPIES. THEY DON'T
2 BELONG TO THE FDA. THEY BELONG TO THE PEOPLE WHO
3 HAVE THE DISEASE. AND UNTIL THEY INSERT THEMSELVES
4 IN THIS PROCESS, I THINK YOU'RE NEVER GOING TO GET
5 RID OF THIS INHERENT BIAS. THE COMPANIES SEEING THE
6 GOOD THEY CAN DO, THE FDA SEEING WHAT POSSIBLY COULD
7 GO WRONG, AND THAT DANCE JUST GOES ON AND ON, AND WE
8 GET VERY LITTLE NEW PRODUCTS. IF THE PATIENT'S IN
9 THE ROOM, EVERYTHING CHANGES BECAUSE WE HAVE TO VIEW
10 IT THROUGH YOUR EYES, WHICH I DON'T THINK IS
11 POSSIBLE.

12 CHAIRMAN THOMAS: ADDITIONAL COMMENTS?
13 MR. SHEEHY.

14 MR. SHEEHY: I'M GLAD YOU BROUGHT UP
15 MOORE'S LAW. I DON'T KNOW IF SOME OF THIS ISN'T
16 FIXING A BROKEN SYSTEM THAT IS IRREPARABLE. I
17 THOUGHT THAT ANDY GROVE MADE A GREAT POINT IN HIS
18 TALK, THAT THE FDA FUNDAMENTALLY NEEDS TO CHANGE
19 WHAT IT DOES. HIS RADICAL SUGGESTION WAS THAT YOU
20 JUST DO SAFETY, AND YOU USE THE POWER THAT'S
21 AVAILABLE WITHIN THE INFORMATION TECHNOLOGIES TO
22 COLLECT DATA ON PATIENTS AS THEY CHOOSE, ESPECIALLY
23 IF YOU LOOK AT CANCER, WHICH IS BECOMING MORE AND
24 MORE PERSONALIZED, AND COLLECT DATA ON PEOPLE WHO
25 ARE TRYING THERAPIES. BUT RATHER THAN HAVE

BARRISTERS' REPORTING SERVICE

1 THERAPIES THAT MIGHT WORK FOR A HANDFUL OF PATIENTS
2 BOTTLED UP BECAUSE THEY'RE IN THESE LARGE RANDOMIZED
3 CONTROLLED TRIALS AND THEY'RE BLOCKED FOR EFFICACY.

4 AND THE OTHER PART OF THIS TOO IS THE
5 PAYER, WHICH I THINK DR. LUBIN WAS TALKING ABOUT
6 TOO. THE REASON THE FDA IS SO AGGRAVATING IS NOBODY
7 WILL PAY FOR ANYTHING TILL THE FDA APPROVES IT. SO
8 YOU CAN HAVE PATIENT ADVOCATES IN THE ROOM AND THE
9 FDA DOING WHAT'S IT'S GOING TO DO WITH MORE PATIENT
10 ADVOCATES, BUT AS LONG AS THE FDA IS USING THESE
11 REALLY, I THINK, ARCHAIC MEASURES OF EFFICACY AND
12 THAT THEY REALLY ARE AN EFFICACY GATEKEEPER, WHICH
13 I'M NOT EVEN SURE IS REALLY THE APPROPRIATE JOB FOR
14 THEM. ANDY GROVE ARGUES THAT THAT'S NOT THE
15 APPROPRIATE JOB FOR THEM. THEIR JOB IS SAFETY. AND
16 THAT THE REAL THING WE SHOULD BE DOING IS COLLECTING
17 ALL THIS INFORMATION SO THAT PEOPLE CAN MAKE
18 INFORMED CHOICES ON WHAT MAY OR MAY NOT WORK WITH
19 THEM ESPECIALLY AS WE'RE HEADING TOWARDS GENOMIC
20 INFORMATION THAT WILL COST A NICKEL, IT LOOKS LIKE.

21 SO IT'S ALMOST LIKE WHAT WE'RE NEEDING IS
22 NOT MORE BAND-AIDS, BUT WE NEED A WHOLE NEW BOAT.
23 WE NEED TO RETHINK THE ENTIRE SYSTEM BECAUSE WE HAVE
24 TO GET PEOPLE TO PAY FOR THESE THERAPIES, THAT IF
25 THE SYSTEM WAS REALLY GOING TO WORK WELL, WOULD HAVE

BARRISTERS' REPORTING SERVICE

1 A BASIC SAFETY PROFILE FROM THE FDA AND THEN
2 PATIENTS WOULD MAKE THEIR OWN INFORMED DECISIONS ON
3 WHAT THEY WANTED TO DO, ESPECIALLY IF THEY HAVE
4 DISEASES OR CONDITIONS THAT ARE LIFE-THREATENING,
5 AND THEY WANT TO TRY SOMETHING. THEY DON'T WANT TO
6 GO GENTLY INTO THAT GOOD NIGHT.

7 SO I DON'T KNOW THAT JUST HAVING BETTER
8 EDUCATED, BETTER REPRESENTATIVE PATIENT ADVOCATES
9 BETTER INVOLVED IN THE CURRENT PROCESS IS GOING TO
10 MAKE A DIME'S BIT OF DIFFERENCE.

11 DR. GUSMANO: I WOULD JUST SAY A COUPLE OF
12 THINGS. FIRST, I THINK I AGREE WITH YOU IF WHAT
13 YOU'RE DOING IS HAVING A BROADER RANGE OF BETTER
14 EDUCATED PATIENTS INVOLVED IN THE CURRENT PROCESS.
15 I THINK ONE OF THE THINGS WE WERE CALLING FOR, IN
16 FACT, WAS AN INVOLVEMENT OF PATIENTS AT THE POLICY
17 LEVEL TO ACTUALLY DEVELOP WHOLE NEW MECHANISMS.
18 NOW, WHETHER THE FDA'S SORT OF LEGAL MANDATE OUGHT
19 TO BE CHANGED IS AN IMPORTANT ISSUE THAT NEEDS TO
20 HAVE SERIOUS CONSIDERATION. WHETHER THAT WOULD BE
21 ALONE ENOUGH TO GET CMS, LET ALONE PRIVATE PAYERS,
22 TO ACTUALLY PAY FOR ADDITIONAL THINGS IS YET ANOTHER
23 MATTER.

24 ON A COMPLETELY DIFFERENT SIDE NOTE, I'M
25 CURRENTLY SUPERVISING A DOCTORAL STUDENT WHO'S

BARRISTERS' REPORTING SERVICE

1 LOOKING AT THE ROLE OF COMPARATIVE EFFECTIVENESS
2 RESEARCH AND USE OF COMPARATIVE EFFECTIVENESS
3 RESEARCH NOT ONLY BY CMS, BUT BY PRIVATE INSURANCE
4 COMPANIES. SO SHE'S DONE A LOT OF CONFIDENTIAL
5 INTERVIEWS. AND WHAT WAS SURPRISING TO HER, SHE
6 EXPECTED TO FIND VERY LITTLE USE AT THE FEDERAL
7 LEVEL AND A GREAT DEAL OF USE NOT ONLY OF
8 COMPARATIVE EFFECTIVENESS RESEARCH, BUT ECONOMIC
9 EVALUATION OF NEW TECHNOLOGIES BY PRIVATE INSURANCE
10 COMPANIES, AND SHE DIDN'T ACTUALLY FIND AS MUCH AS
11 SHE THOUGHT LARGELY BECAUSE THEY WERE SKEPTICAL OF
12 THE INFORMATION AND THEY WEREN'T SURE THEY COULD ACT
13 ON IT.

14 SO I THINK THIS OPENS UP A FAIRLY BROAD
15 SET OF ISSUES THAT ARE VERY IMPORTANT, AND I THINK
16 THE CALL FOR THE INVOLVEMENT OF PATIENTS AT A POLICY
17 LEVEL GETS EXACTLY AT WHAT YOU'RE TALKING ABOUT,
18 PARTICULARLY THE ISSUE AROUND PERSONALIZED MEDICINE
19 AND HOW TO DEAL WITH THAT AS THE SCIENCE MOVES
20 FORWARD BECAUSE THE REASON PEOPLE INVOKE THE
21 CITIZENS COUNCIL AT NICE, EVEN THOUGH MOST OF THE
22 POLITICAL RHETORIC IN THE U.S., NICE IS NOW
23 ASSOCIATED WITH SAYING NO TO NEW TECHNOLOGY. IN
24 FACT, THE EFFECT NICE HAS HAD IN THE NHS IS ACTUALLY
25 TO EXPAND THE NUMBER OF DRUGS THAT THE NHS NOW PAYS

BARRISTERS' REPORTING SERVICE

1 FOR. THE CITIZENS COUNCIL HAS REALLY PUSHED THE NHS
2 IN THE DIRECTION OF CONDITIONAL APPROVAL FOR
3 PARTICULAR SUBPOPULATIONS. THANK YOU.

4 DR. LUBIN: I THINK THE TOPIC IS
5 FASCINATING, BUT ONE THING THAT'S ALWAYS STRUCK ME
6 IN THIS IS THE EFFECTS OF LOBBY GROUPS AND THE LACK
7 OF SOCIOECONOMIC CONSIDERATIONS, THAT THE POORER
8 GROUPS ARE NOT AT THE TABLE. THAT THE GROUPS THAT
9 HAVE THE STRONG LOBBIES ARE AT THE TABLE. I KNOW
10 THIS FROM SICKLE SELL. QUITE CLEAR THAT THE
11 ADVANCES AND THE THERAPIES IN THAT GROUP VERSUS A
12 SMALLER GROUP OF PATIENTS IN THE UNITED STATES,
13 THALASSEMIA, VERY EFFECTIVE AT THE LOBBY AND THEY'RE
14 RIGHT AT THE TABLE AND THEY'RE RIGHT AT THE FDA AND
15 THEY'RE RIGHT AT THE NIH AND CHANGES HAVE OCCURRED.

16 SO HOW DO WE AS A GROUP, CALIFORNIA
17 INSTITUTE OF REGENERATIVE MEDICINE, TRYING TO BE
18 INCLUSIVE. WE KNOW WHO VOTED IN THIS STATE FOR THIS
19 INITIATIVE. HOW DO WE GET THAT SENSE OF VALUE IN
20 THE CONCEPTS THAT WE'RE CONSIDERING THAT WILL MAKE
21 US STAND OUT FROM OTHER ORGANIZATIONS?

22 DR. GUSMANO: I COULDN'T AGREE WITH YOU
23 MORE. I THINK THIS IS ACTUALLY WHERE WE DESPERATELY
24 NEED YOUR INPUT. I THINK IT'S WHY DUANE WROTE AND
25 SUGGESTED THAT CIRM IS A BIT OF A MODEL. MY OWN

BARRISTERS' REPORTING SERVICE

1 BIAS IN THIS AND THE REASON I'VE BEEN WRITING ABOUT
2 THE ROLE OF PATIENTS AND OTHER ADVOCACY GROUPS IN
3 THE HEALTH POLICY PROCESS FOR ABOUT 15 YEARS NOW IS,
4 IN FACT, EXACTLY THAT CONCERN, THAT THERE WAS A REAL
5 BIAS IN THE PROCESS IN THE SENSE THAT
6 WELL-ORGANIZED, WELL-FINANCED GROUPS CAN HAVE A
7 VOICE AT THE TABLE AND OTHER GROUPS DO NOT.

8 ONE OF OUR CONCERNS COMING OUT OF THE
9 MEETING WAS THAT, IN FACT, WE HAD LESS DISCUSSION
10 ABOUT SORT OF FINANCIAL RESOURCES, ALTHOUGH THAT WAS
11 KIND OF UNDERNEATH ALL OF THE DISCUSSION ANYWAY, WAS
12 THAT THE REASON IT WAS PROBLEMATIC THAT THERE ARE
13 ONLY 160 APPROVED PEOPLE WITHIN THE POOL FOR
14 PARTICIPATION IN ADVISORY GROUPS AND REVIEW
15 COMMITTEES WAS THAT IT WAS A FAIRLY SORT OF NEGATIVE
16 REACTIVE PROCESS WHERE IT WAS PEOPLE WHO ALREADY HAD
17 THE RESOURCES, ALREADY HAD THE ORGANIZATION, ALREADY
18 HAD THE WHEREWITHAL TO COME TO THE FDA AND TO GET
19 THE APPROVAL. THE REASON FOR CALLING FOR THESE SORT
20 OF BROADER MECHANISMS AND COUPLED WITH THAT A REAL
21 COMMITMENT ON THE PART OF THE FDA TO, A, DO OUTREACH
22 AND, B, PROVIDE TRAINING FOR GROUPS IN HOW TO
23 PARTICIPATE IN THIS PROCESS WAS TO OVERCOME IT.

24 GIVEN MY TRAINING IN POLITICAL SCIENCE,
25 I'M JUST DEEPLY SKEPTICAL. IT'S A DISCIPLINARY

BARRISTERS' REPORTING SERVICE

1 BIAS. SO DO I THINK THAT WOULD BE SUFFICIENT TO
2 OVERCOME THE KIND OF PROBLEM YOU'RE TALKING ABOUT?
3 PROBABLY NOT. I THINK IT'S PROBABLY A STEP IN THE
4 RIGHT DIRECTION.

5 CHAIRMAN THOMAS: HE CAME ALL THE WAY
6 ACROSS COUNTRY, SO JUST WANT TO MAKE SURE THAT HE'S
7 GIVEN HIS FULL DUE AND DISCUSSION ON THE TOPIC.

8 JOAN.

9 MS. SAMUELSON: ONE THING TO ENCOURAGE
10 PARTICIPATION OF MORE PATIENT ADVOCATES, I THINK YOU
11 WOULDN'T HAVE TO LOOK VERY FAR. YOU COULD SUPPORT
12 THE EXPERIMENT THAT'S GOING ON IN THIS ROOM. THIS
13 IS ONE OF THE FEW PLACES THAT THERE ARE TRUE PATIENT
14 ADVOCATES RATHER THAN JUST PATIENT REPRESENTATIVES
15 WHO PERFORM ALL SORTS OF WONDERFUL FUNCTIONS, BUT
16 TYPICALLY AREN'T PATIENT ADVOCATES. AND WHAT CAN BE
17 DONE IS TO MAKE IT POSSIBLE TO DO THIS HELLISHLY
18 DIFFICULT JOB. AND IT NEEDS SUFFICIENT FINANCIAL
19 SUPPORT, SUPPORT IN TIME, SUPPORT IN RESOURCES, AND
20 SUPPORT IN SCIENTIFIC TRAINING, AND STAFF SUPPORT.

21 DR. GUSMANO: I THINK THAT'S AN IMPORTANT
22 POINT, AND IT'S ONE THAT WE REITERATED OVER AND OVER
23 AGAIN. I THINK THE FDA WAS HAPPY WE DID THAT GIVEN
24 THAT THEIR BUDGETS ARE CONTINUALLY BEING CUT AS
25 WELL.

BARRISTERS' REPORTING SERVICE

1 MY BIG CONCERN AND MY SKEPTICISM ABOUT
2 CALLS FOR PATIENT INVOLVEMENT IS THAT IT JUST TURNS
3 INTO WINDOW DRESSING. ONE WAY IT CAN TURN INTO
4 WINDOW DRESSING IS NOT TO PROVIDE DOLLARS BEHIND IT
5 TO MAKE SURE THAT YOU FACILITATE THE KIND OF HARD
6 WORK YOU'RE DESCRIBING.

7 CHAIRMAN THOMAS: ARE THERE FURTHER
8 COMMENTS? THANK YOU VERY MUCH FOR COMING OUT AND
9 GIVING US YOUR REPORT. WE APPRECIATE A LOT OF GOOD
10 INSIGHT AND FOOD FOR THOUGHT FOR US. AND PLEASE
11 CONTINUE THE DIALOGUE WITH MEMBERS HERE OF THE
12 BOARD, AND ANY WAY THAT WE CAN HELP, WE'D OBVIOUSLY
13 BE VERY HAPPY TO. SO THANK YOU VERY MUCH.

14 (APPLAUSE.)

15 CHAIRMAN THOMAS: OKAY. DO MEMBERS -- WE
16 HAVE TWO MORE ITEMS, ONE OF WHICH IS GOING TO BE
17 FAIRLY LENGTHY. DO MEMBERS WANT TO TAKE ONE LAST
18 BREAK FOR FIVE MINUTES? I THINK THE ANSWER IS YES.
19 I SEE A LOT OF NODDING. LET'S BE BACK PROMPTLY.

20 (A RECESS WAS TAKEN.)

21 CHAIRMAN THOMAS: EVERYBODY PLEASE TAKE
22 YOUR SEATS. WE ARE AROUND THE CLUBHOUSE TURN,
23 HEADING FOR HOME. EVERYBODY PLEASE TAKE YOUR SEATS.

24 WE HAVE TWO ITEMS LEFT ON THE AGENDA.
25 BOTH ARE VERY IMPORTANT. ONE, IN THEORY, COULD LEAD

BARRISTERS' REPORTING SERVICE

1 TO CLOSED SESSION. SO I THINK WHAT WE'RE GOING TO
2 DO IS TAKE THEM IN REVERSE ORDER AND LEAVE THE
3 CLINICAL DEVELOPMENT ADVISORY PANEL TILL THE FINAL
4 ITEM AND TAKE UP NOW THE DISCUSSION OF THE PROPOSED
5 BUDGET, WHICH MATT HAS SPENT A GREAT DEAL OF TIME
6 PUTTING TOGETHER FOR THIS PRESENTATION OVER SEVERAL
7 MONTHS.

8 SO LET'S PROCEED TO THE ITEM, WHATEVER
9 ITEM NUMBER, NO. 13, YES. NO. 13 ON THE BUDGET.

10 DR. PLUNKETT: THANK YOU. SO IN THE
11 INTEREST OF TIME, I WILL TRY AND JUST HIT THE HIGH
12 NOTES HERE, BUT I WILL DEFINITELY RESPOND TO AS MANY
13 QUESTIONS AS COME IN HERE.

14 THE FIRST THING THAT I WANTED TO DO IS
15 JUST BRIEFLY RECAP THE ANNUAL GOALS FOR CIRM, WHICH
16 ELLEN ALREADY TOUCHED ON EARLIER. AND FROM THE
17 CFO'S VIEW, THESE REALLY ARE VERY HELPFUL IN BOTH
18 FOCUSING AND PLANNING THE BUDGET FOR THE
19 ORGANIZATION BECAUSE THE DOLLARS THAT WE SPEND
20 REALLY NEED TO TIE OUT TO WHAT WE'RE TRYING TO
21 ACHIEVE IN THE NEXT YEAR AND VICE VERSA. SO WE HAD
22 A VERY ROBUST INTERNAL PROCESS TO PUT THESE GOALS IN
23 PLACE. I DON'T KNOW IF FOLKS HERE IN THE ROOM HAVE
24 SEEN THIS TYPE OF ANNUAL GOAL BEFORE, BUT I THINK
25 IT'S BEEN VERY HELPFUL FOR ALL OF US INTERNALLY AS

BARRISTERS' REPORTING SERVICE

1 WE'RE MOVING FORWARD.

2 THERE'S JUST A COUPLE OF THINGS THAT I
3 WOULD LIKE TO FLAG FOR YOU AND SOME OF THE
4 CONSEQUENCES HERE. WORKING BACKWARDS FROM SOME OF
5 OUR FIVE-YEAR GOALS, THERE'S THINGS LIKE A CERTAIN
6 NUMBER OF TRANSLATIONAL PROGRAMS. I BELIEVE WE HAVE
7 42 TODAY. THAT NUMBER COULD INCREASE BY 25 OR 35
8 THIS YEAR ALONE. AND SO THE NEED TO MONITOR AND
9 ASSIST AND GUIDE AND ALL THOSE THINGS THAT WE NEED
10 TO DO FOR THOSE PROGRAMS WILL RESULT IN, FOR
11 EXAMPLE, THE NEED FOR AN ADDITIONAL MEDICAL OFFICER
12 AT THE ORGANIZATION. SO YOU WILL SEE HOW THESE
13 GOALS FOR THE ORGANIZATION TIE BACK TO THE DOLLARS
14 WE'RE SPENDING AND HOW THE DOLLARS WE'RE SPENDING
15 HELP US ACHIEVE THE GOALS.

16 ON THE OTHER END OF THE SPECTRUM, IT WOULD
17 CERTAINLY BE MUCH EASIER TO PUT TOGETHER A BUDGET
18 THAT LIVES WITHIN OUR 6-PERCENT EXPENSE CAPS IF OUR
19 GOALS WEREN'T NEARLY SO AMBITIOUS. THIS IS THE SAME
20 SLIDE THAT I SHOWED YOU TWO MONTHS AGO, AND I WILL
21 SHOW YOU AN UPDATED VERSION OF THIS AT THE END BASED
22 ON SOME OF THE NEW WORK THAT WE'VE BEEN DOING.

23 JUST TO RECAP THE PROCESS, TO DATE AT THE
24 END OF JANUARY, WE DISTRIBUTED THE CURRENT YEAR
25 BUDGET YEAR-TO-DATE SPENDING AND A PLANNING TEMPLATE

BARRISTERS' REPORTING SERVICE

1 TO THE GROUP HEADS. OVER THE PRESIDENT'S WEEKEND, I
2 WAS ABLE TO PUT TOGETHER A FIRST DRAFT OF THE BUDGET
3 AND HAD SOME INFORMAL REVIEWS WITH EACH OF THE GROUP
4 HEADS AS WELL AS THE PRESIDENT AND THE CHAIR,
5 TIGHTENED THINGS UP A LITTLE BIT, AND HAD A FURTHER
6 REVIEW TOWARDS THE END OF FEBRUARY WITH J.T. AND
7 WITH ALAN, HAD A CHANCE TO REVIEW SOME ADDITIONALLY
8 UPDATED MATERIALS WITH MICHAEL GOLDBERG AND MARCY
9 FEIT AT THE END OF FEBRUARY, AND THEN TODAY BRINGS
10 US TO THE INITIAL REVIEW WITH THE ICOC.

11 AND TO ANSWER THE QUESTION WHICH I'M SURE
12 MANY OF YOU ARE LOOKING FOR IS WE'RE REALLY NOT
13 ASKING FOR A VOTE TO APPROVE THE BUDGET AT THIS
14 POINT. THAT WILL COME AT THE MAY BOARD MEETING, BUT
15 WHAT I'M REALLY LOOKING FOR IS FEEDBACK, GUIDANCE,
16 INPUT ON WHERE THIS IS GOING AS WELL AS ANY SPECIFIC
17 SUGGESTIONS, COMMENTS WHICH YOU MAY HAVE.

18 ONE OF THE THINGS THAT I WOULD LIKE TO
19 HIGHLIGHT IS WE HAVE MADE SOME SIGNIFICANT CHANGES
20 TO THE PRESENTATION OF THE BUDGET. WE'VE GREATLY
21 EXPANDED THE NUMBER OF COST CENTERS. THESE ARE THE
22 COLUMNS THAT YOU SEE IN THE BUDGET. SO THERE'S
23 REALLY EIGHT DIFFERENT GROUPS NOW. YOU CAN SEE THEM
24 LISTED ON THE LEFT. I WILL FLAG JUST A COUPLE OF
25 THESE. ONE OF THEM IS THAT WE DO HAVE ALL OF THE

BARRISTERS' REPORTING SERVICE

1 LEGAL EXPENSES FOR THE ORGANIZATION IN ONE COLUMN
2 NOW. AND REALLY THIS IS TIED OUT TO FUNCTIONAL
3 AREAS AND NOT REPORTING. I DO WANT TO REMIND
4 EVERYBODY OF THAT.

5 THE SECOND THING IS THAT WE TRIED TO PUT
6 SOME MORE SPECIFICITY AND CLARITY ON THE EXPENSE
7 CATEGORIES. THESE ARE ONES THAT CERTAINLY MADE A
8 LOT OF SENSE AS THE ORGANIZATION -- THE OLD ONES
9 WERE ONES THAT MADE A LOT OF SENSE AS WE WERE BEING
10 PUT TOGETHER OVER HALF A DECADE AGO. I REALLY JUST
11 TRIED TO TAKE A FRESH LOOK AND GIVE SOME MORE
12 CLARITY AS TO WHERE THINGS ARE GOING HOPEFULLY SO IT
13 WILL BE MORE HELPFUL FOR YOU BOTH IN REVIEWING THE
14 BUDGET AS WELL AS THE ONGOING FINANCIALS GOING
15 FORWARD.

16 JUST A REMINDER ON HOW WE MAKE ALLOCATIONS
17 AGAINST THE EXPENSE CAP. THERE'S REALLY BEEN NO
18 CHANGES OR RECLASSIFICATIONS FROM PRIOR YEARS, BUT I
19 WOULD LIKE TO HIGHLIGHT THE FACT THAT BECAUSE WE HAD
20 PREVIOUSLY A NUMBER OF FUNCTIONS SPREAD ACROSS
21 DIFFERENT DEPARTMENTS, THINGS LIKE LEGAL EXPENSES,
22 AND PROPERLY CLASSIFYING THOSE DID TAKE AN ENORMOUS
23 AMOUNT OF WORK FOR THE FINANCE STAFF AT THE
24 ORGANIZATION. NOW THAT WE HAVE ALL OF LEGAL AND THE
25 LEGAL DEPARTMENTS ACTUALLY GREATLY SIMPLIFIED

BARRISTERS' REPORTING SERVICE

1 PROCESS TO BE ABLE TO DO THAT. THAT'S IMPORTANT AS
2 THE ORGANIZATION CONTINUES TO GO WITHOUT ADDING ANY
3 STAFF IN THE FINANCE ORGANIZATION.

4 I WOULD NEXT LIKE TO TAKE YOU THROUGH WHAT
5 SOME OF THE MAJOR DRIVERS AND CHANGES ARE FROM THE
6 CURRENT YEAR TO THE NEXT YEAR. I'LL START OFF WITH
7 REALLY SOME GLOBAL DRIVERS ACROSS THE ENTIRE
8 ORGANIZATION. THE FIRST IS THAT WE'RE RECOMMENDING
9 AN ORGANIZATIONWIDE POOL FOR COMPENSATION INCREASES
10 OF 4 PERCENT. THIS IS BASED ON A 3-PERCENT MERIT
11 INCREASE PLUS AN INSTITUTIONWIDE POOL OF 1 PERCENT
12 OF OUR TOTAL PAYROLL FOR ADJUSTMENTS. THAT 1
13 PERCENT COULD BE 10 PERCENT OF THE PEOPLE RECEIVE A
14 10-PERCENT RAISE FOR PROMOTIONS AND THAT SORT OF
15 THING. THIS IS BASED ON THE COMPARABLE INSTITUTIONS
16 THAT ARE SPECIFIED WITHIN THE TEXT OF PROPOSITION
17 71. AND FOR A POINT OF REFERENCE, THE LARGEST
18 BARGAINING UNIT WITHIN THE STATE, IF I UNDERSTAND IT
19 CORRECTLY, DOES HAVE BUILT IN AN AUTOMATIC 5-PERCENT
20 MERIT INCREASE ON A PER ANNUM BASIS.

21 THERE ARE FOUR FTE'S ADDED. I WILL GET TO
22 THOSE LATER ON. WITHIN PAT OLSON'S GROUP, THE
23 RESEARCH GROUP, WE'RE ADDING ONE GRANTS TECHNICAL
24 ASSISTANT. AND PAT HAS REALLY IDENTIFIED A NUMBER
25 OF SAVINGS TO THE MEETING BUDGETS SUCH THAT WE CAN

BARRISTERS' REPORTING SERVICE

1 REALLY GET OUR GOALS DONE OF HAVING THE REVIEWS
2 COMPLETED IN A TIMELY FASHION WITHOUT CUTTING ANY
3 CORNERS. I WILL COMMENT, YOU DID SEE THAT WE WERE
4 SIGNIFICANTLY UNDERSPENDING THIS YEAR. AND I WOULD
5 SAY THAT THE ACTUAL SPENDING PROBABLY WON'T BE THAT
6 MUCH DIFFERENT ON A YEAR-ON-YEAR BASIS.

7 IN TERMS OF THE DEVELOPMENT GROUP, DR.
8 FEIGAL'S GROUP, WE'RE LOOKING TO ADD ONE ADDITIONAL
9 MEDICAL OFFICER WITHIN HER GROUP. AS I MENTIONED,
10 WE EXPECT TO NEARLY DOUBLE THE NUMBER OF
11 TRANSLATIONAL PROGRAMS WITHIN THE ORGANIZATION BY
12 YEAR-END, AND WE CERTAINLY EXPECT TO SEE MORE
13 POTENTIALLY ADDED BY JUNE OF 2013. SAME COMMENT ON
14 THE MEETING BUDGETS.

15 ON THE I.T., I KNOW THIS HAS BEEN A TOPIC
16 THAT'S BEEN OF LONGSTANDING INTEREST TO A NUMBER OF
17 FOLKS IN THE ROOM HERE. WE HAVE HAD OPEN THROUGHOUT
18 THE YEAR AN OPEN I.T. DIRECTOR POSITION. WE ARE NOW
19 CURRENTLY PLANNING ON FILLING THAT POSITION. AND AS
20 MANY OF YOU KNOW, WE REALLY TARGETED TO GET THE
21 GRANTS MANAGEMENT PROJECT, SOFTWARE DEVELOPMENT
22 PROJECT, TO BE IN A MAINTENANCE MODE AT SOME POINT
23 WITHIN THE COMING YEAR, PROBABLY AROUND YEAR-END OR
24 EARLY CALENDAR 2013. BY FISCAL YEAR-END, WE'D
25 EXPECT NOT TO HAVE ANY CONTRACTORS AT THE AGENCY,

BARRISTERS' REPORTING SERVICE

1 BUT WE WOULD LOOK TO HAVE ONE ADDITIONAL PROGRAMMER
2 AS WE CONTINUE TO ROLL OUT NEW RFA'S OR LOOK FOR
3 MORE INFORMATION FROM OUR AWARDEES SUCH AS THE
4 PROJECT DOESN'T END, BUT WE'RE MORE IN A MAINTENANCE
5 MODE. WE WILL BE HEARING FROM ADAMS, THE
6 PERFORMANCE AUDITORS, IN MAY. I DO EXPECT THAT THEY
7 WILL RECOMMEND A NUMBER OF ONGOING OPERATIONAL
8 IMPROVEMENTS FOR US, WHICH WILL COST US A LITTLE BIT
9 OF MONEY. THE BUDGET FOR THE NEXT YEAR DOES INCLUDE
10 \$150,000 FOR WHAT I'VE CALLED PERFORMANCE AUDIT
11 ENHANCEMENTS. AND BY SPRING 2013, THE RUN-RATE
12 EXPENSE WILL BE AT ONE MILLION A YEAR VERSUS \$1.5
13 MILLION A YEAR THAT'S IN THE FISCAL 11-12 BUDGET.

14 IN ALAN TROUNSON'S BUDGET THERE WERE SOME
15 SIGNIFICANT CUTS TO EXTERNAL CONTRACTS AND MEETING
16 BUDGETS. AND I WILL POINT OUT THAT THE TRAVEL IN
17 ALAN'S BUDGET AS WELL AS IN MY OWN REALLY REFLECTS
18 OUR GOAL TO FIND \$50 MILLION IN ADDITIONAL FINANCIAL
19 SUPPORT, OUTSIDE FINANCIAL SUPPORT, FOR CIRM
20 PROGRAMS. SO IN MY MIND THAT'S A TREMENDOUS RETURN
21 ON INVESTMENT IF A FEW TENS OF THOUSANDS OF DOLLARS
22 IN TRAVEL CAN RESULT IN EVEN A FRACTION OF THAT \$50
23 MILLION IN OUTSIDE SUPPORT FOR A PROGRAM.

24 ON THE CHAIR'S BUDGET WE DID HAVE CUTS TO
25 TRAVEL. AND I APOLOGIZE THE TEXT IS CUT OFF AT THE

BARRISTERS' REPORTING SERVICE

1 BOTTOM THERE. SIGNIFICANT CUTS TO THE MEETING
2 BUDGETS.

3 FOR COMMUNICATION, OBVIOUSLY WE'RE
4 DELIGHTED THAT KEVIN IS ABLE TO JOIN US, AND WE PLAN
5 TO SHIFT WHAT HISTORICALLY HAS BEEN EXTERNAL
6 FUNCTIONS TO INTERNAL ACTIVITIES WITH THE ADDITION
7 OF A FOURTH FTE WITHIN THAT GROUP.

8 WITHIN THE FINANCE GROUP WE'VE CUT SOME
9 EQUIPMENT AND OTHER MISCELLANEOUS EXPENSES, BUT
10 REALLY THE BIGGEST DELTA HERE IS THAT WE ONLY HAVE
11 TO PAY FOR A PERFORMANCE AUDIT EVERY THIRD YEAR.

12 IN THE LEGAL, THE ONE SIGNIFICANT CHANGE
13 IS THAT WE REPLACED 190,000 IN EXTERNAL LEGAL
14 SERVICES WITH AN IN-HOUSE IP AND TRANSACTIONAL FTE.
15 AND THAT'S ESSENTIALLY A VERY MARGINAL IN THE NOISE
16 INCREASE IN OVERALL EXPENSE.

17 ANY QUESTIONS ON WHAT I'VE JUST GONE
18 THROUGH BEFORE I SHOW YOU THE BOTTOM LINE HERE?

19 MS. SAMUELSON: THE MEETING BUDGET, CAN
20 YOU SAY A LITTLE MORE ABOUT IN TERMS OF IS IT
21 CHANGING THE SCOPE OF THE MEETINGS OR THE QUALITY OR
22 WHAT?

23 DR. PLUNKETT: JOAN, THAT'S A VERY GOOD
24 QUESTION. I DON'T THINK IT'S CHANGING THE SCOPE OR
25 THE QUALITY AT ALL. AS ONE EXAMPLE, FOR THE CURRENT

BARRISTERS' REPORTING SERVICE

1 YEAR WE HAD BUDGETED \$125,000 TIMES FOUR FOR EACH OF
2 THE FOUR CLINICAL DEVELOPMENT ADVISORY PANEL
3 REVIEWS. THOSE HAVE COME IN AT AN AVERAGE OF EITHER
4 50 OR \$60,000. I CAN'T REMEMBER WHICH IT IS. AND
5 THAT'S THE NUMBER THAT WE'VE USED, THE \$60,000
6 FIGURE FOR THE COMING YEAR. SO THAT'S ONE CASE
7 WHERE WE HAVEN'T DONE SOMETHING BEFORE, WE DIDN'T
8 KNOW HOW MUCH IT WOULD COST, AND THE BUDGET GOING
9 FORWARD REFLECTS WHAT WE NOW KNOW.

10 MS. SAMUELSON: IT JUST SEEMS TO ME IT'S
11 THE TIME WHEN WE WANT TO DO MORE COLLABORATING
12 INTERNATIONALLY AND SO ON. I ALSO THINK WE MIGHT
13 SAVE MONEY AND IMPROVE THE QUALITY BY OUTSOURCING
14 MEETING DEVELOPMENT AND MANAGEMENT. WE'VE GOT A LOT
15 OF EXPERT PEOPLE ON OUR STAFF. AND FOR THEM TO HAVE
16 TO SPEND TIME WORRYING ABOUT HOW WE GET BETTER PHONE
17 ACCESS TO PEOPLE WHOSE OPINIONS I RELY ON AND CAN'T
18 HEAR DURING A MEETING, THAT'S JUST ONE LITTLE
19 EXAMPLE. IT'S MADE UP OF SO MANY DIFFERENT KINDS OF
20 EXPERTISE, AND WE SHOULDN'T HAVE TO BE SPECIALISTS
21 IN ALL OF THAT.

22 DR. PLUNKETT: EACH OF YOU HAS THESE
23 NUMBERS IN FRONT OF YOU AS WELL.

24 DR. JUELSGAARD: SO JUST TO SPEAK TO THESE
25 NUMBERS JUST A MINUTE, AND THIS IS PROBABLY MORE

BARRISTERS' REPORTING SERVICE

1 DIRECTED AT ELONA, BUT IT'S THE OUTSIDE LEGAL
2 SERVICES BUDGET, WHICH IS ALMOST EQUAL TO THE
3 IN-HOUSE COMPENSATION BUDGET. WHAT ARE THOSE
4 OUTSIDE LEGAL SERVICES THAT WE'RE BUYING?

5 MS. BAUM: THERE'S AN EXTENSIVE ITEM
6 FOR -- FIRST OF ALL, OUR LOAN PROGRAM, WHICH THE
7 REMCHO CONTRACT, JAMES HAS PROVIDED SOME OF THOSE
8 OVER TIME. I THINK IF WE IN-HOUSE THOSE SERVICES,
9 WE WOULD BE A LOT MORE COST-EFFECTIVE. AND WE'RE AT
10 THE POINT NOW WHERE I THINK YOU COULD EVEN GET A
11 MORE JUNIOR ATTORNEY TO DO LOAN AGREEMENTS SINCE WE
12 HAVE SORT OF THE BASE AGREEMENT CREATED, RESERVING A
13 LITTLE FOR SOPHISTICATED OUTSOURCING ON WARRANT
14 ISSUES. SO THAT WAS THE BIG BOLUS OF THE NUMBER.

15 AND THEN, OF COURSE, WHENEVER YOU
16 OUTSOURCE LEGAL SERVICES, WHEN YOU HAVE THE HOURLY
17 RATES THAT THESE SERVICES COMMAND, IT'S VERY, VERY
18 EXPENSIVE. SO WE'RE TRYING TO BE A LOT MORE
19 COST-EFFECTIVE BY BRINGING SOMEBODY IN-HOUSE.

20 DR. JUELSGAARD: I CAN'T READ THAT NUMBER
21 THAT'S UP THERE RIGHT NOW FOR THE NEXT FISCAL YEAR.
22 IN THE PRESENTATION THAT WE WERE GIVEN BY MARIA,
23 IT'S 1,262,000. WHAT'S THE NEW NUMBER?

24 DR. PLUNKETT: THE NEW NUMBER IS
25 1,057,000. AND I CAN JUST --

BARRISTERS' REPORTING SERVICE

1 DR. JUELSGAARD: SO WE'RE HIRING A
2 \$190,000 PERSON. SO IT'S BASICALLY A BREAK-EVEN
3 PROPOSITION?

4 MS. BAUM: IT WAS ALMOST BUDGET NEUTRAL,
5 THOUGH I'VE GOT TO SAY I THOUGHT IT WAS 200, BUT
6 THAT'S IT. GIVE OR TAKE, IT SHOULD BE BUDGET
7 NEUTRAL OR APPROXIMATELY BUDGET NEUTRAL.

8 MR. JUELSGAARD: BUT I THOUGHT I JUST
9 HEARD YOU SAY YOU EXPECTED IT WILL BE MORE EFFICIENT
10 IN TERMS OF OUTSIDE LEGAL SERVICES BY HIRING THE
11 OTHER PERSON, NOT BUDGET NEUTRAL.

12 MS. BAUM: WELL, ACTUALLY IN REALITY I
13 THINK THEY'LL BE ABLE TO DO A LOT MORE TOO, AND AT
14 SOME POINT MAYBE RELIEVE SOME OF THE OTHER OUTSIDE
15 EXPENSES THAT WE HAVE. I THINK WE HAVE TO ON-BOARD
16 THEM AND DEVELOP THEM AND SEE WHAT ELSE THEY COULD
17 DO.

18 MR. TORRES: I'M CONFUSED. DOES THAT
19 INCLUDE HEALTH BENEFITS AND PENSION AS WELL IN THE
20 190,000?

21 MS. BAUM: NO.

22 DR. PLUNKETT: NO. THAT'S IN SALARY AND
23 BENEFITS. THAT'S 1.27. IT'S 1.279 MILLION, OVERALL
24 11.2 MILLION FOR THE ORGANIZATION.

25 MR. TORRES: I WAS TALKING ABOUT THE

BARRISTERS' REPORTING SERVICE

1 LAWYER THAT ELONA NEEDS.

2 DR. PLUNKETT: WE HAVE IT A LITTLE BIT
3 HIGHER THAN THAT, INCLUDING BENEFITS A LITTLE BIT
4 HIGHER THAN 190. I THINK WE HAD IT A 225 ALL IN.

5 DR. LUBIN: WHAT'S THE BENEFIT RATE?

6 DR. JUELSGAARD: WELL, I WOULD JUST ASK
7 YOU TO RETHINK THIS. I THINK IF YOU'RE GOING TO
8 HIRE A NEW INSIDE LAWYER, AND THE IDEA IS YOU'RE
9 GOING TO TRY AND REDUCE OUTSIDE LEGAL EXPENSES, I
10 WOULD EXPECT MORE THAN ONE-FOR-ONE TRADE-OFF EVEN
11 FROM THE VERY BEGINNING. AND IF YOU'RE GOING TO
12 HIRE SOMEBODY FOR 200,000, OBVIOUSLY THEY'RE NOT
13 FRESH OUT OF LAW SCHOOL, THEY'VE GOT SOME EXPERIENCE
14 AND HAVE BEEN DOING THIS FOR A WHILE. SO YOU MIGHT
15 THINK ABOUT THAT.

16 MS. BAUM: I THINK THAT THERE'S ALSO A LOT
17 OF ACTIVITY THAT HAS NOT BEEN UNDERTAKEN IN TERMS OF
18 IP REVIEW AND TRANSACTIONAL ASSISTANCE FOR SOME OF
19 OUR TEAMS. AS WE'RE GETTING MORE MATURE AND WE HAVE
20 TO START TAKING A LOOK AT SORT OF THE FREEDOM TO
21 OPERATE ISSUES, THAT WE REALLY NEED TO START
22 ENGAGING IN THIS ACTIVITY. IT'S EITHER OUTSOURCED
23 OR WE GET SOMEBODY IN-HOUSE THAT COULD DO IT. YES,
24 I AGREE. WE'LL LOOK AT IT.

25 CHAIRMAN THOMAS: ELONA, ALL OF THE

BARRISTERS' REPORTING SERVICE

1 DISCUSSION THAT WE HAD INTERNALLY ABOUT BRINGING
2 SOMEBODY IN HAD TO DO WITH IP AND TRANSACTIONAL AND
3 THAT SORT OF THING. I'M NOT SURE HOW THAT RELATED.
4 YOU MADE SOME COMMENT ABOUT REMCHO. WHAT WAS THE
5 POINT OF THAT COMMENT? I DIDN'T SEE THAT AS ONE
6 THING AFFECTING THE OTHER.

7 MS. BAUM: WELL, BECAUSE REMCHO IS DOING
8 SOME OF THE TRANSACTIONS WORK ON THE LOANS, SO
9 THAT'S SOME OF THE EXTERNAL EXPENSE WE COULD SAVE BY
10 INTERNALIZING IT.

11 MR. TORRES: HOW MUCH WOULD WE SAVE BY
12 TAKING THAT RESPONSIBILITY AWAY FROM REMCHO?

13 MS. BAUM: I THINK I HAD CALCULATED FIVE
14 LOANS FOR THE NEXT FISCAL YEAR. AND I THINK, JAMES,
15 YOU COULD CORRECT ME IF I'M WRONG, BUT I THINK WE
16 HAD DISCUSSED THAT YOU'RE RUNNING 30,000 A LOAN.

17 MR. HARRISON: AS WE HAD DISCUSSED, WE
18 HAVEN'T -- WE HAVE NOT SEPARATELY BILLED FOR THE
19 LOAN WORK THAT WE'VE DONE. I THINK THAT WAS AN
20 ESTIMATE INCLUDING OUTSIDE COUNSEL AT FARELLA. SO
21 WHAT I SUGGESTED WAS THE NEXT TIME WE DID ONE, WE'LL
22 ACTUALLY TASK BILL FOR THAT PARTICULAR ITEM SO WE
23 HAVE A MORE ACCURATE BASIS. THAT WAS AN ESTIMATE
24 FOR BOTH ASPECTS OF IT.

25 MR. SERRANO-SEWELL: THANKS, J.T. ON A

BARRISTERS' REPORTING SERVICE

1 MORE BROADER QUESTION ON OUTSIDE COUNSEL, WE HAVE
2 VALUED OUTSIDE COUNSEL THAT HAS BEEN WITH US FROM
3 DAY ONE. AND AS A BOARD, WE RELY ON THEM
4 EXTENSIVELY FOR LEGAL ADVICE AND GUIDANCE. THEY ARE
5 PART OF OUR FABRIC, AND WE'RE LUCKY TO HAVE JAMES
6 AND HIS TEAM.

7 SO THE QUESTION I HAVE FOR THE CHAIR, IS
8 THERE -- OR THE BUDGET GUY, IS THERE GOING TO BE ANY
9 DECREASE IN THAT, IN THOSE SERVICES AT ALL, FROM
10 REMCHO BECAUSE THAT WOULD BE A CONCERN TO ME?

11 DR. PLUNKETT: THE BUDGET NUMBER THAT WE
12 HAVE IS ESSENTIALLY FLAT. IT'S 545,000 VERSUS
13 550,000 FOR THE COMING YEAR.

14 MS. SAMUELSON: DOES THAT CONTEMPLATE A
15 DECREASE IN SERVICES? FLAT ORDINARILY MEANS THAT, I
16 WOULD THINK, GIVEN ANNUAL INCREASES FOR INFLATION OR
17 WHATEVER.

18 DR. PLUNKETT: I CAN'T ANSWER THAT.
19 JAMES?

20 MS. SAMUELSON: FROM THE BUDGET
21 STANDPOINT, IF YOU'RE ALLOCATING A FLAT AMOUNT, IS
22 THAT TYPICALLY CONTEMPLATING EQUAL SERVICES OR
23 ACTUALLY A DECREASE?

24 DR. PLUNKETT: GENERALLY SPEAKING, THERE'S
25 A NUMBER OF ITEMS IN HERE WHERE WE HAVE KEPT IT

BARRISTERS' REPORTING SERVICE

1 FLAT, FOR EXAMPLE, OR WE SAID THE COST OF A TRIP
2 NEXT YEAR WILL BE THE SAME AS THE COST OF A TRIP
3 THIS YEAR, THE COST OF A MEETING NEXT YEAR WILL BE
4 THE SAME AS THE COST OF A TRIP THIS YEAR. FOR
5 THINGS LIKE EMPLOYEE PAYROLL, COST OF PAYROLL WILL
6 BE HIGHER. OBVIOUSLY WHEN YOU HAVE A MEETING OR FLY
7 IN AN AIRPLANE, YOU'RE PAYING EMPLOYEES AND THOSE
8 COSTS DO GO UP. SOMETIMES THOSE ARE RIGHT AND
9 SOMETIMES THEY'RE NOT.

10 MS. SAMUELSON: SOMETIMES IT REFLECTED
11 ACTUAL CUTS IN THE DEGREE OF ACTIVITY, RIGHT?

12 DR. PLUNKETT: IT CAN.

13 MS. SAMUELSON: I THINK WE SHOULD KNOW
14 WHAT WE'RE DOING ABOUT THAT BEFORE WE APPROVE IT.

15 CHAIRMAN THOMAS: I THINK WE'VE ADDRESSED
16 THE LEGAL ISSUES. ARE THERE OTHER ISSUES HERE ON
17 THE BUDGET THAT PEOPLE WOULD LIKE TO COMMENT ON?

18 DR. PRICE: CAN YOU GIVE US SOME IDEA
19 ABOUT THE MILLION PLUS DOLLARS A YEAR FOR I.T. GOING
20 FORWARD?

21 DR. PLUNKETT: ABSOLUTELY. AS I MENTIONED
22 BEFORE, WE EXPECT TO HAVE AT SOME POINT DURING THE
23 YEAR TWO FULL-TIME EMPLOYEES, AN I.T. DIRECTOR AND A
24 LEAD SOFTWARE ARCHITECT. WE CURRENTLY HAVE FIVE
25 CONTRACTORS WITHIN THE I.T. GROUPS. WE EXPECT TO GO

BARRISTERS' REPORTING SERVICE

1 DOWN TO THREE CONTRACTORS WITH TWO EMPLOYEES. THOSE
2 THREE CONTRACTORS WILL THEN GO AWAY. THE
3 COMPENSATION FOR THE TWO EMPLOYEES IS APPROXIMATELY
4 \$380,000. THE COMPENSATION FOR THE STUB PERIOD OF
5 THE YEAR FOR THE CONTRACTORS IS APPROXIMATELY
6 \$600,000. THERE'S A SERVICE WHICH WE USE WHICH
7 GIVES US 24 BY 7 SOFTWARE DESKTOP SUPPORT. WE
8 EXPECT THAT THAT WILL BE \$150,000 NEXT YEAR. I
9 ALREADY MENTIONED \$150,000 IN PERFORMANCE AUDIT
10 ENHANCEMENTS. WE ARE PLANNING FOR \$75,000 IN
11 ENHANCEMENTS TO BASICALLY GET OUR WEBSITE TO HAVE
12 REAL-TIME DATA. NOW IT'S CURRENTLY MANUALLY FED
13 EVERY TIME WE UPDATE OUR GRANTS MANAGEMENT DATABASE.
14 AND THE REST OF THE ITEMS ON THE LIST THAT I HAVE
15 HERE ARE \$40,000, AND IT WILL GO DOWN TO \$3,000.
16 DOES THAT ANSWER YOUR QUESTION?

17 CHAIRMAN THOMAS: OTHER QUESTIONS AND
18 COMMENTS?

19 MR. SERRANO-SEWELL: JUST THE LAST
20 POINT -- THANK YOU FOR THE DETAILED PRESENTATION.
21 THE 5 PERCENT PER ANNUM INCREASE THAT YOU REFERENCED
22 EARLY ON, RARELY DO THOSE COLLECTIVE BARGAINING
23 GROUPS GET A -- I'M PART OF THOSE DISCUSSIONS WITH
24 THE CITY. IT'S JUST IN THE CONTRACT. IT MAY VERY
25 WELL SAY IT, BUT I CAN'T -- I CAN'T THINK OF A YEAR,

BARRISTERS' REPORTING SERVICE

1 UNLESS YOU'RE A POLICE OFFICER OR A FIREFIGHTER,
2 WHERE YOU'VE GOTTEN THE RAISE THAT YOU'RE SUPPOSED
3 TO IN THE CONTRACT. IT JUST -- I HAVEN'T SEEN IT
4 HAPPEN IN THE LAST SEVEN, EIGHT YEARS.

5 MR. TORRES: SO ARE YOU SUGGESTING THAT --
6 WE HAVEN'T BEEN GIVING THESE MERIT INCREASES, HAVE
7 WE?

8 MR. SHEEHY: YES, WE HAVE.

9 DR. TROUNSON: THAT'S NOT CORRECT. WE
10 HAVE BEEN GIVING MERIT INCREASES OF AROUND 3
11 PERCENT.

12 MR. SHEEHY: THAT COMPARATOR, UC HAS NOT
13 BEEN IN HERE.

14 MR. SERRANO-SEWELL: I WAS COMMENTING --

15 MR. TORRES: NEITHER HAS THE CHAIR OR VICE
16 CHAIR JUST FOR THE RECORD.

17 MR. SERRANO-SEWELL: I UNDERSTOOD IT WHEN
18 YOU MADE THAT --

19 CHAIRMAN THOMAS: CHAIR IS NOT LOOKING FOR
20 ANY JUST FOR THE RECORD.

21 MR. SERRANO-SEWELL: I UNDERSTOOD IT TO BE
22 LIKE A SUPPORTING -- IT'S THE LARGEST COLLECTIVE
23 BARGAINING UNIONS GET THIS 5 PERCENT, AND HERE'S OUR
24 FIVE. I DIDN'T UNDERSTAND WHAT THE NEXUS BETWEEN
25 THE TWO WAS. BUT IF THERE WAS ONE, KNOW THAT PEOPLE

BARRISTERS' REPORTING SERVICE

1 AREN'T GETTING THEM.

2 DR. PLUNKETT: THE MOST RELEVANT STATISTIC
3 IS THE COMPARATOR INSTITUTIONS. WE HAVE OBTAINED
4 SOME CONFIDENTIAL DATA FROM NINE DIFFERENT
5 INSTITUTIONS. WE HAVE OBTAINED CONFIDENTIAL
6 INFORMATION FROM NINE DIFFERENT COMPARATOR
7 INSTITUTIONS WITHIN THE STATE.

8 DR. JUELSGAARD: MATT, CAN YOU DESCRIBE
9 GENERALLY WHO THOSE COMPARATOR INSTITUTIONS ARE BY
10 NAME?

11 DR. PLUNKETT: THOSE ARE PRIVATE ACADEMIC
12 RESEARCH INSTITUTIONS AS WELL AS SOME OF THE UC'S.

13 DR. JUELSGAARD: SOME OF THE --

14 DR. PLUNKETT: UC'S.

15 CHAIRMAN THOMAS: FURTHER DISCUSSION?

16 DR. TROUNSON: I THINK THE ONE ELEMENT
17 THAT THE BOARD NEEDS TO BE AWARE OF IS OUR CONCERN
18 TO REMAIN BELOW THE 6 PERCENT FOR THE WHOLE LENGTH
19 OF TIME THAT THE AGENCY IS OPERATING. SO WE ARE
20 OPERATING IN A CONSTRAINED BUDGET ENVIRONMENT. SO
21 WE ARE KEEPING THAT DOWN, AND ONE OF THE ONE-YEAR
22 GOALS WAS TO MAKE SURE THAT WE HAVE A COMPOSITION
23 THAT IS ABLE TO DELIVER ON THE BUSINESS OF THE
24 AGENCY WITHIN THAT FRAMEWORK OF THE 6 PERCENT. SO
25 IF WE NEED TO MAKE SOME ADJUSTMENTS, THAT WE NEED TO

BARRISTERS' REPORTING SERVICE

1 DO IT BECAUSE, AS YOU EXPAND IN SOME AREAS, THERE'S
2 A LOT MORE PRESSURE ON THE PARTS OF THE ORGANIZATION
3 TO DO THAT.

4 SO WE'RE GIVING A LOT OF THOUGHT TO WHAT
5 CAN BE CONSTRAINED AND WHAT CAN BE KEPT TO A
6 MINIMUM.

7 DR. LUBIN: I UNDERSTAND HOW JUSTIFICATION
8 FOR THE BUDGETS ARE MADE, AND I APPRECIATE THAT, SO
9 I'M NOT SAYING THAT'S NOT APPROPRIATE. BUT THERE'S
10 A PUBLIC AWARENESS OF WHERE BUDGETS ARE AND WHAT
11 INCREASES ARE. AND IN THIS ECONOMY WE'RE ALL
12 STRUGGLING TO KEEP THINGS REALLY TIGHT. I JUST WANT
13 TO BE SURE THAT WHEN A DECISION IS MADE, AND I WOULD
14 TRUST YOUR OPINIONS AS HOW THAT'S MADE, THIS BECOMES
15 PUBLIC INFORMATION. AND WE WANT TO KEEP THINGS
16 ROLLING HERE WITH THE HOPE THAT WE'RE GOING TO HAVE
17 A FUTURE. I'M NOT SAYING THIS ISN'T IN KEEPING.
18 WHAT ALAN JUST SAID MAKES ME FEEL THAT'S THE CASE,
19 BUT WE'RE STRUGGLING, EVERY INSTITUTION IN THE
20 UNIVERSITY OF CALIFORNIA SYSTEMWIDE IS STRUGGLING
21 WITH THESE KINDS OF THINGS. I JUST THINK WE HAVE TO
22 BE CAREFUL ABOUT THESE MOVES. AND I KNOW,
23 ESPECIALLY WHEN THE INFORMATION BECOMES PUBLIC, I
24 THINK THAT'S AN IMPORTANT THING TO KEEP IN MIND.

25 CHAIRMAN THOMAS: THANK YOU. WE'VE GONE

BARRISTERS' REPORTING SERVICE

1 TO GREAT LENGTHS TO TRY, FURTHER TO ALAN'S COMMENTS,
2 TO CONSTRUCT A BUDGET THAT IS PRUDENT AND KEEPS
3 WITHIN OUR RESTRAINTS WHICH ARE CONSIDERABLE. SO
4 POINT VERY WELL TAKEN.

5 DR. PLUNKETT: JUST TO SUMMARIZE THIS PAGE
6 VERY BRIEFLY, I THINK THE POSITIVE THINGS HERE IS
7 THAT THE OVERALL BUDGET, YEAR-ON-YEAR
8 BUDGET-TO-BUDGET NUMBER IS DOWN 3.5 PERCENT OR
9 \$650,000. SOME OF THE DEPARTMENTS ARE UP, SOME ARE
10 A LITTLE BIT DOWN. I THINK THAT, AS I MENTIONED
11 BEFORE, I.T. HAS BEEN A HOT BUTTON THAT IS DOWN
12 MODESTLY ON THE YEAR. AS I SAID BEFORE, BY THE
13 COMING SPRING, WE EXPECT TO BE AT A RUN RATE THAT'S
14 1.0 MILLION AND NOT 1.5 MILLION A YEAR WHICH I FEEL
15 IS A LITTLE MORE APPROPRIATE. YOU SEE THE CUTS
16 THERE ACROSS THE BOTTOM ROWS.

17 CHAIRMAN THOMAS: DEAN POMEROY.

18 DR. POMEROY: JUST ONE MORE QUESTION ABOUT
19 THE COMPENSATION INCREASES. SO THE 3-PERCENT MERIT,
20 DOES THAT IMPLY THAT SOME PEOPLE ARE GETTING 6
21 PERCENT AND SOME PEOPLE ARE GETTING ZERO? IT'S NOT
22 GIVEN OUT UNIFORMLY.

23 DR. PLUNKETT: NO, WE'RE NOT CONTEMPLATING
24 A FLAT, ACROSS THE BOARD PERCENTAGE. IT WOULD BE,
25 IF MY UNDERSTANDING OF OUR PERSONNEL POLICIES ARE

BARRISTERS' REPORTING SERVICE

1 CORRECT, IT WOULD BE A MAXIMUM OF 5 PERCENT, BUT
2 AVERAGING TO 3 PERCENT ACROSS THE ORGANIZATION.

3 DR. POMEROY: THANK YOU.

4 CHAIRMAN THOMAS: OTHER COMMENTS? I WOULD
5 ENCOURAGE YOU, IF YOU GET A CHANCE TO DIGEST THIS
6 DOCUMENT BETWEEN NOW AND THE NEXT BOARD MEETING AT
7 WHICH WE WILL VOTE ON IT, TO FEEL FREE TO ASK ANY
8 QUESTIONS OR RAISE ANY SUGGESTIONS, ETC.

9 MS. FEIT: I WANT TO MAKE A COMMENT.
10 MICHAEL GOLDBERG COULDN'T BE HERE TODAY, BUT HE
11 WANTED ME TO REITERATE AS WELL AS MYSELF WE MET
12 EXTENSIVELY WITH MATT ON THE BUDGET. HE'S ATTEMPTED
13 TO BE VERY TRANSPARENT WITH ALL THE ELEMENTS THAT
14 WE'VE BEEN TALKING ABOUT IN PAST YEARS THAT THE
15 BOARD WANTED TO SEE IN A BUDGET FORMAT. I THINK
16 HE'S DONE A GREAT JOB.

17 I THINK IN THE CONTEXT OF WHAT'S BEEN
18 PRESENTED, THE MOST IMPORTANT ELEMENT IS THE
19 TIMELINESS OF THIS BUDGET AND THE ABILITY NOW FOR
20 THE BOARD TO SPEND SOME TIME LOOKING AT IT AND
21 GIVING FEEDBACK BEFORE IT HAS TO HAVE FINAL
22 APPROVAL. SO MICHAEL AND I BOTH APPROVE GOING
23 FORWARD WITH WHAT MATT HAS PRESENTED. WE WANT TO
24 THANK HIM FOR HIS HARD WORK AND FOR HIS GREAT
25 LISTENING TO SOME OF THE THINGS THAT WE WANTED TO

BARRISTERS' REPORTING SERVICE

1 SEE IN THE BUDGET FORMAT.

2 CHAIRMAN THOMAS: THANK YOU, MARCY. THAT
3 IS A SUMMARY STATEMENT. MATT, THANK YOU VERY MUCH.

4 DR. PLUNKETT: ONE MORE MINUTE AND THAT'S
5 JUST TO SHOW THE FORECAST.

6 CHAIRMAN THOMAS: YES, PLEASE.

7 DR. PLUNKETT: I'LL JUST CLOSE REALLY
8 QUICKLY HERE. I WON'T GO THROUGH ALL THE
9 ASSUMPTIONS THAT WENT INTO THE EXPENSE FORECAST.
10 YOU CAN SEE WHAT THEY ARE ON THE PREVIOUS SLIDE. AS
11 I SAID TWO MONTHS AGO, YOU CAN PUT TOGETHER AN
12 INFINITE NUMBER OF PERMUTATIONS OF SCENARIOS THAT
13 GET YOU TO \$90 MILLION. WHAT THIS SHOWS IS THAT WE
14 CONTINUE WITH MODEST INCREASES IN OUR SPENDING
15 THROUGH THE SUMMER OF 2017, WHICH WOULD BE FIVE
16 YEARS FROM NOW, A YEAR AFTER OUR LAST SIGNIFICANT
17 AWARDS ARE MADE. THIS SLOWLY TAPERS OFF THROUGH THE
18 SUMMER OF 2022. AND ALL THIS, OF COURSE, ASSUMES
19 THAT PROP 71 IS THE SOLE FUNDING WHICH CIRM
20 RECEIVES.

21 THIS DOES REQUIRE THAT WE IDENTIFY AN
22 ADDITIONAL \$200,000 PER YEAR IN ONGOING EXPENSE
23 SAVINGS TO KEEP THAT NUMBER AT 90 MILLION AND NOT 91
24 MILLION ON EACH SIDE OF THE GRANTS MANAGEMENT AND
25 GNA. AND WE EXPECT TO COME BACK TO YOU WITH A PLAN

BARRISTERS' REPORTING SERVICE

1 FOR THAT IN THE NEXT TWO MONTHS. WE'RE NOT TOO FAR
2 AWAY.

3 ANY QUESTIONS? THANK YOU VERY MUCH FOR
4 THE INPUT.

5 CHAIRMAN THOMAS: THANK YOU, MATT. OKAY.
6 GOOD THINGS COME TO THOSE WHO WAIT. WE'VE HAD MANY
7 VERY INTERESTING ITEMS ON THE AGENDA TODAY. PERHAPS
8 WE HAVE LEFT THE MOST INTERESTING FOR LAST, WHICH IS
9 THE REVIEW OF THE PROGRESS OF OUR DISEASE TEAMS VIA
10 THE CLINICAL DEVELOPMENT ADVISORY PANELS. I'D LIKE
11 TO NOW TURN IT BACK OVER TO DR. FEIGAL.

12 MR. HARRISON: JUST A REMINDER TO MEMBERS
13 OF THE BOARD. WE'VE PROVIDED THOSE OF YOU WHO HAVE
14 AN INTEREST IN AN AWARD WITH A SHEET OF PAPER THAT
15 IDENTIFIES THE AWARD BY APPLICATION NUMBER, AND WE
16 WOULD REQUEST THAT YOU REFRAIN FROM PARTICIPATING IN
17 THE DISCUSSION OF THOSE AWARDS IN WHICH YOU HAVE AN
18 INTEREST.

19 I WOULD ALSO LIKE TO POINT OUT QUICKLY
20 THAT ELLEN AND STAFF HAVE PROVIDED A LOT OF
21 INFORMATION PUBLICLY REGARDING THE DISEASE TEAMS AND
22 THEIR PROGRESS. THERE MAY, HOWEVER, BE INFORMATION
23 THAT YOU'D LIKE TO DISCUSS THAT IS CONFIDENTIAL OR
24 PROPRIETARY IN NATURE, SUCH AS PREPUBLICATION DATA
25 OR CONFIDENTIAL PRE-IND DISCUSSIONS WITH THE FDA, OR

BARRISTERS' REPORTING SERVICE

1 THE SELECTION OF THERAPEUTIC TARGET, OR OTHER
2 INFORMATION THAT'S OF THE NATURE WOULD GIVE ITS
3 HOLDER A COMPETITIVE ADVANTAGE.

4 IF YOU HAVE QUESTIONS THAT PERTAIN TO THAT
5 TYPE OF INFORMATION, PLEASE RESERVE THEM FOR CLOSED
6 SESSION DISCUSSION, AND LET US KNOW AT THE END OF
7 THE PUBLIC DISCUSSION IF YOU WOULD LIKE TO HAVE
8 INFORMATION THAT FALLS INTO THOSE CATEGORIES.

9 CHAIRMAN THOMAS: JAMES, WE WOULD ASK THAT
10 YOU CLOSELY MONITOR THE CONVERSATION IN CASE
11 SOMEBODY GOES OVER THE LINE ONE WAY OR ANOTHER AND
12 DIRECT THAT FOR CLOSED SESSION DISCUSSION. THANK
13 YOU.

14 DR. FEIGAL: THANKS VERY MUCH. SO WHAT
15 I'M GOING TO PRESENT TO YOU TODAY IS ACTUALLY SORT
16 OF A SUMMARY OF THE CURRENT STATUS OF OUR 14 DISEASE
17 TEAMS AS OF THIS MONTH, THE CONTEXT OF THE DISEASE
18 TEAM PROGRAMS AT CIRM, A BRIEF OUTLINE OF EACH
19 DISEASE TEAM PROJECT, THEIR KEY PROGRESS AND
20 ACCOMPLISHMENTS TO DATE, THE STATUS OF THEIR
21 PROGRESS TOWARDS FILING A SUCCESSFUL IND WITHIN FOUR
22 YEARS, THE BUDGET ALLOCATED, AND THEN JUST A LITTLE
23 BIT OF TIME ON HOW WE MAKE OUR ASSESSMENTS IN THE
24 PROCESS BECAUSE WE THINK THAT'S IMPORTANT TO BE
25 TRANSPARENT ABOUT HOW THESE DECISIONS ARE BEING

BARRISTERS' REPORTING SERVICE

1 MADE.

2 FIRST OF ALL, WITH THE CONTEXT, YOU HEARD
3 A TALK ABOUT THE STRATEGIC PLAN. YOU'VE HEARD A
4 TALK ABOUT THE FUNDING PRIORITIES. TO REITERATE,
5 OUR MISSION IS TO ADVANCE STEM CELL RESEARCH FOR THE
6 DISCOVERY AND DEVELOPMENT OF CURES, THERAPIES,
7 DIAGNOSTICS, AND RESEARCH TECHNOLOGIES TO RELIEVE
8 HUMAN SUFFERING FROM CHRONIC DISEASE AND INJURY.
9 WITH THAT MISSION IN MIND, OUR KEY STRATEGY TO
10 PROGRESS THE STEM CELL SCIENCE INTO CLINICAL TRIALS,
11 CIRM FUNDED 14 MULTIDISCIPLINARY DISEASE TEAMS IN
12 2010 WITH THE GOAL OF INITIATING THE DEVELOPMENT
13 STUDIES THAT COULD POTENTIALLY LEAD TO THE
14 SUCCESSFUL FILING OF AN INVESTIGATIONAL NEW DRUG
15 APPLICATION WITH THE U.S. FOOD AND DRUG
16 ADMINISTRATION FOR THESE STEM CELL-BASED THERAPIES
17 TO ENTER HUMAN CLINICAL TRIALS OVER THE NEXT FOUR
18 YEARS.

19 SO THIS IS PLACING THE DISEASE TEAM I,
20 TRIED TO OUTLINE IT IN RED, WITHIN THE CONTEXT OF
21 ALL THE OTHER PROGRAMS THAT WE FUND. YOU CAN SEE
22 DISEASE TEAM I IS COVERING SOME OF WHAT WE CALL AS
23 PRECLINICAL RESEARCH, STILL TRYING TO ESTABLISH SOME
24 OF THE PRECLINICAL PROOF OF CONCEPT, THE SELECTION
25 OF A DEVELOPMENT CANDIDATE, ALL THE WAY THROUGH TO

BARRISTERS' REPORTING SERVICE

1 THE FILING OF AN IND. AS YOU CAN SEE A LITTLE BIT
2 FARTHER DOWN ON THE BAR, DISEASE TEAM RESEARCH II,
3 WHICH WE'RE GOING TO BE REVIEWING IN APRIL, NEXT
4 MONTH, IS STARTING A LITTLE BIT MORE MATURE PRODUCT.
5 SO THEY'RE ACTUALLY STARTING AT WHERE THEY'VE
6 ALREADY SELECTED THE DEVELOPMENT CANDIDATE WITH THE
7 HOPES BEING WE REALLY WANT TO TRY AS MUCH AS
8 POSSIBLE TO FOCUS THAT COHORT OF DISEASE TEAMS SO
9 THAT THEY'RE MORE LIKELY TO BE ABLE TO BE SUCCESSFUL
10 WITHIN THAT PERIOD OF TIME.

11 WHAT YOU DON'T SEE ON HERE, OF COURSE, ARE
12 THE DISEASE TEAM III'S WHICH WE'RE PLANNING TO HAVE
13 COME OUT PROBABLY SOMETIME IN 2013 AND ALSO THE
14 STRATEGIC PARTNERSHIP FUND, WHICH WE'RE GOING TO BE
15 PUTTING OUT FOR POSTING IN APRIL, NEXT MONTH, AND
16 ACTUALLY APPLICATIONS WILL COME IN IN JUNE FOR
17 REVIEW IN AUGUST AND PRESENTATION TO THIS BOARD IN
18 OCTOBER BECAUSE WHAT WE'RE ALSO TRYING TO THINK OF
19 IS PLANNING FOR SUCCESS IF THESE PEOPLE DO --
20 RESEARCHERS ARE ABLE TO MEET THEIR GOAL, DO WE HAVE
21 SOME KIND OF FOLLOW-ON INITIATIVE THAT COULD
22 SEAMLESSLY TAKE THESE ON TO THE NEXT STEP?

23 SO THAT'S JUST PAINTING THE BIG PICTURE OF
24 WHAT WE'RE TRYING TO DO HERE.

25 TO RECAP, THESE 14 DISEASE TEAMS ARE PART

BARRISTERS' REPORTING SERVICE

1 OF A TRANSLATIONAL PORTFOLIO THAT PAT TALKED TO YOU
2 ABOUT EARLIER -- ACTUALLY PAT AND I SPOKE TO YOU
3 BACK IN OCTOBER OF LAST YEAR -- THAT INCLUDES EARLY
4 TRANSLATION I AND II. WE HAVE PART OF THAT
5 TRANSLATIONAL PORTFOLIO, JUST SO YOU HAVE THE
6 CONTEXT, 20 THAT ARE IN EARLY TRANSLATION WHERE
7 THEY'RE LOOKING AT TARGET IDENTIFICATION AND
8 SELECTION OF A DEVELOPMENT CANDIDATE AND NINE THAT
9 ARE IN EARLY TRANSLATION II WHERE A SUBSET OF THE
10 STUDIES TO REALLY IDENTIFY A DEVELOPMENT CANDIDATE
11 THAT COULD BE A POTENTIAL FOR MOVING ON.

12 IN TERMS OF THE TRANSLATIONAL PORTFOLIO, A
13 LOT OF OUR -- THE PROPORTION OF OUR RESEARCH ARE
14 DIRECTED TO THESE PARTICULAR DISEASE AREAS. FOR
15 CANCER WE HAVE EIGHT AWARDS, FIVE IN DISEASE TEAMS,
16 THREE IN EARLY TRANSLATIONAL. IN NEURODEGENERATION
17 WE HAVE 14 AWARDS, TWO DISEASE TEAMS AND 12 IN EARLY
18 TRANSLATIONAL.

19 SO, JOAN, YOU HAD ASKED EARLIER A LITTLE
20 BIT ABOUT SOME OF THE SPECTRUM OF THE DIFFERENT
21 GROUPS THAT WE'RE FUNDING.

22 MS. SAMUELSON: WERE THOSE NUMBERS IN
23 HERE, OR COULD YOU PROVIDE THEM?

24 DR. FEIGAL: THEY ARE IN -- NO, THEY'RE IN
25 MY PRESENTATION, WHICH WILL BE PROVIDED TO YOU.

BARRISTERS' REPORTING SERVICE

1 THE DISEASE TEAMS, AS WE ALL KNOW, ARE
2 ADDRESSING MAJOR UNMET CLINICAL NEEDS AND ARE MOVING
3 TOWARDS THE CLINIC. I'M GIVING YOU THEIR POINT IN
4 THE DIFFERENT DISEASE AREAS. WE HAVE ONE DISEASE
5 TEAM IN DIABETES, TWO IN NEUROLOGIC DISORDERS, ONE
6 IN EYE DISEASE, ONE IN CARDIAC, TWO IN HIV/AIDS,
7 FIVE IN CANCER, ONE IN A BLOOD DISORDER, SICKLE CELL
8 ANEMIA, AND ONE IN A VERY RARE SKIN DISORDER,
9 DYSTROPHIC EPIDERMOLYSIS BULLOSA.

10 THIS IS AN OVERVIEW OF ALL 14 DISEASE
11 TEAMS. AND WHAT YOU HAVE HERE IS THE GRANT AND THE
12 PI, THE PROJECT START DATE. YOU CAN SEE THEY
13 STARTED ANYWHERE FROM FEBRUARY THROUGH JUNE OF 2010.
14 THE AMOUNT OF AWARD THAT THEY RECEIVED AND THEIR
15 CURRENT STATUS.

16 WHAT YOU CAN SEE IS THAT 13 OF THE 14
17 DISEASE TEAMS ARE CONTINUING. ONE OF THEM IS
18 TERMINATING AS OF THE END OF THIS MONTH. THAT'S THE
19 DR. BERGER TEAM. AND ONE IS CONTINUING WITH
20 REVISIONS, AND THAT'S THE DR. CARSON TEAM. AND I'LL
21 BE EXPLAINING THAT AS I GO THROUGH EACH TEAM.

22 I WANTED TO TELL YOU A LITTLE BIT ABOUT
23 THE PROCESS BEFORE I TELL YOU ABOUT THE
24 ACCOMPLISHMENTS AND PROGRESS. ALL OF THESE TEAMS
25 HAVE WORKED WITH CIRM SCIENTIFIC STAFF AND ALSO WITH

BARRISTERS' REPORTING SERVICE

1 OUR BUDGET PEOPLE TO WORK ON MILESTONES AND THE
2 EXPERT ADVICE THEY MAY NEED TO BETTER POSITION THE
3 TEAMS FOR SUCCESS. SO AFTER THE BOARD APPROVES
4 THESE AWARDS AND BEFORE FUNDING GOES OUT THE DOOR,
5 CIRM AND THE DISEASE TEAMS AGREED ON GO/NO-GO AND ON
6 PROGRESS MILESTONES AND ON CRITERIA TO INFORM
7 DECISIONS AND THEN A BUDGET TO SUPPORT THOSE
8 PROPOSED ACTIVITIES.

9 IN ADDITION, COMPLEMENTING THEIR QUARTERLY
10 AND ANNUAL REPORTING TO US WITH CIRM, THE DISEASE
11 TEAMS MEET WITH CIRM AND PANELS OF CLINICAL
12 DEVELOPMENT ADVISORS AT THEIR 12- TO 18-MONTH MARK
13 OF THEIR PROGRESS. AND THIS TYPE OF MEETING IS
14 GOING TO CONTINUE ON AN ANNUAL BASIS.

15 THIRDLY, THE CONVENING OF THE CLINICAL
16 DEVELOPMENT ADVISORS TO PROVIDE EXTERNAL INPUT INTO
17 THE MILESTONES PROCESS WAS APPROVED IN CONCEPT PLAN
18 FOR THE DISEASE TEAM SOLICITATION. IT WAS
19 IDENTIFIED IN THE DISEASE TEAM RFA, AND IT WAS
20 SUBSEQUENTLY COMMUNICATED TO ALL OF THE DISEASE
21 TEAMS.

22 AND I DO WANT TO CLARIFY THAT TO PREVENT
23 EVEN THE APPEARANCE OF A CONFLICT OF INTEREST, CIRM
24 HAS APPLIED THE GRANT WORKING GROUP CONFLICT OF
25 INTEREST RULES TO THE CLINICAL DEVELOPMENT ADVISOR

BARRISTERS' REPORTING SERVICE

1 PANELS, THAT CLINICAL DEVELOPMENT ADVISORS WHO HAD A
2 FINANCIAL, PROFESSIONAL, OR PERSONAL CONFLICT OF
3 INTEREST WITH RESPECT TO ONE OF THE AWARDS WERE
4 DISQUALIFIED FROM PARTICIPATING IN THE PANEL'S
5 DELIBERATIONS.

6 THE PANELS THEMSELVES ARE COMPOSED OF
7 EXPERTS IN PRODUCT DEVELOPMENT. THEY INCLUDE
8 PRECLINICAL AND CLINICAL RESEARCH, PROCESS
9 DEVELOPMENT AND MANUFACTURING, REGULATORY STANDARDS,
10 STEM CELL-DISEASE SPECIFIC BIOLOGY, DISEASE-SPECIFIC
11 CLINICAL EXPERTISE, AND COMMERCIAL RELEVANCE.

12 THEY'RE CONVENED TO REALLY PROVIDE ADVICE
13 AND RECOMMENDATIONS ON PROJECT STRATEGY, ON PROGRESS
14 IN MEETING GOALS, AND ON GO/NO-GO DECISION POINTS,
15 AND APPROACHES TO MEETING CHALLENGES IN THE PRODUCT
16 DEVELOPMENT RESEARCH. SO THEY'RE REALLY THERE IN
17 REAL TIME TO HELP PROVIDE ADVICE TO THE TEAMS TO US.
18 THEY PROVIDE RECOMMENDATIONS. THEY DO NOT MAKE
19 DECISIONS. THE RECOMMENDATIONS ARE PROVIDED TO ME,
20 TO THIS POSITION, AND WE CONSIDER IT INTERNALLY, AND
21 WE, UNDER THE GUIDANCE OF THE PRESIDENT OF CIRM, WE
22 MAKE THE FINAL DECISIONS AND FOLLOW UP WITH THE
23 DISEASE TEAMS ON THESE ISSUES.

24 THESE ARE THE ADVISORS THAT WE'VE ASKED TO
25 COMMENT ON THE VARIOUS TEAMS. AND I HAVE TWO SLIDES

BARRISTERS' REPORTING SERVICE

1 OF THIS WHICH YOU WILL GET. BUT WE'VE HAD 28
2 DIFFERENT ADVISORS BE PART OF THESE VARIOUS PANELS.
3 IN ADDITION, FOR FOUR OF THESE 14 DISEASE
4 TEAMS, WE'VE HAD COLLABORATIVE FUNDING PARTNERS, TWO
5 FROM THE UK AND TWO FROM CANADA. FROM CANADA THESE
6 HAVE BEEN DRS. CARSON AND SLAMON TEAM, AND FOR THE
7 UK, IT'S BEEN THE DR. HUMAYUN AND DR. WEISSMAN TEAM.
8 AND THE COLLABORATIVE FUNDING PARTNERS
9 PARTICIPATE IN THE CLINICAL DEVELOPMENT ADVISOR
10 PANEL DISCUSSIONS, AND THEY ALSO PROVIDE
11 RECOMMENDATIONS FOR ADVISORS FOR THOSE JOINTLY
12 FUNDED PROJECTS.

13 I ALSO WANT TO MENTION THAT OUR SCIENCE
14 OFFICERS ARE ACTIVELY INVOLVED IN THE DAY-TO-DAY
15 MANAGEMENT OF THESE DISEASE TEAMS. THIS IS NOT THE
16 ONLY THING THEY DO. THEY ALSO HAVE A VERY LARGE
17 PORTFOLIO OF OTHER ACTIVITIES, BUT I DID WANT TO
18 DRAW ATTENTION TO THE PEOPLE WHO ARE DOING THE
19 LION'S SHARE OF THE WORK IN TERMS OF MANAGEMENT.
20 THAT'S DR. CAREN BERRY, DR. KARIS, DR. OLSON, DR.
21 STEFFEN, DR. TALIB. AND ALSO PROVIDING SCIENTIFIC
22 SUPPORT IS DR. SHINER AND DR. WHITTLESEA.

23 SO TO GET TO THE MEAT, I'M GOING TO
24 BASICALLY SUMMARIZE CONCISELY THE 14 DIFFERENT
25 DISEASE TEAMS, THE THERAPEUTIC CANDIDATE, THE KEY

BARRISTERS' REPORTING SERVICE

1 ACCOMPLISHMENTS, AND THEIR STATUS. YOU WILL HAVE
2 ACCESS TO ALL OF THESE SLIDES, BUT YOU ALSO HAVE THE
3 PREREAD WHICH I THINK GOES THROUGH MUCH OF THIS
4 MATERIAL.

5 IN THIS FIRST DISEASE TEAM, THE
6 INVESTIGATOR WAS REALLY FOCUSED ON A VERY DIFFICULT
7 TUMOR TO TREAT, AND THAT'S RECURRENT GLIOBLASTOMA, A
8 TYPE OF BRAIN TUMOR THAT HAS A PARTICULARLY POOR
9 PROGNOSIS AND WHICH THERE ARE VERY FEW THERAPEUTIC
10 OPTIONS. AND THE THERAPEUTIC OPTIONS THAT ARE THERE
11 HAVE VERY MODEST IMPACT ON THE TUMOR. HERE THEY'RE
12 WORKING ON AN ALLOGENEIC HUMAN NEURAL STEM CELL LINE
13 TO TARGET THE TUMORS. AND HERE IT'S REALLY
14 ENGINEERED TO DELIVER AN ENZYME CALLED
15 CARBOXYESTERASE TO CONVERT A CHEMOTHERAPY DRUG
16 CALLED CPT 11 TO MORE POTENT ACTIVE METABOLITE SN38
17 AT THE SITE OF THE INVASIVE TUMOR.

18 IN THE BRAIN YOU USUALLY DON'T HAVE THE
19 CONVERTING ENZYME PRESENT. SO HERE THE STEM CELLS
20 ARE BEING UTILIZED AS A TOOL TO DELIVER THE
21 CHEMOTHERAPY PAYLOAD. AND IN ORDER FOR THE
22 CHEMOTHERAPY PAYLOAD TO BE EFFECTIVE IN THE BRAIN,
23 IT NEEDS TO HAVE THE CONVERTING ENZYME BE PRESENT AT
24 THE SITE WHERE THE TUMOR IS LOCATED. SO THAT'S WHY
25 THEY'VE ENGINEERED IT THIS WAY, THAT THE NEURAL STEM

BARRISTERS' REPORTING SERVICE

1 CELLS ARE HOMING TO THE BRAIN TUMOR. THE ENZYME IS
2 THERE TO CONVERT THE CHEMOTHERAPY TO THE ACTIVE
3 METABOLITE.

4 THEIR KEY ACCOMPLISHMENTS ARE THAT THEY
5 HAVE SELECTED THEIR FINAL THERAPEUTIC CANDIDATE
6 THAT'S BEING DEVELOPED UNDER GOOD MANUFACTURING
7 PRACTICES FOR THE CLINIC. THEY HAVE INVESTIGATED
8 THE OPTIMAL ROUTE OF ADMINISTRATION AND THE DOSE OF
9 NEURAL STEM CELLS TO ACHIEVE THE MAXIMUM PERCENTAGE
10 OF TUMOR COVERAGE. THEY HAVE ELECTED TO INJECT BY
11 THE INTRACRANIAL ROUTE DIRECTLY INTO THE BRAIN
12 TUMOR. BUT IN ADDITION, THEY DO HAVE EVIDENCE OF
13 EFFICACY WITH AN INTRAVENOUS APPROACH. SO THEY ARE
14 ALSO GOING TO BE PURSUING AN I.V. ROUTE AS WELL
15 BECAUSE THEY FEEL THAT THAT WOULD BE A MORE FEASIBLE
16 WAY TO DELIVER THE CHEMOTHERAPY AND SOMETHING THAT
17 COULD BE DONE MORE EASILY IN THE CLINIC.

18 THE DRUG WHEN DELIVERED IN THIS WAY HAS A
19 THOUSAND MORE TOXICITY TO BRAIN TUMOR CELLS THAN
20 CHEMOTHERAPY ALONE. THIS TEAM HAS ALSO DEVELOPED A
21 WAY TO TRACK THE CELLS ONCE THEY'RE INJECTED. THEY
22 DEVELOPED A NOVEL IRON NANOPARTICLE TO TRACK THE
23 STEM CELLS THROUGH NONINVASIVE IMAGING THROUGH
24 MAGNETIC RESONANCE IMAGING. THEY'VE HAD ONE
25 PUBLICATION, 200 REVIEWS, AND 11 PRESENTATIONS.

BARRISTERS' REPORTING SERVICE

1 IN ADDITION, THEY FOUNDED A COMPANY CALLED
2 THERABIOLOGICS. AND THEIR STATUS RIGHT NOW IS THAT
3 THEY'RE COMPLETING THEIR PRECLINICAL PROOF OF
4 CONCEPT EFFICACY, THEY SHOULD COMPLETE THAT IN THE
5 FALL OF THIS YEAR, AND HAVE A PRE-IND DISCUSSION
6 WITH THE FDA. AT THIS POINT IN TIME, THERE'S NO
7 FINANCIAL OR TIMELINE IMPACT TO THE PROJECT.

8 THE NEXT TEAM, ALSO WORKING ON RECURRENT
9 GLIOBLASTOMA, THE SAME INDICATION MENTIONED EARLIER,
10 IS DR. BERGER. HE WAS TAKING A DIFFERENT APPROACH.
11 HE WAS LOOKING AT ALLOGENEIC HUMAN NEURAL STEM CELLS
12 OR MESENCHYMAL STEM CELLS. THEY WERE ACTUALLY
13 LOOKING AT THREE DIFFERENT SOURCES TO TRY AND SELECT
14 A THERAPEUTIC CANDIDATE TO TARGET THE TUMORS. HERE
15 IT WAS ENGINEERED TO DELIVER A GENE PRODUCT THAT WAS
16 TOXIC TO TUMORS. IT WAS 5FC IN THIS INSTANT. THEY
17 WERE USING TWO DISTINCT -- THEY WERE TRYING TO
18 DISTINGUISH WHICH GENE MODIFICATION TO MAKE. AND SO
19 THEY HAD TWO DIFFERENT GENE MODIFICATIONS THEY WERE
20 LOOKING AT. AND THEY WERE ALSO LOOKING AT ROUTE OF
21 ADMINISTRATION, WHETHER IT COULD BE GIVEN
22 INTRAVENOUSLY, WHICH COMMERCIALY MIGHT BE OF BETTER
23 BENEFIT, OR DID IT NEED TO BE DELIVERED
24 INTRACRANIALY DIRECTLY TO THE TUMOR SITE.

25 SO THEY HAVE THREE DIFFERENT SOURCES OF

BARRISTERS' REPORTING SERVICE

1 THERAPEUTIC CANDIDATE TO LOOK AT. THEY HAD TWO
2 DIFFERENT GENE PRODUCTS TO LOOK AT. AND THEY HAD
3 TWO DIFFERENT ROUTES OF ADMINISTRATION TO LOOK AT.
4 SO THEY HAD A LOT OF VARIABLES THAT THEY NEEDED TO
5 MAKE A DECISION ABOUT.

6 WHAT THEY FOUND FROM THEIR RESEARCH IS
7 THAT THE STEM CELLS DID NOT REACH THE BRAIN TUMORS
8 BY THE INTRAVENOUS ROUTE. THIS IS ACTUALLY
9 DIFFERENT THAN WHAT THE OTHER TEAM WAS ABLE TO SHOW.
10 THEY SHOWED THAT THEY COULD NOT DISTINGUISH BETWEEN
11 THE NEURAL OR THE MESENCHYMAL STEM CELLS IN TERMS OF
12 THEIR ABILITY TO DISPERSE TO TUMORS. THEY WERE ABLE
13 TO SHOW THAT THEY WERE AROUND THE TUMOR. THEY WERE
14 NOT ABLE TO SHOW ACTUALLY THAT IT COULD SELECTIVELY
15 HOME TO THE TUMOR.

16 THEY DID SHOW THAT THE UNMODIFIED NEURAL
17 STEM CELLS DID NOT HAVE SUFFICIENT PROLIFERATIVE
18 CAPACITY FOR PRODUCTION AS THERAPEUTIC STEM CELLS.

19 THEY HAD SOME IN VITRO STUDIES THAT SHOWED
20 SOME BETTER ANTITUMOR ACTIVITY WHEN THE STEM CELLS
21 WERE MODIFIED WITH ONE GENE PRODUCT AS OPPOSED TO
22 THE OTHER GENE PRODUCT.

23 THEY WERE ABLE TO PUT OUT TWO
24 PUBLICATIONS, AND THEY ALSO DEVELOPED TWO METHODS
25 FOR DETECTING HUMAN CELLS, AND THEY ALSO DEVELOPED A

BARRISTERS' REPORTING SERVICE

1 XENOGRAPH PRECLINICAL MODEL THAT COULD POTENTIALLY
2 BE USEFUL IN THERAPEUTIC TESTING FOR PEOPLE WHO ARE
3 TRYING TO DEVELOP INTERVENTIONS IN THIS CLINICAL
4 INDICATION THAT HAS A VERY HIGH UNMET NEED.

5 SO WE HAVE A TEAM THAT ACTUALLY WAS VERY
6 MUCH PURSUING THE RIGHT STUDIES. THE DATA DID NOT
7 GO IN THE DIRECTION THEY WOULD HAVE LIKED FOR THEM
8 TO BE ABLE TO SELECT A THERAPEUTIC CANDIDATE, A GENE
9 PRODUCT, AND HAVE SUFFICIENT EVIDENCE THAT THIS
10 WOULD HAVE A CHANCE FOR SUCCESS. THIS DID GO
11 THROUGH AN EVALUATION WITH THE CLINICAL DEVELOPMENT
12 ADVISORS. WE DID HAVE MULTIPLE DISCUSSIONS WITH THE
13 TEAM. AND THE STATUS IS THAT THEY WERE NOT ABLE TO
14 SELECT A CELL CANDIDATE ACCORDING TO THE SELECTION
15 CRITERIA, AND THIS IS A NO-GO MILESTONE. THEY WERE
16 NOT ABLE TO MEET IT. AND SO WE ARE TERMINATING THE
17 AWARD AS OF THIS MONTH, AND THE ESTIMATED SAVINGS
18 ARE APPROXIMATELY 13 MILLION.

19 THE NEXT TEAM IS DR. CARSON'S TEAM. THIS
20 IS A TEAM THAT'S WORKING IN COLLABORATION WITH THE
21 CANADIAN COLLABORATIVE FUNDING PARTNER, JOHN DICK IN
22 TORONTO. HERE THE TEAM IS LOOKING IN THE DISEASE
23 INDICATION OF LEUKEMIAS. THEY WERE GOING TO LOOK IN
24 FOUR DIFFERENT INDICATIONS IN ACUTE LYMPHOCYTIC
25 LEUKEMIA, CHRONIC LYMPHOCYTIC LEUKEMIA, ACUTE

BARRISTERS' REPORTING SERVICE

1 MYELOGENOUS LEUKEMIA, AND CHRONIC MYELOGENOUS
2 LEUKEMIA, AND THEY WERE ALSO GOING TO LOOK AT
3 T-CELLS AND B-CELLS IN THESE DIFFERENT TYPES OF
4 LEUKEMIAS.

5 JUST OF NOTE, LEUKEMIAS HAVE DIFFERENT
6 TYPES OF CHEMOTHERAPY THAT ARE GIVEN TO THEM
7 DEPENDING ON THE TYPE OF CELL TYPE THAT IT IS AND
8 ALSO WHETHER IT'S ACUTE OR CHRONIC. SO THERE'S
9 DIFFERENT TYPES OF THERAPEUTIC INTERVENTIONS THAT
10 TAKE PLACE. AND ALSO THESE DIFFERENT TYPE OF
11 LEUKEMIAS HAVE DIFFERENT BIOLOGICAL CHARACTERISTICS
12 AND MOLECULAR CHANGES THAT DRIVE THE TUMOR.

13 THIS TEAM WAS LOOKING AT THREE SMALL
14 MOLECULES AND THREE MONOCLONAL ANTIBODIES, ALL OF
15 WHICH WERE LOOKING AT VARIOUS MARKERS IN THE CANCER
16 STEM CELL TO DEVELOP THERAPIES TARGETING SURVIVAL
17 AND SELF-RENEWAL PATHWAYS IN THE LEUKEMIC STEM
18 CELLS.

19 THEIR KEY ACCOMPLISHMENTS WERE THAT THEY
20 WERE ABLE TO SHOW SOME EFFICACY WITH ONE OF THE
21 MONOCLONAL ANTIBODIES THAT BLOCKED A PARTICULAR
22 PATHWAY THAT'S IMPORTANT FOR SIGNALING IN ONE OF
23 TYPES OF LEUKEMIAS, CHRONIC LYMPHOCYTIC LEUKEMIA,
24 AND THEY HAVE EVIDENCE OF SOME ACTIVITY WITH A SMALL
25 MOLECULE INHIBITING THE JAK2 KINASE IN ACUTE

BARRISTERS' REPORTING SERVICE

1 MYELOGENOUS LEUKEMIA, AND THEY ALSO LOOKED AT THIS
2 IN SERIAL TRANSPLANT MODELS IN PRECLINICAL SETTING
3 USING PATIENT LEUKEMIA CELLS.

4 THEY'VE ALSO BEEN ABLE TO CONDUCT
5 EXTENSIVE GENOMIC STUDIES TO DEVELOP A LEUKEMIA STEM
6 CELL BIOMARKER SIGNATURE, LOOKING FOR RESPONSE AND
7 RESISTANCE. AND THEY FEEL THAT THIS MARKER-TYPE
8 STUDIES COULD HAVE POTENTIAL UTILITY IN HELPING TO
9 INDIVIDUALIZE THERAPIES AND HOPEFULLY IMPROVING
10 RESPONSE.

11 SO THEIR STATUS, THERE WAS A CLINICAL
12 DEVELOPMENT ADVISORY MEETING. THEY CONSIDERED A
13 VARIETY OF ISSUES. WE HAD INTERNAL DELIBERATIONS.
14 AND WHAT WE RECOMMENDED TO THE TEAM IS THAT THEY
15 FOCUS THEIR WORK ON TWO THERAPEUTIC INTERVENTIONS
16 AND TWO DISEASE INDICATIONS, THOSE THAT ACTUALLY HAD
17 THE HIGHER LIKELIHOOD OF HAVING THE POTENTIAL FOR
18 SUCCESS. AND SO THEY'RE FOCUSING THEIR ATTENTION --
19 THIS IS STILL WITHIN THE SCOPE OF THEIR ORIGINAL
20 RESEARCH. IT'S JUST FOCUSING THEM. AND SO WE
21 FOCUSED ON CHRONIC LYMPHOCYTIC LEUKEMIA AND ACUTE
22 MYELOGENOUS LEUKEMIA, AND WE WERE FOCUSED ON THE
23 MOLECULES BY WHICH THEY THINK THEY WILL HAVE A
24 BETTER PROBABILITY OF SUCCESS. THEIR BUDGET AND
25 TIMELINES ARE BEING ASSESSED AND REALIGNED

BARRISTERS' REPORTING SERVICE

1 ACCORDINGLY.

2 CHAIRMAN THOMAS: I HAVE A QUESTION ON
3 THAT, ELLEN. I KNOW THAT THE TEAM WAS QUITE HIGH ON
4 THE LEUKEMIA STEM CELL SIGNATURE ASPECT OF THE
5 PROJECT AND SORT OF WAS A PORTENT OF INDIVIDUALIZED
6 THERAPY, ETC. UNDER THE RECOMMENDATION ON HOW TO
7 PROCEED AS MODIFIED, WHERE DOES THAT ELEMENT FACTOR
8 IN?

9 DR. FEIGAL: WELL, THE GENOMICS WORK WOULD
10 CONTINUE TO BE DONE AS RELEVANT FOR THE DEVELOPMENT
11 IN THOSE TWO DISEASE INDICATIONS.

12 DR. LEVIN: JUST REAL QUICK. I'M
13 WONDERING IF YOU'RE ANTICIPATING ANY COST SAVINGS
14 FROM THAT, OR YOU'RE JUST REFOCUSING THE MONEY THAT
15 HAS BEEN ALLOCATED INTO THOSE TWO CANDIDATES.

16 DR. FEIGAL: WE'RE IN THE PROCESS OF
17 LOOKING AT IT RIGHT NOW BECAUSE PART OF IT IS TAKING
18 A HARD LOOK AT THE BUDGET TO SEE DID THEY REALLY
19 BUDGET APPROPRIATELY FOR ALL THE ACTIVITIES THEY
20 REALLY NEED TO DO TO BRING IT ALL THE WAY FORWARD.
21 SO RIGHT NOW WITH THE REFOCUSING, WE DON'T KNOW IF
22 WE'RE GOING TO HAVE COST SAVINGS, BUT WE DEFINITELY
23 KNOW THAT THEY'RE GOING TO BE MORE FULLY RESOURCED
24 TO ACTUALLY BE FOCUSING ON THOSE TWO INDICATIONS AND
25 THOSE TWO THERAPEUTIC INTERVENTIONS.

BARRISTERS' REPORTING SERVICE

1 DR. LEVIN: IT'S MORE A REALLOCATION OF
2 RESOURCES.

3 DR. FEIGAL: AT THIS POINT IN TIME, IT'S A
4 REALIGNMENT, AND WE'RE STILL GOING THROUGH THE
5 DIFFERENT DISCUSSIONS ABOUT THIS. OKAY?

6 THE NEXT TEAM IS DR. HUMAYUN. DR. HUMAYUN
7 IS WORKING ON A PROBLEM IN VISION. IT'S CALLED
8 AGE-RELATED MACULAR DEGENERATION. IT'S A DISEASE AS
9 ONE GETS OLDER, THERE'S A PROBLEM AT THE BACK OF THE
10 EYE WHERE THE RETINAL EPITHELIUM IS NO LONGER ABLE
11 TO NOURISH THE PHOTORECEPTORS WHICH ARE CRITICAL FOR
12 OUR VISION. SO THEY'RE WORKING -- THEIR THERAPEUTIC
13 CANDIDATE IS ACTUALLY A COMBO PRODUCT. THEY'RE
14 WORKING ON HUMAN EMBRYONIC STEM CELL-DERIVED RETINAL
15 PIGMENT EPITHELIUM ON A SYNTHETIC MATRIX WHICH IS
16 NONBIODEGRADABLE. THIS MATRIX MIMICS THE MEMBRANE,
17 THE BRUCH'S MEMBRANE, IT'S CALLED, AT THE BACK OF
18 THE EYE. AND IT'S IMPORTANT FOR THESE CELLS TO BE
19 ON THIS TYPE OF A SCAFFOLD BECAUSE IT'S NOT JUST THE
20 CELLS. IT'S THE LOCATION OF THE CELLS IN THE EYE
21 AND THEIR ABILITY TO CONNECT WITH THE
22 PHOTORECEPTORS. SO THERE'S A CERTAIN ORIENTATION
23 THAT THESE CELLS NEED TO HAVE. SO THAT'S WHY IT'S
24 ON A SCAFFOLD. SO IT'S IMPORTANT FOR ATTACHMENT
25 SURVIVAL AND DIFFERENTIATION OF THESE CELLS.

BARRISTERS' REPORTING SERVICE

1 THIS IS A GROUP THAT IS WORKING PARTIALLY
2 FUNDED BY THE UK, MRC, AS A COLLABORATING FUNDING
3 PARTNER. PETER COFFEY, AS YOU KNOW, ALSO MOVED HIS
4 LOCATIONS TO UC SANTA BARBARA, AND SO THAT
5 COLLABORATION IS CONTINUING.

6 THEIR KEY ACCOMPLISHMENTS ARE THAT THEY
7 DESIGNED A VERY THIN MATRIX THAT HAS SUFFICIENT
8 MECHANICAL STRENGTH FOR CULTURING AND SURGICAL
9 HANDLING, AND IT HAS PERMEABILITY CHARACTERISTICS SO
10 THAT THAT MIMICS THE MEMBRANE AT THE BACK OF THE EYE
11 SO THAT IT ALLOWS THE PASSAGE OF PROTEINS THAT NEED
12 TO GET IN TO HELP NOURISH THINGS, BUT IT PREVENTS
13 THE MIGRATION OF STEM CELLS TO LOCATIONS WE DON'T
14 WANT THE STEM CELLS TO GO.

15 THEY HAVE SEVEN PATENT FILINGS THAT COVERS
16 THIS MATRIX, INCLUDES THE PLACEMENT OF THE CELLS ON
17 THE MATRIX, THE METHODS TO PRODUCE THE RETINAL
18 PIGMENT EPITHELIAL CELLS, A PATENT TO TRACK THE
19 CELLS AFTER IMPLANTATION, AND THE SPECIALIZED
20 INSTRUMENTATION THAT'S NEEDED FOR SURGERY DELIVERY
21 OF IMPLANT.

22 THEY HAVE DONE A PROOF OF CONCEPT
23 PRECLINICALLY AFTER IMPLANTATION IN A PRECLINICAL
24 MODEL. THEY'VE SHOWED SUCCESSFUL CONNECTIONS, THAT
25 INTERDIGITATION OF THE TRANSPLANTED CELLS AND MATRIX

BARRISTERS' REPORTING SERVICE

1 WITH THE HOST PHOTORECEPTORS THAT HAVE SHAPE AND
2 FUNCTIONAL RESCUE OF THE PHOTORECEPTORS AND RESCUE
3 OF VISION. THEY'VE ALSO CREATED A SPIN-OFF COMPANY,
4 REGENERATIVE PATCH TECHNOLOGIES.

5 THEIR STATUS IS THAT THEIR TIMELINES AND
6 FINANCIALS ARE UNCHANGED, AND THEY ARE CONTINUING TO
7 MAKE PROGRESS.

8 THE NEXT TEAM IS DR. SLAMON.

9 DR. PRIETO: I HAD A QUESTION. IF YOU
10 COULD GO BACK TO THE PREVIOUS SLIDE. IN THE
11 ACCOMPLISHMENTS, THE PROOF OF CONCEPT, HOW ARE THEY
12 ASSESSING RESCUE OF VISION?

13 DR. FEIGAL: THIS IS IN A PRECLINICAL
14 ANIMAL MODEL IN MICE WITH -- THERE'S ACTUALLY A
15 GUIDANCE DOCUMENT OUT THERE BY THE FDA THAT JUST
16 CAME OUT PROBABLY WITHIN THE PAST FEW MONTHS ABOUT
17 HOW TO DO END POINTS IN CLINICAL ASSESSMENT OF
18 VISION AND PRECLINICAL. SO THEY'RE ACTUALLY
19 FOLLOWING VALIDATED MODELS FOR LOOKING AT HOW TO
20 ASSESS THIS IN MICE. THERE'S ACTUALLY -- I COULD GO
21 INTO MORE DETAIL.

22 DR. PRIETO: I'M JUST CURIOUS HOW YOU DO
23 THAT.

24 DR. FEIGAL: IT'S TRACKING. OBVIOUSLY
25 MICE ARE NOT READING AN EYE CHART. SO IT WOULD BE

BARRISTERS' REPORTING SERVICE

1 INTERESTING TO TRY. BUT THERE'S A WAY TO TRACK THE
2 EYE MOVEMENTS AND TRACKING -- I'M NOT AN EXPERT IN
3 THIS, BUT I DID LOOK INTO IT BECAUSE I TOO WAS
4 CURIOUS HOW YOU DO THAT. SO THEY DISTINGUISH
5 BETWEEN BLACK AND WHITE, TO SEE THE DIFFERENCE
6 BETWEEN LIGHT AND NIGHT. AND THEY ALSO CAN SHOW
7 THAT THEY'RE TRACKING. THEY'RE PUT INTO THIS DEVICE
8 WHERE SOMETHING ROTATES AROUND THEM, AND THEY
9 MONITOR THE TRACKING OF THE EYE. IT'S VERY
10 INTERESTING.

11 DR. PRIETO: ALSO JUST CURIOUS. THANK
12 YOU.

13 DR. FEIGAL: I CAN SEND YOU SOME
14 REFERENCES ON IT IF YOU'RE INTERESTED IN READING
15 MORE ABOUT IT.

16 DR. SLAMON IS WORKING ON CANCER STEM CELLS
17 IN SOLID CANCER. SO THE PREVIOUS TEAM YOU HEARD
18 ABOUT, DR. CARSON, IS WORKING ON HEMATOLOGIC
19 MALIGNANCIES. DR. SLAMON IS WORKING ON CANCER STEM
20 CELLS IN SOLID CANCERS.

21 HE'S LOOKING AT NOVEL SMALL MOLECULE
22 INHIBITORS OF TWO KINASES THAT TARGET CANCER STEM
23 CELLS IN BRAIN TUMORS, A GLIOMA, IN COLON CANCER AND
24 OVARIAN CANCER. AND HE'S WORKING IN COLLABORATION
25 WITH A CANADIAN COLLABORATIVE FUNDING PARTNER,

BARRISTERS' REPORTING SERVICE

1 DR. TAK MAK IN TORONTO.

2 THEIR ACCOMPLISHMENTS IS THAT THEY DO HAVE
3 A FIRST LEAD CANDIDATE MOLECULE THAT HAS SHOWN
4 EFFICACY IN PRECLINICAL MODELS USING HUMAN TUMORS
5 SPECIFICALLY TARGETING CANCER STEM CELLS ALTHOUGH IT
6 DOES APPEAR THAT THEY HAVE DO HAVE IMPACT ON THE
7 NONCANCER STEM CELLS AS WELL. HE IS WORKING AT SOME
8 OF THE VERY INTERESTING NONINVASIVE IMAGING
9 TECHNIQUES TO TRY AND DISTINGUISH THE IMPACT ON THE
10 CANCER STEM CELL VERSUS THE NONCANCER STEM CELL
11 TUMOR. HE IS MOVING INTO IND-ENABLING STUDIES. THE
12 TEAM IS ALSO WORKING ON A SECOND MOLECULE TARGETING
13 A DIFFERENT NOVEL PATHWAY IN THE CANCER STEM CELL.
14 HE IS MAKING VERY GOOD PROGRESS, AND HIS TIMELINES
15 AND FINANCIALS REMAIN UNCHANGED.

16 DR. WEISSMAN IS LOOKING AT CANCER STEM
17 CELLS IN ACUTE LEUKEMIA. HIS THERAPEUTIC CANDIDATE
18 IS A MONOCLONAL ANTIBODY. IT'S A HUMAN ANTI-CD47
19 MONOCLONAL ANTIBODY. IT'S DIRECTED AGAINST THE CELL
20 SURFACE TARGET THAT'S PREFERENTIALLY EXPRESSED ON
21 ACUTE MYELOID LEUKEMIA, AND ALSO IT DOES APPEAR TO
22 BE EXPRESSED ON OTHER CANCER STEM CELLS IN OTHER
23 SOLID TUMOR. CD47 FUNCTIONS AS IN DR. WEISSMAN'S
24 TERM A DON'T EAT ME SIGNAL. SO BASICALLY LEUKEMIA
25 CELLS HAVE THIS ON THEIR SURFACE, AND THE CELLS THAT

BARRISTERS' REPORTING SERVICE

1 WOULD NORMALLY CHEW THEM AND EAT THEM UP, SOMEHOW IT
2 SENDS OUT A SIGNAL TO DON'T EAT ME. SO THE LEUKEMIA
3 STEM CELLS ARE ABLE TO SURVIVE.

4 AND HE'S NOW DEVELOPED A MONOCLONAL
5 ANTIBODY TO APPARENTLY INTERRUPT THIS SIGNALING SO
6 THAT THE LEUKEMIA STEM CELLS CAN NOW BE EATEN. HIS
7 KEY ACCOMPLISHMENTS ARE THAT HE'S HUMANIZED AND
8 EVALUATED A NUMBER OF CANDIDATE ANTI-CD47 ANTIBODIES
9 THAT ARE AIMED AT THE CANCER STEM CELL IN ACUTE
10 MYELOGENOUS LEUKEMIA. HE'S FILED A PATENT COVERING
11 THE SEQUENCE AND USES FOR THE LEAD THERAPEUTIC
12 CANDIDATE. HE'S SHOWN OF PROOF OF CONCEPT EFFICACY.
13 HE HAS ERADICATED LEUKEMIA IN A TUMOR-BEARING
14 XENOGRAPH MODEL OF PRIMARY LEUKEMIC CELLS FROM
15 PATIENTS WITH ACUTE MYELOGENOUS LEUKEMIA. HE'S
16 CONDUCTING PRECLINICAL DOSE EXPLORATION AND PILOT
17 SAFETY STUDIES IN THESE PRECLINICAL MODELS.

18 THE MRC-FUNDED UK COMPONENT IS COLLECTING
19 AND ANALYZING SAMPLES FROM PATIENTS ENROLLED IN
20 ACUTE MYELOGENOUS LEUKEMIA TRIALS IN THE UK TO
21 EVALUATE THE DIAGNOSTIC AND PROGNOSTIC VALUE OF CD47
22 AS BEING A DRIVER FOR LEUKEMIA RELAPSE. SO HE HAS A
23 NICE TRANSLATIONAL COMPONENT WITH PEOPLE WORKING ON
24 HUMAN SPECIMENS IN THE UK THAT'S COMPLEMENTARY TO
25 WHAT HE'S DOING HERE.

BARRISTERS' REPORTING SERVICE

1 THE STATUS OF THIS TEAM IS THAT THEY'RE
2 PURSUING PRECLINICAL SAFETY AND EFFICACY, AND THE
3 TIMELINES AND FINANCIALS REMAIN UNCHANGED.

4 DR. GOLDSTEIN IS WORKING ON AMYOTROPHIC
5 LATERAL SCLEROSIS. IT'S A NEURODEGENERATION
6 DISEASE. AT THIS POINT IN TIME, THERE REALLY ARE NO
7 GOOD THERAPEUTIC OPTIONS TO TREAT THIS DISEASE.
8 HE'S WORKING ON HUMAN EMBRYONIC STEM CELL-DERIVED
9 ASTROCYTE PRECURSOR CELLS FOR SUBSEQUENT DEVELOPMENT
10 OF A PRODUCT THAT WILL BE INJECTED INTO THE
11 PATIENT'S SPINAL CORD.

12 HIS KEY ACCOMPLISHMENTS ARE THAT HE HAS
13 GENERATED CELLS FROM DIFFERENT SOURCES OF THESE
14 CELLS. HE'S IN THE PROCESS OF IDENTIFYING CELL
15 LINES WITH THE BEST CHARACTERISTICS OF MINIMAL
16 TOXICITY AND EFFICIENT PRODUCTION OF THE FINAL CELL
17 TYPE. AND HE HAS LOOKED AT PRECLINICAL PROOF OF
18 CONCEPT DEMONSTRATING THAT THESE STEM CELLS CAN
19 PROTECT MOTOR NEURON VIABILITY IN A PRECLINICAL
20 MODEL.

21 HIS STATUS IS THAT HE IS ON TRACK FOR
22 SELECTING A SINGLE CELL LINE IN MID-2012, AND THE
23 TIMELINES AND FINANCIALS REMAIN UNCHANGED.

24 MR. TORRES: ON THE GOLDSTEIN PROPOSAL,
25 WHAT TYPE OF ANIMALS ARE BEING USED?

BARRISTERS' REPORTING SERVICE

1 DR. FEIGAL: THESE ARE IN MICE.

2 CHAIRMAN THOMAS: NOT THE PORCINE THAT WE
3 HEARD ABOUT EARLIER. THANK YOU.

4 DR. FEIGAL: MARBAN IS WORKING ON -- YOU
5 ACTUALLY HEARD MARBAN AT THE LAST JANUARY BOARD
6 MEETING. HE WAS NOT TALKING ABOUT THE THERAPEUTIC
7 CANDIDATE THAT WE'RE FUNDING. HE WAS ACTUALLY
8 TALKING ABOUT AN AUTOLOGOUS CANDIDATE. HE INITIALLY
9 CAME INTO THIS DISEASE TEAM WANTING TO LOOK AT
10 AUTOLOGOUS WHAT'S CALLED CARDIAC-DERIVED
11 CARDIOSPHERES. THEY'RE SORT OF CLUMPS OR BALLS OR
12 CLUSTERS OF STEM CELLS OR CARDIOSPHERE-DERIVED
13 CELLS. THEY'RE SEPARATED CELLS. THEY'RE NOT
14 TOGETHER IN A SPHERE AND A CLUMP FOR EVALUATING
15 THEIR UTILITY IN ADVANCED ISCHEMIC CARDIOMYOPATHY,
16 BASICALLY POST-MI HEART FAILURE.

17 HIS KEY ACCOMPLISHMENTS ARE THAT HE'S
18 DISCOVERED THAT ALLOGENEIC CELLS APPEAR TO BE AS
19 EFFECTIVE AS THE AUTOLOGOUS CELLS IN IMPROVING
20 CARDIAC FUNCTION IN A PRECLINICAL MODEL AND THAT THE
21 IMMUNE CONSEQUENCES OF THE CELL BEING ALLOGENEIC
22 APPEAR TO BE NEGLIGIBLE. AND WITH CIRM SUPPORT,
23 HE'S EXTENDED THAT FINDING TO ANOTHER PRECLINICAL
24 MODEL. SO HE'S SHOWN IN TWO DIFFERENT ANIMAL MODELS
25 THAT HE CAN GET THIS EFFECT.

BARRISTERS' REPORTING SERVICE

1 THE ALLOGENEIC CELLS CAN BE OBTAINED IN
2 LARGE NUMBERS FROM A DONOR HEART WHICH WOULD GREATLY
3 FACILITATE SCALE-UP AND MANUFACTURING, ENABLING MORE
4 STANDARDIZED OFF-THE-SHELF PRODUCT. WHEN YOU'RE
5 DEALING WITH AUTOLOGOUS, THERE'S A LOT OF
6 VARIABILITY IN TERMS OF WHAT DOSE YOU CAN GET OUT OF
7 THE PATIENT, WHETHER OR NOT THEY'RE SUFFICIENTLY
8 MANUFACTURED. HAVING ANOTHER SOURCE THAT THEY CAN
9 GO TO CAN GREATLY STANDARDIZE THE PROCESS AND MAKE
10 IT MORE OFF THE SHELF.

11 CIRM APPROVED THIS SWITCH TOWARDS AN
12 ALLOGENEIC PRODUCT. THIS ALSO HAD BEEN A TOPIC OF
13 DISCUSSION AT THE CLINICAL DEVELOPMENT ADVISORS. SO
14 HE SELECTED THE CARDIOSPHERES AS THE THERAPEUTIC
15 CANDIDATE. THEY WILL BE DELIVERED BY DIRECT
16 INJECTION INTO THE HEART USING A SPECIAL
17 MAGNETICALLY GUIDED CATHETER. THESE ARE ACTUALLY
18 TOO BIG TO BE DELIVERED BY INTRACORONARY CATHETER
19 INJECTION, SO THERE'S ACTUALLY A SPECIAL DEVICE THAT
20 INJECTS IT DIRECTLY INTO THE HEART RATHER THAN
21 THROUGH THE VASCULATURE.

22 THE STATUS THAT HE WAS WILLING TO HAVE US
23 SHARE IS THAT HE IS ANTICIPATING IND FILING FOR THIS
24 PRODUCT IN MID-2012. AT THIS POINT IN TIME, THERE'S
25 NO CHANGE IN TIMELINE OR FINANCIALS.

BARRISTERS' REPORTING SERVICE

1 DR. CHEN IS WORKING ON HIV/AIDS. HERE
2 HE'S WORKING ON A THERAPEUTIC CANDIDATE THAT TAKES
3 THE PATIENT'S OWN HEMATOPOETIC STEM CELLS THAT ARE
4 GENETICALLY MODIFIED WITH A LENTIVIRAL VECTOR THAT
5 ENCODES A SHORT RNA THAT'S DIRECTED AGAINST THE
6 RECEPTOR FOR HIV CALLED CCR5. AND HE'S ALSO LOOKING
7 AT A FUSION INHIBITOR AS WELL FOR PATIENTS WITH HIV
8 INFECTION.

9 HE'S CONSIDERING HIS TARGET INDICATION
10 EITHER PATIENTS WHO HAVE -- AT THIS POINT IN TIME,
11 HE'S THINKING FOR REFRACTORY, FOR NAIVE, OR FOR
12 PATIENTS WITH AIDS-RELATED MALIGNANCIES.

13 HIS KEY ACCOMPLISHMENTS ARE THAT HE HAS
14 IDENTIFIED UNIQUE ANTI-HIV RNA'S THAT CAN PREVENT
15 HIV INFECTION THROUGH PREVENTING HIV ENTRY INTO
16 CELLS BY TARGETING CCR5 AS WELL AS HIV REPLICATION
17 THROUGH THESE SHORT RNA'S THAT INHIBIT DIFFERENT
18 STEPS OF THE HIV REPLICATION CYCLE. IN HIV, IN
19 GENERAL, HE'S GOING FOR MULTIPLE HITS AGAINST
20 PREVENTING HIV FROM TAKING OVER THE CELLS. SO HE'S
21 NOT JUST LOOKING AT CCR5. HE'S TRYING TO LOOK AT A
22 SECOND TARGET SITE WHERE THAT WILL CRIPPLE THE HIV.

23 HIS ONGOING STUDIES ARE DEMONSTRATING HIV
24 INHIBITION IN THE TEST TUBE AS WELL AS IN AN IN VIVO
25 PRECLINICAL MODEL. AT THIS POINT IN TIME, THERE'S

BARRISTERS' REPORTING SERVICE

1 NO IMPACT ON TIMELINES OR FINANCIALS.

2 MS. SAMUELSON: I HAVE A QUESTION BACK ON
3 THE ALS. SHALL WE TAKE THAT NOW OR LATER? IT TALKS
4 ABOUT PRECLINICAL PROOF OF CONCEPT WITH A MOUSE
5 MODEL. AND I WOULD THINK THERE'S A LOT OF OVERLAP
6 BETWEEN ALS AND PARKINSON'S. PRETTY CONSISTENTLY IN
7 PARKINSON'S THE MOUSE MODELS HAVEN'T BEEN
8 PREDICTIVE. IS THAT BEING TAKEN INTO CONSIDERATION?
9 HAS THAT BEEN UNDER DISCUSSION BY THE ADVISORS? AND
10 HOW DOES THAT FIT WITH SAYING THAT THERE IS
11 PRECLINICAL PROOF OF CONCEPT?

12 DR. FEIGAL: THAT CERTAINLY IS A TOPIC OF
13 DISCUSSION IN TERMS OF WHAT DOES HE NEED TO DO TO
14 SHOW EFFICACY. SO I'M SAYING HE HAS DEMONSTRATED
15 SOME EVIDENCE OF PRECLINICAL ACTIVITY. I THINK I'M
16 ENCROACHING ON THINGS THAT MIGHT BEST BE DONE UNDER
17 A MORE CLOSED SESSION AT THIS POINT.

18 MS. SAMUELSON: I THINK IT WOULD BE GOOD
19 TO DO THAT WHENEVER IT'S CONVENIENT BECAUSE THAT
20 DOES INFORM A LARGER QUESTION, QUESTIONS ABOUT
21 PRECLINICAL PROOF OF CONCEPT AND THE FEASIBILITY OF
22 GETTING TO AN IND WITHIN THE TIME FRAMES AND SO ON.

23 DR. FEIGAL: SINCE DR. BERRY HAS BEEN IN
24 COMMUNICATION WITH THE TEAM ABOUT WHAT WE CAN AND
25 CAN'T PUBLICLY SHARE, I'M GOING TO HAVE HER JUST

BARRISTERS' REPORTING SERVICE

1 GIVE YOU AN UPDATE AT LEAST ON THE MODEL THAT
2 THEY'RE USING THAT WE CAN PUBLICLY SHARE.

3 DR. BERRY: SO DR. GOLDSTEIN IS USING AN
4 SOD RAT MODEL ACTUALLY. AND HE'S PUBLISHED ON THAT.
5 AND DON CLEVELAND, HE DEVELOPED THAT MODEL, AND HE'S
6 WORKING IN CONJUNCTION WITH DON, OF COURSE. AND THE
7 SOD MODEL IS ALSO THE MODEL THAT, I THINK IT'S
8 NEURALSTEM WHO IS IN CLINIC NOW IN ALS. NICK BOLUS
9 IS THE SURGEON. JONATHAN GLASS IS THE PI IN EMORY
10 WHERE THEY'RE INJECTING STEM CELLS INTO ALS
11 PATIENTS.

12 SO THIS IS THE SAME MODEL AND THE SAME
13 PATH THAT THAT CLINICAL TRIAL IN THAT PARTICULAR
14 PRODUCT IS MOVING THROUGH.

15 MS. SAMUELSON: MY QUESTIONS ARE THE SAME,
16 BUT PERHAPS IT NEEDS TO BE IN A CLOSED SESSION.

17 DR. FEIGAL: I'M NOT SURE I CAN ANSWER
18 YOUR QUESTION ABOUT THE RELATIONSHIP OF THIS.

19 DR. BERRY: YOU WERE TRYING TO DRAW
20 SOMETHING OF AN ALS AND PARKINSON'S, AND I HAVE NO
21 ANSWER TO THAT.

22 MS. SAMUELSON: WELL, I GUESS IT'S A
23 LARGER QUESTION HAVING TO DO WITH HOW DO YOU
24 DETERMINE SUCCESS, PREDICT SUCCESS, OR SO-CALLED
25 FAILURE FOR THE DISEASE TEAM GRANT MODEL PURPOSES

BARRISTERS' REPORTING SERVICE

1 WHEN THE DATA IS IN MICE OR RATS OR EVEN PRIMATES
2 OFTEN IN THE PARKINSON'S INSTANCE. IT SEEMS TO ME
3 IT WOULDN'T NECESSARILY BE FAILURE AT THE CLINICAL
4 TRIAL THERE TO BE LACK OF SUCCESS BECAUSE WHAT IT'S
5 REALLY ABOUT IS TRYING TO GET TO AN EFFECTIVE
6 THERAPY. AND IT SEEMED LIKE EARLIER TODAY YOU WERE
7 SAYING THAT MAYBE IT WAS ONE IN SIX WHERE IT
8 SUCCEEDED.

9 DR. FEIGAL: I THINK YOU ARE REFERRING TO
10 PAT OLSON'S SLIDE WHERE SHE WAS QUOTING FROM PHARMA
11 AND BIOTECH WHERE GOING FROM PHASE I TO PHASE II,
12 NOT SUCCESS, WAS ABOUT ONE IN FIVE, AND GOING FROM
13 PHASE II TO PHASE III MIGHT BE ONE IN THREE. IT
14 WASN'T SPECIFIC TO A DISEASE, AND IT WAS JUST GOING
15 FROM ONE CLINICAL PHASE TO THE NEXT.

16 MS. SAMUELSON: OKAY. THIS WOULD BE
17 CONSISTENT WITH THAT. MY EARS PERKED UP AT THAT
18 POINT. AND IT SEEMS TO ME IMPORTANT TO THE
19 DISCUSSION ABOUT WHEN -- WELL, THERE ARE A COUPLE
20 DIFFERENT ISSUES. ONE BEING WHETHER A GRANT HAS TO
21 BE TURNED DOWN WHEN THEY ARE PERHAPS REALISTICALLY
22 SAYING THEY CAN'T GET TO AN IND FILING WITHIN THE
23 NORMAL TIME FRAME BECAUSE REALISTICALLY THAT DOESN'T
24 HAPPEN BECAUSE THEY MAY BE MAKING GREAT STRIDES IN
25 DEVELOPING A CELL LINE, FOR EXAMPLE, BUT RELYING ON

BARRISTERS' REPORTING SERVICE

1 MOUSE DATA, WHICH ARE NOT GOING TO BE PREDICTIVE OF
2 WHAT HAPPENS AT THE CLINICAL TRIAL. ALL THAT MAY BE
3 USEFUL TO THE EVENTUAL --

4 DR. FEIGAL: RIGHT. SO YOU'RE BRINGING UP
5 AN IMPORTANT POINT. IT'S NOT UNIQUE TO THIS
6 SPECIFIC AWARD. YOU'RE BRINGING UP A GENERAL
7 PRINCIPLE, I THINK. SO WHAT IF THEY'RE FINDING OUT
8 IMPORTANT THINGS THAT COULD BE USEFUL? DO WE HAVE
9 THE FLEXIBILITY TO EITHER REFINE THE MILESTONES,
10 CHANGE THE MILESTONES, GIVE THEM EXTRA TIME. IS
11 THAT WHAT YOU'RE ASKING?

12 MS. SAMUELSON: WELL, IT RAISES SEVERAL
13 QUESTIONS, I THINK, TO DO WITH BUDGETING AND WITH
14 THE USE OF THIS GRANT MODEL VERSUS OTHERS, AND THE
15 NEED FOR BASIC SCIENCE, FURTHER BASIC RESEARCH AT
16 THIS LATER STAGE WHEN THEY THINK THEY'RE ON TRACK TO
17 DEVELOPMENT OF A THERAPY AND, BOOM, THE THING FALLS
18 APART IN THE CLINICAL TRIAL. THIS IS JUST STANDARD
19 PROCEDURE IN THE PARKINSON'S THERAPY DEVELOPMENT
20 WORLD. THIS IS HAPPENING OVER AND OVER. AND SO
21 THEY CAN'T GET A GRANT BECAUSE THEY CAN'T MEET THE
22 TIME FRAMES, ETC.

23 DR. FEIGAL: WELL, ANYWAY, TO ANSWER YOUR
24 QUESTION THAT I'M NOT SURE THAT YOU'VE ASKED IS CIRM
25 DOES HAVE THE ABILITY TO POTENTIALLY CHANGE THE

BARRISTERS' REPORTING SERVICE

1 DIRECTION BASED UPON RECOMMENDATIONS OF THE CLINICAL
2 ADVISOR PANEL IN ADDITION TO INTERNAL DELIBERATION.
3 SO IF I CAN ANSWER THAT QUESTION, WHICH IS NOT THE
4 QUESTION YOU ASKED, BUT THERE IS AN IDEA THAT WE ARE
5 TRYING -- IS THERE SOMETHING OF VALUE OR GOOD THAT
6 WE CAN OBTAIN FROM THIS EXCELLENT TEAM EVEN IF THEY
7 CAN'T PURSUE MOVING FORWARD? SO IF THAT'S A
8 QUESTION, I'M HOPING I ANSWERED IT A LITTLE BIT.

9 MS. SAMUELSON: THAT IS AND I AGREE WITH
10 THE STATEMENT BEHIND THE QUESTION. IT ALSO SHOULD
11 BE APPLIED TO THE OTHER DISEASES FOR WHICH IT'S
12 RELEVANT, FOR EXAMPLE, PARKINSON'S.

13 DR. FEIGAL: THANK YOU.

14 DR. PRIETO: ACTUALLY I THINK DR. FEIGAL
15 JUST ANSWERED. I GUESS I WAS WONDERING SORT OF
16 ALONG THOSE LINES WHETHER WE HAD A PROCEDURE FOR
17 EXTENDING OR CHANGING THE TIMELINE IF IT LOOKS LIKE
18 A TEAM IS MAKING PROGRESS, BUT HITS BUMPS IN THE
19 ROAD, BUT IS NOT GOING TO HIT THEIR TIMELINE TARGET.

20 DR. FEIGAL: WE DO HAVE THAT FLEXIBILITY.
21 WHAT WE DON'T HAVE THE FLEXIBILITY TO DO NOW IS TO
22 INCREASE THE BUDGET. SO WE HAVE A CEILING THAT THIS
23 GROUP HAS BEEN ALLOCATED. WHEN WE START -- SO AT
24 THIS POINT IN TIME, I'D SAY THE BUDGET IS LIMITING
25 RIGHT NOW. SO WE HAVE TO TAKE THAT IN MIND IN TERMS

BARRISTERS' REPORTING SERVICE

1 OF WHAT WE ARE ABLE TO DO. OKAY.

2 THE NEXT DISEASE TEAM IS DR. KOHN, WHO IS
3 WORKING ON SICKLE DISEASES. HE IS WORKING ON TAKING
4 THE PATIENT'S OWN BONE MARROW HEMATOPOETIC STEM
5 CELLS. HE'S GENETICALLY MODIFYING IT WITH A
6 LENTIVIRAL VECTOR THAT ENCODES AN ANTISICKLING BETA
7 GLOBIN GENE. SO BASICALLY IT'S A VERY SPECIFIC
8 DEFECT IN SICKLE CELL DISEASE PATIENTS THAT'S BEING
9 CORRECTED WITH A COMBINATION OF USING STEM CELLS,
10 HEMATOPOETIC STEM CELLS, AND GENE THERAPY.

11 SO HIS ACCOMPLISHMENTS ARE THAT HE HAS
12 SELECTED THE SINGLE THERAPEUTIC CANDIDATE, THAT
13 DISEASE MODIFYING ACTIVITY. HE'S DEMONSTRATED THIS
14 IN VITRO AND IN AN IN VIVO PRECLINICAL MODEL. HE
15 HAS HAD HIS PRE-IND MEETING WITH THE FDA, AND THEY
16 ARE PLANNING THEIR PRECLINICAL TOXICOLOGY STUDIES
17 NOW. HE HAS PRESENTED RESULTS OF ONGOING STUDY AT
18 THE DECEMBER MEETING OF THE AMERICAN SOCIETY OF
19 HEMATOLOGY ANNUAL MEETING IN SAN DIEGO JUST A FEW
20 MONTHS BACK.

21 THEIR STATUS IS THAT TEAM IS ABLE TO
22 DEMONSTRATE FEASIBILITY OF OBTAINING SUFFICIENT
23 NUMBERS OF THESE HEMATOPOETIC STEM CELLS. BY DUAL
24 BONE MARROW HARVESTING, THEN THERE WILL BE NO IMPACT
25 ON THE TIMELINES AND FINANCIALS. THE TEAM HAS

BARRISTERS' REPORTING SERVICE

1 ALREADY DONE, AS WE MENTIONED, THE PRECLINICAL PROOF
2 OF CONCEPT STUDIES WITH THE BONE MARROW DERIVED
3 CD34+ CELLS. AT THIS POINT IN TIME, HIS ACTIVITIES
4 ARE CONTINUING, AND THE TIMELINES AND FINANCIALS
5 HAVE NOT CHANGED.

6 DR. LANE IS WORKING ON A VERY RARE GENETIC
7 TUMOR. FOR THOSE OF YOU -- I GUESS MOST OF YOU
8 DIDN'T COME TO THE GRANTEE MEETING, BUT HE WAS
9 ACTUALLY ONE OF THE SPEAKERS ALONG WITH DR. WAGNER
10 ON THE DISEASE CONDITION CALLED DYSTROPHIC
11 EPIDERMOLYSIS BULLOSA. THIS IS A DEVASTATING
12 DISEASE THAT EVEN AT BIRTH INFANTS ARE BORN
13 BASICALLY WITH THEIR -- JUST THE TRAUMA OF BEING
14 BORN SLOUGHS THEIR SKIN. THEY HAVE A DEFECT IN TYPE
15 SEVEN COLLAGEN FORMATION.

16 AND SO THIS TEAM IS WORKING AT AUTOLOGOUS
17 IPS-DERIVED GENE CORRECTED KERATINOCYTES, AND THE
18 TEAM IS TARGETING TWO FORMS OF THIS PARTICULAR TYPE
19 OF DEVASTATING ILLNESS, THE RECESSIVE FORM AND THE
20 FORM. THE TEAM HAS ACTUALLY SUCCESSFULLY GENERATED
21 CELL LINES FROM PATIENTS WITH THE RECESSIVE FORM OF
22 THIS TYPE OF RARE DISEASE. THEY HAVE A LOT OF WORK
23 AHEAD OF THEM, BUT THEY ACTUALLY ARE MAKING
24 SIGNIFICANT PROGRESS. AND AT THIS POINT IN TIME,
25 THERE'S NO IMMEDIATE IMPACT ON THEIR TIMELINES OR ON

BARRISTERS' REPORTING SERVICE

1 THE FINANCIALS.

2 DR. ROBINS IS WORKING AS PART OF A
3 COMPANY, VIACYTE, ON TYPE 1 DIABETES. HERE THE
4 THERAPEUTIC CANDIDATE IS AN ALLOGENEIC SOURCE. IT'S
5 HUMAN EMBRYONIC CELL-DERIVED PANCREATIC PROGENITORS
6 THAT WOULD THEN MATURE ONCE IT'S IN THE BODY TO BETA
7 CELLS THAT SECRETE INSULIN IN RESPONSE TO GLUCOSE.
8 AND THIS WOULD BE DELIVERED IN A RETRIEVABLE IMMUNO
9 ISOLATION DEVICE THAT'S IMPLANTED UNDER THE SKIN.

10 THEIR KEY ACCOMPLISHMENT -- YOU KNOW, TYPE
11 1 DIABETES IS A DEVASTATING DISEASE. THERE
12 CERTAINLY ARE THERAPIES OUT THERE, INSULIN BEING THE
13 MAINSTAY OF TREATMENT. BUT THESE PATIENTS, ALTHOUGH
14 THEY LIVE AND THEY SURVIVE, THEY HAVE A MULTITUDE OF
15 COMPLICATIONS RELATED TO THEIR DISEASE, INCLUDING
16 MAJOR ORGAN FAILURE, INCLUDING KIDNEY
17 TRANSPLANTATION, VASCULAR PROBLEMS, THEY'RE PRONE TO
18 HAVING CARDIOVASCULAR ISSUES AND MYOCARDIAL
19 INFARCTIONS, AND PROBLEMS WITH BLOOD FLOW TO THEIR
20 LIMBS WHICH CAN RESULT IN AMPUTATIONS OF DIGITS AND
21 TOES AND LEGS. THERE'S DEFINITELY ROOM FOR
22 IMPROVEMENT IN THERAPEUTIC OPTIONS FOR THESE
23 PATIENTS.

24 THE KEY ACCOMPLISHMENTS IS THAT THEY'VE
25 LOOKED AT PROTOTYPES. THEY'VE TESTED THE PROTOTYPES

BARRISTERS' REPORTING SERVICE

1 IN PRECLINICAL MODELS. IN PRECLINICAL PROOF OF
2 CONCEPT STUDIES THIS CELL DEVICE COMBINATION CURED A
3 DRUG-INDUCED DIABETES. THEY'VE ESTABLISHED CELL
4 MANUFACTURING, DEVICE MANUFACTURING AT A SCALE AND
5 LEVEL OF QUALITY TO ENABLE PRECLINICAL AND CLINICAL
6 TEST OF THE COMBO PRODUCT. I'M PROBABLY NOT GOING
7 TO GO THROUGH ALL THE SPECIFICS HERE, BUT BASICALLY
8 THEY'RE DOING A LOT OF THE BANKING AND THE
9 MANUFACTURING THAT WILL PUT THEM IN A GOOD POSITION
10 WHEN THEY'RE READY TO GO INTO THE CLINIC. AND SO
11 THIS TAKES TIME TO DO ALL THE MANUFACTURING AND GET
12 THIS READY FOR THE CLINIC. AND SO THEY'RE WELL ON
13 THEIR WAY TO GETTING SOME OF THIS WORK DONE.

14 THEY'RE PREPARING FOR THEIR PIVOTAL
15 IND-ENABLING STUDIES, AND THEY'RE IN THE PROCESS OF
16 DEVELOPING THEIR CLINICAL PLAN FOR FIRST-IN-HUMAN
17 TESTING. THEY HAVE TWO INVENTION DISCLOSURES.

18 THEIR STATUS IS THAT THEY HAVE RECEIVED
19 SUPPLEMENTAL FUNDING FROM THE JUVENILE DIABETES
20 RESEARCH FOUNDATION. THEY ARE IN DISCUSSION WITH A
21 POTENTIAL PARTNER. AND THEIR TIMELINES ARE
22 PROCEEDING WELL, BUT CIRM MAY NEED TO CONSIDER
23 PROVIDING ADDITIONAL BRIDGING OR SOME TYPE OF
24 FUNDING TO SUPPORT ACTIVITIES NEEDED TO SUPPORT
25 THEIR IND FILING WITHIN THE FOUR-YEAR TIME FRAME.

BARRISTERS' REPORTING SERVICE

1 DR. LUBIN: HOW DOES THAT GET DECIDED?
2 JUST OUT OF CURIOSITY, THAT LAST POINT YOU MADE ON
3 THIS PROJECT. I HEARD THIS PRESENTATION AT THAT
4 MEETING WE WERE AT IN SAN DIEGO. LOOKED EXCITING.
5 SO YOU JUST RAISED THE QUESTION ABOUT CIRM WOULD
6 HAVE TO MAKE SOME DECISIONS. DO THEY WRITE TO YOU
7 ANOTHER APPLICATION? OR HOW DOES THIS GO ABOUT?

8 DR. FEIGAL: WELL, IT COULD BE POTENTIALLY
9 WE HAVE SOME INITIATIVES COMING UP WHERE THERE MIGHT
10 BE AN OPPORTUNITY FOR THEM TO APPLY FOR ADDITIONAL
11 FUNDING. SO IT WOULD BE SOME SORT OF A COMPETITIVE
12 REVIEW.

13 IF IT'S WITHIN THE SCOPE, IF IT WAS
14 POTENTIALLY SOMETHING THAT WAS EXTENDED, WE ALSO DO
15 HAVE SOMETHING CALLED BRIDGING FUNDS. WE'D HAVE TO
16 THINK ABOUT WHETHER IT COULD BE ELIGIBLE FOR THAT
17 KIND OF FUNDING.

18 DR. STEINBERG'S TEAM IS WORKING ON STROKE.
19 HE'S WORKING ON AN ALLOGENEIC HUMAN EMBRYONIC STEM
20 CELL-DERIVED NEURAL STEM CELL LINE THAT'S
21 TRANSPLANTED RIGHT NOW ALONE, BUT HE'S ALSO LOOKING
22 AT IT IN COMBINATION WITH A MATRIX MATERIAL THAT
23 COULD BE INJECTED INTO THE INFARCTED AREA OF THE
24 BRAIN. AND HE'S ALSO CONSIDERING DOING THIS WITH
25 CONCOMITANT IMMUNOSUPPRESSION.

BARRISTERS' REPORTING SERVICE

1 HIS KEY ACCOMPLISHMENTS ARE THAT HE'S
2 UTILIZING A RESEARCH BANK OF CANDIDATE CELLS, SHOWN
3 FUNCTIONAL RECOVERY IN THREE PRECLINICAL MODELS OF
4 STROKE IN THREE INDEPENDENT LABS. HE'S CONTINUING
5 TO ESTABLISH, HE AND HIS TEAM, TO ESTABLISH CELL
6 MANUFACTURING AND TESTING PROCESSES TO ENABLE THE
7 PRECLINICAL AND CLINICAL TESTING. HE'S PRODUCED TWO
8 QUALIFICATION LOTS THAT CAN BE ELECTED FOR THE
9 MASTER CELL BANK AND THE WORKING CELL BANK. AND
10 THIS HAS BEEN BASED ON EXTENSIVE CHARACTERIZATION,
11 FUNCTION, AND SAFETY TESTING. HE HAS CONDUCTED
12 WHAT'S CALLED A PRE-PRE-IND MEETING WITH THE FDA.
13 THE CENTER FOR BIOLOGICS EVALUATION RESEARCH CALLED
14 CIBR AT THE FDA IS UNIQUE IN ALLOWING MORE THAN ONE
15 PRE-IND MEETING. SO HE'S TAKEN ADVANTAGE OF THAT
16 OPPORTUNITY TO HAVE A DISCUSSION WITH THE AGENCY.

17 ALTHOUGH INITIALLY HE WAS TRYING TO PURSUE
18 A CELL CANDIDATE THAT MIGHT BE COMBINED WITH
19 HYDROGEL, RIGHT NOW HE'S PURSUING THE LESS COMPLEX
20 MANUFACTURING PROCESS IN ORDER TO BRING THIS
21 CANDIDATE TO IND FILING AND FIRST-IN-HUMAN TESTING
22 EXPEDITIOUSLY. SEPARATELY HE'S EXPLORING THE USE OF
23 THE HYDROGEL AS PART OF A SEPARATE GRANT, A CIRM
24 TOOLS AND TECHNOLOGY AWARD, TO TRY AND OPTIMIZE THE
25 TECHNOLOGY.

BARRISTERS' REPORTING SERVICE

1 AT THIS POINT IN TIME, THERE'S NO IMPACT
2 TO THE ORIGINAL TIMELINES AND FINANCIALS.

3 DR. ZAIA IS WORKING ON HIV/AIDS. HE'S
4 WORKING ON AN ADENOVIRUS MODIFIED HEMATOPOETIC STEM
5 CELL THAT EXPRESSES A NUCLEASE THAT TARGETS CCR5.
6 YOU'VE HEARD THE STORY BEFORE, BUT BASICALLY IT'S
7 THE RECEPTOR FOR HIV. HE'S TRYING TO TARGET IT.

8 I SHOULD HAVE MENTIONED ALSO IN THE -- I
9 THINK I CAN MENTION THIS. I'LL TAKE THE RISK OF
10 DOING IT. WITH THE OTHER GRANT THEY'RE LOOKING AT
11 CCR5, BUT THEY WERE ALSO NOT JUST WORKING ON -- HE
12 WAS TRYING TO LOOK AT TWO DIFFERENT STRAINS THAT
13 MIGHT BE ABLE TO CORRECT AND INDUCE THEIR ENTRY.
14 ZAIA'S TEAM IS PRIMARILY LOOKING AT THE STRAIN OF
15 HIV THAT USES THE CCR5 RECEPTOR. HE'S TARGETING
16 THIS TO AIDS LEUKEMIA PATIENTS AS OPPOSED TO THE
17 OTHER. HE'S PRIMARILY LOOKING AT PATIENTS WHO
18 ALREADY HAVE A HEMATOLOGIC MALIGNANCY BECAUSE HE'S
19 PLANNING TO DO ABLATION OF THE PATIENT'S BONE
20 MARROW. AND CONVENTIONALLY THESE ARE THE TYPES OF
21 PATIENTS THAT ONE WOULD TAKE TO THAT TYPE OF MORE
22 AGGRESSIVE THERAPY.

23 SO ULTIMATELY THE METHOD COULD BE IMPROVED
24 USING NONABLATIVE HEMATOPOETIC STEM CELL
25 TRANSPLANTATION, AND THEN WOULD THEN EXPAND THE

BARRISTERS' REPORTING SERVICE

1 POPULATION OF AIDS PATIENTS THAT COULD POTENTIALLY
2 TAKE THIS TYPE OF THERAPY.

3 THEIR KEY ACCOMPLISHMENTS ARE THAT THEY
4 ARE OPTIMIZING METHODS FOR THE ADENOVIRAL VECTOR
5 MEDIATED TRANSDUCTIONS OF THE HEMATOPOETIC STEM
6 CELLS AND DISRUPTION OF THE CCR5 RECEPTOR. AND
7 THEY'RE OPTIMIZING METHODS FOR EXPRESSION OF THE
8 ZINC FINGER NUCLEASE TO TARGET CCR5. HE HAS
9 DEVELOPED A PRECLINICAL MODEL TO TEST THE STEM CELL
10 THERAPY FOR HIV. AND ACTUALLY I THINK THIS HAS BEEN
11 THE TOPIC OF SOME OF AMY ADAMS' BLOGS ABOUT PAULA
12 CANNON AND SOME OF THE OTHER INVESTIGATORS ABOUT
13 SOME OF THE WORK THAT'S HE'S BEEN DOING.

14 HE'S SHOWN THAT WHEN THE ALTERED
15 HEMATOPOETIC STEM CELLS ARE GIVEN TO THIS
16 PRECLINICAL MODEL THAT LACKED AN EFFECTIVE IMMUNE
17 SYSTEM, THESE CELLS ARE ABLE TO BE COLONIZED IN THE
18 BONE MARROW. THEY CREATE A NEW BLOOD SYSTEM WITHIN
19 THAT HOST BODY WITH MUTATED CCR5, AND THEN THEY
20 EXPOSE THIS PRECLINICAL MODEL TO HIV, AND THEY ARE
21 ABLE TO BEAT BACK THE INFECTION.

22 THE STATUS OF THIS TEAM IS THAT THEY'RE
23 PROGRESSING TOWARDS THEIR IND-ENABLING STUDIES FOR
24 SCALE-UP CELL PROCESSING. AT THIS POINT IN TIME,
25 THERE'S NO IMPACT ON THE TIMELINES OR BUDGET. AND

BARRISTERS' REPORTING SERVICE

1 THEY HAVE A CLINICAL DEVELOPMENT ADVISORY MEETING
2 THAT'S PLANNED FOR THE END OF THIS YEAR.

3 I SHOULD MENTION THAT ALL OF THE TEAMS ARE
4 GOING TO HAVE ANOTHER CLINICAL DEVELOPMENT ADVISORY
5 MEETING THIS YEAR. SO THEY HAD THEIR FIRST MEETING
6 AT THEIR 12- TO 18-MONTH MILESTONE PERIOD, AND THEN
7 THEY'RE GOING TO HAVE -- WE'RE GOING TO GO THROUGH
8 ANOTHER SERIES OF ADVISORY MEETINGS WITH THEM TO
9 KEEP TRACK OF THEIR PROGRESS.

10 THIS IS JUST A SLIDE, A PIE CHART, SHOWING
11 THE DIFFERENT DISEASE AREAS. YOU CAN SEE THE LEGEND
12 AT THE BOTTOM. THE AMOUNT OF MONEY THAT CIRM HAS
13 INVESTED, 225 MILLION, THE AMOUNT OF MONEY IN
14 COMBINATION WITH THE COLLABORATIVE FUNDING PARTNERS
15 THAT'S BEEN INVESTED.

16 SO I THINK AT THIS POINT IN TIME, I HAVE A
17 LOT OF SLIDES THAT I THINK FOR PURPOSES OF TIME I
18 WON'T GO INTO THAT JUST SHOW THE CONTEXT OF THESE
19 DISEASE TEAMS IN THE BROADER CONTEXT OF OUR
20 TRANSLATIONAL PORTFOLIO. YOU WILL HAVE THESE
21 SLIDES, BUT I'M NOT SURE IF WE REALLY HAVE TIME TO
22 GO INTO IT RIGHT NOW.

23 MR. TORRES: WILL YOU SEND THEM TO US?

24 DR. FEIGAL: YOU WILL GET EVERYTHING. I
25 THINK AT THIS POINT, OPEN FOR ANY QUESTIONS. THE

BARRISTERS' REPORTING SERVICE

1 POINT WAS REALLY TO GIVE YOU HOPEFULLY A CONCISE
2 UPDATE. THE TEAMS ARE DEFINITELY MAKING PROGRESS.
3 THEY'RE BEING MONITORED QUITE CLOSELY. AND WHAT
4 WE'RE DOING IS TRYING TO PROVIDE EXPERTISE AND
5 ADVICE TO TRY AND HOPEFULLY POSITION THEM TO BE
6 SUCCESSFUL; OR IF THEY'RE NOT ON THE RIGHT
7 TRAJECTORY, TO AT LEAST NOT INVEST FURTHER DOLLARS
8 IN SOMETHING THAT REALLY DOESN'T HAVE THE POTENTIAL
9 OF BEING SUCCESSFUL.

10 CHAIRMAN THOMAS: ADDITIONAL COMMENTS?
11 I'M NOT SURE I HEARD ANYTHING THAT WARRANTS CLOSED
12 SESSION, JAMES.

13 MR. HARRISON: NOT AT THIS POINT. MEMBERS
14 HAVE QUESTIONS FOR PUBLIC SESSION, WE CAN ASK THEM
15 TO ASK THOSE QUESTIONS NOW. IF THAT REVEALS A CAUSE
16 FOR A CLOSED SESSION, WE CAN CONVENE IN CLOSED
17 SESSION AT THAT POINT IN TIME.

18 DR. HAWGOOD: I HAVE A GENERAL QUESTION,
19 BUT, JAMES, YOU'LL HAVE TO TELL ME WHETHER I'M
20 CONFLICTED. IF A GRANT IS WOUND DOWN AS THERE WAS
21 ONE IN THIS SESSION, IS THERE A WIND-DOWN PERIOD?

22 DR. FEIGAL: YES. THERE IS A WIND-DOWN
23 PERIOD. SO THEY HAVE ADVANCE DISCUSSIONS BECAUSE WE
24 CERTAINLY DON'T WANT THINGS TO FALL OFF A CLIFF. SO
25 WE DO TALK WITH THEM. WE TALK ABOUT WHAT'S

BARRISTERS' REPORTING SERVICE

1 REASONABLE. WE HAVE SOME BACK AND FORTH. WE DO
2 MAKE IT CLEAR WE'RE TERMINATING IT, BUT WE WANT TO
3 DO IT IN A REASONABLE WAY.

4 MS. SAMUELSON: THIS IS, I GUESS, A
5 COMMENT THAT IS PART OF A MUCH LONGER DISCUSSION I
6 DON'T THINK ANYBODY HAS THE ENERGY FOR RIGHT NOW.
7 I'M PRETTY SURE I DON'T. IT'S VERY IMPORTANT TO
8 PARKINSON'S AND NEURODEGENERATIVE DISEASE RESEARCH.
9 IT'S ON THE TABLE ALL THE TIME. THESE ARE VERY
10 COMPLEX DISORDERS AND WITH TERRIBLY DIFFICULT
11 THERAPEUTIC ENDS. AND IT MAY BE A BACK-AND-FORTH
12 CYCLING AROUND FROM PRECLINICAL TO CLINICAL TO BACK
13 TO BASIC RESEARCH EXPLORATIONS, AND THAT DOESN'T FIT
14 THE MODELS THAT WE HAVE. AND I'M THINKING THAT WE
15 SHOULD BE DOING SOMETHING ABOUT THAT NOW IN OUR
16 STRATEGIC PLANNING.

17 DR. FEIGAL: YEAH. WE'RE THINKING TOO.
18 LET'S JUST SAY HYPOTHETICALLY, NOBODY SPECIFICALLY.
19 ONE EXAMPLE YOU GAVE IS SOMEBODY'S NOT SUCCESSFULLY
20 GOING THROUGH. CAN WE SOMEHOW HAVE THEM DO A
21 REVISED PROPOSAL AND TELL US WHAT COULD THEY DO IN
22 TERMS OF THE AMOUNT OF TIME AND TIME FRAME, AND AS
23 LONG AS IT'S WITHIN SCOPE, HOW TO TAKE ACCOUNT OF
24 IT. IF SOMEBODY HAS ALREADY GOTTEN TO THE CLINIC
25 AND THEY'RE RUNNING INTO A CHALLENGE, FOR EXAMPLE,

BARRISTERS' REPORTING SERVICE

1 THEY'RE LACKING A CELL TRACKING, THEY INJECT THE
2 CELLS, BUT WHO KNOWS WHERE THEY'RE GOING? AND SO
3 THEY REALLY WOULD HAVE BENEFITED FROM SOME SORT OF A
4 NONINVASIVE IMAGING OR TRACKING TO ASSESS WHETHER OR
5 NOT THE CELLS ARE EVEN SURVIVING. MAYBE THE FACT
6 YOU'RE NOT SEEING TOXICITY IS THE CELLS HAVE DIED.
7 SO THERE'S NOTHING THERE TO CAUSE TOXICITY.

8 SO ONE MIGHT ENVISION IS THERE SOMETHING
9 THAT THEY'VE LEARNED FROM THAT THAT THEY CAN THEN
10 TAKE IT BACK. WE DO HAVE TOOLS AND TECHNOLOGY. I
11 THINK WE DO HAVE SOME THINGS THAT ARE AVAILABLE.
12 THEY'RE NOT SPECIFICALLY CALLED IF YOU FIND
13 SOMETHING IN THE CLINIC AND NEED TO COME BACK, BUT
14 WE MAY HAVE SOME -- THE ONE THAT COMES TO MIND THE
15 EASIEST IS TOOLS AND TECHNOLOGY THAT MIGHT APPLY TO
16 THAT.

17 BUT I AGREE WITH YOU. THERE'S THINGS THAT
18 YOU WON'T FIND OUT ARE PROBLEMS UNTIL YOU GET TO THE
19 CLINIC.

20 MS. SAMUELSON: AND THERE'S A LOT OF
21 EVIDENCE NOW THAT THERE ARE GOING TO BE PROBLEMS
22 THERE IN THESE COMPLEX DISORDERS THAT ARE AMONG OUR
23 KEY OBJECTIVES. AND GIVEN THAT, I THINK WE SHOULD
24 START WITH CHANGING THE RHETORIC. IT MAY NOT BE
25 SUCCESS TO HAVE A PRECLINICAL PROOF OF CONCEPT AND

BARRISTERS' REPORTING SERVICE

1 THEN BE TRACKING TOWARD A VERY LIMITED TIME FRAME TO
2 THE FDA WHEN THAT IS UNLIKELY TO BE ENOUGH. AND TO
3 DISCOURAGE OR PENALIZE A TEAM THAT REACHES THAT
4 POINT IS BLAMING THE WRONG PIECE, I THINK. IT'S THE
5 INTRACTABLE DISORDER THAT'S SO COMPLICATED AND IS
6 INDUCING FAILURE, AND THE FACT THAT THEY ARE
7 SLOGGING AWAY AT IT WITH THE STATE OF THE ART TRYING
8 TO GET SOMEWHERE IS TO BE REWARDED WITH MORE MONEY
9 SO THAT THEY CAN TAKE ANOTHER WHACK AT IT, GOING
10 BACK TO SOME BASIC RESEARCH TO TRY TO FIGURE OUT
11 WHAT THE OPTIONS MIGHT BE AND COMING UP WITH SOME
12 NEW HYPOTHESES. THAT'S GOOD.

13 DR. FEIGAL: I WAS A LITTLE BIT TOO
14 RESTRICTIVE. WE DO HAVE CONTINUING CYCLES OF BASIC
15 BIOLOGY.

16 MS. SAMUELSON: IT'S IN THE TRANSLATIONAL
17 CONTEXT. IT'S NOT JUST THIS OR THAT. IT'S NOT JUST
18 TOOLS AND TECHNOLOGY. THEY MIGHT NEED THIS KIND OF
19 IMAGING, BUT NOT TO THE EXCLUSION OF REMAINING
20 ENGAGED IN THE ENTIRE COMPLEX QUESTION. AND I THINK
21 WE NEED GRANT MODELS FOR THAT.

22 DR. FEIGAL: ALL I WAS SUGGESTING IS
23 ACTUALLY WE DO HAVE CONTINUING CYCLES OF NOT JUST
24 TOOLS AND TECHNOLOGY, BUT BASIC BIOLOGY FUNDAMENTAL,
25 TRYING TO UNDERSTAND WHAT WENT WRONG. WE DO HAVE

BARRISTERS' REPORTING SERVICE

1 RECURRING CYCLES OF TRYING TO LOOK AT THAT
2 THERAPEUTIC, TAKE ANOTHER WHACK AT TRYING TO FIND
3 WHAT COULD BE DONE DIFFERENTLY TO MAKE IT MORE
4 LIKELY TO BE BETTER NEXT TIME AROUND.

5 SO I THINK WE DO HAVE SOME THINGS THAT
6 MIGHT BE APPLICABLE FOR THAT. WHAT WE PROBABLY
7 DON'T HAVE IS -- BUT, ANYWAY, THOSE ARE SOME
8 THOUGHTS ABOUT HOW WE MIGHT BE ABLE TO TACKLE THAT.

9 IF YOU HAVE SUGGESTIONS ON OTHER WAYS OF
10 WHAT WE COULD DO, WE'RE VERY RECEPTIVE TO HEARING
11 ABOUT IT.

12 MS. SAMUELSON: I THINK ESSENTIALLY IT'S
13 REMAINING IN THE TRANSLATIONAL MODE WITH ENOUGH
14 FUNDING RESOURCES AND DIFFERENT FUNDING TOOLS TO
15 MEET THE COMPLEXITY. SO IT MIGHT BE SIMULTANEOUSLY
16 SOME IMAGING QUESTIONS THAT NEED AN IMAGING STUDY
17 AND HAVING A TRACK THAT'S PARALLEL TO THE
18 TRANSLATIONAL ONE OF THE ONGOING BASIC QUESTIONS
19 THAT GET RAISED WHEN THE PRECLINICAL MODELS IN MICE,
20 FOR EXAMPLE, ARE NOT PROVING OUT. AND, FOR EXAMPLE,
21 THERE'S THIS OTHER ENORMOUS QUESTION IN PARKINSON'S,
22 WE'RE NOT EVEN GETTING TO IT BECAUSE WE'RE NOT
23 GETTING THROUGH ALL THESE OTHER QUESTIONS, BUT THE
24 STATE-OF-THE-ART METHOD IN THE CLINICAL TRIAL IS A
25 DOUBLE BLIND SHAM SURGERY. AND THOSE ARE ALL

BARRISTERS' REPORTING SERVICE

1 FAILING. AND THERE'S BEGINNING TO BE A THOUGHT THAT
2 APPEARS, FROM WHAT I'M READING, THAT IT'S ABOUT THAT
3 MODEL, THAT DOUBLE BLIND, THE STATE OF THE -- YOU
4 KNOW, IT'S REGARDED AS THE HEIGHT OF THE DESIGN OF
5 THE TRIAL, BUT THERE'S SOMETHING GOING ON WITH IT
6 AND THE COMPLEXITY OF PARKINSON'S. IT SEEMS THAT IT
7 ISN'T HELPING GET OUT THE OTHER END TO SOMETHING
8 THAT PROVES TO BE EFFECTIVE.

9 DR. FEIGAL: MAYBE ONE THING WE COULD DO,
10 YOU'RE BEING INVITED TO THE SEPTEMBER 2012
11 PARKINSON'S DISEASE WORKSHOP WHERE WE --

12 MS. SAMUELSON: I DON'T JUST WANT TO COME.
13 I WANT TO BE INVOLVED IN THE DEVELOPMENT.

14 DR. FEIGAL: WE WOULD LOVE TO HAVE YOU BE
15 INVOLVED IN THE DEVELOPMENT, BUT MY POINT OF
16 BRINGING IT UP IS MAYBE -- I KNOW THAT'S SEVERAL
17 MONTHS AWAY; BUT SINCE WE ARE PLANNING THAT MEETING
18 RIGHT NOW, MAYBE THAT WOULD BE A GOOD TIME TO HAVE
19 INPUT INTO THAT.

20 MS. SAMUELSON: RIGHT. I THINK THERE'S
21 PROBABLY WIDER APPLICATION OF THESE QUESTIONS FOR
22 LOTS OF DISORDERS THAT WE'RE LOOKING AT. THANK YOU.

23 DR. JUELGAARD: ELLEN, SO IN THE PREREAD
24 IT WAS INDICATED THAT THESE EVALUATION WERE DONE
25 LAST YEAR; IS THAT RIGHT, OVER A PERIOD OF TIME?

BARRISTERS' REPORTING SERVICE

1 DR. FEIGAL: 2011, AND THEY'RE GOING TO BE
2 DONE IN 2012 ALSO.

3 DR. JUELSGAARD: THAT WAS MY QUESTION IS
4 WHEN IS THE NEXT EVALUATION?

5 DR. FEIGAL: THEY'LL START IN JULY OF THIS
6 YEAR AND GO THROUGH NOVEMBER.

7 DR. JUELSGAARD: GREAT. THANKS.

8 MR. TORRES: I WANTED TO GET A QUESTION
9 TO -- ARE WE DONE ON THIS?

10 DR. FEIGAL: THAT'S UP TO YOU.

11 MR. TORRES: ALL I WANT TO SAY IS GREAT,
12 GREAT WORK, BUT I WANTED TO ASK A QUESTION OF MATT
13 ON THE BUDGET. IS THAT ALL RIGHT?

14 CHAIRMAN THOMAS: BEFORE YOU DO THAT,
15 MR. SENATOR, I JUST WANT TO, ELLEN, THANK YOU. IT'S
16 DIFFICULT TO COMMENT ON HOW MUCH WORK WENT INTO
17 THIS. THIS IS BETWEEN AN AWFUL LOT OF PEOPLE OVER A
18 LONG PERIOD OF TIME.

19 DR. FEIGAL: I JUST WANT TO ONCE AGAIN
20 THANK THE SCIENCE OFFICERS FOR REALLY GATHERING THE
21 DATA. AND ACTUALLY THE TEAMS HAVE BEEN -- ALSO THE
22 INTERNAL TEAM HAS BEEN GREAT, BUT THE EXTERNAL
23 INVESTIGATORS HAVE BEEN EQUALLY VERY GOOD ABOUT
24 PROVIDING THAT BECAUSE ALTHOUGH YOU MIGHT THINK, OH,
25 NO, ANOTHER MEETING, BUT THEY ARE REALLY THIRSTY FOR

BARRISTERS' REPORTING SERVICE

1 ANYTHING THAT WILL HELP POSITION THEM BETTER FOR
2 SUCCESS. SO THEY HAVE ACTUALLY BEEN VERY, VERY
3 COLLEGIAL AND HELPFUL IN SUPPLYING INFORMATION THAT
4 WOULD BE HELPFUL.

5 CHAIRMAN THOMAS: THERE WERE MANY, MANY
6 PEOPLE WHO PUT AN AWFUL LOT OF TIME INTO THIS. AS
7 THIS IS EXACTLY WHAT WE'RE ALL ABOUT, AND TO HEAR
8 ALL THIS IS VERY INSTRUCTIVE. JUST THANK ALL THE
9 SCIENCE STAFF AND TO THANK THE PANEL MEMBERS AS WELL
10 ON BEHALF OF THE BOARD FOR VERY, VERY HELPFUL,
11 INSTRUCTIVE WORK.

12 MR. TORRES: I JUST WANT TO SAY THAT I WAS
13 PARTICULARLY TROUBLED BY SOME OF THE COMMENTS THAT
14 WERE MADE DURING OUR DISCUSSIONS OF THE BUDGET, AND
15 I WANTED A TIMELINE FOR MY OWN PURPOSES. WHEN IS
16 THE BUDGET TO BE APPROVED FORMALLY BY THIS BOARD?
17 IS IT IN JUNE?

18 DR. PLUNKETT: MAY 21ST, 22D MEETING. I
19 DON'T BELIEVE WE HAVE A MEETING IN JUNE.

20 MR. TORRES: SO WE HAVE TO MOVE DURING
21 THAT PERIOD OF TIME TO DISCUSS SOME OF THE ISSUES
22 THAT WERE RAISED TO GET A SENSE OF WHAT OUGHT TO BE
23 IN THE FINAL DOCUMENT, CORRECT?

24 DR. PLUNKETT: CORRECT.

25 MR. TORRES: THANK YOU, MR. CHAIRMAN.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: OKAY. WE'VE NOW REACHED
2 PUBLIC COMMENT ON THE AGENDA. DO WE HAVE ANY
3 COMMENT BY THE PUBLIC? HEARING NONE, I BELIEVE WE
4 HAVE REACHED THE END OF A LENGTHY, EXHAUSTIVE,
5 HIGHLY INFORMATIVE DAY. THANK EVERYBODY FOR THEIR
6 ATTENDANCE, PARTICIPATION, AND CONTINUED HIGH LEVEL
7 OF INTEREST. WE ARE NOW LOOKING FOR A MOTION TO
8 ADJOURN.

9 DR. PRICE: SO MOVED.

10 CHAIRMAN THOMAS: WE HAVE MOTIONS AND
11 SECONDS ALL OVER THE PLACE. WE'RE NOT EVEN GOING TO
12 BOTHER WITH A VOTE. WE STAND ADJOURNED, AND WE'LL
13 RECONVENE AT THE END OF MAY. THANK YOU VERY MUCH.

14 (THE MEETING WAS THEN CONCLUDED AT
15 04:44 P.M.)

16
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BARRISTERS' REPORTING SERVICE

REPORTER'S CERTIFICATE

I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE PROCEEDINGS BEFORE THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD AT THE LOCATION INDICATED BELOW

SACRAMENTO CONVENTION CENTER
1400 J STREET, SUITE 204
SACRAMENTO, CALIFORNIA
ON
APRIL 21, 2012

WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY ME. I ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.

BETH C. DRAIN, CSR 7152
BARRISTER'S REPORTING SERVICE
1072 BRISTOL STREET
SUITE 100
COSTA MESA, CALIFORNIA
(714) 444-4100