

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: SHERATON GATEWAY SFO
600 AIRPORT BOULEVARD
BURLINGAME, CALIFORNIA

DATE: JUNE 26, 2008
5: 30 P. M.

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

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BARRISTERS' REPORTING SERVICE

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BARRISTERS' REPORTING SERVICE

BARRISTERS' REPORTING SERVICE

1 SAN FRANCISCO, CALIFORNIA; THURSDAY, JUNE 26, 2008

2 5:30 P.M.

3
4 CHAIRMAN KLEIN: ALL RIGHT. IF WE CAN
5 CALL THE MEETING TO ORDER. THANK YOU ALL FOR YOUR
6 PATIENCE. SO, MELISSA KING, WOULD YOU PLEASE LEAD
7 US IN THE PLEDGE OF ALLEGIANCE.

8 (THE PLEDGE OF ALLEGIANCE.)

9 CHAIRMAN KLEIN: MELISSA, IF YOU'D PLEASE
10 LEAD US THROUGH THE ROLL CALL.

11 MS. KING: DONALD DAFOE FOR RICARDO AZZIZ.

12 DR. DAFOE: HERE.

13 MS. KING: ROBERT PRICE FOR ROBERT
14 BIRGENEAU.

15 DR. PRICE: HERE.

16 MS. KING: FLOYD BLOOM. DAVID BRENNER.
17 SUSAN BRYANT.

18 DR. BRYANT: HERE.

19 MS. KING: MARSHA CHANDLER. MARCY FEIT.

20 MS. FEIT: HERE.

21 MS. KING: MICHAEL FRIEDMAN. LEEZA
22 GIBBONS.

23 MS. GIBBONS: HERE.

24 MS. KING: MICHAEL GOLDBERG. SAM HAWGOOD.

25 DR. HAWGOOD: HERE.

BARRISTERS' REPORTING SERVICE

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MS. KING: BOB KLEIN.
CHAIRMAN KLEIN: HERE.
MS. KING: SHERRY LANSING.
MS. LANSING: HERE.
MS. KING: LEONARD ROME FOR GERALD LEVEY.
DR. ROME: HERE.
MS. KING: TED LOVE.
DR. LOVE: HERE.
MS. KING: TINA NOVA. ED PENHOET. PHIL
PIZZO. CLAIRE POMEROY.
DR. POMEROY: HERE.
MS. KING: FRANCISCO PRIETO.
DR. PRIETO: HERE.
MS. KING: JOHN REED. DUANE ROTH.
MR. ROTH: HERE.
MS. KING: JOAN SAMUELSON.
MS. SAMUELSON: HERE.
MS. KING: DAVID SERRANO-SEWELL. JEFF
SHEEHY.
MR. SHEEHY: HERE.
MS. KING: JON SHESTACK. OSWALD STEWARD.
DR. STEWARD: HERE.
CHAIRMAN KLEIN: ALL RIGHT. MY
UNDERSTANDING IS WE'RE A LITTLE BOARD LIGHT AT THE
MOMENT, AND WE WILL CONTINUE WITH ITEMS THAT DON'T

BARRISTERS' REPORTING SERVICE

1 NECESSARILY REQUIRE A QUORUM SO THAT WE CAN MOVE
2 THIS AGENDA FORWARD.

3 ON THE CHAIRMAN'S REPORT, WE WILL GO
4 THROUGH SOME OF THIS MATERIAL TOMORROW. MY
5 UNDERSTANDING, DR. TROUNSON, IS YOU'RE GOING TO DO
6 YOUR PRESIDENT'S REPORT IN THE FULL SESSION TOMORROW
7 MORNING; IS THAT CORRECT, OR ARE YOU GOING TO GIVE
8 IT TONIGHT?

9 MS. KING: TOMORROW. AND NANCY WILL BE
10 TOMORROW HERE TO GIVE HER PRESENTATION, AND MARIE
11 WILL GIVE HER PRESENTATION TOMORROW.

12 CHAIRMAN KLEIN: OKAY. SO IT SOUNDS LIKE
13 WE'RE HAVING -- BEFORE WE DO OUR FINAL VOTES ON THE
14 AWARDS, WHICH WILL BE TOMORROW MORNING, THAT WE'RE
15 HAVING THE FULL RANGE OF SCIENTIFIC PRESENTATIONS IF
16 THAT IS ACCEPTABLE TO THE PRESIDENT, BUT ANY PORTION
17 OF YOUR REPORT THAT YOU'D LIKE TO HIGHLIGHT TONIGHT
18 FOLLOWING MY REPORT PLEASE DO SO. AND WE'LL BE
19 ENRICHED BY REPETITION AND LEARN SOMETHING.

20 DR. TROUNSON: YOU KNOW, HOWEVER YOU WANT
21 TO RUN IT, CHAIRMAN. YOU KNOW, IF IT SUITS, BECAUSE
22 WE DON'T HAVE A QUORUM, I'M HAPPY TO DO -- YOU KNOW,
23 TO DO SOME WHICH WOULD ACCOMMODATE THE TIME.

24 CHAIRMAN KLEIN: ALL RIGHT. AND I'D LIKE
25 TO MAKE SURE THAT IN BEGINNING THE SESSION, WE THANK

BARRISTERS' REPORTING SERVICE

1 JENNIFER PRYNE AND MELISSA KING FOR THE
2 EXTRAORDINARY WORK THEY ALWAYS DO IN BRINGING THESE
3 MEETINGS TOGETHER AND VICTORIA WHO'S HELPING THEM.

4 (APPLAUSE.)

5 CHAIRMAN KLEIN: I'D LIKE TO START TODAY,
6 IF WE CAN, BY FOCUSING ON THIS BLACKBERRY THAT UC
7 DAVIS HAS LOANED ME FOR THE MOMENT. IT HAS A
8 PICTURE OF A \$20 MILLION CHECK ON IT. NOW, THE
9 PERSON WHO GAVE ME THIS BLACKBERRY SAYS SHE'S NEVER
10 HAD A \$20 MILLION CHECK. BUT WHAT'S IMPORTANT HERE
11 TO EMPHASIZE IS THAT WE HAVE A TREMENDOUS TEAM
12 THAT'S WORKED TOGETHER TO GET THIS FUNDING OUT.
13 RICK KELLER ISN'T HERE. AMY LEWIS IS HERE. AMY,
14 COULD YOU STAND UP, PLEASE, FOR A SECOND? AMY
15 LEWIS.

16 (APPLAUSE.)

17 CHAIRMAN KLEIN: OUR COUNSEL, BOTH OUR
18 BOARD COUNSEL, JAMES HARRISON, AND OUR IN-HOUSE
19 COUNSEL, TAMAR PACHTER, WORKED VERY HARD ON GETTING
20 THESE OUT. WE HAVE -- IS MARGARET HERE? WHY DON'T
21 WE HAVE ALL THE PEOPLE WHO CONTRIBUTED TO THIS
22 EFFORT TO STAND AT ONCE, PLEASE.

23 (APPLAUSE.)

24 CHAIRMAN KLEIN: LYNN, NOW, YOU'RE GOING
25 TO HAVE TO STAND ALONE. LYNN HARWELL, YOU KNOW,

BARRISTERS' REPORTING SERVICE

1 WHETHER IT WAS A SUNDAY AT 7 O' CLOCK AT NIGHT OR A
2 MONDAY AT 7 O' CLOCK AT NIGHT, I CAN NEVER TELL THE
3 DAYS OF THE WEEK BY HER CALLS BECAUSE SHE' S ALWAYS
4 WORKING ON MAKING SURE THIS PROGRAM GOT DONE.

5 BUT IT IS PHENOMENAL AS WELL, AND WE NEED
6 TO PAY SPECIAL ATTENTION TO THE FACT THAT THE
7 CONTROLLER' S OFFICE, JOHN CHIANG AND HIS STAFF,
8 REALLY WERE TEAM MEMBERS IN THIS. THEY WORKED WITH
9 US AND PREAGREED ON THE STEPS WE NEEDED TO GO TO.
10 THEY WORKED WITH MARGARET ON OUR STAFF AND AGREED
11 THAT THE DAY AFTER THEY GOT THE FINAL DOCUMENTS, THE
12 WARRANTS WOULD ACTUALLY BE ISSUED AND IN THE MAIL.
13 THAT' S SHOWING THE GOVERNMENT' S PERFORMANCE AT ITS
14 VERY BEST.

15 WHEN BEFORE IN YOUR LIFE HISTORY HAS THE
16 GOVERNMENT EVER SAID THE NEXT DAY I WILL PUT THE
17 CHECK IN THE MAIL AND THEY REALLY MEANT IT? SO WE
18 REALLY ARE VERY THANKFUL TO THE CONTROLLER AND HIS
19 STAFF, UNDERSTANDING HOW CRITICAL THESE MEDICAL
20 RESEARCH FACILITIES ARE FOR PARKINSON' S, DIABETES,
21 HEART DISEASE. NAME THE DISEASE AND SOMEONE IS
22 SUFFERING EVERY DAY. THESE RESEARCH FACILITIES WILL
23 HELP MOVE THOSE THERAPIES FORWARD AND HOLD A GREAT
24 PROMISE FOR REDUCING THAT SUFFERING. SO WE' RE VERY
25 THANKFUL TO THE CONTROLLER, AND WE' LL SEND HE AND

BARRISTERS' REPORTING SERVICE

1 HIS STAFF A VERY SPECIAL NOTE OF THANKS IN THE TEAM
2 EFFORT THAT GOT \$195 MILLION OF CHECKS OUT, NOT ON
3 TIME, BUT AHEAD OF TIME IN A GREAT EXHIBIT OF HOW
4 GOVERNMENT SHOULD WORK AT ITS BEST AND A GREAT
5 EXHIBIT OF TEAMWORK ON OUR STAFF AND THEIRS.

6 I'D ALSO THEMATICALLY LIKE TO TOUCH ON THE
7 FACT THAT WE'RE CELEBRATING ANOTHER FIRST FOR THIS
8 AGENCY BECAUSE WITH DR. TROUNSON'S LEADERSHIP, WE'RE
9 ABLE TO ENTER INTO TWO DIFFERENT MEMORANDA OF
10 UNDERSTANDING FIRST WITH THE STATE OF VICTORIA IN
11 AUSTRALIA. STATE OF VICTORIA HAS THE DISTINCTION OF
12 CONTROLLING ABOUT 50 PERCENT OF THE BIOMEDICAL
13 RESEARCH IN AUSTRALIA JUST AS WE CONTROL ABOUT 50
14 PERCENT OF THE BIOMEDICAL RESEARCH IN THE UNITED
15 STATES. AND WITH THE COUNTRY OF CANADA ON CANCER
16 STEM CELL RESEARCH.

17 WHAT'S CRITICAL HERE THEMATICALLY, AND
18 WE'VE REPEATED THIS MANY TIMES, BUT WE'RE NOW
19 IMPLEMENTING IT IN A MANIFEST TANGIBLE WAY, IS THAT
20 WE'RE NOT IN COMPETITION AGAINST OTHER STATES AND
21 OTHER NATIONS. WE ARE IN A WAR AGAINST CHRONIC
22 DISEASE AND INJURY. IT IS VITAL THAT WE LEVERAGE
23 INTELLECTUAL ASSETS OF THIS STATE BY EMPOWERING
24 OTHER NATIONS TO COLLABORATE WITH OUR BEST
25 SCIENTISTS AND HAVE THOSE NATIONS PAY THE COST OF

BARRISTERS' REPORTING SERVICE

1 THAT COLLABORATION SO WHEN ONE OF THE RESEARCH TEAMS
2 IN CALIFORNIA WANTS TO REACH OUT TO THE BEST OF
3 OTHER COUNTRIES TO BRING THEM INTO A DISEASE TEAM OR
4 A TRANSLATIONAL GRANT, THAT THOSE FUNDS ARE COVERED.
5 CANADA PUT UP \$100 MILLION TO THAT END. AND THEY
6 HAVE FUNDING FROM FOUR DIFFERENT INSTITUTIONS IN
7 CANADA TO MEET THAT OBJECTIVE.

8 SO CREATING INTELLECTUAL LEVERAGE BY
9 HAVING OUR SCIENTISTS BEING ABLE TO REACH OUT AND
10 KNOW THAT THEIR COLLABORATORS WILL BE FUNDED IN
11 THESE OTHER COUNTRIES IS TREMENDOUS.

12 DR. TROUNSON WILL SPEAK TO THIS ISSUE IN
13 GREATER DETAIL, BUT IT IS TREMENDOUS THAT WE HAVE
14 BEEN ABLE TO IMPLEMENT MEMORANDA OF UNDERSTANDING.
15 THE BOARD NEEDS TO UNDERSTAND THAT ANY FUNDING THAT
16 WE PARTICIPATE IN WILL GO THROUGH OUR NORMAL PEER
17 REVIEW PROCESS AND WILL COME TO THIS BOARD FOR
18 APPROVAL, AND THE SYSTEM IS DESIGNED NOT TO SLOW THE
19 SYSTEM DOWN, NOT TO CHANGE THE TIMING, BUT MERELY
20 PROVIDE COLLABORATIVE FUNDING.

21 AFTER IMPORTING THE GREAT INDIVIDUALS LIKE
22 DR. BIRGENEAU FROM BERKELEY, DR. TROUNSON FROM
23 AUSTRALIA, DR. PERA AT USC, IT'S IMPORTANT THAT, IN
24 ADDITION TO THE GREAT INTERNATIONAL RESOURCES AT
25 WORK IN CALIFORNIA, THAT WE REACH OUT AND

BARRISTERS' REPORTING SERVICE

1 COLLABORATE AGGRESSIVELY. AND CERTAINLY DR.
2 TROUNSON IS LEADING THAT TREMENDOUS EFFORT.

3 I WOULD SAY THAT WE HAVE ANOTHER VERY
4 IMPORTANT RESPONSIBILITY TO HONOR, AND THAT IS A
5 RESPONSIBILITY TO THE SCIENTISTS IN OTHER STATES WHO
6 HAVE SELFLESSLY GIVEN THEIR TIME TO OUR PEER REVIEW
7 SYSTEM. MARIE CSETE IN A RECENT MEMO NOTED THAT
8 THOSE SCIENTISTS, MANY OF THEM, THEY'RE SO DESPERATE
9 FOR FUNDING AT THIS POINT, THEY HAVE TO SPEND SO
10 MUCH OF THEIR TIME ON FUNDING IN THEIR STATES GIVEN
11 THE SCARCITY OF FUNDING, THEY JUST CAN'T GET THE
12 TIME TO BE AVAILABLE TO CONTINUE TO PARTICIPATE IN
13 OUR PEER REVIEW, SO WE ARE RECRUITING NEW
14 PARTICIPANTS FOR OUR PEER REVIEW.

15 IT IS VITAL THAT WITH THE NEW
16 ADMINISTRATION IN PLACE NEXT YEAR THAT WE PLAY A
17 LEADERSHIP ROLE WITH CONGRESS AND NIH IN TRYING TO
18 RAISE NIH FUNDING GENERALLY AND SPECIFICALLY WITH
19 STEM CELL FUNDING. FROM A PATIENT VIEWPOINT TO
20 HAVE -- FROM A PATIENT ADVOCATE VIEWPOINT, TO HAVE
21 50 PERCENT OF THE NATION'S CAPACITY WITHOUT ADEQUATE
22 FUNDING IS JUST NOT AN ACCEPTABLE ALTERNATIVE, AND
23 THERE'S TREMENDOUS TALENT IN THESE OTHER STATES THAT
24 CAN ALSO COMPLEMENT THE TALENT IN THIS STATE IN
25 DISEASE TEAMS AND TRANSLATIONAL EFFORTS THAT WE HAVE

BARRISTERS' REPORTING SERVICE

1 THE BEST TEAMS KNITTED TOGETHER FROM ALL OVER THIS
2 COUNTRY DEDICATED TO ADVANCING MEDICAL RESEARCH.

3 BUT WE HOPE THAT AS OUR REVIEWERS SEE US
4 HONOR OUR COMMITMENT TO FUNDING FOR THE WHOLE
5 COUNTRY, FOR NIH, AND FOR STEM CELL RESEARCH, THEY
6 WILL BE ABLE TO CONTINUE TO SERVE ON PEER REVIEW
7 PANELS, WHICH IS SUCH A CRITICAL COMPONENT OF
8 GETTING TO THE BEST SCIENCE. AND GETTING TO THE
9 BEST SCIENCE WITH ALL OF THOSE MEMBERS BEING FROM
10 OUT-OF-STATE, SO WE GET AN OBJECTIVE, CLEAR READING,
11 AT LEAST TO THE BEST OF OUR ABILITY ON THE QUALITY
12 OF SCIENCE, THE CONTRIBUTIONS TO MEDICAL ADVANCES,
13 AND IT'S IMPORTANCE IN OUR PORTFOLIO.

14 WITH THOSE COMMENTS TODAY, I'M GOING TO GO
15 FORWARD TO THE NEXT AGENDA ITEM AND ASK IF THE
16 PRESIDENT WANTS TO MAKE ANY COMMENTS TODAY,
17 ALTHOUGH, AGAIN, THEY WILL BE HIGHLIGHTED TOMORROW
18 IN FULL.

19 DR. TROUNSON: THANK YOU VERY MUCH, MR.
20 CHAIRMAN. DOESN'T SEEM LONG AGO THAT WE ALL WERE
21 ALL TOGETHER, BUT A LOT OF THINGS HAVE HAPPENED IN
22 THAT VERY SHORT TIME. AND I WANT TO THANK YOU
23 PARTICULARLY -- I WANT TO THANK YOU PARTICULARLY,
24 MR. CHAIRMAN, FOR ALL YOUR HELP. ALSO THE VICE
25 CHAIRMAN, WHO REALLY DOES INPUT INTO SOME OF OUR

BARRISTERS' REPORTING SERVICE

1 ACTIVITIES VERY IMPORTANTLY, AND OTHER MEMBERS OF
2 THE BOARD WHO WE INTERACT WITH FROM TIME TO TIME.
3 IT IS WITH THIS INTEGRATED EFFORT, I THINK, THAT
4 WE'RE ABLE TO MAKE THE KIND OF PACE THAT WE'RE
5 CURRENTLY ON.

6 SO AS USUAL, IF I MAY START WITH SOME
7 SCIENCE ISSUES, THIS IS REALLY ABOUT SCIENCE. AND I
8 THINK THAT'S WHAT YOU SHOULD BE REALLY PROUD OF.
9 THERE ARE SEVEN OF THE WONDERFUL INSTITUTES, MANY OF
10 WHICH THE PLACES THAT I'VE BEEN THERE'S HOLES IN THE
11 GROUND OR HOLES ABOUT TO APPEAR IN THE GROUND AS THE
12 BUILDINGS GET UNDER WAY. AND THESE ARE FABULOUS
13 INSTITUTES, FABULOUS BUILDINGS. THEY LOOK TERRIFIC.
14 I MEAN IF I WAS A YOUNG SCIENTIST, I'D BE IN ONE OF
15 THOSE, THAT'S FOR SURE. MAYBE IN TWO OR THREE. BUT
16 IT'S -- I'D LOVE TO BE IN THOSE PLACES, AND THEY'RE
17 JUST MAGNIFICENT. IN THIS FORM THEY LOOK TERRIFIC,
18 BUT, YOU KNOW, IT'S GOING TO BE BETTER WHEN IT
19 HAPPENS WITHIN THE NEXT TWO YEARS.

20 SO LOOKING AT BRINGING YOU FOUR PAPERS IN
21 THIS AREA OF NEW DEVELOPMENTS IN STEM CELLS, AND I
22 THINK THEY ARE COMPLEX IN THE NATURE OF THE WORK
23 HERE, BUT I WANT TO TRY AND DESCRIBE THE SORT OF
24 FEELING THAT WE HAVE AS MANY OF US READ INTO THESE
25 JOURNALS. THIS IS A PAPER IN *NATURE*, JUNE, THIS

BARRISTERS' REPORTING SERVICE

1 MONTH, FROM ALEX MEISSNER AND RUDY JAENISCH'S LABS
2 AT THE MIT AND WHITEHEAD AND HARVARD AND M. A.
3 GENERAL HOSPITAL.

4 AND IT'S QUESTIONING WHAT IS THIS WORD
5 "PLURIPOTENTIALITY"? WHAT DOES IT MEAN? YOU HEAR
6 THIS WORD, AND WHAT DOES IT ACTUALLY MEAN? WHAT IS
7 THE KEY TO IT?

8 WELL, THEY'VE STARTED TO LOOK IN SOME
9 DETAIL ABOUT WHAT IS PLURIPOTENTIALITY, AND THEY CAN
10 SEE THAT YOU TAKE A CELL, A SKIN CELL, AN ADULT
11 CELL, WHAT YOU'VE GOT TO REALLY DO IS REACTIVATE
12 WHAT WE CALL THE PLURIPOTENTIALITY RELATED TO IT.
13 SO THESE ARE THE GENES THAT ARE CURRENTLY ON WHEN
14 CELLS HAVE THE ABILITY TO MAKE EVERYTHING ELSE IN
15 THE BODY. SO YOU'VE GOT TO TURN THOSE ON; AND TO DO
16 THAT, YOU'VE GOT TO OPEN THE CHROMATIN.

17 NOW, THE CHROMATIN IS THE MATERIAL THAT
18 HOUSES THE GENES AND THE CHROMOSOMES. THAT'S GOT TO
19 BE UNWOUND AND OPENED BECAUSE THESE FACTORS THAT
20 TURN ON ARE CALLED TRANSCRIPTION FACTORS, AND
21 THEY'RE FACTORS THAT GOVERN THE EXPRESSION OF OTHER
22 PARTICULAR GENES. SO IT IS -- THEY'VE STARTED TO
23 LOOK AT THESE PROCESSES.

24 THERE'S A SET OF GENE PRODUCTS CALLED
25 POLYCOMB, AND THESE POLYCOMB-MEDIATED GENES ACTUALLY

BARRISTERS' REPORTING SERVICE

1 REPRESS, THEY PUSH DOWN THE GENES THAT ARE TURNING
2 CELLS TO BE SKIN CELLS OR LIVER CELLS OR WHATEVER
3 CELLS. THEY TURN THOSE GENES DOWN AND OPEN THE
4 CHROMATIN, ALLOW THE ABILITY OF THE GENE TO GO BACK
5 TO THE ZERO POINT.

6 SO IT IS A RARE EVENT. IT'S CERTAINLY NOT
7 A COMMON EVENT FOR THIS TO HAPPEN. BUT WHAT THEY
8 FOUND IS THAT IF YOU UNDERSTAND THIS PROCESS BETTER,
9 AND THEN YOU ACTUALLY USE DNA DEMETHYLATION; THAT
10 IS, THE METHYLATION GROUPS ARE SOME OF THE GROUPS
11 THAT ALSO GOVERN THE EXPRESSION OF GENES, AND YOU
12 USE RNA INHIBITORS, THAT YOU CAN GET A MUCH MORE
13 EFFECTIVE REPROGRAMMING. SO THEY'RE UNDERSTANDING
14 THE MOLECULAR LEVEL.

15 ONCE YOU START TO UNDERSTAND THE MOLECULAR
16 LEVEL OF WHAT IS PLURIPOTENTIALITY, WE'LL BE ABLE TO
17 DO THIS WITHOUT THE USE OF COMPLEX VIRAL COMPONENTS
18 AND GENES. AND SO THIS IS, IN FACT, A VERY BASIC,
19 VERY IMPORTANT PAPER.

20 THE NEXT ONE, LIKEWISE, IS ABOUT
21 PLURIPOTENTIALITY. IT WAS PUBLISHED BY CHEN AND
22 COLLEAGUES WHO ARE FROM SINGAPORE IN THE JOURNAL
23 *CELL*. WHAT THEY FOUND IS INTERESTING IS IN A
24 STRUCTURED SENSE THAT THESE TRANSCRIPTION FACTORS
25 THAT REALLY CLEAVE TO THE WHOLE PROCESS ACTUALLY ARE

BARRISTERS' REPORTING SERVICE

1 CLUSTERED IN TWO AREAS. THERE'S A VERY DEFINED
2 CLUSTERING. THE ONE CLUSTER, WHICH CONTAINS THE
3 SORT OF GOLD STANDARD GENES THAT PEOPLE ALL
4 RECOGNIZE, ARE CLUSTERED IN ONE PLACE, AND THEN
5 THERE'S A SMALLER CLUSTER IN ANOTHER PLACE. AND IT
6 MEANS THESE GENES ARE PLAYING GAMES WITH ONE ANOTHER
7 BECAUSE THEY'RE TRANSCRIPTION FACTORS THAT HAVE AN
8 INFLUENCE ON THE SAME KIND OF STATE. AND IT MAKES
9 GOOD SENSE NOW TO SEE THAT THEY'RE ACTUALLY IN THE
10 SAME PLACE.

11 SO, AGAIN, FOR TRYING TO KEEP THE OTHER
12 GENES THAT YOU MIGHT WANT TO INFLUENCE TO GET A
13 BETTER OUTCOME, YOU CHOOSE THE GENES IN THOSE KIND
14 OF CLUSTERS, YOU'RE LIKELY TO GET A BETTER OUTCOME.
15 SO THIS IS, AGAIN, A VERY IMPORTANT PIECE OF WORK.

16 AND I WANTED TO ADD IN ADDITION, BECAUSE
17 I'M NOT SURE WE'VE SPOKEN ABOUT THIS, BUT IN
18 ADDITION, DOUG MELTON AT HARVARD GAVE A VERY
19 INTERESTING PAPER AT THE RECENT INTERNATIONAL STEM
20 CELL SOCIETY MEETING. AND HE SHOWED THAT IF YOU
21 TOOK PANCREATIC EXOCRINE CELLS, THESE ARE THE CELLS
22 THAT -- THEY DON'T ACTUALLY PRODUCE INSULIN, BUT
23 THEY PRODUCE THE DIGESTIVE ENZYMES THAT ARE PRESENT
24 IN THE PANCREAS. BUT HE CAN MAKE THEM TURN INTO
25 INSULIN PRODUCING CELLS BY USING ANOTHER SET OF

BARRISTERS' REPORTING SERVICE

1 TRANSCRIPTION FACTORS.

2 SO HE CHOSE A PANEL OF TRANSCRIPTION
3 FACTORS FROM THE PANELS THAT HE THOUGHT WERE
4 IMPORTANT, AND HE GOT PART OF THEM BACK INTO A TYPE
5 WHICH ACTUALLY COULD LEAD TO PRODUCE INSULIN.

6 THIS, I THINK, IS PART OF THIS WHOLE
7 PROCESS HERE THAT WE MAY BE ABLE TO TURN CELLS BACK
8 JUST PART THE WAY AND GET AN OUTCOME WHICH IS REALLY
9 IMPORTANT BECAUSE, YOU SEE, PATIENTS OFTEN HAVE
10 EXOCRINE CELLS IN THEIR PANCREAS, BUT THEY HAVE NO
11 INSULIN PRODUCING CELLS. AND IF YOU CAN CREATE THEM
12 FROM THE ENZYMATICALLY PRODUCING CELLS, YOU MAY
13 CREATE, AGAIN, AN EFFECTIVE PANCREAS WHICH IS
14 PRODUCING INSULIN, AND MAYBE YOU CAN GET THE
15 SOLUTION TO DIABETES.

16 SO, AGAIN, ALL OF THESE PAPERS ARE MOVING
17 INTO THIS REALLY INTERESTING AREA. I THINK THERE'S
18 A GROWING INTEREST IN THESE IDEAS, CELLS, AND HOW
19 YOU CAN PARTIALLY DIRECT SOME OF THE CELLS BACK, BUT
20 ALSO THE FULL RETURN OF THE CELLS INTO WHAT'S CALLED
21 AN EMBRYONIC STATE IN ORDER TO MAKE THE SYSTEMS A
22 LOT BETTER BY USING SMALL MOLECULES IN THE FUTURE.
23 SO THESE ARE REALLY, REALLY IMPORTANT PAPERS.

24 AND THE LAST ONE, I THINK, THAT I BRING TO
25 YOU, THE THIRD ONE, I THINK THIS IS AN INTERESTING

BARRISTERS' REPORTING SERVICE

1 ONE. I THINK FOR PEOPLE WHO ARE INTERESTED IN
2 REMYELINATING OR DEMYELINATING DISEASES, THIS IS A
3 GROUP, WINDREM, ET AL. PUBLISHED IN *CELL STEM CELL*,
4 AGAIN IN JUNE. ALL THESE PAPERS WERE PUBLISHED THIS
5 MONTH. STEVE GOLDMAN'S LAB AT THE UNIVERSITY OF
6 ROCHESTER, HE SHOWED THAT IF YOU USED A PROGENITOR
7 CELL FROM THE BRAINS OF FETUS, HUMAN FETUSES, THESE
8 PROGENITOR CELLS ARE PROGENITOR FOR GLIAL CELLS.
9 GLIAL CELLS ARE EITHER ASTROCYTES, WHICH ARE VERY
10 POPULOUS IN THE BRAIN, OR OLIGODENDROCYTES. THE
11 OLIGODENDROCYTES ARE THE ONES WHICH REMYELINATE OR
12 MYELINATE NEURONS.

13 AND MANY USES IN WHAT WE CALL A SHIVERER
14 MOUSE WHERE YOU GET HYPOMYELINATION, THAT IS A LOSS
15 OF MYELIN SHEATHS, AND HE WAS ABLE TO GET -- THAT
16 REPORT WAS ABLE TO GET REMYELINATION AND CORRECTION
17 OF THE SHIVERER CONDITION. NORMALLY THESE MICE DIE
18 VERY EARLY AND PREDICTABLY, AND ALL OF THE ONES THAT
19 WERE GIVEN THESE HUMAN CELLS REMAINED REASONABLY
20 HEALTHY. THEY CAME OUT OF THEIR SHIVERER CONDITION.
21 AND THEN THEY LOOK IN THERE, THERE'S A LOT OF
22 REMYELINATION HAS GONE ON IN THE BRAINS OF THESE
23 MICE.

24 NOW, THIS HAS A PARTICULAR IMPORTANCE FOR
25 AN X-LINKED GENETIC DISEASE OF HYPO-PMD. UNLESS

BARRISTERS' REPORTING SERVICE

1 YOU' RE GERMAN, YOU HAVE A LOT OF TROUBLE PRONOUNCING
2 THE NAME OF THAT DI SEASE. BUT IT' S AN X-LINKED
3 MI SEXPRESSION DI SEASE WHICH IS PRESENT IN YOUNG
4 CHI LDREN, AND IT' S LETHAL. AND THE IDEA THAT YOU
5 COULD ACTUALLY CORRECT THIS DI SEASE WITH PROGENITORS
6 OF THE GLIAL LINEAGE IS REALLY IMPORTANT. AND ALSO
7 IS IMPORTANT TO THE POINT OF VIEW THAT WE CAN MAKE
8 THEM FROM EMBRYONIC STEM CELLS.

9 AND SO RATHER THAN USING FETAL MATERIAL,
10 HOPEFULLY WE' LL BE ABLE TO USE EMBRYONIC
11 CELL-DERIVED MATERIAL. AND SO I THINK IT' S ANOTHER
12 STEP ALONG THE WAY IN SOME OF THESE REALLY DIFFICULT
13 DEMYELINATING, REMYELINATING DI SEASES.

14 THE LAST ONE I WANT TO TALK TO YOU IS
15 BECAUSE I DID SPEND A LITTLE BIT OF TIME WITH THE
16 GOVERNOR. AND I' M ALSO GETTING OLDER, AND IT' S ALSO
17 GETTING MORE DIFFICULT. I SPEND A LOT OF TIME IN
18 THE GYM TO MAKE VERY LITTLE MUSCLE. IN THE OLD DAYS
19 WHEN I WAS PLAYING RUGBY, I HARDLY SPENT ANY TIME IN
20 THE GYM, AND I USED TO MAKE REASONABLE AMOUNTS OF
21 MUSCLE.

22 WELL, I ALWAYS THOUGHT IT WAS THE STEM
23 CELLS THAT WERE RUNNING OUT IN THE MUSCLE. BUT THIS
24 STUDY IS A REALLY INTERESTING STUDY THAT' S FROM ONE
25 OF OUR FUNDED OR TWO OF OUR FUNDED SCIENTI STS,

BARRISTERS' REPORTING SERVICE

1 CIRM-FUNDED SCIENTISTS, AT BERKELEY. SO THIS IS A
2 GREAT STUDY PUBLISHED IN *NATURE* AND ADVANCED ONLINE
3 THIS MONTH. A GOOD THING FOR JUNE. GREAT WORK.

4 WHAT THEY SHOWED WAS THE STEM CELLS IN
5 MUSCLE ARE CALLED SATELLITE CELLS. THERE'S MORE
6 NUMBERS OF THESE SATELLITE CELLS PRESENT IN MUSCLE.
7 AND THE VIEW REALLY WAS THAT AS WE GET OLDER, WE RUN
8 OUT OF THOSE SATELLITE CELLS, AND WE CAN'T MAKE MORE
9 MUSCLE. WELL, WHAT THEY'VE SHOWN IS NOT THAT. WHAT
10 ACTUALLY MAKES MORE MUSCLE, WHAT GETS THOSE
11 SATELLITE CELLS TO MAKE MORE MUSCLE IS A GENE CALLED
12 NOTCH.

13 NOTCH ACTUALLY GETS THE SATELLITE CELLS TO
14 MULTIPLY TO RESULT IN MUSCLE. BUT THERE'S ANOTHER
15 SET. THIS IS LIKE A TIPPING BALANCE IN THE MUSCLE.
16 THERE'S ANOTHER SET OF GENES WHICH ARE CONTROLLED BY
17 TGF β AND PARTICULARLY DOWNSTREAM OF TGF β ARE A
18 GENE CALLED PSMAD3 WHICH COMPETE FOR THE SAME AS THE
19 NOTCH, THE SAME RECEPTOR. SO IF YOU'VE GOT LOTS OF
20 NOTCH, YOU'RE GOING TO MAKE MUSCLE. IF YOU'VE GOT
21 LOTS OF TGF β , YOU'RE NOT BECAUSE IT'S GOT IT
22 TURNED OFF. IT'S AN OFF-AND-ON SWITCH, AND IT'S
23 QUITE A COMPLEX SWITCH, BUT IT'S A ROCKER SWITCH, IF
24 YOU LIKE.

25 WHAT HAPPENS IS WHEN WE GET OLDER, WE LOSE

BARRISTERS' REPORTING SERVICE

1 NOTCH. WE DON'T MAKE AS MUCH NOTCH, AND WE'RE
2 MAKING MORE TGF β . SO IT'S JUST WE CAN'T TURN ON
3 THE ROCKER SWITCH. WE JUST CAN'T TURN IT ON. AND
4 IF THIS IS THE CASE, IF THIS IS REALLY THE CASE, AND
5 WE CAN SHOW THIS OVER AND OVER AGAIN WITH OTHER
6 LABORATORIES, IT MAY BE VERY IMPORTANT FOR US TO BE
7 ABLE TO MAKE MORE MUSCLE IN A WHOLE LOT OF MUSCLE
8 WASTING DISEASES. THESE ARE THE DYSTROPHIC
9 DISEASES, ALZHEIMER'S AND PARKINSON'S DISEASES,
10 CANCER, AND IN MY CASE AGING.

11 SO IT'S REALLY -- THIS IS REALLY A GOOD
12 PAPER. AND IF I HAD TIME, I WOULD HAVE TALKED TO
13 THE GOVERNOR ABOUT THIS BECAUSE I THINK HE WOULD BE
14 ALSO INTERESTED IN THIS PAPER. BUT, YOU KNOW, I
15 THINK IN REAL ESSENCE IT IS AN IMPORTANT
16 CONTRIBUTION TO THE FIELD FROM THE BERKELEY GROUP
17 THAT DID THAT.

18 CHAIRMAN KLEIN: ALAN, HOW DOES THAT
19 ACTIVATION OF NOTCH OR LOSS OF YOUR NOTCH VITALITY
20 AFFECT ALZHEIMER'S?

21 DR. TROUNSON: IN ALZHEIMER'S DISEASE,
22 IT'S A MUSCLE WASTING DISEASE AGAIN, AND PEOPLE
23 DON'T KNOW REALLY WHY IT'S HAPPENING, BUT IT MAY BE
24 THAT NOTCH IS -- THAT ROCKER SWITCH IS INVOLVED IN
25 ALZHEIMER'S AND PARKINSON'S. IT'S OFTEN THOUGHT

BARRISTERS' REPORTING SERVICE

1 BECAUSE YOU HAVE -- YOU REDUCE YOUR ACTIVITY BECAUSE
2 IT'S MORE DIFFICULT TO MOVE AROUND AND EXERCISE,
3 THAT YOU LOSE IT FROM THAT REASON. BUT IT MAY WELL
4 BE THAT THE ROCKER SWITCH IS DEFECTIVE IN THAT
5 CONDITION. IF IT IS, CLEARLY IF WE CAN DRIVE NOTCH
6 UP, WE MAY HAVE -- MAY BE ABLE TO MAKE MUSCLE, AT
7 LEAST MORE MUSCLE IN SOME OF THOSE CONDITIONS, SO
8 IT'S IMPORTANT.

9 WELL, I'VE HAD A LOT OF PRIORITIES, AND I
10 JUST WANTED TO QUICKLY JUST TELL YOU WHAT THEY WERE.
11 THE NO. 1 PRIORITY THAT I'VE HAD IN THE TIME I'VE
12 BEEN HERE AND I'VE BEEN WORKING REALLY HARD ON IS TO
13 REALLY GET STAFF MORALE RIGHT AT THE TOP LEVEL AND
14 GET THE DEDICATION TO THE SAME MISSION. SO WE'VE
15 BEEN WORKING ON THE STRUCTURE AND GETTING OPEN
16 DISCUSSIONS ABOUT THE WAY WE'RE COMPOSED AND THE
17 KIND OF STAFF STRUCTURE AS WE MOVE FORWARD. AND I
18 THINK THAT'S RESULTED IN INCREDIBLY HIGH MORALE.
19 WE'RE ACTUALLY ALL WORKING TOGETHER. WE'RE ALL
20 POINTED IN THE SAME DIRECTION.

21 I THINK IT'S JUST A BREAKTHROUGH FOR
22 PEOPLE, BUT IT TAKES QUITE A LOT OF EFFORT TO DO
23 THAT. YOU'VE REALLY GOT TO MAKE SURE THAT PEOPLE,
24 YOU KNOW, WHERE THEY'RE UNSATISFIED, MAKE SURE THAT
25 THOSE KIND OF PROCESSES, THOSE CONDITIONS ARE

BARRISTERS' REPORTING SERVICE

1 ADDRESSED. AND SO I WOULD SAY AT THE MOMENT WE'VE
2 GOT THE HIGHEST MORALE IN ANY ORGANIZATION THAT I'VE
3 EVER BEEN IN. I THINK THAT'S JUST WONDERFUL, AND
4 IT'S REALLY BECAUSE THE STAFF REALLY HAVE ADOPTED
5 THE SAME PRINCIPLE OF GETTING THE PRIMARY MISSION
6 OUT.

7 WE WORKED ON THE 2008-9 BUDGET. WE'LL
8 PRESENT THAT TO YOU. WE'RE ON TARGET FOR THE
9 REVISION OF THE CIRM STRATEGIC PLAN. IT'S A YEAR
10 AND A HALF OLD. CURRENTLY WE'RE IN THE STAGE OF
11 ASKING DIFFERENT PEOPLE IN THE ORGANIZATION TO DRAFT
12 DIFFERENT SILOS. WE'RE GOING TO BRING IT TOGETHER.
13 WE'RE GOING TO TALK TO STAKEHOLDERS IN EACH OF THE
14 SECTIONS AND THEN BRING IT TO YOU FOR DISCUSSION AND
15 YOUR INPUTS INTO THAT STRATEGIC PLAN.

16 WE LOOKED AT STAFF POSITION AND
17 DESCRIPTIONS. WE'VE BEEN THROUGH NEARLY EVERY ONE
18 OF OUR STAFF. I THINK WE'VE GOT EVERYBODY IN A
19 REASONABLY HANDY POSITION, THAT THEY'RE DOING THE
20 THINGS THAT THEY'RE REALLY GOOD AT, AND THEY WILL BE
21 APPRAISED ON THEIR CAPACITY TO DO THOSE JOBS. I
22 THINK THEY'RE VERY MUCH IN LINE NOW WITH WHAT THE
23 STAFF DO AND WHAT THEY'RE REALLY GOOD AT.

24 WE'VE INTRODUCED A PROGRAM FOR COMPLIANCE
25 INTERNALLY, AND WE'VE STARTED TO LOOK AT COMPLIANCE

BARRISTERS' REPORTING SERVICE

1 OUT IN OUR GRANTEE ORGANIZATION. THERE'S TWO OF THE
2 MEMBERS OF THE CIRM TEAM ARE OUT NOW WORKING WITH
3 OTHER ORGANIZATIONS TO SEE THAT ALL OF THE
4 AGREEMENTS AND REGULATIONS THAT WE IMPOSE WE EXPECT
5 ARE ALL BEING DONE. I HAVE TO SAY THAT I UNDERSTAND
6 THE FIRST ONE, OF COURSE, WAS THE WONDERFUL
7 STANFORD. THE UNIVERSITY, AS USUAL, PASSED WITH
8 FLYING COLORS AT EVERY CORNER.

9 BUT I THINK THIS IS A PROCESS WHERE WE
10 WOULD LIKE TO LEARN. IF THERE ARE DIFFICULTIES IN
11 OUR REGULATIONS OR INTERACTIONS, CAN WE SORT OF COME
12 BACK AND MAKE ADJUSTMENTS TO HELP EVERYBODY, YOU
13 KNOW, GO THE SAME WAY.

14 WE LOOK AT INTERNATIONAL, NATIONAL
15 LINKAGES, AND I'LL TALK TO YOU ABOUT THAT A LITTLE
16 LATER.

17 LOOKING AT CIRM GRANTEE PRODUCTIVITY, BOTH
18 PUBLICATIONS AND PRESENTATIONS, THERE WAS A VERY
19 LARGE CONTINGENT OF CALIFORNIA PRESENTATIONS AT THE
20 RECENT INTERNATIONAL SOCIETY OF STEM CELL RESEARCH.
21 DON GIBBONS IS BUILDING A PORTFOLIO OF FANTASTIC
22 PAPERS THAT ARE COMING OUT OF THE INSTITUTIONS, AND
23 WE'RE GETTING SOME RECOGNITION NOW ON PRIMARY
24 PRESENTATIONS BY SOME OF THE PEOPLE WHO ARE
25 PERFORMING REALLY, REALLY WELL. SO I THINK

BARRISTERS' REPORTING SERVICE

1 PRODUCTIVITY IS TERRIFIC IN THE SHORT TIMEFRAME THAT
2 THIS AGENCY HAS BEEN GOING.

3 WE'RE LOOKING AT EDUCATION AND STEM CELL
4 LEADERSHIP. AGAIN, WE'RE WORKING WITH DON TO MAKE
5 SURE THAT WE GET A WHOLE NEW ROUND OF EDUCATION
6 PROGRAMS, AND THAT WE RECOGNIZE THE LEADERSHIP THAT
7 WE'RE INVOLVED WITH BY APPEARING IN UNITED STATES
8 AND WORLDWIDE.

9 WE'RE LINKING WITH BIOTECH AND PHARMA
10 INDUSTRIES. THERE HAVE BEEN LOTS OF MEETINGS WITH
11 THOSE PEOPLE. WE SEE THEM AS BEING IMPORTANT
12 PARTNERS IN DELIVERY OF -- THE NECESSARY DELIVERY OF
13 OUR MISSION. AND WE HAD A GREAT MEETING AT BIO. AS
14 BOB SAID, THERE WERE A LOT OF MEETINGS AND OTHER
15 DISCUSSIONS WITH THE BIOTECH INDUSTRY AND PHARMA
16 INDUSTRY THERE. VERY MUCH MOVING ALONGSIDE OF US.

17 WE'RE RESPONDING TO THE NEEDS EXPRESSED BY
18 STAKEHOLDERS. WE'RE OUT THERE LISTENING. WE'RE AT
19 CONFERENCES. WE'RE GOING TO THE UNIVERSITIES.
20 WE'RE OUT AMONGST THE BIOTECH INDUSTRY. WE'RE
21 LISTENING TO WHAT THEIR CONCERNS ARE, BRINGING THEM
22 BACK IN-HOUSE, AND SEEING WHERE WE CAN ACTUALLY MAKE
23 ADJUSTMENTS TO ACCOMMODATE WHAT THEIR NEEDS ARE.
24 WE'RE IMPLEMENTING GRANTUM, WHICH IS A GRANTS
25 MANAGEMENT SYSTEM WHICH WILL TAKE A LOT OF LOAD OFF

BARRISTERS' REPORTING SERVICE

1 OUR INDIVIDUAL PEOPLE.

2 SO THESE ARE SOME OF THE REAL PRIORITIES
3 THAT I'VE BEEN DEALING WITH LATELY THE LAST MONTH OR
4 SO, LAST TWO MONTHS. AND THEY'RE ALL ACTUALLY
5 WORKING REALLY WELL.

6 I WOULD LIKE TO BRING YOUR ATTENTION TO
7 THE POSSIBILITY THAT WE CAN HAVE A STEM CELL
8 AWARENESS DAY ON SEPTEMBER 14 OR 15. NOW, THIS WAS
9 RAISED BY THE PREMIER OF VICTORIA TOGETHER WITH THE
10 LEADERS OF THE INSTITUTE THAT I WAS INVOLVED WITH
11 THERE. THEY'RE HAVING THIS STEM CELL AWARENESS DAY,
12 AND THE GOVERNOR WAS VERY, VERY SUPPORTIVE OF
13 SOMETHING LIKE THIS. AND I THINK HIS INSTRUCTION TO
14 THE CHAIRMAN WAS TO GET ON WITH IT OR ACTUALLY
15 EXPECTED THINGS TO BE DONE IN THIS AREA.

16 I THINK IT'S A GREAT IDEA. AND WHETHER WE
17 TWIN WITH VICTORIA AND START TO PICK UP OTHERS AS WE
18 GO YEAR BY YEAR, I THINK IT'S A GREAT IDEA. AND
19 IT'S ONE WAY WE CAN ACTUALLY GET OUR PATIENT
20 ADVOCATES INTO A PRIMARY POSITION, IN MY VIEW, TO
21 PICK UP THE AWARENESS THAT IS MAINLY LACKING IN SOME
22 OF OUR AREAS. SO I'D LIKE TO PROPOSE THAT, AND I
23 HOPE THE ICOC WOULD BE SUPPORTIVE OF THAT. DON
24 GIBBONS, HE'S SUPPORTING IT. OBVIOUSLY THERE'S A
25 LOT OF WORK INVOLVED IN THAT, AND I THINK A LOT OF

BARRISTERS' REPORTING SERVICE

1 WORK IS NECESSARY WITH PATIENT ADVOCATES TO SEE WHAT
2 WE CAN ACTUALLY DO IN THIS.

3 WE'VE GOT -- I THINK THERE ARE TWO
4 PERSONNEL. I THINK MARGARET FITZGERALD HAS ALSO
5 BEEN INTRODUCED. MARGARET FERGUSON. SORRY. SHE'S
6 OUR FINANCE MANAGER, AND SHE'LL BE PRESENTING THE
7 BUDGET TO YOU, I GUESS, TOMORROW.

8 AMY ADAMS IS HERE. SHE'S A COMMUNICATION
9 MANAGER JUST APPOINTED FROM STANFORD.

10 DR. PIZZO: SHE HAS A ONE-YEAR-OLD
11 PRIORITY. SHE HAS A ONE-YEAR-OLD PRIORITY.

12 CHAIRMAN KLEIN: SHE HAD A CHILD WHO'S ONE
13 YEAR OLD.

14 DR. TROUNSON: WE'D UNDERSTAND THAT,
15 WOULDN'T WE. SO TAKING ANOTHER GOOD PERSON FROM
16 STANFORD. SHE'S TERRIFIC, AND SO SHE'LL BE ENGAGED
17 WITH YOU BECAUSE SHE'S A COMMUNICATION MANAGER.
18 SHE'S GOING TO BE WRITING SOME OF THE KEY MATERIAL,
19 SO YOU WILL GET TO KNOW HER.

20 SCIENCE PROGRAM FUNDING COMMITMENT, JUST
21 TO GIVE YOU A HEADS UP ON THIS, IT'S IMPORTANT FOR
22 YOU TO KNOW WHAT WE HAVE IN OUR MIND. WE'VE ALREADY
23 AGREED TO NEW FACULTY II; THAT IS, WE, THE ROYAL WE,
24 THE ICOC; TOOLS AND TECHNOLOGIES OF 20 MILLION;
25 TRAINING II PROGRAM, 48 MILLION; BRIDGES,

BARRISTERS' REPORTING SERVICE

1 INTERNSHIPS FOR THE YOUNG PEOPLE COMING FROM THE
2 STATE UNIVERSITIES OF CALIFORNIA AND LIKE
3 INSTITUTIONS, 18 MILLION; WE'RE GOING TO PRESENT TO
4 YOU A TRANSLATIONAL PROGRAM, SO WE'RE MOVING THE
5 PIPELINE DOWN. YOU REMEMBER THE PIPELINE THAT I
6 TALKED ABOUT. THE PIPELINE WAS CLEARLY TRANSLATION.
7 A CONCEPT WILL BE PRESENTED TO YOU AT THIS MEETING.
8 AND THE DISEASE TEAMS AND OTHERS, THESE ARE THE CORE
9 PROGRAMS, AND I HOPE YOU WILL AGREE THAT DISEASE
10 TEAMS WILL BECOME PRETTY MUCH THE ICOC AND CIRM CORE
11 BECAUSE I JUST THINK IT'S VERY OBVIOUSLY THAT IT IS,
12 AND IT'S GOING TO BE A BIG PROGRAM. AND WE HOPE TO
13 PRESENT THAT TO YOU OVER THE NEXT FEW MONTHS.

14 SO THERE'S \$340 MILLION. SO THAT'S QUITE
15 AN AMOUNT OF MONEY TO BE GETTING OUT INTO THE
16 RESEARCH COMMUNITY IN THIS NEXT 12 MONTHS.

17 THE GRANT REVIEWS THAT HAVE JUST BEEN
18 COMPLETED, THE CIRM NEW FACULTY AWARDS II HAS BEEN
19 COMPLETED. THEY WILL BE UP FOR ICOC REVIEW AUGUST
20 12TH AND 13TH.

21 TOOLS AND TECHNOLOGIES, A VERY INTERESTING
22 PROGRAM WHERE WE ASKED FOR THE COMMUNITY HERE IN
23 CALIFORNIA TO GIVE US A RESPONSE TO THE NEED FOR NEW
24 TOOLS. YOU KNOW, THESE ARE TOOLS THAT WILL ACTUALLY
25 MOVE OUR PROGRAMS ALONG THE TRANSLATIONAL PIPELINE.

BARRISTERS' REPORTING SERVICE

1 THEY ARE THINGS LIKE FILTERS TO GET RID OF THE
2 UNWANTED CELLS. THEY'RE MARKERS TO TELL US WHICH
3 CELLS ARE WHAT, AND PANELS OF MARKERS NEEDED. WE
4 NEED EXPRESSION. WE NEED REPORTER GENES AND
5 PARTICULAR GENES SO THAT WHEN THEY COME ON, THEY
6 LIGHT UP.

7 WE NEED THOSE KIND OF TECHNOLOGIES. A
8 WHOLE RAFT OF THEM. A 140 LETTERS OF INTENT. SO
9 IT'S A BIG PROGRAM. THERE ARE 90 FROM THE
10 NOT-FOR-PROFIT ORGANIZATIONS, SO THERE WAS NO
11 SLACKING AMONGST OUR ACADEMIC COLLEAGUES, THAT'S FOR
12 SURE. BUT YOU WILL NOTICE THERE ARE 50 FROM THE
13 BIOTECH INDUSTRY. AND SO HERE I THINK IT'S
14 IMPORTANT -- AN IMPORTANT PROGRAM, AND IT'S GOING TO
15 COST US DEARLY WITH OUR REVIEWERS, I'M AFRAID.
16 WE'RE GOING TO HAVE TO HAVE A DOUBLE PROGRAM OF
17 REVIEW, AND IT IS A BIT OF A STRESS POINT BECAUSE
18 IT'S PRETTY LARGE. THE REVIEWERS WILL BE LOOKING IN
19 DETAIL IN 30 OR 40 GRANT APPLICATIONS. THAT'S A
20 HUGE DEMAND ON ANYONE'S TIME AND EFFORT TO DO THAT.

21 MS. SAMUELSON: CAN YOU EXPLAIN WHAT THAT
22 MEANS?

23 DR. TROUNSON: SORRY?

24 MS. SAMUELSON: WHAT THAT MEANS, DOUBLE
25 PROGRAM REVIEW.

BARRISTERS' REPORTING SERVICE

1 DR. TROUNSON: OH, WE' LL HAVE TO TAKE
2 TWICE THE AMOUNT OF TIME THAT WE WOULD DO FOR A
3 SINGLE PROGRAM BECAUSE WE NORMALLY LOOK AT,
4 HOPEFULLY, 60 TO 70 AT ANY ONE TIME. THAT WOULD BE
5 THE KIND OF PROGRAM THAT WOULD TEND TO STRETCH US AT
6 EACH ONE OF OUR REVIEWS.

7 MS. SAMUELSON: IT' S ABOUT THE QUANTITY.

8 DR. TROUNSON: YEAH. IT' S ABOUT THE
9 QUANTITY. AND, OF COURSE, THERE WILL BE A VARIANCE
10 THERE, AND IT WILL BE TOUGH GOING FOR OUR REVIEWERS.
11 WE RECOGNIZE THAT, BUT I LOVE DOING IT, BUT IT' S ONE
12 OF THOSE TIMES WHERE WE WOULDN' T WANT TO DO THAT A
13 LOT. IT HURTS TO HAVE TO DO 40 REVIEWS, 40 GRANT
14 APPLI CATIONS.

15 UPCOMING RFA' S, WE' RE GETTING OUT TO THE
16 TRAINING GRANTS II FOR THE CIRM SCHOLARS. THESE
17 RFA' S ARE IN DRAFT OR NEARLY FINISHED. BRIDGES TO
18 STEM CELL RESEARCH, THAT' S THE INTERNSHIP PROGRAM
19 FOR THE STATE UNIVERSITIES AND LIKE INSTITUTIONS.
20 AND THE TRANSLATIONAL RESEARCH, WE' LL BE SEEKING
21 CONCEPT CLEARANCE HERE AT THIS MEETING FOR THAT.

22 PROPOSED WORKSHOPS, WE' VE GOT A BUSY SET
23 OF PROGRAMS HERE. THERE' S A VERY INTERESTING ONE ON
24 PREDI CTIVE TOXI COLOGY ON JULY 7 AND 8, AND I BRING
25 IT TO YOUR ATTENTION. YOU SHOULD TELL US IF YOU

BARRISTERS' REPORTING SERVICE

1 WOULD LIKE TO BE INVOLVED BECAUSE WE MAKE IT REALLY
2 BY INVITATION, BUT SOME PEOPLE MAY BE VERY
3 INTERESTED IN THIS.

4 THE TOXICOLOGY IS REALLY USING THE CELL
5 LINES, LIKE LIVER CELL AND HEART CELL, FOR
6 ENVIRONMENTAL SCREENING. USUALLY THEY USE VERY
7 LARGE NUMBERS OF RATS AND MICE FOR THESE STUDIES.
8 WE THINK THAT THE CELL LINES, THE HUMAN CELL LINES
9 THAT ARE THERE NOW AND THEY'RE STABLE AND THEY'RE
10 EFFECTIVE AT LEAST APPEAR TO BE FUNCTIONING
11 EFFECTIVE IN CULTURE AND IN TRANSPLANTATION STUDIES,
12 SO COULD BE USED FOR PREDICTING TOXICOLOGY, BUT ALSO
13 IN DRUG SCREENING. AND IF WE CAN DO THAT, WE WOULD
14 ACTUALLY REDUCE THE COST OF DRUG SCREENING QUITE
15 SUBSTANTIALLY. BUT WE'D ALSO REDUCE THE DEMAND ON
16 USING ANIMALS, AND I THINK BOTH OF THOSE THINGS
17 WOULD BE VERY STRONG QUALITIES.

18 SO WE'VE GOT A LOT OF INPUT IN THAT
19 PROGRAM FROM BIOTECH AND PHARMA, AS YOU'D EXPECT, AND
20 THEN FROM OUR INSTITUTIONS. SO IT'S GOING TO BE A
21 REALLY WOW WORKSHOP.

22 CANCER STEM CELLS IS A SMALLER WORKSHOP,
23 BUT I THOUGHT IT WAS IMPORTANT TO GET TOGETHER THE
24 THOUGHT LEADERS IN CANCER IN CALIFORNIA BECAUSE THE
25 PROPOSAL TO WORK IN COLLABORATION WITH THE CANADIANS

BARRISTERS' REPORTING SERVICE

1 DESERVES TO HAVE ALL THE THOUGHT LEADERS COME AND
2 HAVE THEIR INPUT BECAUSE I'D LIKE THEIR SUPPORT IN
3 MOVING FORWARD ON INTEGRATING WITH CANADA. AND I
4 THINK IT'S APPROPRIATE TO ACTUALLY HAVE A DISCUSSION
5 WITH THE THOUGHT LEADERS IN CANCER BECAUSE THEY'RE
6 NOT ALL ABSOLUTELY WITH IT IN CANCER STEM CELLS, AND
7 SO I THINK THEY NEED TO BE ABLE TO HAVE THEIR SAY
8 AND BE ABLE TO RESPOND.

9 MS. LANSING: I JUST WANTED TO SECOND HOW
10 IMPORTANT I THINK THAT IS BECAUSE THEY KNOW VAGUELY
11 ABOUT THE PROPOSAL FOR CANADA. AND, YOU KNOW, THERE
12 NEEDS TO BE FURTHER CLARIFICATION THAT IT'S ACTUALLY
13 NOT TAKING AWAY ANY OF OUR MONEY. AND, YOU KNOW,
14 YOU JUST HERE ABOUT IT. MY INITIAL REACTION WAS I
15 WAS CONFUSED BY IT. SO NOW THAT I UNDERSTAND IT,
16 I'M COMPLETELY SUPPORTIVE OF IT, BUT I THINK GETTING
17 THE CANCER COMMUNITY BEHIND YOU IS VERY IMPORTANT.

18 DR. TROUNSON: YEAH. I THINK THAT'S
19 TERRIFIC. WE'LL BE MEETING IN LOS ANGELES, SO,
20 AGAIN, IF ANYONE REALLY WANTED TO ATTEND IT, THEY'LL
21 LET US KNOW.

22 THE OTHERS THAT WE'VE GOT ARE STILL TO BE
23 DETERMINED EXACTLY WHEN THEY ARE. THE IMMUNOLOGY
24 TOOLS, WE VERY STRONGLY BELIEVE THAT IMMUNOLOGY HAS
25 GOT TO BE EMBRACED IN OUR PORTFOLIO. AND WE NEED

BARRISTERS' REPORTING SERVICE

1 DISCUSSIONS IN A WORKSHOP WITH THE WHOLE CALIFORNIA
2 INDUSTRY TO DO THAT.

3 WE'VE GOT A COUPLE OF SESSIONS ON IP
4 POLICY BECAUSE WE'RE GETTING FEEDBACK FROM OUR
5 BIOTECH FRIENDS THAT THEY DON'T REALLY UNDERSTAND IT
6 TOO WELL, AND THAT'S GOING TO BE RUN BY THE DEPUTY
7 CHAIRMAN AND NANCY KOCH. THERE WILL BE TWO, ONE IN
8 SAN FRANCISCO AND ONE IN SAN DIEGO. I THINK THIS IS
9 AN IMPORTANT SORT OF MEETINGS WITH THE INDUSTRY TO
10 SORT OF GLEAN THEIR RESPONSE AND HAVE SOME OF THESE
11 THINGS SORTED OUT A LITTLE BIT.

12 I THINK SOMETIMES THE VIEW THAT OUR
13 INTELLECTUAL PROPERTY REQUIREMENTS ARE ONEROUS TENDS
14 TO GO AWAY WHEN IT'S TALKED OUT. AND AGAIN, MR.
15 CHAIRMAN, I HOPE LEGISLATION DOESN'T SORT OF MAKE
16 THIS MORE DIFFICULT FOR US AS WELL. YOU, OF COURSE,
17 HAVE BEEN WORKING ON THIS WITH THE KUEHL BILL. AND
18 I THINK THE MAJOR PROBLEM THERE IS THAT IF IT GETS
19 SET IN CEMENT, IT WILL BE VERY DIFFICULT TO GET OUR
20 BIOTECHNOLOGY AND PHARMA FRIENDS TO REALLY JOIN US.
21 THEY WANT TO BE TALKED TO, YOU KNOW, NEGOTIATED
22 WITH. AND WE WILL DEVELOP, WE WILL DO THINGS THAT
23 ARE IN THE INTEREST OF THE CALIFORNIA POPULATION. I
24 ASSURE YOU WE WILL DO THAT. WE'LL KEEP THE PRICES
25 DOWN TO VERY MINIMUM, BUT WE NEED TO BE ABLE TO TALK

BARRISTERS' REPORTING SERVICE

1 TO OUR COLLEAGUES IN INDUSTRY.

2 THE CELL PRODUCTION FACILITIES, WE WANT TO
3 MOVE ON THAT. I'VE ASKED MARIE CSETE AND PAT OLSON
4 AND OTHER MEMBERS OF THE SCIENCE GROUP TO SET UP A
5 WORKSHOP ON CELL PRODUCTION FACILITIES. THESE ARE
6 CELL PRODUCTION FOR THERAPEUTIC AND RESEARCH
7 PURPOSES. WE NEED TO TALK TO ALL OUR FRIENDS WHO
8 HAVE GOT GMP FACILITIES OR WHO ARE IN THE INDUSTRY
9 TO SEE EXACTLY WHAT THEY WANT. WHAT IS IT THAT THEY
10 NEED? I THINK I KNOW, BUT I THINK IT WOULD BE VERY
11 HELPFUL TO HAVE THAT WORKSHOP TELL US VERY
12 SPECIFICALLY WHAT'S NEEDED.

13 AND THEN LASTLY, WE'RE GOING TO HAVE A LOT
14 MORE ONGOING DISCUSSIONS IN WORKSHOP FORM FOR
15 ENHANCING PRODUCTIVITY AS AN ONGOING PROGRAM SO THAT
16 THE REPORTS THAT WE GET EVERY YEAR, OFTEN IN OTHER
17 AGENCIES THEY ARE JUST SORT OF LOOKED AT QUICKLY AND
18 THEN FILED. WE WANT TO ACTUALLY TAKE THE REPORTS,
19 BRING THE SCIENTISTS TOGETHER IN LIKE-MINDED AREAS,
20 BRING THEM TOGETHER, AND SEE IF WE CAN ENHANCE THE
21 PROGRAM IN SOME SPECIAL AREAS BY MAYBE HELPING THEM
22 TO MAKE RELATIONSHIPS OR ACTUALLY SUGGESTING SOME
23 THINGS THAT COULD MAKE IT MORE PRODUCTIVE.

24 SO THIS INTEGRATING THE OUTCOMES, I THINK,
25 IS A VERY IMPORTANT AND NEW PROCESS THAT WE WANT TO

BARRISTERS' REPORTING SERVICE

1 ENGAGE IN AGAIN WITH OUR GRANTEEES.

2 THE SCIENCE MEETING, JUST TO BRING IT TO
3 YOUR ATTENTION, THE CIRM 2008 GRANTEE CONFERENCE IS
4 ON SEPTEMBER 17TH TO THE 19TH IN SAN FRANCISCO WITH
5 A PRESS BRIEFING ON THE 17TH. AGAIN, IF THERE ARE
6 MEMBERS OF THE ICOC WHO WOULD LIKE TO BE THERE,
7 COULD YOU LET US KNOW? IT WILL BE REALLY
8 INTERESTING. WE HOPE TO GET THREE TO 400 OF OUR
9 GRANTEEES AND MEMBERS OF THE LABS TOGETHER. WE'VE
10 GOT A VERY INTERACTIVE AND INNOVATIVE MEETING. IT'S
11 NOT A NORMAL CONFERENCE. IT'S ONE WHERE WE WANT TO
12 TRY AND BUILD TEAM SPIRIT AND LINK THINGS TOGETHER
13 TO GET PEOPLE TO UNDERSTAND WHAT OTHERS ARE DOING,
14 SO WE CAN BE MUCH MORE OF A SINGLE ENTITY IN
15 CALIFORNIA, AT LEAST IN AWARENESS.

16 MS. SAMUELSON: AND THE ANSWER MAY BE
17 OBVIOUS, BUT WHAT IS THE PURPOSE OF IT?

18 DR. TROUNSON: THE PURPOSE IS TO BUILD
19 TEAMS. WHAT WE WILL BE DOING WILL BE HAVING SOME
20 MAJOR TALKS BY SOME PEOPLE IN CALIFORNIA, BUT ALSO
21 SOME PEOPLE FROM OUTSIDE THE STATE SCENE, AND THERE
22 WILL BE SORT OF BRIEF TALKS BY SOME OF THE PEOPLE
23 WHO ARE DOING SOME MARVELOUS WORK. THERE WILL BE
24 SOME POSTERS.

25 BUT WHAT WE'RE DOING IS THINGS LIKE, FOR

BARRISTERS' REPORTING SERVICE

1 EXAMPLE, SCIENCE DATING. YOU KNOW WHAT SCIENCE
2 DATING WAS. IT'S KIND OF --

3 MS. SAMUELSON: I DIDN'T DATE SCIENTISTS.

4 DR. TROUNSON: SO I DON'T KNOW ANYTHING
5 ABOUT THIS. I'M TOO OLD. BUT WHAT YOU DO IS YOU GO
6 AROUND A ROOM WHERE THERE ARE DIFFERENT PEOPLE AND
7 YOU INTRODUCE YOURSELF ABOUT WHAT THE WORK THAT
8 YOU'RE DOING. AND SO YOU MIGHT SPEND ONLY THREE OR
9 FOUR MINUTES, FOUR, FIVE MINUTES DOING THAT, THEN
10 YOU MOVE ON. SO WHAT HAPPENS IS THAT YOU GET,
11 INSTEAD OF THE PEOPLE CONGREGATING IN THEIR OWN
12 GROUPS AT CONFERENCES, WHICH IS THE COMMON THEME,
13 WE'RE GOING TO SORT OF SPREAD THEM OUT.

14 SO WE'VE GOT A WHOLE LOT OF DIFFERENT
15 INTERACTIVE WAYS OF GETTING THEM TO KNOW ONE
16 ANOTHER, BUT ALSO ACTUALLY TRYING -- LOOKING TO A
17 WAY WE CAN BUILD TEAMS ACROSS SOME OF THESE SPACES,
18 BOTH HOPEFULLY BETWEEN INSTITUTIONS AND WITH THE
19 BIOTECH INDUSTRIES PEOPLE THERE.

20 CHAIRMAN KLEIN: AND YOUR ULTIMATE GOAL IS
21 TO HELP CREATE THE SYNERGIES THAT WILL END UP IN
22 TRANSLATIONAL TEAMS AND DISEASE SPACE TEAMS. WITH
23 ALL OF THE CRITICAL MASS OF SCIENCE IN CALIFORNIA,
24 WE HAVE EXTRAORDINARY ABILITY HERE TO BRING TOGETHER
25 THE BEST SCIENTISTS IN THE STATE AND THE FIELD AND

BARRISTERS' REPORTING SERVICE

1 BUILD AN INTERDEPENDENT NETWORK THAT CAN BE VERY
2 SYNERGISTIC.

3 DR. TROUNSON: SO IF YOU'D LIKE TO PICK UP
4 TECHNIQUES THAT SOMEONE ELSE IS DOING, THERE'S LOTS
5 OF GOOD THINGS. IF YOU LOOK AT REALLY SOME OF THE
6 PRIMARY PAPERS THAT I'M SHOWING YOU, OFTEN YOU SEE
7 TWO OR THREE, THREE OR FOUR INSTITUTIONS AND THEY'VE
8 PICKED UP DIFFERENT TECHNIQUES AND BROUGHT THEM INTO
9 FOCUS ON THE STUDY. THAT'S WHAT WE WANT THEM TO DO.
10 YOU KNOW, THERE ARE MARVELOUS THINGS AT ONE
11 INSTITUTION OR OTHER, AND TO ENGAGE THAT AS PART OF
12 THEIR SCIENCE.

13 SO THAT'S IT. YOU KNOW, I GET ALL THE
14 ACCOLADES AND NICE COMMENTS FROM THE CHAIRMAN AND
15 THE GOVERNOR, WHICH IS VERY NICE, BUT THESE ARE THE
16 PEOPLE THAT ACTUALLY DO THE JOB. IT'S A GREAT GROUP
17 OF PEOPLE, AND THERE ARE A COUPLE WHOSE PICTURES ARE
18 NOT THERE, BUT THEY'RE GETTING ON BECAUSE I HAVEN'T
19 SEEN THE PHOTOGRAPH. BUT THEY'RE FANTASTIC.
20 THEY'RE JUST WONDERFUL, AND THEY'RE ALL DOING
21 REALLY, REALLY WELL. THEY'RE ACTUALLY DOING IT FOR
22 ALL OF US, AND I WOULDN'T MIND GIVING THEM A CLAP.

23 (APPLAUSE.)

24 DR. TROUNSON: NOW, I COULD STOP THERE,
25 MR. CHAIRMAN; OR IF YOU WANTED ME TO SORT OF TALK

BARRISTERS' REPORTING SERVICE

1 ABOUT THE MOU' S, I ' VE GOT FOUR OR FIVE SLIDES ON
2 THAT.

3 CHAIRMAN KLEIN: PERHAPS NANCY KOCH IS
4 GOING TO BE HERE TOMORROW.

5 DR. TROUNSON: YES.

6 CHAIRMAN KLEIN: AND MAYBE WE COULD MOVE
7 THAT PART OF YOUR PRESENTATION WITH NANCY.

8 DR. TROUNSON: YES.

9 CHAIRMAN KLEIN: AND WE' LL DO THAT RIGHT
10 AT THE SAME TIME YOU DO THE INTERNATIONAL STEM CELL.

11 DR. TROUNSON: I ' M HAPPY TO DO THAT.
12 THANK YOU VERY MUCH.

13 CHAIRMAN KLEIN: THANK YOU. THAT' S A
14 TREMENDOUS REPORT AS ALWAYS, DR. TROUNSON. AND IT
15 WILL BE GREAT TO SEE THE FULL REPORT TOMORROW. BUT
16 PLEASE DO COVER SOME OF THE HIGHLIGHTS TOMORROW FOR
17 SOME OF THE BOARD THAT IS JUST NOT ABLE TO BE HERE
18 TODAY.

19 AND I ' D LIKE TO POINT OUT THAT AT BIO,
20 WHICH DR. TROUNSON AND I AND A NUMBER OF MEMBERS OF
21 THE STAFF, DR. CSETE AND DR. OLSON, I THINK PROBABLY
22 ANOTHER THREE OR FOUR MEMBERS OF THE STAFF, FIVE
23 MEMBERS OF THE STAFF, SCIENTIFIC STAFF, ATTENDED
24 ALONG WITH MELISSA KING OF MY STAFF, WERE EXTREMELY
25 GRATIFIED BY THE GOVERNOR COMMITTING A CENTRAL PART

BARRISTERS' REPORTING SERVICE

1 OF HIS SPEECH TO THE 22,000 PEOPLE PRESENT TO
2 PROPOSITION 71 AND THE WORK OF THIS AGENCY FOR WHICH
3 HE IS EXTREMELY PLEASED.

4 AND THE SURPRISING PART OF IT IS IS THAT
5 AFTER -- IMMEDIATELY AFTER HIS SPEECH TO THE
6 ASSEMBLED GROUP, WHICH INCLUDED THE PRINCIPAL
7 BALLROOM AND TWO SUPPLEMENTAL BALL ROOMS, TO HEAR
8 HIS SPEECH, HE ASSEMBLED THIS AD HOC PRESS
9 CONFERENCE IN WHICH HE GAVE A PRESENTATION ON KEY
10 POINTS IN CALIFORNIA. AND THEN WITHOUT ANY
11 PARTICULAR NOTICE TURNED IT OVER TO ME TO TALK ABOUT
12 WHAT WE WERE DOING AT THIS AGENCY IN STEM CELL
13 RESEARCH. BUT IT'S AN EXTRAORDINARY LEVEL OF
14 SUPPORT FROM THE GOVERNOR'S OFFICE WHICH WE DEEPLY
15 APPRECIATE.

16 AND IT WAS VERY HIGHLY APPRECIATED AS WELL
17 BY THE CANADIAN MINISTER OF HEALTH WHO ATTENDED TO
18 SIGN THE MOU. SO WE HAD VERY HIGH LEVEL
19 REPRESENTATION FROM CANADA, AND THEY APPRECIATED THE
20 GOVERNOR MEETING WITH THEM AFTERWARDS TO PERSONALLY
21 THANK THEM. HE MADE A DELEGATION VISIT AS WELL TO
22 OTTAWA LAST YEAR ASKING THAT WE PUSH THIS
23 INITIATIVE. A YEAR LATER HE HAD THE INITIAL
24 COLLABORATIVE FRAMEWORK SET UP, AND THE MINISTER OF
25 HEALTH IN CANADA REALLY FELT THAT THIS WAS A MAJOR

BARRISTERS' REPORTING SERVICE

1 ACCOMPLISHMENT FOR HIS ADMINISTRATION.

2 ADDITIONALLY, THE MINISTER OF HEALTH,
3 MR. INNOVATION FOR AUSTRALIA, HAD DINNER WITH ALAN
4 AND I AND SEPARATELY STATED HIS DESIRE TO MAKE SURE
5 THAT IT WAS THE ENTIRE COUNTRY OF AUSTRALIA THAT WAS
6 COMMITTED TO THIS EFFORT IN ADDITION TO REMARKABLE
7 COMMITMENTS COMING OUT OF THE STATE OF VICTORIA,
8 WHICH WAS VERY GRATIFYING. AND THE PREMIER OF THE
9 STATE OF VICTORIA WAS EXTREMELY THANKFUL TO THE
10 GOVERNOR WHO HAD COME THERE TO AUSTRALIA A YEAR AND
11 A HALF AGO AND TALKED ABOUT CLIMATE CHANGE IN STEM
12 CELL RESEARCH. SO THE PREMIER WANTED TO LET HIM
13 KNOW, THE GOVERNOR KNOW, THAT THEY WERE FOLLOWING
14 THROUGH ON THEIR COMMITMENT TO MOVE THIS FORWARD ON
15 A GLOBAL BASIS.

16 WITH A QUORUM THAT I THINK IS PRESENT --

17 MS. KING: YES.

18 CHAIRMAN KLEIN: -- AT THIS POINT, I'D
19 LIKE TO GO BACK TO ITEMS 4 AND 5, THE CONCEPT
20 CALENDAR WITH THE APPROVAL OF THE MINUTES OF MAY 6TH
21 AND 7TH. MR. HARRISON, IF I COULD HANDLE THAT IN A
22 SEPARATE CONSENT MOTION FROM THE FINAL APPROVAL OF
23 THE MAJOR FACILITIES GRANT ADMINISTRATION POLICY, IS
24 THAT ACCEPTABLE?

25 MR. HARRISON: YES. YOU CAN TAKE THEM

BARRISTERS' REPORTING SERVICE

1 SEPARATELY.

2 CHAIRMAN KLEIN: OKAY. FOR THE APPROVAL
3 OF THE MINUTES.

4 MS. LANSING: SO MOVED.

5 CHAIRMAN KLEIN: SO MOVED. IS THERE A
6 SECOND?

7 MR. ROTH: SECOND.

8 CHAIRMAN KLEIN: IS THERE ANY PUBLIC
9 COMMENT ON THE MINUTES? SEEING NONE, ALL IN FAVOR.
10 MOTION PASSES.

11 FINAL APPROVAL OF THE MAJOR FACILITIES
12 GRANTS ADMINISTRATION POLICY, IS THERE A MOTION TO
13 APPROVE THIS ITEM?

14 DR. HAWGOOD: SO MOVE.

15 CHAIRMAN KLEIN: MOVED BY DR. HAWGOOD. IS
16 THERE A SECOND?

17 MR. ROTH: SECOND.

18 CHAIRMAN KLEIN: SECOND BY DUANE ROTH. IS
19 THERE PUBLIC COMMENT ON THIS? SEEING NONE, IS THERE
20 BOARD COMMENT? ALL IN FAVOR. OPPOSED? MOTION
21 PASSES.

22 WE WILL NOW GO FORWARD TO --

23 MS. KING: TEN.

24 CHAIRMAN KLEIN: -- ITEM 10 UNLESS, DR.
25 TROUNSON, IS IT YOUR PREFERENCE OR MARIE -- I HAD

BARRISTERS' REPORTING SERVICE

1 UNDERSTOOD THAT DR. CSETE WAS INTERESTED IN MAKING A
2 PRESENTATION TOMORROW ON ITEM 9, BUT IT IS YOUR
3 DISCRETION AND DR. CSETE'S DISCRETION AS TO THE
4 TIMING.

5 DR. TROUNSON: IF WE MAY, CHAIR, I THINK
6 IT WOULD BE TERRIFIC TO GET THE NEW CELL LINE AWARDS
7 DONE. I MEAN I THINK YOU WILL ENJOY MARIE'S
8 PRESENTATION, BUT IT WOULD BE GREAT IF WE COULD GET
9 THESE NEW CELL LINE AWARDS DONE.

10 CHAIRMAN KLEIN: ALL RIGHT.

11 DR. TROUNSON: IT'S A MEATY SUBJECT AND
12 WOULD BE WORTH GETTING DONE.

13 CHAIRMAN KLEIN: ALL RIGHT. THANK YOU,
14 DR. TROUNSON. SO WE'RE GOING TO MOVE TO AGENDA ITEM
15 10 FOR NEW CELL LINES. AND THAT'S ON TAB 10 IN THE
16 MEETING BINDER. YOU'VE ALSO ACCESS TO PUBLIC
17 SUMMARIES. I'D LIKE TO ASK DR. UTA GRIESHAMMER TO
18 INTRODUCE US TO THIS ITEM.

19 DR. GRIESHAMMER: MR. CHAIRMAN, BOARD
20 MEMBERS, I WOULD LIKE TO PRESENT TO YOU THE
21 RECOMMENDATIONS FOR THE NEW CELL LINES AWARDS
22 APPLICATIONS THAT WERE PUT FORTH BY THE GRANTS
23 WORKING GROUP IN APRIL. AND AS MR. KLEIN ALREADY
24 MENTIONED, THIS IS AGENDA ITEM NO. 10 IN YOUR
25 BINDER.

BARRISTERS' REPORTING SERVICE

1 I WILL FIRST BRIEFLY REMIND YOU OF THE
2 OBJECTIVES OF THE NEW CELL LINES RFA BEFORE
3 PRESENTING TO YOU THE RECOMMENDATIONS MADE BY THE
4 GRANTS WORKING GROUP.

5 SO THE PURPOSE, AS YOU PROBABLY REMEMBER,
6 OF THE NEW CELL LINES AWARDS IS TO SUPPORT THE
7 DERIVATION OF NEW HUMAN PLURIPOTENT STEM CELL LINES
8 THAT WILL HAVE IMPORTANT RESEARCH AND CLINICAL
9 APPLICATIONS. IN ORDER TO ENSURE THAT THE
10 APPLICATIONS IN RESPONSE TO THIS REQUEST FOR
11 APPLICATIONS WOULD COVER A WIDE RANGE OF SOURCE
12 MATERIAL FOR CELL LINE DERIVATION, WE CREATED TWO
13 CATEGORIES OF RESEARCH AND LIMITED THE NUMBER OF
14 APPLICATIONS IN EACH CATEGORY.

15 FOR CATEGORY 1 WE ASKED THE INVESTIGATORS
16 TO DERIVE NEW HUMAN EMBRYONIC STEM CELL LINES USING
17 EARLY STAGE PREIMPLANTATION HUMAN EMBRYOS GENERATED
18 BY IN VITRO FERTILIZATION. THIS WOULD INCLUDE
19 EXCESS EMBRYOS THAT ARE NO LONGER NEEDED FOR
20 REPRODUCTIVE PURPOSES, AND IT WOULD INCLUDE EMBRYOS
21 IDENTIFIED BY PREIMPLANTATION GENETIC DIAGNOSIS TO
22 CARRY GENETIC ABNORMALITIES.

23 RESEARCH IN CATEGORY 2 INVOLVES DERIVATION
24 OF HUMAN PLURIPOTENT STEM CELL LINES USING OTHER
25 SOURCES OF CELLS. AND THIS INCLUDES THE

BARRISTERS' REPORTING SERVICE

1 REPROGRAMMING OF SOMATIC CELLS TO AN EMBRYONIC STEM
2 CELL-LIKE STATE; THAT IS, THE GENERATION OF INDUCED
3 PLURIPOTENT STEM CELLS OR IPS CELLS. IT INCLUDES
4 CELL LINES GENERATED BY SOMATIC CELL NUCLEAR
5 TRANSFER, AND IT INCLUDES FETAL OR ADULT CELLS THAT
6 MAY SPONTANEOUSLY REVERT TO PLURIPOTENCY IN CULTURE.

7 SO RECOGNIZING THE NEED FOR NEW TYPES AND
8 NEW SOURCES OF PLURIPOTENT STEM CELL LINES AND THE
9 NEED FOR OPTIMIZING EXISTING METHODS FOR THE
10 DERIVATION OF THESE LINES, CIRM ASKS THE APPLICANTS
11 TO THIS RFA TO DERIVE NEW HUMAN CELL LINES WITH
12 IMPROVED CLINICAL QUALITY, WHICH IS A CRITICAL GOAL
13 TOWARD THERAPEUTIC APPLICABILITY OF PLURIPOTENT STEM
14 CELLS. WE ALSO ASKED FOR THE DERIVATION OF CELL
15 LINES WITH OPTIMAL DIFFERENTIATION POTENTIAL.

16 FURTHERMORE, WE WERE INTERESTED IN
17 INCREASING THE NUMBER OF AVAILABLE HUMAN PLURIPOTENT
18 CELL LINES THAT ARE DISEASE SPECIFIC OR OTHERWISE
19 GENETICALLY DIVERSE TO ENABLE NEW WAYS TO STUDY
20 DISEASE MECHANISM OR TO DISCOVER AND EVALUATE NEW
21 DRUG CANDIDATES, AND WE'RE INTERESTED IN SUPPORTING
22 TECHNOLOGY DEVELOPMENT THAT WILL ALLOW THE
23 DERIVATION OF PATIENT-SPECIFIC CELL LINES, WHICH
24 BRINGS ME TO THE LAST POINT LISTED ON THE SLIDE.

25 OUR GOAL TO FUND PROPOSALS THAT WILL LEAD

BARRISTERS' REPORTING SERVICE

1 TO THE DISCOVERY OR IMPROVEMENT OF TECHNOLOGY FOR
2 PLURIPOTENT STEM CELL DERIVATION SUCH AS IPS
3 TECHNOLOGY OR SOMATIC CELL NUCLEAR TRANSFER.

4 SO THE REVIEWERS WERE ASKED TO CONSIDER
5 THREE CRITERIA WHEN EVALUATING THE NEW CELL LINES
6 APPLICATIONS. FOR THE FIRST CRITERION,
7 SIGNIFICANCE, WE ASKED THE REVIEWERS TO ASSESS IF
8 THE PROPOSED WORK WAS LIKELY TO ADVANCE THE STEM
9 CELL FIELD EITHER SCIENTIFICALLY OR TOWARDS
10 BIOMEDICAL APPLICATIONS. WE EMPHASIZED TO THE
11 REVIEWERS THAT INNOVATION IS NOT NECESSARILY
12 IMPORTANT FOR MERITORIOUS APPLICATIONS UNDER THIS
13 RFA, ESPECIALLY WHEN THINKING ABOUT DEVELOPING
14 STRATEGIES FOR DERIVING CLINICAL GRADE HUMAN
15 EMBRYONIC STEM CELL LINES. SO WE ASKED THE
16 REVIEWERS TO CONSIDER INNOVATION ONLY WHEN
17 APPLICABLE.

18 FOR THE SECOND CRITERION, DESIGN AND
19 FEASIBILITY OF THE RESEARCH PLAN, THE REVIEWERS WERE
20 ASKED TO EVALUATE IF THE RESEARCH IS CAREFULLY
21 DESIGNED TO GIVE MEANINGFUL RESULTS AND IF IT IS
22 FEASIBLE BASED MAINLY ON PRELIMINARY DATA AND THE
23 QUALIFICATIONS OF THE PRINCIPAL INVESTIGATOR.

24 AND FINALLY, WE ASKED THE REVIEWERS TO
25 ASSESS IF THE APPLICATION WAS RESPONSIVE TO THE RFA,

BARRISTERS' REPORTING SERVICE

1 WHETHER IT WAS LIKELY THAT THE PROPOSED RESEARCH
2 WOULD LEAD TO THE GENERATION OF TRULY PLURIPOTENT
3 STEM CELL LINES.

4 AND FURTHERMORE, RECOGNIZING THAT WIDE
5 AVAILABILITY OF NEWLY GENERATED STEM CELL LINES
6 WOULD ENSURE GREATEST POSSIBLE IMPACT OF THIS
7 INITIATIVE, WE ASKED THE APPLICANTS TO DESCRIBE
8 THEIR PLANS FOR SHARING OR COMMERCIALIZING THE NEW
9 CELL LINES AND ASKED THE REVIEWERS TO ASSESS IF
10 THESE PLANS WERE ADEQUATE FOR MAKING THE CELL LINES
11 WIDELY AVAILABLE TO OTHER RESEARCHERS.

12 SO AT THE BOARD MEETING IN OCTOBER LAST
13 YEAR, YOU APPROVED THE CONCEPT FOR THE NEW CELL
14 LINES RFA, INCLUDING THE FUNDING TARGETS LISTED ON
15 THIS SLIDE. THE GOAL WAS TO FUND UP TO 16 GRANTS,
16 EIGHT IN EACH OF THE TWO CATEGORIES THAT I JUST
17 DESCRIBED TO YOU. UP TO \$25 MILLION WERE ALLOCATED
18 FOR THIS RFA, AND WE WILL ALLOW UP TO \$300,000 IN
19 DIRECT COSTS PER YEAR FOR UP TO THREE YEARS.

20 THIS RFA WAS OPEN TO INVESTIGATORS
21 CONDUCTING THEIR RESEARCH AT NONPROFIT OR FOR-PROFIT
22 INSTITUTIONS WITH RESEARCH SITES LOCATED IN
23 CALIFORNIA.

24 SO I'M NOW GOING TO SHOW TO YOU THE
25 RECOMMENDATIONS MADE BY THE GRANTS WORKING GROUP.

BARRISTERS' REPORTING SERVICE

1 AS USUAL, THE GRANTS WORKING GROUP PLACED THE
2 APPLICATIONS INTO THREE TIERS. TIER 1, AS YOU ARE
3 USED TO, CONTAINS THE APPLICATIONS RECOMMENDED FOR
4 FUNDING BY THE GRANTS WORKING GROUP. HOWEVER, THE
5 GRANTS WORKING GROUP ADOPTED LANGUAGE DESCRIBING
6 THEIR RECOMMENDATION FOR APPLICATIONS IN TIER 2 THAT
7 DIFFERS FROM TIER 2 RECOMMENDATIONS FROM PREVIOUS
8 RFA REVIEWS.

9 PREVIOUSLY, APPLICATIONS IN TIER 2 WERE
10 RECOMMENDED FOR FUNDING IF FUNDS AVAILABLE.
11 HOWEVER, AT THE CONCLUSION OF THE PROGRAMMATIC
12 REVIEW, THE MEMBERS OF THE GRANTS WORKING GROUP
13 PASSED A MOTION STATING THAT APPLICATIONS IN TIER 2
14 ARE NOT RECOMMENDED FOR FUNDING AND THAT, INSTEAD,
15 APPLICATIONS IN TIER 2 ARE RECOMMENDED TO BE
16 AVAILABLE FOR FUNDING ONLY IF THE ICOC MAKES A
17 PROGRAMMATIC DETERMINATION TO DO SO.

18 AND FINALLY, AGAIN, AS YOU'RE USED TO,
19 APPLICATIONS IN TIER 3 ARE NOT RECOMMENDED FOR
20 FUNDING.

21 DR. PIZZO: I'M SORRY. CAN YOU CLARIFY
22 THAT POSITION THAT WAS TAKEN AND THE REASONS FOR IT?

23 DR. GRIESHAMMER: FOR TIER 2?

24 DR. PIZZO: YES, PLEASE.

25 DR. GRIESHAMMER: SO AFTER THE -- MY

BARRISTERS' REPORTING SERVICE

1 REWORDING OF THE FEELING IN THE ROOM AT THE
2 CONCLUSION OF THE PROGRAMMATIC DISCUSSION WAS AS
3 I'LL DESCRIBE TO YOU IN A MOMENT WHEN YOU SEE THE
4 ACTUAL NUMBERS OF APPLICATIONS IN THE VARIOUS TIERS
5 WAS THAT THE MEMBERS OF THE GRANTS WORKING GROUP HAD
6 ALREADY CAREFULLY CONSIDERED ALL THE APPLICATIONS
7 THEY FOUND MERITORIOUS FOR FUNDING AND HAD MOVED
8 THEM INTO TIER 1 --

9 DR. PIZZO: I SEE.

10 DR. GRIESHAMMER: -- IF THEY HAD BEEN IN
11 TIER 2, AND THEN THEY WANTED TO BE SURE THAT IT WAS
12 MADE CLEAR TO THE ICOC THAT THEY FELT, AFTER THEIR
13 SCIENTIFIC AND PROGRAMMATIC EVALUATIONS DURING THE
14 REVIEW MEETING, NOT TO JUST -- TO BASICALLY STATE
15 THAT THEY WEREN'T RECOMMENDING THEM FOR FUNDING IF
16 FUNDS AVAILABLE, BUT RATHER ONLY IF THE BOARD WAS
17 INTERESTED IN PROGRAMMATIC.

18 DR. TROUNSON: SO DEAN PIZZO -- SORRY,
19 DEAN PIZZO. I THINK IT WAS VERY CLEAR THAT THEY
20 FELT THAT THE SCIENCE IN TIER 2 WOULD NOT HAVE
21 CARRIED THE DAY, AND IT WAS REALLY ONLY IF IT WAS A
22 PROGRAMMATIC WISH OF THE ICOC, THAT THE SCIENTISTS
23 DID NOT FEEL THAT THE SCIENCE ACTUALLY CARRIED THE
24 DAY TO WARRANT THE RECOMMENDATION OF BEING FUNDED.
25 THEY TOOK THOSE THAT WERE IN TIER 1, SO THEY WERE

BARRISTERS' REPORTING SERVICE

1 THE ONES BELOW TIER 1 SCIENTIFICALLY NOT RECOMMENDED
2 FOR FUNDING, BUT PROVISIONALLY THE GROUP THERE WOULD
3 BE SUBJECT TO THE ICOC'S VIEWS, THE SCIENCE ASIDE.

4 CHAIRMAN KLEIN: THE VICE CHAIR, PERHAPS
5 WE COULD HAVE JEFF SHEEHY COMMENT.

6 DR. PIZZO: GREAT. THANKS.

7 MR. SHEEHY: YEAH. I THINK A NUANCE TO
8 THIS IS KIND OF BEING LOST IS THAT A LOT OF THESE
9 APPLICATIONS ARE CREATING DISEASE-SPECIFIC LINES.
10 AND SO IN SOME SENSES THERE WAS THE SENSE THAT THERE
11 ARE ALREADY ABUNDANT NUMBER OF DISEASE -- OF THESE
12 LINES EXISTING, THAT THE SCIENCE ITSELF WAS NOT THAT
13 INTERESTING, AND THAT RESEARCHERS HAD ACCESS TO AN
14 ADEQUATE NUMBER OF LINES, AND THERE WAS NO NEED TO
15 DO SO, TO CREATE THE LINE JUST TO DO SO.

16 I WILL NOTE WE DO HAVE A LETTER FROM ONE
17 OF THE ONES IN THIS TIER IN OUR BINDER. I'VE ALSO
18 HEARD FROM SOMEONE FROM AN ADVOCACY GROUP. IT'S NOT
19 ALWAYS TRUE THAT THE RESEARCHERS ARE AWARE OF ALL
20 THE LINES THAT ARE OUT THERE THAT ARE AVAILABLE. SO
21 I DO THINK WE SHOULD BE A LITTLE BIT CAREFUL.

22 THERE WAS NOT GREAT ENTHUSIASM FOR THESE,
23 AND THAT'S WHY THEY CREATED THE SECOND CATEGORY.
24 AND THIS WAS A NOVEL WAY TO RESOLVE A GENERAL LACK
25 OF ENTHUSIASM ONCE WE GOT THROUGH THE FIRST TIER.

BARRISTERS' REPORTING SERVICE

1 USUALLY THE SECOND TIER IS, YOU KNOW, IF YOU GUYS
2 WANT TO SPEND THE MONEY, THERE'S SOME REALLY GOOD
3 SCIENCE IN HERE THAT YOU MAY WANT TO TAKE A CRACK
4 AT. IN THIS PARTICULAR INSTANCE, THERE WAS JUST NOT
5 A GREAT DEAL OF ENTHUSIASM FOR THE SCIENCE.

6 BUT I WOULD NOTE THAT IN MOST OF THE
7 INSTANCES WE WERE TALKING ABOUT CREATING
8 DISEASE-SPECIFIC LINES THAT WOULD BE OF INTEREST
9 PROGRAMMATICALLY, THAT, YOU KNOW, THAT WE NEED TO
10 TAKE UP AND HAVE A REAL DISCUSSION ABOUT AND NOT
11 JUST -- THESE ARE NOT NECESSARILY PURE TIER 3. DOES
12 THAT MAKE SENSE?

13 DR. PIZZO: IT DOES. IT DOES MAKE SENSE.
14 AND JUST IN A GENERIC WAY, PERHAPS YOU OR, YOU KNOW,
15 ANYONE WHO'S THERE COULD JUST COMMENT. YOU KNOW,
16 THE SCORES, JUST SCANNING THE SCORES, I KNOW WE'RE
17 GOING TO GET TO THIS, BUT BEFORE WE GET TO THE
18 SPECIFICS, YOU KNOW, THEY'RE ALL SOMEWHAT MORE
19 DEPRESSED. THEY START OUT AT A LOWER LEVEL THAN
20 THEY DO TRADITIONALLY. AND I'M JUST SORT OF -- YOU
21 I THINK MAYBE ANSWERED THIS ALREADY, THAT THERE'S
22 KIND OF A RELATIVE DEGREE OF LESS EXCITEMENT ABOUT
23 THIS THAN OTHER PROJECTS. IS THAT A SAFE --

24 MR. SHEEHY: WELL, I THINK PART OF IT IS
25 IS THAT THERE'S A LOT OF THE IPS. SO THERE'S A LOT

BARRISTERS' REPORTING SERVICE

1 OF, YOU KNOW, THIS WAS HOT FLAVOR OF THE MONTH KIND
2 OF ME-TOOISM TO THAT, IF THAT MAKES SENSE. AND THEY
3 WERE REALLY -- THE ONES THAT SCORED WELL, YOU KNOW,
4 PEOPLE WERE MAKING SIGNIFICANT ADVANCES IN IPS OR
5 MODELING IPS. AND I'M KIND OF HAVING TO DO THIS OFF
6 THE BACK OF MY MEMORY, BUT WERE DOING VERY
7 EXPERIMENTS COMPARING EMBRYO-DERIVED LINE WITH AN
8 IPS LINE. SO THE ONES THAT THEY WERE IMPRESSED WITH
9 WERE MAKING -- REALLY TRYING TO MOVE THE FIELD
10 TECHNICALLY IN A SIGNIFICANT WAY.

11 SO A LOT OF IT WAS LIKE ME TOO, ME TOO.
12 EVERYBODY HAS GOT TO DO IPS.

13 DR. PIZZO: A QUICK FOLLOW-UP?

14 CHAIRMAN KLEIN: DR. PIZZO, IF WE COULD
15 JUST FOR FURTHER CONTEXT.

16 DR. PIZZO: REMAIN QUIET?

17 CHAIRMAN KLEIN: I'LL CALL ON YOU. IF I
18 COULD MARCY FEIT, WHO'S CENTRALLY INVOLVED IN THE
19 PROGRAMMATIC REVIEW, COMMENT, SO YOU HAVE A FULL
20 TEXTURE.

21 DR. PIZZO: I GOT THE MESSAGE.

22 MS. FEIT: THIS SITUATION TOOK A LOT OF
23 DISCUSSION DURING THOSE REVIEWS. AND I HAVE TO SAY
24 I SAT THROUGH ALMOST ALL OF THE REVIEWS EXCEPT FOR
25 THE ONES I WAS EXCUSED FROM. AND, YOU KNOW, TO SIT

BARRISTERS' REPORTING SERVICE

1 WITH ALL THOSE PROMINENT SCIENTISTS, THEY TAKE THEIR
2 REVIEWS VERY SERIOUSLY. THEY ARGUE OVER WHAT THEY
3 THINK IS RIGHT. THE SCIENCE COMES FIRST. AND I
4 THINK BECAUSE OF THAT, THEY LOOKED AT THE SCORES
5 AND, AS SCIENTISTS, THEY REALLY WERE NOT COMFORTABLE
6 SAYING THAT A SCORE OF 50 SHOULD BE FUNDED.

7 DR. PIZZO: THAT SOUNDS GOOD.

8 MS. FEIT: THAT A SCORE OF 40 SHOULD BE
9 FUNDED BECAUSE WE HAD THE FUNDING AVAILABLE. SO,
10 YOU KNOW, AND I ADVOCATED FOR THAT. I KEPT BRINGING
11 THEM BACK TO THAT CONSCIENCE OF SCIENCE. IS THIS
12 THE GOOD SCIENCE THAT YOU AS SCIENTISTS WANT TO
13 FUND? SO THAT'S WHY THIS CAME UP.

14 UNLIKE THE LARGE GRANT REVIEWS THAT WE DID
15 EARLIER LAST YEAR WHERE THERE WAS JUST SO MANY
16 SPECTACULAR GRANTS TO FUND, WE DIDN'T HAVE ENOUGH
17 MONEY, THIS WAS DIFFERENT. THIS WAS CLEARLY
18 DIFFERENT, AND THERE WAS TRULY A CUTOFF THAT THE
19 SCIENTISTS WERE COMFORTABLE IN FUNDING. AND THEY
20 WANTED TO, HOWEVER, LEAVE AN OPPORTUNITY FOR THIS
21 BOARD TO SAY BUT WE'RE MISSING THIS PROGRAM AND WE
22 WOULD REALLY LIKE TO AND, THEREFORE, YOU COULD
23 EVALUATE THE SCORE AND YOU COULD LOOK AT THE SCIENCE
24 YOURSELVES AND SAY WE WANT THIS ONE GRANTED.

25 SO THEY WANTED TO LEAVE YOU THAT

BARRISTERS' REPORTING SERVICE

1 OPPORTUNITY. BUT CLEARLY THE MESSAGE FROM THEM WAS
2 THAT THE SCIENCE CAME FIRST, AND THEY WERE
3 UNCOMFORTABLE WITH THE SCORES IN THIS GROUP.

4 CHAIRMAN KLEIN: MARCY, MAYBE IT'S GOOD TO
5 PUT UP THOSE SCORES BECAUSE I THINK --

6 DR. GRIESHAMMER: MAYBE I COULD FIRST
7 BRIEFLY DISCUSS THE OVERVIEW OF THE --

8 DR. PIZZO: GREAT.

9 MS. KING: CAN WE FINISH THIS AND THEN GO
10 TO THIS GROUP?

11 CHAIRMAN KLEIN: CAN WE DO THIS. CAN WE
12 GO TO THE SCORES AND COME BACK TO THIS SLIDE? CAN
13 WE DO THAT?

14 MS. KING: SURE.

15 CHAIRMAN KLEIN: THE REASON THAT I'D LIKE
16 TO DO THIS IS IN FOLLOWING UP ON MARCY'S COMMENT.
17 OH, I SEE. WE HAVE IT ON TWO DIFFERENT COMPUTERS.
18 THE KEY HERE IS THAT, MARCY, I THINK WHEN WE SEE THE
19 SCORES, THAT THAT TIER 2, WHICH WAS MUCH NARROWER
20 THAN NORMAL, THEY HAVE HAD SOME SCORES THAT WERE
21 FAIRLY CLOSER TO THE TOP TIER, BUT THEN IT FELL OFF
22 FAIRLY SIGNIFICANTLY.

23 WE HAVE SHERRY AND THEN WE'RE GOING TO GO
24 TO DR. PIZZO. SHERRY AND THEN WE'RE GOING TO GO TO
25 JEFF SHEEHY.

BARRISTERS' REPORTING SERVICE

1 MS. LANSING: WE HAVE THE SCORES IN OUR
2 BOOK. WE HAVE THEM RIGHT HERE. WE CAN SEE THEM.

3 CHAIRMAN KLEIN: I'D JUST LIKE THE PUBLIC
4 TO BE ABLE TO SEE THEM IF WE CAN.

5 MS. LANSING: SURE. BUT I ACTUALLY THINK
6 THIS IS GOOD. I MEAN WE'VE ASKED THESE SCIENTISTS
7 TO EVALUATE THE SCIENCE. WE HAVE THE RIGHT TO
8 DISAGREE. I MEAN THAT IS THE RESPONSIBILITY OF THIS
9 BOARD, TO MOVE SOMETHING UP NO MATTER WHAT. BUT
10 I'VE ALWAYS FELT THAT OUR RESPONSIBILITY TO THE
11 CITIZENS OF CALIFORNIA WAS TO SPEND THE MONEY
12 WISELY, AND IT DIDN'T HAVE TO BE SPENT ALL THE TIME.
13 WHATEVER WE HAD ALLOCATED DID NOT ALWAYS HAVE TO BE
14 SPENT AT THAT PARTICULAR DAY. WE HAD TO SPEND IT
15 WHEN WE HAD THE RIGHT SCIENCE TO DO IT ON.

16 SO I ACTUALLY, WHILE I'M NOT QUESTIONING
17 WHETHER THERE SHOULD BE SOMETHING THAT SHOULD BE
18 MOVED UP, THAT'S CERTAINLY ALWAYS OUR OPPORTUNITY,
19 BUT I REALLY RESPECT THE INTEGRITY OF THIS
20 COMMITTEE, THAT THEY DIDN'T JUST SAY, OH, YOU HAVE X
21 AMOUNT OF DOLLARS AND WE'LL SPEND IT. THEY ACTUALLY
22 WANTED TO SPEND IT WISELY AND KNEW THAT THERE'S
23 ANOTHER DAY, SO TO SPEAK. AND IF THEY DIDN'T
24 RESPOND TO THESE, THAT'S FINE. I MEAN THAT'S THEIR
25 JOB.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: JEFF, IF YOU COULD -- I
2 THINK WE HAVE DR. PIZZO. THEN WE'LL GO BACK TO
3 JEFF.

4 DR. PIZZO: I THINK SHERRY MADE THE POINT
5 I WAS MAKING. SHERRY MADE THE POINT I WAS GOING TO,
6 SO I APPRECIATE THAT.

7 CHAIRMAN KLEIN: THANK YOU. JEFF.

8 MR. SHEEHY: I JUST WANT TO GO BACK TO MY
9 POINT. I THINK WE'RE REALLY ONLY TALKING ABOUT TWO
10 APPLICATIONS, AND THIS REALLY IS A PROGRAMMATIC
11 DECISION. IF YOU WILL NOTICE, THE DIFFERENCE
12 BETWEEN 69 AND 71 OR THE DIFFERENCE BETWEEN -- AND
13 TWO OF THEM, 67 GOT BUMPED UP FOR PROGRAMMATIC
14 REASONS. THESE ARE BOTH -- YOU KNOW, LOTS OF PEOPLE
15 ARE USING IPS TO MAKE DISEASE-SPECIFIC STEM CELL
16 LINES. AND THIS IS A VERY SPECIFIC PROGRAMMATIC
17 DECISION.

18 I KNOW WE'RE KIND OF -- I SEE. I SEE THE
19 ATTORNEY LOOKING FOR CONFLICTS. BUT, YOU KNOW, YOU
20 NEED TO KIND OF TAKE THESE FROM A PURE PROGRAMMATIC
21 POINT OF VIEW AND ASK YOURSELF ARE THERE ENOUGH
22 DISEASE -- I DON'T THINK I'M CONFLICTED ON THESE.
23 IF I AM, I'M IN TROUBLE. BUT PHILOSOPHICALLY, IF
24 THE DISEASES THAT ARE -- IN THIS CATEGORY IF THERE'S
25 A SENSE THAT THERE'S ENOUGH LINES AVAILABLE FOR

BARRISTERS' REPORTING SERVICE

1 RESEARCH AND BEING CREATED FOR RESEARCH IN THESE, I
2 THINK THAT'S PART OF WHAT YOU HAVE TO LOOK AT.

3 CHAIRMAN KLEIN: SO --

4 MR. SHEEHY: BECAUSE THESE ARE CREATING
5 DISEASE MODELS USING IPS, AND THERE JUST WASN'T A
6 LOT OF -- YOU KNOW, THERE ARE A LOT OF IPS THINGS IN
7 THE TOP TIER, SO IT WASN'T LIKE THEY LOOKED AT THESE
8 AND SAID, OH, WE'RE DOING SOMETHING REALLY GROOVY
9 WITH IPS. I WANT TO DO THIS. THE QUESTION IS DO
10 YOU NEED ANOTHER ONE THAT'S KIND OF ME-TOO IPS BUT
11 IS PROVIDING SOMETHING FOR A DISEASE? AND IF WE SEE
12 HUNTINGTON'S DISEASE AS ONE THAT'S MENTIONED, DO WE
13 NEED MORE HUNTINGTON'S DISEASE STEM CELL LINES? AND
14 THAT IS REALLY THE QUESTION THAT THEY'RE ASKING US
15 TO MAKE PROGRAMMATICALLY.

16 CHAIRMAN KLEIN: SO IN --

17 MR. SHEEHY: IT'S NOT LIKE THE QUALITY IS
18 REALLY BAD. IT'S JUST NOT THAT GREAT. IT'S NOT
19 THAT COOL. THAT'S THE POINT.

20 CHAIRMAN KLEIN: IT COULD BE GOOD SCIENCE,
21 BUT NOT INNOVATIVE SCIENCE THAT FURTHERS KNOWLEDGE,
22 BUT IT IS PROVIDING OTHER CELL LINES WHICH MAY HAVE
23 VALUE IN AND OF ITSELF FOR PROGRAMMATIC REASONS.

24 DUANE. AND LET'S BE VERY CAREFUL IN THIS
25 DISCUSSION THAT WE'RE TALKING GENERALLY ABOUT POLICY

BARRISTERS' REPORTING SERVICE

1 BECAUSE WE WANT TO MAKE SURE THAT WE'RE NOT CREATING
2 INADVERTENT CONFLICT.

3 MR. ROTH: SO MY QUESTION IS A VERY
4 GENERAL QUESTION TO THE GROUP. AND THAT DEALS WITH
5 WHAT I HEARD DESCRIBED AS THE CRITERIA FOR THE
6 REVIEW PROCESS. YOU KNOW, THAT SCIENCE CERTAINLY
7 WAS THERE, BUT THE POTENTIAL FOR COMMERCIALIZATION
8 OR ADVANCING TOWARDS COMMERCIALIZATION WAS CLEAR.

9 AND IN THIS DISCUSSION THAT WE'VE BEEN
10 HAVING, IT WAS SORT OF ALL ABOUT THE SCIENTIFIC
11 REVIEW. AND MY QUESTION IS SIMPLY HOW MUCH
12 CONSIDERATION WAS REALLY GIVEN TOWARDS DOES THIS
13 ADVANCE TOWARDS COMMERCIALIZATION?

14 CHAIRMAN KLEIN: I WOULD SAY THE PEER
15 REVIEW DID NOT HAVE THE REPRESENTATION THAT WOULD
16 HAVE MADE THAT A MORE SIGNIFICANT CONSIDERATION.
17 THE PEER REVIEW HAD GREAT SCIENTIFIC REPRESENTATION,
18 BUT I THINK DR. TROUNSON AND DR. OLSON MAY HAVE
19 DIFFERENT -- MAY HAVE A GREATER LEVEL OF KNOWLEDGE
20 TO COMMENT ON THAT AS TO THE BACKGROUND OF THE
21 DISTRIBUTION OF THE MEMBERS OF THE PEER REVIEW
22 PANEL.

23 DR. TROUNSON: SO I THINK, MR. CHAIRMAN, A
24 LOT OF THIS IS VERY EARLY STAGE, AND SO IT'S THE
25 PREPARATION, IN FACT, OF THE CELL LINES. THEY MAY

BARRISTERS' REPORTING SERVICE

1 WELL BE COMMERCIALIZED AS REAGENTS, DUANE, MAYBE
2 ADOPTED FAIRLY QUICKLY AS REAGENTS, BUT THE
3 REVIEWERS NOTED THAT, YOU KNOW, COMMON MAYBE TO ALL
4 OF THE LINES THAT THEY'VE GOT A REAGENT VALUE. SOME
5 OF THEM ALSO POINTED AT THE EVENTUAL DEVELOPMENT OF
6 SMALL MOLECULES INVOLVED IN THAT, AGAIN, VERY EARLY
7 STAGE AT THIS POINT. YOU KNOW, IT'S VERY DIFFICULT
8 TO PREDICT THE OUTCOME.

9 SO THERE WASN'T REALLY A LOT OF -- YOU
10 KNOW, WE WEREN'T IN THE SPACE WHERE YOU COULD MAKE
11 ANY REMARKABLE CONCLUSIONS ON THE COMMERCIAL VALUE.
12 THEY ALL HAVE SOME COMMERCIAL VALUE DEPENDING ON
13 WHAT THEY'RE USED FOR.

14 CHAIRMAN KLEIN: AND, DR. OLSON, DO YOU
15 WANT TO COMMENT ON THAT IN ADDITION?

16 MR. ROTH: WHILE SHE'S GOING UP, ALAN,
17 JUST TO FOLLOW UP ON THAT, IT WASN'T SO MUCH
18 COMMERCIALIZATION OF THE CELL LINES, BUT HOW MUCH
19 CONSIDERATION OR HOW MUCH DISCUSSION ACTUALLY
20 HAPPENED THAT WOULD TALK ABOUT DOES THIS ADVANCE US
21 TOWARDS THE CLINIC IN ANY WAY, MEANINGFUL WAY?

22 DR. TROUNSON: ADVANCE US TOWARDS THE
23 CLINIC, YOU KNOW, WAS VERY CLEARLY THE CASE. I MEAN
24 THE COMMERCIALIZATION IS MORE DIFFICULT, AS I SAID,
25 BUT THE ADVANCE TOWARDS THE CLINIC IS CLEARLY ONE OF

BARRISTERS' REPORTING SERVICE

1 THE CRITERIA THAT WAS UNDER EVALUATION EACH TIME,
2 YEAH.

3 CHAIRMAN KLEIN: AND I THINK THAT'S, IN
4 FACT, WHY YOU HAVE A PROGRAMMATIC CONSIDERATION HERE
5 BECAUSE OF THE VALUE TO HAVE ADDITIONAL CELL LINES
6 FOR SPECIFIC DISEASES. DR. OLSON.

7 DR. OLSON: I JUST WANTED TO SAY THAT I
8 THINK DR. TROUNSON HAS DONE A GOOD JOB OF
9 SUMMARIZING.

10 CHAIRMAN KLEIN: YOU NEED TO TURN THE MIC
11 ON.

12 DR. OLSON: I JUST WANTED TO SAY THAT DR.
13 TROUNSON, I THINK, HAS DONE A GOOD JOB OF
14 SUMMARIZING I THINK WHERE WE WERE. FOR THOSE
15 APPLICATIONS THAT, YOU KNOW, TALKED ABOUT -- WHAT DO
16 I WANT TO SAY -- COMMERCIAL APPLICATION, EVEN A
17 COMMERCIAL CELL LINE HAS TO HAVE A SCIENTIFIC
18 RATIONALE AND BASIS BEHIND IT AND APPROPRIATE
19 CHARACTERIZATION. SO I THINK THAT THAT WAS
20 ADEQUATELY ADDRESSED.

21 CHAIRMAN KLEIN: OKAY. SO AT THIS POINT
22 I'D LIKE DR. GRIESHAMMER TO GIVE US THE BALANCE OF
23 THE GENERAL SCIENTIFIC CONTEXT FOR OUR DISCUSSION,
24 AND THEN WE ARE GOING TO ADJOURN TO EXECUTIVE
25 SESSION AND DINNER TO TRY AND STAY ON A REASONABLE

BARRISTERS' REPORTING SERVICE

1 SCHEDULE HERE. WE WILL PERHAPS VOTE WITH A GREATER
2 ENTHUSIASM AFTER EATING. BUT, DR. PIZZO, DID YOU
3 WANT TO MAKE A --

4 DR. PIZZO: JUST ONE MORE GENERAL
5 QUESTION. I'M SORRY TO DO THIS, BUT I'M JUST
6 THINKING ABOUT THE POINT THAT SHERRY MADE EARLIER.
7 IF THE SCIENTIFIC ADVISOR OF THE COMMITTEE WASN'T
8 GIVEN A SUM OF MONEY TO GIVE OUT, WOULD THEY HAVE
9 GIVEN OUT THIS MUCH? IN OTHER WORDS, YOU KNOW,
10 THERE ARE TWO WAYS OF DOING IT. I MEAN, YOU KNOW,
11 YOU COULD SORT OF FILL THE POT, OR FOLLOWING
12 SHERRY'S POINTS, THEY WERE JUST GOING TO DO THE VERY
13 BEST. AND I HOPE IT'S THE LATTER.

14 MR. SHEEHY: YEAH. I THINK THEY -- AT
15 LEAST WHAT THEY RECOMMENDED FOR FUNDING, THEY WERE
16 HAPPY TO FUND THAT. BUT THEY -- YOU KNOW, WHERE THE
17 REAL RUB CAME IS THAT ONCE THEY GOT PAST THAT, THEY
18 LOST ENTHUSIASM DRAMATICALLY. SO I THINK THAT'S THE
19 BEST WAY TO DESCRIBE IT. AND SO THEY WERE NOT
20 WILLING TO GO TO OUR TYPICAL CATEGORY 2, WHICH IS
21 FUND IF FUNDS ARE AVAILABLE. AND WHAT THEY HAVE
22 DONE IS BELOW OUR FUNDING LINE, SO THEY WENT AS FAR
23 AS THEY WANTED TO GO AND THEN SAID STOP.

24 CHAIRMAN KLEIN: OKAY. DR. GRIESHAMMER.

25 DR. GRIESHAMMER: EXACTLY. TO SUPPORT

BARRISTERS' REPORTING SERVICE

1 WHAT JEFF JUST SAID, SO THE APPLICATIONS THAT YOU
2 SEE HERE IN TIER 1, THERE ARE 14 APPLICATIONS IN
3 TIER 1. AND THEY ARE -- THE TOTAL FUNDS RECOMMENDED
4 FOR THESE APPLICATIONS IS \$20 MILLION, AND THAT
5 FALLS, INDEED, SHORT OF WHAT WAS ORIGINALLY
6 ALLOCATED FOR THIS RFA.

7 I JUST WANT TO POINT OUT THAT WE HAVE A
8 NICE DISTRIBUTION FOR THE TWO CATEGORIES THAT WE
9 ANTICIPATED. WE HAVE SIX APPLICATIONS THAT PROPOSE
10 RESEARCH IN CATEGORY 1, AND IT'S INDICATED HERE WITH
11 A LITTLE H CAPITAL E FOR HUMAN EMBRYO. AND EIGHT OF
12 THOSE APPLICATIONS IN TIER 1 ARE PROPOSED -- ARE
13 PROPOSING CELL LINE DERIVATION USING OTHER SOURCES
14 OF CELLS.

15 AND THEN, AS HAS ALREADY BEEN DISCUSSED,
16 TIER 2 CONTAINS JUST THESE TWO APPLICATIONS, ONE IN
17 CATEGORY 1 AND THE OTHER ONE THE OTHER CATEGORY.
18 AND THE TOTAL FUNDS REQUESTED FOR TIER 2 ARE CLOSE
19 TO -- A LITTLE BIT ABOVE \$3 MILLION.

20 AND I DO WANT TO POINT OUT ALSO THAT
21 DURING THE PROGRAMMATIC REVIEW, THE GRANTS WORKING
22 GROUP MEMBERS INDIVIDUALLY DISCUSSED EVERY
23 APPLICATION THAT WAS INITIALLY PLACED INTO TIER 2,
24 AND THEY MOVED SOME APPLICATIONS FROM TIER 2 TO TIER
25 1 AND TO TIER 3. AND THESE TWO APPLICATIONS WERE

BARRISTERS' REPORTING SERVICE

1 THE ONES THAT REMAINED IN TIER 2.

2 CHAIRMAN KLEIN: ALL RIGHT. DR. TROUNSON,
3 WOULD YOU ALSO LIKE TO MAKE ANY GENERAL COMMENT
4 BECAUSE OF THE ABSENCE OF SOMATIC CELL NUCLEAR
5 TRANSFER AND THE ISSUES THAT AROSE BECAUSE
6 OF -- PURSUANT TO OUR CURRENT REGULATIONS, THE
7 LIMITATIONS ON ACCESS TO OOCYTES?

8 DR. TROUNSON: THANKS, MR. CHAIRMAN.
9 THERE WAS NO -- THERE WERE NO RECOMMENDED
10 APPLICATION IN THE AREA OF NUCLEAR TRANSFER. AND,
11 YOU KNOW, PARTLY THAT IS -- PARTLY THAT IS A PROBLEM
12 OF VERY STRONGLY PERCEIVED PROBLEM OF ACCESSIBILITY
13 OF HUMAN OOCYTES.

14 AND I DO THINK THIS IS AN ISSUE THIS IS IN
15 FRONT OF THE STANDARDS WORKING GROUP AND WILL BE
16 RESOLVED ONE WAY, EITHER AS IT IS OR IN SOME OTHER
17 WAY. I THINK THE -- I THINK THERE IS -- I THINK
18 THERE'S INTEREST IN THIS SUBJECT, NUCLEAR TRANSFER,
19 BUT I'D HAVE TO SAY THAT I THINK IF WE'RE GOING TO
20 TACKLE THIS SUBJECT, THAT IT WOULD BE REALLY
21 ENHANCE -- THE OPPORTUNITY WOULD REALLY BE ENHANCED
22 BY GETTING THE GROUPS TO WORK TOGETHER AS TEAMS.
23 IT'S REALLY BECAUSE THE ACCESS OF HUMAN OOCYTE
24 MATERIAL WILL BE VERY LIMITED.

25 I THINK THERE'S SOME VERY SPECIAL

BARRISTERS' REPORTING SERVICE

1 EXPERTISE AVAILABLE IN CALIFORNIA AND BY THESE
2 GROUPS, BUT YOU'VE GOT TO TURN IT INTO, YOU KNOW, A
3 GENUINE OPPORTUNITY RATHER THAN ONE WHICH IS JUST
4 SIMPLY HOPEFUL.

5 NOW, I THINK IF YOU -- I THINK WHAT WE
6 WOULD LIKE TO DO WOULD BE TO GO THROUGH THE STAGES
7 WITH THE STANDARDS WORKING GROUP, SEE WHERE WE COME
8 OUT WITH WITH A SENSE OF ACCESS OF HUMAN OOCYTES.
9 IF THAT IS -- IF IT IS POSSIBLE FOR US TO, I THINK
10 THROUGHOUT CALIFORNIA WITH PEOPLE WORKING TOGETHER,
11 ACCESS THE KIND OF NUMBERS THAT WE NEED, THEN I
12 THINK WE NEED, THEN, TO FOCUS ON A VERY SPECIALIZED
13 RFA TO DO THAT AND ASK THE TEAMS TO WORK TOGETHER.
14 I THINK IF WE DO THAT, THEY MAY NOT WANT TO WORK
15 TOGETHER, IF THEY DO WORK TOGETHER, I THINK THEN WE
16 WILL HAVE A MUCH BETTER CHANCE OF GETTING AN
17 OUTCOME. AND I THINK, AGAIN, WE WOULD TAKE SOME
18 VERY PRIME LEADERSHIP IN THIS AREA.

19 I KNOW FROM MY COLLEAGUES OR OUR
20 COLLEAGUES IN THE UK, THEY'RE HAVING A TERRIBLE TIME
21 AT THIS. OUR COLLEAGUES ON THE EAST COAST ARE
22 HAVING A TERRIBLE TIME OF THIS. IT'S ALL BECAUSE
23 THERE'S NO PARTNERSHIPING ARRANGEMENTS OR BECAUSE
24 THEY'RE USING VERY FEW OOCYTE MATERIAL. THEY'RE NOW
25 TRYING TO USE CATTLE EGGS, OTHER SPECIES. THEY'RE

BARRISTERS' REPORTING SERVICE

1 FLOUNDERING. SO I DON'T THINK THAT'S IN OUR
2 INTEREST TO BE LIKE THAT. I THINK WE NEED -- WHEN
3 WE'RE READY TO GO, WE NEED TO GO WITH THE BEST
4 POSSIBLE CHANCE OF AN OUTCOME. AND I WOULD LIKE TO
5 SEE THAT HAPPEN AFTER OUR STANDARDS WORKING GROUP
6 LOOKS AT WHAT WE CAN GENUINELY ACCESS IN TERMS OF
7 HUMAN MATERIAL.

8 AND THEN IF WE CAN SEE IF WE CAN ENCOURAGE
9 OUR COLLEAGUES HERE IN CALIFORNIA TO WORK TOGETHER,
10 I THINK THAT WOULD BE A MUCH BETTER OUTCOME AND MORE
11 LIKELY TO SUCCEED.

12 CHAIRMAN KLEIN: ALL RIGHT. JEFF SHEEHY.

13 MR. SHEEHY: I JUST WANT TO BE CLEAR THAT
14 I THINK WE HAVE -- WE'RE TALKING ABOUT ALTERING A
15 CONSENSUS. THAT'S A CONSENSUS ON OBTAINING OOCYTES,
16 AND I THINK WE SHOULD BE VERY CAREFUL. AND I ALSO
17 AM NOT COMPLETELY CERTAIN THAT THERE'S UNIVERSAL
18 ENTHUSIASM FOR THE TECHNIQUE AMONG THE SCIENTIFIC
19 COMMUNITY, AND THAT MAY HAVE BEEN A REASON WHY THOSE
20 APPLICATIONS DID NOT SCORE AS WELL WHEN WE HAVE IPS
21 TECHNIQUES THAT WORK, THAT CAN GIVE YOU THE SAME
22 SORT OF DISEASE-SPECIFIC CELL LINES.

23 SO I JUST -- YOU KNOW, I THINK THE ETHICAL
24 CONCERNS THAT HAVE BEEN EXPRESSED AND ENSHRINED IN
25 PROP 71 AND SB 1260 ARE REAL. I THINK WE'VE HAD A

BARRISTERS' REPORTING SERVICE

1 VERY GOOD PROCESS UP TO DATE. AT THE STANDARDS
2 WORKING GROUP WE'VE BEEN VERY DELIBERATIVE. BUT
3 JUST BECAUSE SOME SCIENTISTS WANT TO DO SOMETHING
4 DOESN'T MEAN THAT WE SHOULD. SO I WOULD -- THAT'S
5 ALL -- AND SCNT MAY NOT BE THE MAGIC BULLET THAT
6 PEOPLE THINK IT IS. AND WE CAN'T DO IT AND WE CAN
7 DO IPS.

8 CHAIRMAN KLEIN: JEFF, CURRENTLY OUR
9 STANDARDS ARE MORE RESTRICTIVE THAN PROP 71, AND
10 CERTAINLY WE CAN'T CHANGE WHAT'S IN PROP 71, BUT
11 WHATEVER WE DO THERE --

12 MR. SHEEHY: THAT'S YOUR INTERPRETATION.

13 CHAIRMAN KLEIN: THAT'S ABSOLUTELY TRUE.
14 BUT CLEARLY --

15 MR. SHEEHY: PROP 71 GIVES THE
16 STANDARDS -- CONSIDERING THAT THE STANDARDS WORKING
17 GROUP HAS OPERATED CONSISTENT WITH PROP 71, I THINK
18 THAT WHAT IS -- STANDARDS WORKING GROUP HAS DONE AN
19 AMAZING JOB. I'M JUST NOT WILLING TO START PULLING
20 THE CLOTH APART.

21 CHAIRMAN KLEIN: OKAY.

22 MR. SHEEHY: JUST BECAUSE, YOU KNOW, I
23 NEED A LITTLE BIT MORE JUSTIFICATION.

24 CHAIRMAN KLEIN: ABSOLUTELY. BUT I DON'T
25 WANT TO PREJUDGE A DEBATE THAT HAS TO BE THOUGHTFUL,

BARRISTERS' REPORTING SERVICE

1 THOROUGH, AND INVOLVE A BROAD GROUP OF PEOPLE. SO
2 WHATEVER WE DO --

3 MR. SHEEHY: STANDARDS WORKING GROUP IS
4 MEETING AT THE END OF JULY, AND I THINK WE SHOULD
5 LET THAT PROCESS GO FORWARD. I THINK --

6 MS. LANSING: AS CO-CHAIR I WOULD ACTUALLY
7 LIKE TO SECOND THAT.

8 CHAIRMAN KLEIN: I COMPLETELY AGREE. I
9 COMPLETELY AGREE.

10 SO THERE ARE TWO INDIVIDUALS HERE THAT
11 IT'S MY UNDERSTANDING WANT TO MAKE COMMENTS RELATED
12 TO THIS ROUND OF APPLICATIONS FROM THE PUBLIC. AND
13 THEY HAVE TIME CONSTRAINTS THAT ARE FAIRLY
14 SIGNIFICANT. THEY EACH HAVE THREE MINUTES. LET ME
15 ASK THE QUESTION WHETHER THOSE INDIVIDUALS WANTING
16 TO MAKE A COMMENT NOW, OR WHETHER THEY WANT TO MAKE
17 A COMMENT LATER AT THE TIME ANY PARTICULAR GRANT
18 THAT THEY'RE CONCERNED WITH COMES UP. SO THE
19 QUESTION IS --

20 MR. REED: TWO COMMENTS. FIRST, IT SEEMS
21 TO ME WE MIGHT WANT TO HAVE SOMETHING LIKE WE DID
22 FOR THE COMPUTER INDUSTRY, WHICH WAS AN INCUBATOR
23 PROGRAM TO HELP THE NEW GROUPS GET STARTED,
24 MELLENCOMP INDUSTRIES OF TOMORROW. PERHAPS A
25 ONE-DAY WORKSHOP ON HOW TO DO A GRANT TO FIT THE

BARRISTERS' REPORTING SERVICE

1 REQUIREMENTS MIGHT BE USEFUL.

2 SECONDLY, AND I APOLOGIZE, THIS IS NOT
3 WHAT YOU'RE ON, BUT I HAVE TO -- I'M BEING DRAGGED
4 KICKING AND SCREAMING TO DISNEYLAND, AND I HAVE TO
5 LEAVE. I APOLOGIZE. BUT SENATE BILL 1565, THE LAST
6 HEARING IS COMING UP SOON. IT WILL PROBABLY BE THE
7 9TH, BUT WE DON'T KNOW THAT FOR SURE.

8 I'VE BEEN TO VISIT EACH MEMBER OF THE NEXT
9 COMMITTEE GROUP, AND THE LEVEL OF UNDERSTANDING, AT
10 LEAST AMONG THE STAFF, VARIES WILDLY. ONE STAFFER
11 TOLD ME TO HIS KNOWLEDGE, STEM CELL RESEARCH WAS
12 ILLEGAL IN CALIFORNIA. OKAY. BEAR IN MIND THAT
13 THE -- ONE OF THE PROCESSES THAT THEY'RE BEGINNING,
14 WHICH IS UNNECESSARY BECAUSE IT CAN BE DONE WITHOUT
15 A LAW, IS THE LITTLE HOOVER COMMISSION, BUT IT IS
16 NOT JUST AN EXAMINATION. IT IS ALSO TO RECOMMEND
17 AND DESCRIBE AND BEGIN TO ENACT LEGISLATION TO MAKE
18 THE CHANGES, AMONG WHICH THEY SPECIFICALLY MENTION
19 THE CONFLICTS OF INTEREST OF THIS BOARD.

20 TO MY MIND, WHAT WE HAVE HERE IS A
21 CONVERGENCE OF EXPERTISE, AND I WOULD BE TERRIBLY
22 UPSET IF THIS WAS TO BE REMOVED AND REPLACED BY
23 POLITICAL APPOINTEES. THIS MUST BE FOUGHT. I KNOW
24 THAT YOU'RE GOING TO TALK ABOUT THIS TOMORROW, BUT,
25 FOLKS, EVERY PERSON IN THIS ROOM, IF I COULD HAVE MY

BARRISTERS' REPORTING SERVICE

1 WAY, WOULD BE UP THERE TALKING TO THIS NEXT PERSON.
2 SENATOR LENO OR ASSEMBLYMAN LENO IS A REASONABLE
3 MAN, BUT THEY MUST UNDERSTAND WHAT IS AT STAKE HERE.

4 RIGHT NOW EVERY COMMITTEE HEARING HAS BEEN
5 LOST TO OUR SIDE. THERE HAS NOT BEEN ONE VOTE
6 THAT'S BEEN CAST ON OUR SIDE SO FAR. THEY DO NOT
7 UNDERSTAND. THANK YOU.

8 CHAIRMAN KLEIN: THANK YOU VERY MUCH. THE
9 ADDITIONAL COMMENT, AND LET'S TRY AND KEEP IT VERY
10 SHORT, JOHN SIMPSON.

11 MR. SIMPSON: JOHN SIMPSON FROM CONSUMER
12 WATCHDOG. A QUICK QUESTION. THIS WAS, I THINK, THE
13 FIRST RFA THAT ALLOWED COMPANIES TO APPLY. MY
14 QUESTION IS ARE ANY OF THE TIER 1 GRANTS BEING
15 RECOMMENDED TO COMPANIES?

16 CHAIRMAN KLEIN: WITHOUT -- WE'RE GOING TO
17 JUDGE THESE ALL ON A SCIENTIFIC BASIS. AND WITHOUT
18 PREJUDICING THE REVIEW, I THINK THAT THE INTENT WAS
19 NOT TO GO THROUGH THAT DISCLOSURE AT THIS TIME. WE
20 WANT TO HAVE AN UNBIASED AWARD. IS THAT A CORRECT
21 STATEMENT, DR. OLSON?

22 DR. OLSON: THAT IS A CORRECT STATEMENT.
23 THOSE RESULTS WILL BE MADE AVAILABLE WHEN THE BOARD
24 HAS MADE ITS DECISIONS.

25 CHAIRMAN KLEIN: OKAY. BUT WE'RE EXCITED

BARRISTERS' REPORTING SERVICE

1 TO HAVE COMPANIES IN THE COMPETITION.

2 IS THERE SOMEONE ELSE WHO NEEDS TO MAKE A
3 COMMENT ON CELL LINES AT THIS TIME AS VERSUS AT A
4 LATER TIME ON CELL LINES?

5 MR. WOLCOTT: MR. CHAIRMAN, THANK YOU FOR
6 TAKING MY COMMENTS. I WILL ASK YOU THIS. I'M NOT
7 SURE WHAT YOUR AGENDA IS IN TERMS OF RETURNING FROM
8 DINNER, BUT IF -- I MIGHT BE ABLE TO STAY.

9 CHAIRMAN KLEIN: WE'RE GOING TO RETURN IN
10 ABOUT AN HOUR.

11 MR. WOLCOTT: I'M SORRY?

12 CHAIRMAN KLEIN: IT'S ABOUT AN HOUR FOR
13 DINNER, AND WE'LL BE IN EXECUTIVE SESSION DURING
14 THAT TIME.

15 MR. WOLCOTT: OKAY. THEN I BETTER SPEAK
16 NOW. I STAND IN A PRECARIOUS PLACE BECAUSE I'M
17 BETWEEN YOU AND DINNER. OKAY. GOOD. YES, I WILL.
18 LET ME INTRODUCE MYSELF, AND MY GOAL IS TO TELL YOU
19 A LITTLE BIT ABOUT OUR EXPERIENCE WITH EXACTLY THIS
20 SUBJECT MATTER. AND IN PARTICULAR, I'VE BEEN A
21 LITTLE BIT MORE EDUCATED NOW ABOUT SCNT. BEFORE I
22 CAME TO THIS MEETING, I DIDN'T QUITE UNDERSTAND THAT
23 ISSUE AS WELL AS I DO NOW.

24 AND ALSO I'D LIKE TO ALSO MAKE SOME
25 SUGGESTIONS ABOUT THE CELL LINE PROCESS AS AN

BARRISTERS' REPORTING SERVICE

1 EXAMPLE.

2 SO, FIRST OF ALL, MY NAME IS KEN WOLCOTT,
3 AND I AM THE CHIEF BUSINESS OFFICER OF CASCADE LIFE
4 SCIENCES, A STEM CELL COMPANY IN SAN DIEGO. AS
5 BACKGROUND, I AM NOT A SCIENTIST. I'M A LAWYER.
6 AND I DEFER TO THE SCIENTISTS IN MUCH OF THIS AREA,
7 BUT I DO KNOW THAT THERE'S A PARTICULAR LAWYER HERE
8 AT THE TABLE THAT MADE A BIG DIFFERENCE IN SCIENCE,
9 SO I FEEL FAIRLY COMFORTABLE TALKING ABOUT STEM
10 CELLS.

11 I SPENT 20 YEARS IN THE BIOTECH INDUSTRY.
12 I'M WITH A FOR-PROFIT ORGANIZATION. I AM VERY
13 GRATEFUL THAT CIRM IS CONSIDERING GRANTING -- GIVING
14 GRANTS TO FOR-PROFIT ORGANIZATIONS. AND I WANTED
15 TO, YOU KNOW, SAY THAT IF I READ THE WEBSITE
16 CORRECTLY, AND I READ PROP 71 AND I'VE READ THE
17 MATERIALS, A FOR-PROFIT ENTERPRISE AND CIRM ARE VERY
18 COMPATIBLE. WE ALL NEED AT THE END OF THE DAY
19 PRODUCTS THAT WILL HELP PEOPLE.

20 AND WITH THAT IN MIND, WHEN WE RECEIVED
21 THE RFA TO -- FOR THE CELL LINE DEVELOPMENT RFA, IT
22 WAS OUR FIRST REAL OPPORTUNITY AS A FOR-PROFIT TO
23 PARTICIPATE WITH CIRM. WE WERE VERY PLEASED TO SEE
24 THAT IN PARTICULAR SCNT WAS A STATED GOAL OF CELL
25 LINE DEVELOPMENT. WE LICENSE THIS TECHNOLOGY

BARRISTERS' REPORTING SERVICE

1 EXCLUSIVELY FROM UNIVERSITY OF OREGON. AND IN
2 NOVEMBER OF 2007, IT WAS PUBLISHED IN *NATURE* AS THE
3 FIRST SUCCESSFUL CLONING OF PRIMATES WITH SCNT.

4 AND FROM A BUSINESS STANDPOINT, NOT FROM A
5 SCIENTIFIC STANDPOINT, THE NATURAL QUESTION WHEN WE
6 WERE OUT THERE TRYING TO RAISE MONEY WAS THERE'S NOT
7 A LOT OF MONEY IN TREATING PRIMATES. YOU NEED TO BE
8 AT THE HUMAN LEVEL. AND SO OUR NEXT LOGICAL GOAL
9 FROM A BUSINESS STANDPOINT WAS TO TRANSLATE THE
10 PRIMATE RESEARCH TO HUMAN RESEARCH.

11 WHEN WE GOT THE RFA, IT SEEMED VERY CLEAR
12 THAT THAT WAS A GOAL THAT WAS SHARED BY THIS
13 COMMITTEE. OUR EXPERIENCE WITH THAT WAS A LITTLE
14 BIT DIFFERENT UNFORTUNATELY. WE SUBMITTED AN
15 APPLICATION, AND ONE OF THE COMMENTS, THERE WERE
16 MANY COMMENTS, BUT I'LL TRY TO BE BRIEF. ONE OF THE
17 COMMENTS WAS WE CAN'T FUND THIS BECAUSE IT LACKS ANY
18 NOVELTY TO GO FROM PRIMATES TO HUMANS.

19 AND THAT REALLY CONCERNS ME AS A PROCESS
20 BECAUSE IN MY READING OF YOUR OWN PAPERS AND
21 ACTUALLY UTA -- HI -- ACTUALLY WHEN I WAS LISTENING
22 TO HER PRESENTATION, ONE OF THE THINGS THAT YOU SAID
23 WAS THAT NOVELTY WAS NOT NECESSARILY THE HIGHEST
24 CRITERIA. SO I HAVE A CONFLICT IN THAT I'M READING
25 YOUR RFA AND I'M HEARING YOUR PRESENTATION; BUT WHEN

BARRISTERS' REPORTING SERVICE

1 WE GOT OUR SCORE BACK AND WE GOT OUR COMMENTS BACK,
2 ONE OF THE THINGS THAT STRUCK ME AS A LAWYER, NOT AS
3 A SCIENTIST, WAS THERE'S NO NOVELTY TO GO FROM
4 PRIMATES TO HUMAN.

5 AND SO AS A CONSEQUENCE, WE WEREN'T
6 FUNDED. AND I'M NOT HERE TO ARGUE EACH INDIVIDUAL
7 POINT OF THAT, BUT WHAT I'D LIKE TO SUGGEST IS ONE
8 OF THE THINGS THAT IS TROUBLING IS WE BELIEVE THAT
9 THE REVIEWERS IN THIS CASE SIMPLY DIDN'T READ OUR
10 APPLICATION VERY CAREFULLY, IF AT ALL IN SOME
11 SENSES, APPLIED A VERY HIGH STANDARD SCIENTIFICALLY
12 TO OUR WORK, WHICH IS APPROPRIATE; BUT TO SUGGEST
13 THAT GOING FROM PRIMATE TO HUMAN WHERE WE CAN GET
14 PLENTY OF FUNDING FOR PRIMATE WORK, BUT THE CIRM'S
15 MISSION AND ITS GOAL IS TO FUND HUMAN WORK. AND IT
16 SEEMED LIKE A LOGICAL TRANSITION TO US.

17 HAVING SAID THAT, I KNOW THIS DOESN'T
18 PROVIDE FOR PROCEDURE FOR THIS; BUT, YOU KNOW, WHEN
19 WE APPLY AT NIH OR SBIR OR STTR GRANTS, THERE'S A
20 PROCESS BY WHICH YOU GET YOUR COMMENTS. IF THERE'S
21 A MISUNDERSTANDING OR A MISCOMMUNICATION, YOU CAN
22 RESPOND BACK. AND SO I'M SUGGESTING THE COMMITTEE
23 MIGHT CONSIDER A LITTLE BIT OF A DIALOGUE BETWEEN
24 THE APPLICANTS AND THE REVIEWERS.

25 SECONDLY, WHEN I LOOKED AT THE VERY

BARRISTERS' REPORTING SERVICE

1 DISTINGUISHED LIST OF YOUR REVIEWERS, AND IT WAS ON
2 YOUR WEBSITE, IT JUST SIMPLY SHOWED THEIR
3 AFFILIATIONS, SO I'M OPERATING A LITTLE BIT IN THE
4 DARK. I DIDN'T SEE ANYONE THAT HAD ANY COMMERCIAL
5 AFFILIATION. NOW, THEY MAY HAVE COMMERCIAL
6 BACKGROUND FROM OTHER ACTIVITIES.

7 CHAIRMAN KLEIN: I APPRECIATE YOUR
8 COMMENTS. WE NEED TO APPROPRIATELY LIMIT EVERYONE'S
9 COMMENTS. SO --

10 MR. WOLCOTT: SO I GUESS MY POINT IS, LET
11 ME CLOSE BY SAYING, OUR EXPERIENCE WAS VERY
12 DIFFERENT THAN OUR EXPECTATION BASED ON THE THINGS
13 THAT WERE PRESENTED TO US FROM YOUR COMMITTEE OR
14 FROM YOUR STAFF. AND NOW I'VE HEARD A DIFFERENT
15 REASON WHY SCNT MAY NOT BE FAVORABLE, BUT THAT
16 WASN'T WHAT WAS PRESENTED TO US AS A REVIEW COMMENT.
17 AND SO WE'RE JUST A LITTLE DISMAYED ABOUT THE
18 PROCESS, AND WE HOPE PERHAPS THERE'S ANOTHER
19 OPPORTUNITY WHEN YOU ADDRESS THE ISSUES YOU
20 SUGGESTED JUST A FEW MINUTES AGO, THAT THERE WOULD
21 BE ANOTHER OPPORTUNITY TO DO A GRANT IN SCNT, BUT IT
22 WASN'T CLEAR TO US THAT THAT'S -- THAT WAS THE
23 PROGRAM THAT WE WERE APPLYING FOR.

24 CHAIRMAN KLEIN: I THINK IT'S VERY
25 IMPORTANT THAT WE HAVE AND OUR REVIEWERS HAVE TO

BARRISTERS' REPORTING SERVICE

1 REMAIN ABSOLUTELY TRUE TO THE STANDARDS WE HAVE IN
2 PLACE AT THE TIME. AND WE HAVE TO BE VERY CAREFUL,
3 AS JEFF SHEEHY INDICATED, IN OBSERVING THE CONSENSUS
4 BECAUSE IT'S VERY THOUGHTFULLY PUT TOGETHER. AND SO
5 I THINK GENERALLY, AS DR. TROUNSON INDICATED,
6 EFFECTIVE SCNT APPLICATIONS, WE HAVE TO MOVE
7 THOUGHTFULLY AND WITH FULL CONSENSUS. BUT THERE
8 ARE -- WE DON'T REALLY WANT TO GET INTO THE FULL
9 REVIEW AT THIS TIME.

10 MR. WOLCOTT: I UNDERSTAND. I UNDERSTAND.
11 JUST PROCESSWISE, WE WOULD LIKE TO HAVE A BETTER
12 UNDERSTANDING GOING IN AND PERHAPS A DIALOGUE WITH
13 THE REVIEWERS.

14 CHAIRMAN KLEIN: RIGHT.

15 MR. WOLCOTT: I THANK YOU.

16 CHAIRMAN KLEIN: THANK YOU VERY MUCH. ALL
17 RIGHT. SO, DR. GRIESHAMMER, WERE YOU ABLE TO
18 COMPLETE THE ITEMS THAT YOU WANTED TO PRESENT TO US?

19 DR. GRIESHAMMER: WE WERE.

20 CHAIRMAN KLEIN: YOU WERE. ALL RIGHT. SO
21 AT THIS POINT I'D LIKE TO ADJOURN INTO EXECUTIVE
22 SESSION IF, MR. HARRISON, YOU WANT TO CITE THE
23 PROVISIONS UNDER WHICH WE WILL ADJOURN FOR EXECUTIVE
24 SESSION.

25 MR. HARRISON: YES. WE'LL BE GOING INTO

BARRISTERS' REPORTING SERVICE

1 CLOSED SESSION FOR DISCUSSION OF CONFIDENTIAL
2 INTELLECTUAL PROPERTY OR WORK PRODUCT AND
3 PREPUBLICATION CONFIDENTIAL SCIENTIFIC RESEARCH OR
4 DATA UNDER HEALTH AND SAFETY CODE SECTION
5 125290.30(D), PARAGRAPHS (3)(B) AND (C).

6 CHAIRMAN KLEIN: THANK YOU VERY MUCH.

7 DR. POMEROY: BOB, CAN I ASK YOU A
8 QUESTION?

9 CHAIRMAN KLEIN: DR. POMEROY.

10 DR. POMEROY: CAN JAMES CLARIFY FOR US THE
11 CONFLICT OF INTEREST SITUATION AND WHO CAN COMMENT
12 PUBLICLY AND WHAT WE CAN DO IN THE CLOSED SESSION?

13 MR. HARRISON: SURE. YOU ALL HAVE A LIST
14 IN FRONT OF YOU OF THE APPLICATIONS IN WHICH YOU
15 HAVE AN INTEREST; AND YOU MUST, THEREFORE, ABSTAIN
16 FROM PARTICIPATING IN ANY DISCUSSION OF THOSE
17 APPLICATIONS. SO TO THE EXTENT IN CLOSED SESSION A
18 PARTICULAR APPLICATION IS BEING REVIEWED IN WHICH
19 YOU HAVE AN INTEREST, YOU CAN'T PARTICIPATE IN THAT.

20 ONCE WE GET BACK INTO OPEN SESSION, AT THE
21 OUTSET OF THE DISCUSSION WITH RESPECT TO ANY
22 APPLICATION, WE WILL ANNOUNCE THE NAMES OF THOSE
23 MEMBERS WHO CAN'T PARTICIPATE, AS A REMINDER, AND
24 WE'LL FOLLOW THE SAME PROCESSES WE'VE USED IN THE
25 PAST.

BARRISTERS' REPORTING SERVICE

1 DR. POMEROY: SO WE CAN REVIEW THE OTHERS?

2 THE REPORTER: I'M SORRY.

3 MR. HARRISON: CORRECT.

4 CHAIRMAN KLEIN: WE CAN REVIEW THE ONES
5 THAT ARE NOT IN SESSION. AND WITHIN EXECUTIVE
6 SESSION, FOR THE BENEFIT OF THE PUBLIC, WE HAVE A
7 MONITORING SYSTEM TO ENSURE THAT NO ONE IS SITTING
8 INTO A CLOSED EXECUTIVE REVIEW OF ANY APPLICATION IN
9 WHICH THEY HAVE A CONFLICT. THEY ARE FIRST CLEARED
10 TO GO INTO THAT DISCUSSION WITH THE STAFF MEMBER,
11 AND THEN THE STAFF MEMBER MONITORS THE FACT THAT
12 ONLY THOSE PEOPLE WITHIN THAT REVIEW WHO HAVE NO
13 CONFLICTS CAN EVEN SIT AND LISTEN TO THE REVIEW.
14 AND OBVIOUSLY NO ONE CAN COME IN AND COMMENT IF THEY
15 HAVE A CONFLICT. SO IT IS A MONITORED PROCESS.

16 SO, MR. HARRISON, ARE WE APPROPRIATELY
17 READY TO ADJOURN TO EXECUTIVE SESSION?

18 MR. HARRISON: YES, WE ARE.

19 (A RECESS WAS TAKEN.)

20 CHAIRMAN KLEIN: DR. TROUNSON, ARE THERE
21 ANY MORE GENERAL COMMENTS THAT YOU WOULD LIKE THE
22 SCIENTIFIC STAFF TO MAKE BEFORE WE GO THROUGH THE
23 SPECIFIC REVIEW?

24 DR. TROUNSON: NO. I THINK THE -- I THINK
25 WHAT I PRESENTED TO YOU EARLIER, THAT THE AREA OF

BARRISTERS' REPORTING SERVICE

1 THE IPS CELLS IS EXTREMELY INTERESTING, AND I THINK
2 IS REFLECTED IN THE INTERESTS IN THE GENERAL
3 SCIENTIFIC COMMUNITY. AND WE WOULD EXPECT TO BE
4 INCREASING, I GUESS, MORE WORK IN THAT AREA, SO I
5 THINK THAT'S REFLECTIVE. I THINK THE ISSUES OF
6 NUCLEAR TRANSFER STILL REMAINS A LITTLE PROBLEMATIC,
7 BUT IT'S STILL INTERESTING, I FEEL, AT THIS STAGE,
8 BUT A LITTLE BIT PROBLEMATIC. AND WE MIGHT NEED TO
9 FIND WAYS TO SOLVE THAT.

10 I THINK, YOU KNOW, THE GENETICALLY
11 AFFECTED EMBRYOS ARE VERY INTERESTING. THERE ARE, I
12 THINK, A NUMBER OF CELL LINES IN DIFFERENT TYPES OF
13 DISEASES, SO SOME PROBABLY NEED TO BE INCREASED.
14 OTHERS ARE PROBABLY SUFFICIENT. BUT, YOU KNOW,
15 THERE'S A FAIR VARIANCE OF ALL OF THESE THINGS.

16 WE ARE TRYING TO SEE IF WE CAN NEGOTIATE
17 GOOD ACCESS TO SOME OF THE GENETICALLY ABNORMAL ES
18 CELL LINES TO ENABLE OUR COLLEAGUES, SCIENTIFIC
19 COLLEAGUES, TO ACCESS AT REASONABLE, VERY REASONABLE
20 RATES IN LARGE NUMBERS. SO, YOU KNOW, WE'RE KIND OF
21 MOVING TO TRY AND HELP THE GENERAL SCIENTIFIC
22 COMMUNITY HERE TO MOVE ON IN THIS AREA.

23 CHAIRMAN KLEIN: OKAY. THANK YOU VERY
24 MUCH, DR. TROUNSON.

25 SO AS WE GO INTO THE CONSIDERATION OF THE

BARRISTERS' REPORTING SERVICE

1 CELL LINES, JEFF, HOW WOULD YOU LIKE TO PROCEED?

2 WOULD YOU LIKE THE CHART UP ON THE SCREEN?

3 MR. SHEEHY: YES. I THINK THAT'S A GOOD
4 START. MAYBE -- YOU KNOW, TYPICALLY WE START OFF
5 WITH THE HISTOGRAM AND TRY TO CHOP A FEW OFF THE TOP
6 AND OFF THE BOTTOM, BUT I THINK WE'VE LOST THE
7 HISTOGRAM.

8 DR. OLSON: WE DO NOT HAVE THE SLIDE OF
9 THE HISTOGRAM. WE WILL TRY AND MAKE A POINT
10 OF -- DO WE HAVE IT AT ALL FOR TOMORROW? WE CAN TRY
11 AND GET IT FOR --

12 MR. SHEEHY: I MEAN WE ALREADY HAVE -- YOU
13 KNOW, USUALLY WE USE THAT TO KIND OF GET THE TOP --
14 SOME OF THE TOP TIER OUT OF THE WAY AND SOME OF THE
15 BOTTOM TIER OUT OF THE WAY, I THINK. ISN'T THAT HOW
16 WE USUALLY --

17 DR. OLSON: WE CERTAINLY DO IT IN THE
18 REVIEW MEETING THAT WAY.

19 MR. SHEEHY: I CAN'T REMEMBER.

20 DR. OLSON: WE DON'T INTEND TO DO IT AT
21 THIS MEETING.

22 MR. SHEEHY: SHOULD WE JUST GO ONE BY ONE?

23 CHAIRMAN KLEIN: IN ORDER TO AVOID THE
24 CONFLICT --

25 MR. SHEEHY: YOU WANT TO JUST GO ONE BY

BARRISTERS' REPORTING SERVICE

1 ONE AND JUST MAYBE PUT UP THE CHART, AND WE' LL JUST
2 TAKE MOTIONS ONE BY ONE, WHICH IS FINE.

3 CHAIRMAN KLEIN: YEAH. WE COULD TAKE --
4 MR. HARRISON, WE COULD TAKE A MOTION WITH THOSE
5 MEMBERS VOTING ON THOSE THAT THEY' RE NOT IN CONFLICT
6 WITH.

7 MR. HARRISON: RIGHT. I WAS JUST GOING TO
8 REMIND YOU THAT IN THE PAST WHAT WE' VE DONE IS TO
9 START WITH THE APPLICATIONS IN TIER 3 AND ASK THE
10 BOARD WHETHER ANY MEMBER WOULD LIKE TO MAKE A MOTION
11 TO MOVE AN APPLICATION IN TIER 3 UP TO TIER 1. ONCE
12 THOSE MOTIONS HAVE BEEN EXHAUSTED, WE MOVE TO TIER 2
13 AND FIND OUT WHETHER ANY MEMBERS WOULD LIKE TO MAKE
14 A MOTION TO MOVE AN APPLICATION FROM TIER 2 INTO
15 TIER 1.

16 THEN ONCE THE APPLICATIONS ARE ASSEMBLED
17 IN THE VARIOUS TIERS, WE TAKE A MOTION TO FUND THOSE
18 APPLICATIONS IN TIER 1 OBVIOUSLY WITH MEMBERS
19 ABSTAINING FROM ANY APPLICATIONS IN WHICH THEY HAVE
20 AN INTEREST. AND OBVIOUSLY, IF THERE ARE
21 APPLICATIONS IN TIER 1 THAT MEMBERS WOULD LIKE TO
22 MAKE A MOTION TO MOVE OUT OF TIER 1, THAT' S
23 PERMISSIBLE AS WELL.

24 CHAIRMAN KLEIN: ALL RIGHT. SO, JEFF,
25 WOULD YOU LIKE TO START WITH TIER 3 AS WE HAVE IN

BARRISTERS' REPORTING SERVICE

1 THE PAST AND ASK IF ANY MEMBER WOULD LIKE TO MOVE
2 ANY ONE FROM TIER 3 UP?

3 MR. SHEEHY: SURE. IS THERE ANY
4 INTEREST --

5 DR. PIZZO: COULD YOU JUST REPEAT?

6 MR. SHEEHY: THAT'S OKAY. AFTER A WHILE
7 THIS ALL KIND OF RUNS TOGETHER. YEAH. WELL, IS
8 THERE A MOTION TO MOVE ANYTHING FROM TIER 3 INTO
9 TIER -- ACTUALLY I THINK THE MOTION WOULD BE TO TIER
10 1 BECAUSE I DON'T THINK THERE'S ANY POINT TO BEING
11 IN TIER 2. AND IF NOT --

12 CHAIRMAN KLEIN: IF THERE'S NOT, MAYBE WE
13 COULD ASK IF THERE'S PUBLIC COMMENT ON ANY ITEM IN
14 TIER 3. IS THERE ANY PUBLIC COMMENT ON ANY ITEM IN
15 TIER 3?

16 MR. SHEEHY: AND THEN I THINK THE NEXT
17 QUESTION WOULD BE DO WE WANT TO MOVE ANYTHING IN
18 TIER 1 INTO TIER 3? SO DO WE WANT TO MOVE ANYTHING
19 THAT'S CURRENTLY FUNDED, CURRENTLY GREEN, INTO THE
20 UNFUNDED CATEGORY?

21 AND THEN IF THERE'S NOT, THEN I THINK THE
22 FINAL QUESTION IS THERE ANYTHING IN THE GRAY AREA WE
23 WOULD LIKE TO MOVE EITHER WAY, EITHER INTO THE
24 FUNDED -- WE WILL, THEY'RE ALREADY IN THE
25 NON -- JAMES, YOU MIGHT CLARIFY. THAT'S A NOT

BARRISTERS' REPORTING SERVICE

1 FUNDED CATEGORY AT THIS POINT?

2 MR. HARRISON: THAT'S RIGHT. THAT
3 CATEGORY IS PROVISIONALLY NOT RECOMMENDED FOR
4 FUNDING.

5 MR. SHEEHY: OKAY. THEN WE NEED -- DO WE
6 WANT TO MOVE EITHER OF THOSE APPLICATIONS INTO TIER
7 1, I THINK, IS THE MOTION WE WOULD NEED.

8 CHAIRMAN KLEIN: LEEZA.

9 MR. ROTH: I WOULD MAKE A MOTION WE MOVE
10 THEM BOTH INTO TIER 1.

11 CHAIRMAN KLEIN: IS THERE --

12 MR. HARRISON: FOR THE PURPOSES OF
13 ASSISTING US IN HANDLING CONFLICTS, IF WE COULD
14 HANDLE THOSE ONE AT A TIME, IT MIGHT BE EASIER.

15 MR. ROTH: THAT'S FINE. SO I'LL DO THE
16 HUNTINGTON'S. WHAT NUMBER IS IT?

17 MS. GIBBONS: 678.

18 MR. ROTH: 678. SO I MOVE THAT INTO TIER
19 1.

20 MS. GIBBONS: SECOND.

21 CHAIRMAN KLEIN: AND LEEZA SECONDED.

22 MS. KING: CHAIRMAN KLEIN, THE CONFLICTS
23 FOR THAT ONE ARE BRYANT, LANSING, AND STEWARD.

24 MR. SHEEHY: OKAY. WOULD YOU LIKE A
25 LITTLE DISCUSSION?

BARRISTERS' REPORTING SERVICE

1 MR. ROTH: YES. ON THIS ONE I WOULD LIKE
2 WHOEVER REVIEWED THE PROGRAM TO TELL US AS MUCH AS
3 YOU CAN ABOUT THE REVIEW THAT'S NOT CONTAINED
4 NECESSARILY IN THE BOOK, BUT WHAT THE DISCUSSION WAS
5 BETWEEN THE REVIEWERS AND THE REASON THAT IT'S IN
6 THIS CATEGORY, RECOMMENDING PROGRAMMATIC REVIEW.

7 DR. OLSON: THAT WILL BE -- DR. ASHA NIGH
8 WILL HAVE THAT DISCUSSION.

9 DR. NIGH: SO THIS IS AN APPLICATION TO
10 DERIVE CELL LINES FROM PREIMPLANTATION GENETIC
11 DIAGNOSIS CAN USE THE IPS TECHNOLOGY FOR
12 HUNTINGTON'S DISEASE. AND THE CELLS WILL BE
13 DIFFERENTIATED INTO NEURONS, AND A DISEASE MODEL
14 WILL BE DEVELOPED. AND THE NEURONS WILL THEN BE
15 DIFFERENTIATED IN ORDER TO PROVIDE CELLS THAT MIGHT
16 BE USED FOR TRANSPLANTATION FOR A CELL THERAPY.

17 AND YOU WANTED ME TO GO STRAIGHT INTO THE
18 CRITICISMS; IS THAT CORRECT?

19 MR. ROTH: YEAH. AND ESPECIALLY IT'S AIM
20 NO. 3 THAT SEEMED TO BE -- AIM 1 AND 2 THERE SEEMED
21 LIKE A GREAT AGREEMENT, AND THEN THREE IS WHERE THIS
22 GOT OFF TRACK.

23 DR. NIGH: THAT'S CORRECT. THE REVIEWERS
24 HAD TECHNICAL ISSUES WITH THE AIM, INCLUDING
25 DOUBTING THE ABILITY OF A COLLABORATING COMPANY TO

BARRISTERS' REPORTING SERVICE

1 MAKE A VERY LARGE SHRNA CONSTRUCT WHICH HAD NEVER
2 BEEN DONE BEFORE BY THIS COMPANY. THEY HAVE MADE
3 SIMILAR SHRNA'S, BUT SMALLER. AND CONCERNS THAT THE
4 APPLICANT MIGHT NOT BE ABLE TO PRODUCE A POPULATION
5 OF THE PURE NEURONS REQUIRED.

6 THERE WERE MINOR CONCERNS ABOUT THE SHRNA
7 TECHNOLOGY IN GENERAL, BUT THOSE WERE THE TWO MAIN
8 CRITICISMS.

9 CHAIRMAN KLEIN: OKAY.

10 DR. NIGH: DID YOU WANT TO GO OVER THE
11 STRENGTHS?

12 MS. GIBBONS: I WOULD JUST LIKE FOR US TO
13 STRONGLY CONSIDER THIS ONE. IT SEEMS LIKE THE
14 REVIEWERS FOUND GREAT CONFIDENCE IN THIS TEAM AND
15 THE CREDIBILITY OF THE TEAM, THE EXPERIENCE OF THE
16 TEAM, AND THAT IF WE'RE REALLY GOING TO TAKE A
17 CHANCE ON SOMETHING AS OBLIQUE AS HUNTINGTON'S WITH
18 APPLICATIONS FOR OTHER NEUROLOGICAL --
19 NEURODEGENERATIVE DISEASES, THAT THIS TEAM WOULD
20 SEEM TO HAVE AN AWFUL LOT OF STRENGTH GIVEN THE
21 HOPELESSNESS OF THIS PARTICULAR PROGRAMMATIC AREA.
22 THAT'S WHY IT WAS INTERESTING TO ME.

23 MR. SHEEHY: ANY OTHER COMMENTS?

24 CHAIRMAN KLEIN: I WOULD LIKE -- THERE'S A
25 MEMBER OF THE PUBLIC THAT SPECIFICALLY CAME HERE FOR

BARRISTERS' REPORTING SERVICE

1 THIS ITEM, AND I'D LIKE TO SEE IF STAFF CAN LOCATE.

2 MR. SHEEHY: SHE'S GONE.

3 CHAIRMAN KLEIN: SHE WAS --

4 MS. KING: SHE'S NOT HERE RIGHT NOW. WE
5 CAN TRY AND FIND HER.

6 CHAIRMAN KLEIN: IF WE TRY AND FIND HER,
7 PLEASE. I BELIEVE SHE HEADS THE HUNTINGTON
8 FOUNDATION IN THE SACRAMENTO AREA.

9 AND IN TERMS OF MOVING THE DISCUSSION
10 FORWARD, THOUGH, THERE IS -- LET ME ASK THIS
11 QUESTION. DID THEY BELIEVE THAT THERE WAS A
12 FEASIBILITY TO ACHIEVING PART OF THIS -- THE AIMS OF
13 THIS PROPOSAL?

14 DR. NIGH: THERE -- YES. SO THE -- THE
15 QUESTION OF FEASIBILITY WAS REGARDED IN
16 DIFFERENTIATION. REVIEWERS COMMENTED THAT THIS HAS
17 NOT BEEN ACHIEVED YET AND WAS NOT -- WAS NOT FULLY
18 DESCRIBED IN THE APPLICATION IN A WAY THAT CONVINCED
19 THEM --

20 CHAIRMAN KLEIN: BUT THERE WAS ANOTHER
21 COMMENT AS TO A PORTION OF IT. THEY DID BELIEVE
22 THAT THERE WAS FEASIBILITY WITH THIS TEAM.

23 DR. NIGH: OH, ABSOLUTELY. THERE WAS
24 DEFINITELY -- THERE WAS A FEELING THAT GENERATING
25 THE LINES WOULD NOT BE AN ISSUE FROM EITHER

BARRISTERS' REPORTING SERVICE

1 PREIMPLANTATION GENETIC DIAGNOSIS OR FROM USING IPS.

2 CHAIRMAN KLEIN: OKAY.

3 DR. NIGH: AND THAT THERE WAS VALUE TO
4 THAT, AND THAT WAS THE DISCUSSION OF VALUE TO THE
5 SPECIFIC AIMS 1 AND 2 WAS GENERATING --

6 MS. GIBBONS: MAY WE ASK AS WELL ABOUT THE
7 EXISTENCE OF THE -- OR THE NUMBER OF THE EXISTING
8 CELL LINES ALREADY AND HOW RELEVANT IT MAY OR MAY
9 NOT BE THAT THEY ARE IN CALIFORNIA?

10 DR. NIGH: REVIEWERS COMMENTED THAT THERE
11 WERE ALREADY SEVERAL LINES IN EXISTENCE, UP TO NINE
12 THAT THE REVIEWERS COULD THINK OF, AND THAT THEY
13 WERE FREELY AVAILABLE.

14 CHAIRMAN KLEIN: ARE THEY -- ARE THOSE
15 LINES THAT ARE AVAILABLE IN CALIFORNIA TO THE
16 REVIEWERS IN CALIFORNIA?

17 DR. NIGH: THEY DID NOT DISCUSS WHETHER
18 THEY WERE IN CALIFORNIA OR AVAILABLE TO CALIFORNIA
19 RESEARCHERS, BUT THEY MENTIONED THAT THEY WERE
20 AVAILABLE.

21 CHAIRMAN KLEIN: OKAY.

22 MR. SHEEHY: FOR WHAT IT'S WORTH, I DID
23 HAVE A VERY BRIEF CONVERSATION WITH THE INDIVIDUAL
24 THAT WE'RE WAITING FOR. AND IN THE EVENT THAT SHE
25 CAN'T BE LOCATED, HER EXPERIENCE WAS THAT LINES WERE

BARRISTERS' REPORTING SERVICE

1 NOT AVAILABLE, AT LEAST IN CALIFORNIA, FOR THE
2 RESEARCH THAT WAS GOING ON AND THAT SHE SPECIFICALLY
3 THOUGHT THAT THAT CRITIQUE -- OH, SHE'S HERE. GOOD.
4 SHE CAN ADDRESS IT.

5 CHAIRMAN KLEIN: SO, ASHA, IF YOU WILL
6 REMAIN AVAILABLE, BUT I'D VERY MUCH LIKE TO GET THIS
7 WOMAN'S SPECIFIC INPUT. WHY DON'T YOU TAKE THE
8 STAGE AND GIVE US -- THE SPECIFIC GRANT ON
9 HUNTINGTON'S THAT YOU'RE CONCERNED WITH IS UP, AND
10 YOU HAVE THREE MINUTES TO PRESENT YOUR POSITION. WE
11 WERE TRYING TO, AS A SENSE OF EQUITY AND FAIRNESS,
12 TO PRESENT A COUPLE OF YOUR POINTS, BUT ONLY YOU CAN
13 REALLY APPROPRIATELY ADDRESS THEM.

14 MS. ROBERSON: THANK YOU. I'M SORRY I
15 HELD YOU GUYS UP. I JUST WANTED TO SAY HELLO, AND
16 I'M A PATIENT ADVOCATE FOR HUNTINGTON'S DISEASE.
17 I'M JUDY ROBERSON. I LIVE IN SACRAMENTO, AND I
18 REPRESENT 15,000 PEOPLE IN CALIFORNIA WHO HAVE HD OR
19 ARE AT RISK FOR HUNTINGTON'S. AND I SERVE AS
20 PRESIDENT OF THE NORTHERN CALIFORNIA CHAPTER FOR
21 HUNTINGTON'S DISEASE. AND ALTHOUGH I'M A NURSE,
22 I'VE CHOSEN TO WORK FULL TIME AS A VOLUNTEER FOR HD.

23 SEVENTEEN YEARS AGO MY FAMILY INITIATED
24 THE HUNTINGTON'S CLINIC AT UC DAVIS MEDICAL CENTER.
25 AND TO DATE IT'S ONE OF THE LARGEST HD CLINICS IN

BARRISTERS' REPORTING SERVICE

1 THE U. S.

2 THIS YEAR MARKS A MILESTONE FOR OUR
3 FAMILY. WE'VE GIVEN HALF MILLION DOLLARS TO UC
4 DAVIS FOR THAT CLINIC. SO WE REALLY CARE. WHY I
5 CARE IS MY FAMILY HAS LOST FOUR MEMBERS TO
6 HUNTINGTON'S DISEASE, INCLUDING MY SWEET HUSBAND WHO
7 DIED FOUR YEARS AGO. HE WAS ONLY 51, AND WE HAVE
8 FOUR ADORABLE CHILDREN WHO ARE AT RISK. WE HAVE ONE
9 ILL FAMILY MEMBER RIGHT NOW, AND 17 MEMBERS ARE AT
10 RISK.

11 I JUST HAVE A FEW POINTS TO MAKE. THERE
12 WAS -- THERE'S A CELL LINE PROJECT FOR HUNTINGTON'S
13 DISEASE WHICH SCORED A 69. IT'S RL 100678-1. AND I
14 JUST HAVE A FEW POINTS TO MAKE.

15 THE REVIEW STATED THAT THERE ARE CURRENTLY
16 EIGHT CELL LINES FOR HUNTINGTON'S DISEASE, INCLUDING
17 ICP LINE, BUT THE RESEARCHERS THAT I'VE JUST SPOKEN
18 TO HAVE BEEN SEARCHING, AND THEY CAN ONLY FIND FIVE
19 LINES. AND THERE ARE NO -- I GUESS I'M CALLING IT
20 WRONG -- IPS LINES. THOSE ARE THE FIBROBLASTS. AND
21 THERE ARE THREE MAIN REASONS WHY WE NEED MORE CELL
22 LINES.

23 WE WANT TO LEARN WHY IN ONE FAMILY THE
24 SAME CAG REPEAT CAN PRODUCE DIFFERENT AGES OF ONSET,
25 DIFFERING SYMPTOMS, AND WHY THE COGNITIVE AND CHOREA

BARRISTERS' REPORTING SERVICE

1 SYSTEMS VARIES. FOR INSTANCE, IN MY FAMILY MY
2 HUSBAND'S CAG REPEAT WAS 46. HE HAD ONSET IN HIS
3 30S. HE WAS VERY RIGID AND HE HAD TERRIBLE PSYCH
4 PROBLEMS. HIS BROTHER, JOE, DIED AT 52. HE HAD
5 TERRIBLE CHOREA WITH A LITTLE BIT MORE SOCIAL THAN
6 MY HUSBAND. THEIR SISTER, SUE, SHE'S 52 YEARS OLD,
7 SO SHE'S OUTLIVED SOME OF THE OTHER FAMILY MEMBERS.
8 SHE'S ALIVE AND WALKS AND IS DOING PRETTY GOOD, AND
9 WE DON'T KNOW WHY.

10 SO HAVING MANY CELL LINES COULD HELP
11 ENSURE ALSO THAT MANY -- THAT ANY SMALL MOLECULE
12 THERAPIES THAT WORK, WE WANT THEM TO WORK FOR MOST
13 HD PATIENTS RATHER THAN JUST BEING OVERLY SPECIFIC
14 FOR ONE CELL LINE. IF WE HAD ENOUGH CELL LINES, WE
15 MIGHT BE ABLE TO FIND NEW DRUG TARGETS THAT ARE
16 SPECIFIC FOR COGNITIVE AND MOTOR SYMPTOMS, WHICH ARE
17 BIG PROBLEMS.

18 HD IS DIFFERENT THAN OTHER GENETIC
19 DISEASES BECAUSE THE MUTATION CAN BE DIFFERENT IN
20 EVERY PATIENT. IN JUVENILE HUNTINGTON'S, 10 PERCENT
21 OF OUR CASES ARE JUVENILE. THEY GET THIS DISEASE
22 BEFORE AGE 18. THEIR CAG REPEATS RESULT IN A LONGER
23 AND EARLIER ONSET, AND THEY HAVE REALLY LONG
24 REPEATS, AS HIGH AS -- DOCUMENTED AS HIGH AS 250.
25 COMPARE THAT TO MY HUSBAND AT 46.

BARRISTERS' REPORTING SERVICE

1 SO THERE' S A QUESTION. ARE THESE TWO
2 DIFFERENT DI SEASES, THE ADULT VERSION AND THE
3 JUVENILE HUNTINGTON' S? OR ARE NEW MECHANI SMS
4 INVOLVED? OR IS IT JUST A MORE AGGRESSIVE FORM OF
5 THE ADULT DI SEASE?

6 BUT IF WE HAD A PANEL OF CELL LINES WITH
7 DIFFERENT CAG REPEATS, WE COULD DEVELOP BETTER
8 ASSAYS TO CORRELATE THE LENGTH OF THE CAG EXPANSION
9 AND THE SYMPTOMS. AND SUCH ASSAYS WOULD ADD
10 SIGNIFICANT POWER TO OUR SCREENS TO FIND THERAPIES.

11 SO I AM ASKING FOR YOU TO CONSIDER
12 RESCORING THE 69. WE HAVE NO TREATMENT FOR
13 HUNTINGTON' S. WE DON' T HAVE L-DOPA, WE DON' T HAVE
14 DBS, AND STEM CELLS ARE OUR BIG HOPE. THANK YOU.

15 CHAIRMAN KLEIN: CAN I ASK YOU, AS I
16 UNDERSTAND YOUR POINT, EVEN BEYOND THE POINT OF
17 DIFFERENTIATION BETWEEN JUVENILE AND ADULT, YOU' RE
18 SAYING THAT BETWEEN YOUR HUSBAND, HIS BROTHER, AND
19 HIS SISTER, THE MANIFESTATIONS OF THE DI SEASE ARE SO
20 DIFFERENT --

21 MS. ROBERSON: YES.

22 CHAIRMAN KLEIN: -- THAT YOUR POINT IS IF
23 YOU HAVE MORE CELL LINES AND YOU COULD CROSS COMPARE
24 THEM, THERE MAY BE GENETIC DIFFERENCES THAT GIVE YOU
25 THE CLUES TO UNDERSTAND WHAT FINE POINTS IN THE

BARRISTERS' REPORTING SERVICE

1 GENETIC -- IN THE GENETIC MUTATIONS ARE LEADING TO
2 THESE REMARKABLE DIFFERENCES IN THE MANIFESTATION OF
3 THE DISEASE AND THE SEVERITY. IS THAT YOUR POINT?

4 MS. ROBERSON: YES. AND ALSO THAT THEY
5 HAVE YET TO, BUT THEY WOULD LIKE TO LOOK AT WHAT
6 OTHER GENE MODIFIERS ARE OUT THERE THAT MIGHT BE
7 AFFECTING. WE HAVE SOMEBODY IN OUR SUPPORT GROUP
8 WHO IS ONLY 48 YEARS OLD WITH A VERY LOW REPEAT, 39.
9 SHE MAYBE SHOULDN'T HAVE GOTTEN THIS MAYBE TILL SHE
10 WAS 70. SHE'S VERY SICK. SHE USES A CANE. SHE HAS
11 TERRIBLE COGNITIVE PROBLEMS.

12 WE HAVE SOMEBODY ELSE IN OUR SUPPORT
13 GROUP, A MAN, WHO'S 81, WITH A REPEAT OF 40. HE'S
14 DOING PRETTY GOOD. SO HERE WE ARE JUST WHEN WE
15 THINK WE'VE KIND OF GOT THIS THING FIGURED OUT WHERE
16 WE'VE GOT AGE OF ONSET AND SEVERITY OF SYMPTOMS
17 LINKED WITH THE REPEAT LENGTHS, THESE VARIABLES ARE
18 POPPING UP ALL THE TIME. SO WE'D LOVE TO UNDERSTAND
19 IT BETTER, AND I HAVE A FEELING WE CAN DO IT IS WITH
20 MORE CELL LINES.

21 CHAIRMAN KLEIN: OKAY.

22 MS. ROBERSON: OH, CAN I MAKE JUST ONE
23 MORE COMMENT? THERE WAS A MAN EARLIER WHO SPOKE
24 ABOUT WISHING THAT THERE WOULD BE SOME KIND OF
25 REBUTTAL PROCESS AFTER THEY GOT THE RESULTS BACK

BARRISTERS' REPORTING SERVICE

1 FROM THIS. AND I THOUGHT ABOUT THAT. I KIND OF
2 LIKE THAT IDEA BECAUSE FOR US OUR RESEARCHERS HAD NO
3 WAY TO GIVE YOU FEEDBACK THAT, HEY, WE'VE SEARCHED.
4 YOU GUYS SAY WE HAVE EIGHT CELL LINES, BUT WE CAN'T
5 FIND THEM. WE CAN ONLY FIND FIVE. AND YOU SAY WE
6 HAVE FIBROBLAST STEM CELLS. WE DON'T HAVE ANY.

7 SO, ANYWAY, MAYBE THAT'S SOMETHING YOU
8 GUYS CAN TAKE UNDER CONSIDERATION. THANK YOU SO
9 MUCH.

10 CHAIRMAN KLEIN: THANK YOU VERY MUCH.

11 MR. ROBERSON: ONE LAST THING. NEXT TIME
12 I PAY MY STATE TAXES, I WON'T COMPLAIN SO MUCH
13 BECAUSE I THINK OUR MONEY IS DOING GOOD WORK HERE.
14 THANK YOU.

15 CHAIRMAN KLEIN: THANK YOU. ALL RIGHT.
16 ADDITIONAL COMMENTS BY THE BOARD? DR. PIZZO.

17 DR. PIZZO: I JUST WANT TO SEE IF I CAN
18 JUST CLARIFY AT LEAST FOR MYSELF ONE FACTOR. AND
19 THAT IS THE CONCERN THAT WAS RAISED, AS I HEARD IT
20 EXPRESSED, WAS WITH REGARD TO THE FEASIBILITY FOR
21 AIM 3, WHICH IS REALLY A PRETTY BOLD, AMBITIOUS AIM
22 THAT MIGHT BE A WHOLE SERIES OF COMPLICATED
23 EXPERIMENTS DONE BY EITHER THIS LAB OR OTHERS.
24 WHEREAS, WHAT WE'RE REALLY TALKING ABOUT IN THE
25 PROPOSAL IS GENERATING CELL LINES THAT COULD BE

BARRISTERS' REPORTING SERVICE

1 STUDI ED.

2 SO I THINK THAT IN A SENSE THERE ARE TWO
3 STANDARDS BEING APPLIED, AND THAT'S MY CONCERN AS
4 I'M NOW HEARING THE DISCUSSION MORE ELUCIDATED,
5 WHICH IS, ON THE ONE HAND, GENERATING CELL LINES,
6 WHETHER IT'S FIVE, EIGHT, 20, I MEAN THERE MAY BE A
7 NEED FOR MULTIPLE CELL LINES AS STUDIES WERE TO
8 EVOLVE SEPARATE FROM ACTUALLY DOING SOMETHING THAT
9 WOULD BE QUITE DRAMATIC. AND THAT IS, QUOTE, CURING
10 THE GENETIC DEFECT. THAT I VIEW AS A WHOLE
11 DIFFERENT KIND OF STUDY. I MEAN THAT'S NOT
12 GENERATING CELL LINES. THAT'S, YOU KNOW, A
13 DISEASE-BASED SPECIFIC SET OF APPROACHES.

14 SO I THINK THAT RAISES A QUESTION IN MY
15 MIND ABOUT WHETHER THE METRIC WE'RE USING IS BEING
16 APPLIED IN THE RIGHT MANNER IN THIS REGARD.

17 CHAIRMAN KLEIN: THANK YOU, DR. PIZZO.
18 ADDITIONAL COMMENTS? SEEING NO ADDITIONAL
19 COMMENTS --

20 DR. LORREY: JUST TO HIGHLIGHT, THESE ONE
21 OR TWO WERE CONSIDERED FEASIBLE.

22 CHAIRMAN KLEIN: THEY WERE CONSIDERED
23 FEASIBLE. OKAY.

24 DR. PIZZO: CAN I JUST TO CLARIFY THAT,
25 THERE ARE -- THE QUESTION ABOUT THE CELL LINES THAT

BARRISTERS' REPORTING SERVICE

1 ARE AVAILABLE, AND I DON'T KNOW WHAT THE RIGHT
2 NUMBER IS BECAUSE I COULD ENVISION, YOU KNOW, THAT
3 YOU MIGHT HIT A HOME RUN WITH ONE CELL LINE OR YOU
4 MAY NEED 20 OR 30 OF THEM. WHAT IS THE STORY WITH
5 REGARD TO THE AVAILABILITY OF THE LINES? THERE ARE
6 FIVE CELL LINES, QUOTE, NOW AVAILABLE. THAT, I
7 THINK, WE HAVE CLARIFIED.

8 CHAIRMAN KLEIN: WELL, THAT'S THE POINT
9 BEING MADE BY THE SPEAKER.

10 DR. PIZZO: EIGHT KNOWN, FIVE AVAILABLE.

11 CHAIRMAN KLEIN: IF WE CAN TAKE ADDITIONAL
12 COMMENT, DR. LORREY.

13 DR. LORREY: I'M SORRY TO INTERRUPT, BUT I
14 JUST LOOKED UP ON PUBMED. I'M JEAN LORREY. I WORK
15 ON HUMAN EMBRYONIC STEM CELLS. AND I USED TO -- I
16 HAVE WORKED ON HUNTINGTON'S DISEASE IN THE PAST AND
17 CHAIRED A STUDY SECTION AT NIH THAT REVIEWED GRANTS.
18 AND I KNOW THAT THREE OF THESE LINES COME FROM ONE
19 GROUP IN CHICAGO, VALINSKY. THOSE LINES ARE NOT
20 AVAILABLE.

21 DR. PIZZO: I SEE.

22 DR. LORREY: AND I HAVEN'T FOUND -- I SEE
23 ONE MORE THAT WAS -- IS AVAILABLE. IT WAS MADE IN
24 BELGIUM. I DON'T KNOW THESE PEOPLE. AND I,
25 FRANKLY, DON'T THINK THERE ARE CELL LINES AVAILABLE.

BARRISTERS' REPORTING SERVICE

1 DR. PIZZO: OKAY.

2 DR. LORREY: I COULD ONLY FIND FOUR, AND I
3 WOULDN'T CHOOSE THREE OF THEM.

4 DR. PIZZO: OKAY. I MEAN IN PRINCIPLE
5 GENERATION OF DISEASE-SPECIFIC CELL LINES IS, TO ME
6 AT LEAST, STILL AN IMPORTANT OBJECTIVE.

7 CHAIRMAN KLEIN: OKAY. THANK YOU VERY
8 MUCH. DR. OLSON.

9 DR. OLSON: CHAIRMAN KLEIN, I JUST WANTED
10 TO SAY ONE THING. I DID ATTEND A WORKSHOP, I
11 BELIEVE LAST YEAR, THAT WAS SPECIFICALLY FOCUSED ON
12 HUNTINGTON'S DISEASE. AND AT THAT -- YOU KNOW,
13 AGAIN, IT WAS MADE -- THE POINT WAS MADE THAT THERE
14 ARE DISEASE-SPECIFIC CELL LINES WITH A RANGE OF CAG
15 REPEATS IN THEM. I DO NOT -- YOU KNOW, I'M NOT
16 GOING TO COMMENT ON WHETHER, YOU KNOW, THE NUMBER OF
17 LININGS IS THAT ADEQUATE TO ADDRESS ALL THE CONCERNS
18 THAT, YOU KNOW, OBVIOUSLY EVERYBODY'S GENETIC MAKEUP
19 CAN INFLUENCE. SO THAT'S A SEPARATE COMMENT
20 ENTIRELY. BUT IT IS TRUE THAT I THINK THERE ARE
21 LINES AVAILABLE, AND I BELIEVE THERE ARE MORE THAN
22 FIVE BASED ON, AT LEAST, MY ATTENDANCE AT THAT
23 WORKSHOP AND DISCUSSIONS ABOUT LINES.

24 PEOPLE WERE PARTICULARLY CONCERNED ABOUT
25 THE NUMBER OF LINES THAT WERE AVAILABLE AND ABOUT

BARRISTERS' REPORTING SERVICE

1 THE, YOU KNOW, THE VARIATION IN REPEATS AND USING
2 THEM TO GENERATE ESSENTIALLY THE SPINY MOTOR, THE
3 MOTOR NEURONS. SO...

4 DR. PIZZO: I'M SORRY TO PROLONG THIS, BUT
5 I THINK THAT BECOMES AN IMPORTANT ISSUE. I MEAN SO
6 THERE'S A DISCORDANCE IN WHAT WE'RE HEARING, AND I
7 DON'T KNOW HOW TO SOLVE THAT RIGHT NOW IN TERMS OF
8 ARE THERE OR AREN'T THERE. I'M AT THE POINT WHERE
9 I'M CONSIDERING THIS FROM THE PERSPECTIVE OF THE
10 NEED TO GENERATE THE LINES AND FOR THOSE LINES TO BE
11 AVAILABLE, NOT -- I'M NOT FOCUSING, AT LEAST I'M NOT
12 FOCUSING, ON AIM 3, WHICH I THINK IS A DIFFERENT
13 KIND OF SET OF EXPERIMENTS. TO ME THAT'S A SEPARATE
14 SET OF APPLICATIONS ALMOST.

15 BUT NOW I'M CONFUSED AS TO WHETHER THERE
16 ARE OR AREN'T AN ADEQUATE NUMBER OF LINES.

17 CHAIRMAN KLEIN: THERE'S -- THERE'S TWO
18 DIFFERENT POINTS, I THINK, BEING MADE HERE. ONE IS
19 LINES CAN BE AVAILABLE, BUT NOT ACCESSIBLE. OKAY.
20 AND WE HAVE HEARD SOME TESTIMONY THAT THEY'RE
21 AVAILABLE, BUT NOT ACCESSIBLE.

22 THE SECOND POINT IS WE'VE HEARD JUST
23 INDIVIDUAL TESTIMONY THAT EVEN WITHIN A FAMILY
24 GROUP, THERE'S RADICAL DIFFERENCES IN THE
25 MANIFESTATION.

BARRISTERS' REPORTING SERVICE

1 DR. PIZZO: I UNDERSTAND BOTH OF THOSE,
2 BOB, BUT I'M REACTING TO DR. OLSON'S COMMENT, THAT
3 THERE WERE -- AT A SPECIFIC MEETING THAT THERE WERE
4 LOTS OF CELL LINES AVAILABLE. AND I THINK WE SHOULD
5 JUST KNOW -- I MEAN IF A STATEMENT LIKE THAT IS
6 MADE, IT WOULD BE HELPFUL TO KNOW THE VERACITY OF
7 IT.

8 CHAIRMAN KLEIN: WELL, WHAT WE DO KNOW IS
9 THAT THE REVIEWERS BELIEVE, WHETHER IT'S EIGHT OR
10 NINE LINES WERE AVAILABLE, AND IT APPEARS THAT OF
11 THE EIGHT OR NINE LINES AVAILABLE, DR. LORREY IS
12 AWARE THAT THERE ARE FOUR, WHICH THERE APPEAR TO BE
13 ACCESS QUESTIONS OR QUALITY, WHICH WOULD TEND TO
14 INDICATE THAT BETWEEN THE REVIEWERS AND THE
15 INFORMATION THAT CAN BE VERIFIED, THAT THERE MAY BE
16 FIVE LINES AVAILABLE. WE DO NOT KNOW WHETHER THEY
17 ARE JUVENILE OR ADULT, WHICH IS THERE'S SIGNIFICANT
18 DIFFERENCES.

19 AND ON A STATISTICAL BASIS, THERE MAY BE
20 ADVANTAGE IN HAVING MORE LINES TO BE ABLE TO COMPARE
21 THE GENETIC DIFFERENCES IN THESE LINES. CAN SOMEONE
22 ADDRESS THAT SCIENTIFICALLY?

23 DR. PIZZO: IF SOMEONE COULD ADDRESS THAT
24 SCIENTIFICALLY, I WOULD BE ASTOUNDED. I THINK THAT
25 TO KNOW WHAT THE N IS, WHAT THE ADEQUATE NUMBER OF

BARRISTERS' REPORTING SERVICE

1 LINES IS, TO ANSWER THAT, ASSUMES A BODY OF
2 KNOWLEDGE --

3 CHAIRMAN KLEIN: I SUSPEND MY QUESTION. I
4 WOULD ASSUME THAT HAVING SOME MORE LINES MIGHT
5 INCREASE THE PROBABILITY OF SUCCESS.

6 DR. PIZZO: BUT WE DON'T KNOW WHAT THE
7 ACTUAL NUMBER IS. IT MAY BE -- YOU KNOW, IT COULD
8 BE IF YOU HAD TWO LINES, YOU'D FIGURE IT ALL OUT, OR
9 IT MAY MEAN THAT YOU NEED HUNDREDS OF LINES. I
10 DON'T KNOW WHAT THE RIGHT NUMBER IS PRO PRIMUM.

11 DR. HAWGOOD: COULD I JUST ASK A QUESTION
12 WHETHER ANY OF THE KNOWN LINES ACTUALLY HAVE A CELL
13 PHENOTYPE? BECAUSE IF THEY DON'T, THEN GENERATING
14 ADDITIONAL ONES...

15 DR. OLSON: I WILL JUST SAY THAT I
16 THINK -- YOU KNOW, THE THOUGHT IS THAT THE CELL LINE
17 OR THAT THE CELL THAT IS THE DISEASE CELL HERE IS
18 THE SPINY MOTOR NEURON. THERE'S SOME PEOPLE WHO
19 AREN'T EVEN SURE THAT -- OR EVEN CONVINCED THAT'S
20 THE RIGHT CELL. NO ONE HAS BEEN SUCCESSFUL IN
21 GENERATING THAT PARTICULAR CELL TYPE. SO THAT
22 REALLY IS THE ISSUE.

23 AND I THINK YOU HEARD THAT FROM THE
24 REVIEWERS TOO, THAT THEY WERE -- THAT THE TECHNICAL
25 CHALLENGE OR THE TECHNICAL ISSUE WITH RESPECT TO

BARRISTERS' REPORTING SERVICE

1 THIS APPLICATION, WHICH DOESN'T MEAN THAT PEOPLE
2 SHOULDN'T TRY, IS THE ABILITY TO GENERATE THAT
3 SPECIFIC PHENOTYPE. SO -- I'M SORRY -- TO GENERATE
4 THAT CLASS OF NEURONS.

5 CHAIRMAN KLEIN: THAT'S THE THIRD AIM.

6 DR. PIZZO: NO, THAT'S NOT THE THIRD AIM.
7 THE THIRD AIM IS TO CORRECT THE GENETIC LESION.

8 MR. SHEEHY: THAT'S THE SECOND AIM, WHICH
9 WAS FEASIBLE, BY THE WAY.

10 MS. GIBBONS: I THINK THAT WE
11 CERTAINLY --

12 DR. HAWGOOD: I THINK THE POINT I WAS
13 TRYING TO MAKE, UNTIL THAT DIFFERENTIATION STEP IS
14 SOLVED, THEN HAVING 50 LINES THAT SIMPLY
15 DIFFERENTIATE INTO EARLY NEURONS IS NOT PARTICULARLY
16 USEFUL.

17 MS. GIBBONS: IT DEPENDS ON WHAT THEY
18 WERE. THERE WERE OTHER EXPERIMENTS PROPOSED FOR THE
19 USE OF THE LINES SUCH AS BIOMARKERS OR DEVELOPING
20 DRUGS WHICH CAN BE DONE ON PROGENITORS WAS THE IDEA.

21 CHAIRMAN KLEIN: OKAY. DR. PRIETO.

22 DR. PRIETO: JUST A QUESTION, THAT IF THAT
23 DIFFERENTIATION IS A CRUCIAL STEP AND WE DON'T FUND
24 THE RESEARCH THAT MIGHT ACHIEVE THAT, WHO'S GOING TO
25 DO IT?

BARRISTERS' REPORTING SERVICE

1 MS. GIBBONS: I THINK THAT THE --

2 CHAIRMAN KLEIN: WHAT WAS THE CONCLUSION
3 AS TO THE QUALITY OF THE TEAM AND PRINCIPALS?

4 DR. NIGH: THE QUALITY OF THE TEAM WAS
5 CONSIDERED OUTSTANDING.

6 CHAIRMAN KLEIN: OKAY.

7 DR. DAFOE: IF I COULD COMMENT. THE ISSUE
8 OF THE APPEAL PROCESS, SLIGHTLY DIFFERENT ISSUE, BUT
9 RELATED BECAUSE IF THERE IS AN APPEAL PROCESS, AND I
10 UNDERSTAND THERE IS, THERE IS NO OPPORTUNITY TO
11 REBUT BECAUSE HERE IT WOULD BE HELPFUL BECAUSE THE
12 INVESTIGATORS COULD COME BACK WITH THEIR INFORMATION
13 ABOUT AVAILABILITY. SO I THINK THAT IS AN
14 INTERESTING POINT, THAT I KNOW THAT SUBSEQUENT
15 GRANTS WILL HAVE AN APPEAL PROCESS BECAUSE THAT'S
16 REALLY WHAT IN MY MIND WE NEED RIGHT NOW IS SOME
17 CONFIRMATION ABOUT ACCESSIBILITY.

18 MS. GIBBONS: IT SEEMS TO ME THAT, YOU
19 KNOW, WE CERTAINLY APPRECIATE THAT THE REVIEW TEAM
20 DID AN AMAZING JOB AT REVIEWING EXACTLY WHAT WAS
21 SUBMITTED HERE, AND I BELIEVE THE DISCUSSION NOW IS
22 THAT, AT LEAST FOR ME, WE'RE LOOKING AT AIMS 1 AND 2
23 AND WHETHER WE THINK THIS WOULD BE SOMETHING
24 MEANINGFUL TO FUND BASED ON THOSE AIMS. AND I
25 UNDERSTAND WHERE THE SCORE CAME FROM WITH AIM 3.

BARRISTERS' REPORTING SERVICE

1 BUT GIVEN -- I WOULD LIKE TO SEE US GO
2 FORWARD GIVEN THE STRENGTH OF THIS TEAM AND GIVEN
3 THE OPPORTUNITY, THE ACCESS THAT THEY HAVE, AND IT
4 SEEMS LIKE WE'RE AT LEAST ARGUING ENOUGH FAVORABLY
5 THAT WE CERTAINLY HAVE SOME QUESTIONS ABOUT IT BEING
6 IN TIER 2.

7 CHAIRMAN KLEIN: ALL RIGHT. JEFF SHEEHY.

8 MR. SHEEHY: I STILL WANT TO GO BACK TO
9 THE ISSUE ON TIER -- ON AIM 2. AIM 2 IS FEASIBLE,
10 RIGHT? AND AIM 2 IS THE POINT THAT DR. OLSON
11 ADDRESSED, THAT YOU NEED -- THAT YOU NEED TO DERIVE
12 THE SPECIFIC TYPE OF NEURONAL MOTOR -- NO? AS I SEE
13 AIM 2 IS TO -- SPECIFICALLY INTO NEURONAL SUBTYPES
14 INVOLVED IN HD IS WHAT AIM 2 IS, AND AIM 1 AND 2
15 WERE BOTH CONSIDERED FEASIBLE.

16 DR. NIGH: AIM 1 WAS TO DERIVE HESC FROM
17 HUNTINGTON DISEASE BLASTOCYSTS. AIM 2 IS TO DERIVE
18 IPS CELLS FROM PATIENTS DIAGNOSED WITH A CAG REPEAT.
19 AND AIM 3 IS TO GENETICALLY MANIPULATE IPS CELLS --

20 MR. SHEEHY: I'M READING FROM THE REVIEW I
21 HAVE IN FRONT OF ME. CELLS WILL BE DIFFERENTIATED
22 INTO NEURONS, SPECIFICALLY TO NEURONAL SUBTYPES
23 INVOLVED IN HD. THEN IT SAYS IN AIM 3, SO THIS IS
24 UNDER AIM 1 OR 2, WHICH WERE CONSIDERED FEASIBLE.
25 AND THAT WAS THE POINT THAT IT SEEMS TO BE MISSING.

BARRISTERS' REPORTING SERVICE

1 SO IT SEEMS TO ME THAT THIS IS SOMETHING WE SHOULD
2 FUND.

3 WE JUST HAD A STATEMENT THAT THAT WAS A
4 PROBLEM WITH THE LINES THAT EXIST. THAT GOES TO
5 DR. HAWGOOD'S POINT, AND THIS IS PART OF AIM 1 AND
6 2, WHICH WERE FEASIBLE AS DETERMINED BY THE
7 REVIEWERS. SO I THINK WE SHOULD GO AHEAD AND VOTE
8 ON THIS AND APPROVE IT.

9 MR. ROTH: MR. CHAIRMAN, CAN I CALL THE
10 QUESTION?

11 CHAIRMAN KLEIN: YES. CALL THE QUESTION.
12 WE WILL NEED A ROLL CALL VOTE. AND PLEASE WOULD YOU
13 RESTATE THOSE IN CONFLICT?

14 MS. KING: CONFLICTS ARE BRYANT, LANSING,
15 AND STEWARD.

16 CHAIRMAN KLEIN: THANK YOU.

17 MS. KING: DONALD DAFOE.

18 DR. DAFOE: YES.

19 MS. KING: ROBERT PRICE.

20 DR. PRICE: YES.

21 MS. KING: DAVID BRENNER.

22 DR. BRENNER: YES.

23 MS. KING: MARCY FEIT.

24 MS. FEIT: YES.

25 MS. KING: LEEZA GIBBONS.

BARRISTERS' REPORTING SERVICE

1 MS. GIBBONS: YES.
2 MS. KING: SAM HAWGOOD.
3 DR. HAWGOOD: YES.
4 MS. KING: BOB KLEIN.
5 CHAIRMAN KLEIN: YES.
6 MS. KING: LEONARD ROME.
7 DR. ROME: YES.
8 MS. KING: TED LOVE. PHIL PIZZO.
9 DR. PIZZO: YES.
10 MS. KING: CLAIRE POMEROY.
11 DR. POMEROY: YES.
12 MS. KING: FRANCISCO PRIETO.
13 DR. PRIETO: YES.
14 MS. KING: DUANE ROTH.
15 MR. ROTH: YES.
16 MS. KING: DAVID SERRANO-SEWELL.
17 MR. SERRANO-SEWELL: YES.
18 MS. KING: JEFF SHEEHY.
19 MR. SHEEHY: YES.
20 MS. KING: MR. CHAIRMAN, THAT MOTION

21 CARRIES.

22 CHAIRMAN KLEIN: ALL RIGHT. JEFF SHEEHY,
23 YOU WOULD LIKE TO MOVE TO --

24 MR. SHEEHY: YEAH. SO WE HAVE ONE MORE,
25 AND I THINK MR. ROTH WOULD LIKE TO MAKE A MOTION TO

BARRISTERS' REPORTING SERVICE

1 MOVE THIS.

2 MR. ROTH: SO I WOULD ALSO MOVE THAT WE
3 FUND 649.

4 MR. SHEEHY: DO I HAVE A SECOND?

5 MR. SERRANO-SEWELL: SECOND.

6 MR. SHEEHY: SECOND FROM DAVID
7 SERRANO-SEWELL. CAN WE GET SOME INFORMATION AND
8 BACKGROUND ON THIS FROM --

9 MS. KING: JUST BEFORE THAT, I JUST WANTED
10 TO ANNOUNCE THAT THE CONFLICT WITH THIS IS
11 DR. BRYANT.

12 CHAIRMAN KLEIN: OKAY.

13 DR. NIGH: THIS IS A PROPOSAL TO IMPROVE
14 SOMATIC CELL REPROGRAMMING IN ORDER TO GENERATE
15 INDUCED PLURIPOTENT STEM CELLS FOR USE IN A
16 CELL-BASED DISEASE MODEL. AND IN AIMS 1, THE
17 APPLICANT PROPOSES TO TEST THE INDUCIBLE VECTORS AND
18 SYSTEMS THAT WILL ALLOW EXCISION OF GENES. SO HE IS
19 IMPROVING ON THE IPS PROCEDURES.

20 CHAIRMAN KLEIN: DR. NIGH, IF YOU COULD
21 SPEAK A LITTLE CLOSER TO THE MIC.

22 DR. NIGH: OH, I'M SORRY.

23 CHAIRMAN KLEIN: MAYBE YOU CAN BEND IT UP
24 A LITTLE.

25 DR. NIGH: OKAY. SO AIM 1 IS ACTUALLY

BARRISTERS' REPORTING SERVICE

1 WORKING ON THE PROCEDURES FOR GENERATING IPS CELLS
2 AND IMPROVING THOSE.

3 IN AIM 2 THE APPLICANT PROPOSES TO
4 GENERATE IPS CELLS FROM PATIENTS WITH RETT SYNDROME
5 AND ALS. AND IN AIM 3 HE WILL -- HE OR SHE WILL
6 MAKE IPS CELLS FROM HEMATOPOETIC OR HEPATIC LINEAGES
7 IN ORDER TO EXPLORE CELL THERAPY OPTIONS FOR BLOOD
8 AND LIVER DISEASES.

9 AND, AGAIN, THE STRENGTH OF THIS PROPOSAL
10 WAS THE HIGHLY ACCOMPLISHED INVESTIGATOR AND HIS
11 COLLABORATOR.

12 AND THE CRITICISMS WERE REALLY THAT THIS
13 WAS A VERY AMBITIOUS PROPOSAL TO GENERATE SEVERAL
14 DIFFERENT TYPES OF DISEASE-BASED LINES. AND
15 SPECIFICALLY IN AIM 3 THERE WAS CRITICISM THAT THE
16 APPLICANT MOVES AWAY FROM THEIR AREA OF
17 CONCENTRATION TO MOVE INTO BLOOD DISORDERS AND
18 HEMOPHILIA AND AN AREA THAT THE APPLICANTS DO NOT
19 HAVE MUCH EXPERTISE IN.

20 DURING PROGRAMMATIC REVIEW, THE REVIEWERS
21 ACTUALLY DISCUSSED THIS APPLICATION AT LENGTH
22 BECAUSE OF THE STRENGTH OF THE TEAM AND BECAUSE THEY
23 FELT THAT DISEASE MODEL FOR RETT SYNDROME WOULD BE
24 OF VALUE. HOWEVER, OVERALL, THEY REMAINED CONCERNED
25 WITH THE LACK OF FOCUS AND DID NOT MOVE TO MOVE IT

BARRISTERS' REPORTING SERVICE

1 UP INTO TIER 1.

2 SO AGAIN, THE OVERALL ASSESSMENT WAS THAT
3 THIS PROPOSAL WAS OVERLY AMBITIOUS.

4 MR. SHEEHY: IF YOU WOULD PLEASE, THERE'S
5 A LETTER IN YOUR -- THAT YOU MAY OR MAY NOT HAVE
6 READ, SO I'M GOING TO READ IT INTO THE RECORD
7 BECAUSE IT DOES REBUT SOME OF THIS. I'D LIKE TO
8 READ THE LETTER.

9 DR. STEWARD: JEFF, EXCUSE ME. BEFORE YOU
10 DO, I'M JUST A LITTLE CONCERNED ABOUT THAT PRACTICE
11 BECAUSE IT SEEMS TO ME -- AND I'M NOT SPEAKING
12 AGAINST THE APPLICATION ONE WAY OR ANOTHER. I'M
13 JUST TALKING ABOUT THIS LETTER WHICH IS, IN FACT, A
14 REBUTTAL. AND WE'VE ALREADY HEARD TONIGHT THAT SOME
15 OF THE APPLICANTS DID NOT KNOW THAT THERE WAS AN
16 OPPORTUNITY FOR REBUTTAL OR FOR SENDING IN A LETTER.
17 PEOPLE KNOW THAT THEY HAVE AN OPPORTUNITY TO COME IN
18 AND SPEAK PUBLICLY FOR THREE MINUTES.

19 I THINK IN THE INTEREST OF MAINTAINING A
20 LEVEL PLAYING FIELD, WE SHOULD CONSIDER WHETHER OR
21 NOT WE SHOULD HEAR THIS LETTER IN PRINCIPLE.

22 CHAIRMAN KLEIN: DOCTOR, WE HAVE
23 PREVIOUSLY RECEIVED LETTERS WHICH WE HAVE, IN FACT,
24 READ INTO THE RECORD. AND WHEN PEOPLE CANNOT BE
25 PRESENT, THEY HAVE THE ABILITY TO SEND LETTERS IN.

BARRISTERS' REPORTING SERVICE

1 SO IT IS NOT INCONSISTENT WITH OUR HISTORY TO
2 RECEIVE LETTERS INTO EVIDENCE FOR THE MEMBERS AND
3 FOR THE PUBLIC'S BENEFIT.

4 DR. STEWARD: SO IF THAT IS THE CASE, THEN
5 I THINK IT'S VERY IMPORTANT THAT CIRM MAKE THAT
6 CLEAR AS AN AVAILABLE PROCEDURE TO APPLICANTS
7 BECAUSE WE HAVE ALREADY HEARD THAT THERE IS A
8 GENERAL FEELING THAT THAT IS NOT AN OPTION FOR THEM.

9 CHAIRMAN KLEIN: IT IS NOT A RECOMMENDED
10 OPTION. IT IS LEGALLY AVAILABLE TO THE APPLICANTS.
11 IT IS -- I THINK WE SHOULD TAKE A MOMENT HERE AND
12 MAYBE HAVE DR. TROUNSON ADDRESS THE --

13 MR. SHEEHY: I MEAN I THINK -- I MEAN I
14 WANT TO BE PERFECTLY CLEAR. WE'RE AN OPEN
15 GOVERNMENT RULED AGENCY. THIS IS IN ALL OF OUR
16 PACKETS. THIS SHOULD BE READ INTO THE RECORD. AND
17 I WAS IN THE PROCESS OF READING IT WHEN I WAS
18 STOPPED, AND I THINK I SHOULD BE ABLE TO CONTINUE TO
19 READ IT.

20 MR. SERRANO-SEWELL: JUST LET ME ADD TO
21 THAT --

22 MR. SHEEHY: AND ANYBODY CAN COME BEFORE A
23 PUBLIC AGENCY AND AVAIL THEMSELVES OF PUBLIC
24 COMMENT. AND BECAUSE ALL OF US HAVE IT, YOU KNOW,
25 THOSE OF US WHO HAVE READ THIS, YOU KNOW, WE SHOULD

BARRISTERS' REPORTING SERVICE

1 CONSIDER THIS.

2 CHAIRMAN KLEIN: JEFF, WHY DON'T YOU READ
3 IT INTO THE RECORD, AND THEN I'M GOING TO ASK FOR
4 DR. TROUNSON BECAUSE WHAT I DO WANT FOR THE PUBLIC
5 TO UNDERSTAND AND THE BOARD TO UNDERSTAND, THAT
6 THERE IS A DISCUSSION THAT GOES ON, I THINK, AFTER
7 THE REVIEW WITH SUBMISSION OF COMMENTS FROM THE
8 REVIEW BACK TO THE APPLICANT. AND I WANT TO MAKE
9 SURE THAT THAT PROCESS IS UNDERSTOOD.

10 MR. SHEEHY: AND THE OTHER PART IS TOO WE
11 DID HAVE A LENGTHY DISCUSSION AROUND, YOU KNOW, WE
12 DID MAKE IT VERY CLEAR AROUND THE FACILITIES THAT
13 PEOPLE COULD COME AND DO A THREE-MINUTE
14 PRESENTATION. AND WE HAVE RECEIVED LETTERS IN THE
15 PAST ON VARIOUS ISSUES THAT HAVE BEEN DIRECTED TO
16 US. THEY BECOME PART OF THE PUBLIC RECORD. I THINK
17 BECAUSE WE'RE HAVING THIS DISCUSSION ABOUT THIS
18 APPLICATION, WE'RE PUTTING INTO THE RECORD THE
19 CRITICISMS OF THE APPLICATION. THE FACT THAT WE
20 HAVE IN FRONT OF US THE ANSWER TO THOSE CRITICISMS
21 AND WE DON'T PUT THAT INTO THE RECORD, EVEN THOUGH
22 I'VE READ THIS AND THIS MATERIAL INFLUENCED MY
23 DECISION, DOESN'T SEEM LIKE QUITE THE APPROPRIATE
24 PROCESS.

25 CAN I JUST GO AHEAD?

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: GO AHEAD.

2 MR. SHEEHY: IT'S FROM FRED GAGE, THE VI
3 AND JOHN ADLER PROFESSOR OF AGE-RELATED AND
4 NEURODEGENERATIVE DISEASES AT THE SALK INSTITUTE FOR
5 BIOLOGICAL STUDIES. I'M NOT GOING TO START WITH THE
6 INTRODUCTION. I'LL STAY WITH THE MAIN POINTS.

7 THE REVIEW PANEL FELT THAT THESE STUDIES
8 WERE UNFOCUSED. WE CHOSE SPECIFICALLY TO FOCUS ON
9 THE DERIVATION OF CELL LINES AS REQUESTED IN THE RFA
10 RATHER THAN A RESEARCH PROGRAM BASED ON A SPECIFIC
11 DISEASE. THE REAL HEART OF THIS EFFORT IS TO
12 VALIDATE FIBROBLAST IPS DERIVATION TECHNIQUES FOR
13 USE IN A WIDE RANGE OF HUMAN DISEASES.

14 TWO, NONE OF THE OTHER PROJECTS SELECTED
15 FOR FUNDING UNDER THIS RFA ADDRESS ALS, RETT
16 SYNDROME, OR HEMOPHILIA. WE HAVE A SHORT TIMEFRAME
17 IN SUPPORT OF THIS APPLICATION IN ORDER TO GENERATE
18 UNIQUE MODEL HUMAN STEM CELL LINES FOR THESE
19 DISEASES THAT ARE NOT OTHERWISE AVAILABLE.

20 IMPORTANTLY, THE REVIEWERS STATE THAT THE
21 CONTRIBUTION OF THE ALS WORK IS NOT CLEAR AND THAT
22 MOUSE MODELS FOR THIS DISEASE ARE ALREADY AVAILABLE.
23 WE WOULD LIKE TO ARGUE THAT THE VAST MAJORITY OF
24 DRUGS THAT HAVE DEMONSTRATED SIGNIFICANT EFFICACY IN
25 ALS MURINE MODELS FAIL IN HUMAN CLINICAL TRIALS.

BARRISTERS' REPORTING SERVICE

1 THE ONLY FDA APPROVED DRUG FOR ALS EXTENDS PATIENT'S
2 LIVES FOR NO MORE THAN TWO MONTHS. THEREFORE, THERE
3 IS AN URGENT NEED FOR NEW ALS HUMAN SPECIFIC MODELS
4 THAT HAVE THE POTENTIAL TO BE TRANSLATED INTO
5 CLINICAL TRIALS.

6 THREE, AS THE REVIEWERS HAVE NOTED,
7 DR. VERMA, MYSELF, AND THE RESEARCH TEAM WORKING ON
8 THIS PROJECT ARE LEADERS IN THE FIELD. TOGETHER WE
9 HOPE TO CREATE ONE OF THE STRONGEST STEM CELL
10 RESEARCH TEAMS IN THE STATE. WE WILL NOT BE ABLE TO
11 PERFORM THESE UNIQUE IPS CELL STUDIES WITHOUT SOME
12 SUPPORT.

13 FOUR, THE CRITICISMS OF AIM 3 REGARDING
14 OUR EXPERTISE IN BLOOD DISORDERS AND CHOICE OF CELL
15 TYPES ARE NOT WARRANTED. DR. VERMA DEVELOPED THE
16 FIRST MOUSE MODEL OF HEMOPHILIA, AND *PNAS* IS THE
17 PUBLICATION WHERE IT WAS PUBLISHED, AND HAS
18 PIONEERED GENE THERAPY IN CURING BOTH MICE AND DOGS
19 OF THE DISEASE. THIS, AGAIN, PUBLISHED IN *PNAS* IN
20 1999, 2000, AND 2003. GENE THERAPY TRIALS FOR
21 HEMOPHILIA USING THE SAME VECTORS ARE CURRENTLY
22 UNDER WAY IN HUMANS. THE VERMA LABORATORY HAS ALSO
23 DEVELOPED A MOUSE STRAIN THAT IS PERMISSIVE TO HUMAN
24 HEPATOCYTE TRANSPLANTATION, *PNAS* 2007. THIS ALLOWS
25 IN VIVO TESTING OF HEPATOCYTES DERIVED FROM IPS FOR

BARRISTERS' REPORTING SERVICE

1 SECRETION AND FUNCTION OF F 8 AND F 9 IN CONTRAST TO
2 THE REVIEWERS CONCERNS WHETHER ENDOTHELIAL CELLS OR
3 HEPATOCYTES IN VIVO SECRETE THESE FACTORS IS
4 CONTROVERSIAL; HOWEVER, IT IS CLEAR THAT HEPATOCYTES
5 CAN DO THE JOB ONCE DIRECTED TO DO SO.

6 CHAIRMAN KLEIN: OKAY.

7 MR. SHEEHY: AND I WOULD STATE THAT
8 DR. GAGE IS WELL KNOWN AS BEING ONE OF THE LEADERS
9 IN THE FIELD.

10 CHAIRMAN KLEIN: OKAY. THANK YOU.

11 MR. SERRANO-SEWELL: JEFF, I WANTED TO
12 QUICKLY SAY SOMETHING BECAUSE I DON'T WANT TO GET ON
13 A SIDE TRACK HERE, BUT I THOUGHT OS' COMMENT WAS
14 VERY IMPORTANT ABOUT THE PROCESS. OKAY. AND JEFF
15 GAVE, I THINK, A VERY GOOD EXAMPLE OR BOB.

16 WE SPECIFICALLY BUILT IN THE FACILITIES
17 PROCESS AN OPPORTUNITY FOR THE APPLICANTS TO GIVE US
18 FEEDBACK. IT WAS SPECIFICALLY MENTIONED IN THE
19 COMPETITIVE BID DOCUMENT. OKAY. WE HAVEN'T DONE
20 THAT WITH THESE OTHER GRANTS. I'LL LEAVE NOT FOR
21 DISCUSSION NOW OR AT ANY TIME, BECAUSE THERE'S LOTS
22 OF DIFFERENT COMPETING INTERESTS, WHETHER WE SHOULD
23 DO THAT WITH OUR -- INTEREST, IDEAS, OPINIONS,
24 WHETHER WE SHOULD DO THAT WITH THESE SCIENTIFIC
25 APPLICATIONS. THERE'S PROBABLY PROS AND CONS ON

BARRISTERS' REPORTING SERVICE

1 EACH SIDE.

2 OUR RFA'S ARE SILENT ON THAT ISSUE. SO
3 REALLY IT'S UP TO EACH APPLICANT ON THEIR OWN
4 INITIATIVE TO WRITE A LETTER, WHICH I THINK THEY'RE
5 ENTITLED TO DO, BUT -- SO I'LL JUST SAY THAT.

6 AND THEN SECONDLY, MORE BROADLY SPEAKING,
7 I THINK EACH MEMBER HAS A RIGHT TO STATE WHATEVER
8 THEY PLEASE IN THE RECORD. IF I WANTED TO READ MY
9 WIFE'S CHOCOLATE CHIP RECIPE, I CAN.

10 DR. PRICE: THE LAWYERS MAY SAY SOMETHING
11 ABOUT IT.

12 MR. SERRANO-SEWELL: NO. NO. NO. THE
13 LAWYERS -- I'LL SAY IT ANYWAYS. I HAVE A RIGHT TO
14 DO THAT. I JUST WANT TO SAY THAT THERE IS THAT
15 INHERENT RIGHT WITH COMMISSIONERS TO STATE WHAT THEY
16 FEEL IS APPROPRIATE ON THE RECORD, AND I THINK THAT
17 IS AN IMPORTANT RIGHT, AND ONE THAT I FEEL STRONGLY
18 ABOUT.

19 DR. STEWARD: I JUST WANT TO TAKE -- I
20 WON'T TALK FOR MORE THAN 30 SECONDS, BUT IT IS THE
21 PROCESS AND IT IS THE FAIRNESS OF THE PROCESS THAT
22 I'M TALKING ABOUT HERE. JUST TO MAKE AN
23 OBSERVATION, WE HAVE APPROXIMATELY 50. I DON'T KNOW
24 HOW LONG IT TOOK JEFF, BUT ROUGHLY FIVE MINUTES. IF
25 WE HAVE 50 LETTERS THAT TAKE FIVE MINUTES TO READ,

BARRISTERS' REPORTING SERVICE

1 THAT'S GOING TO TAKE A VERY LARGE PROPORTION OF OUR
2 DAY. IF WE'RE GOING TO ALLOW THEM, WE NEED TO MAKE
3 IT CLEAR TO THE APPLICANTS THAT IT IS AN OPTION.
4 THAT'S ALL I'M SAYING.

5 CHAIRMAN KLEIN: I THINK THE FAIRNESS OF
6 THE PROCESS IS VERY IMPORTANT, WHICH IS WHY I WANT
7 TO TURN TO DR. TROUNSON. BUT LET US REALIZE THAT
8 WE'RE MOST LIKELY, IN A PRACTICAL SENSE, TO GET
9 LETTERS AT THE MARGIN WHEN THE POINTS ARE VERY CLOSE
10 BECAUSE IT'S -- IF IT'S NOT CLOSE IN TERMS OF THE
11 SCORE, THEN IT'S GOING TO BE VERY DIFFICULT IN A
12 SHORT LETTER TO ADDRESS THE SUBJECT. BUT MAKING
13 SURE AND ALWAYS DOUBLE-CHECKING OURSELVES AND
14 SELF-CRITIQUING THE PROCESS IS A HEALTHY PROCESS.

15 COULD WE GET DR. TROUNSON TO JUST DESCRIBE
16 THE PROCESS THAT GOES ON AFTER REVIEW SO THAT WE'RE
17 ALL WORKING WITH THE SAME INFORMATION?

18 MS. FEIT: MR. KLEIN, I HAVE A COMMENT.

19 CHAIRMAN KLEIN: YES. MARCY.

20 MS. FEIT: AFTER DR. TROUNSON.

21 DR. TROUNSON: WELL, I THINK YOU NEED TO
22 BE VERY CAREFUL WHAT YOU'RE DOING HERE. THE GOOD
23 PART IS THAT YOU NEED TO RECOGNIZE THAT EVERY ONE OF
24 THE SCIENTISTS HAVE PUT UP THEIR PROJECTS AS AN
25 APPLICATION WILL INCREDIBLY BELIEVE IN IT. AND THE

BARRISTERS' REPORTING SERVICE

1 MORE SENIOR AND MORE ARTICULATE YOU ARE, THEN YOU
2 WILL ENTER THE DEBATE ABOUT WHETHER THE OTHERS ARE
3 RIGHT OR WRONG.

4 THERE IS A REVIEW PROCESS WHICH WE SEEK TO
5 ASK 15 OF THE BEST SCIENTISTS OUTSIDE CALIFORNIA TO
6 RANK THESE ACCORDING TO THE INFORMATION THAT THEY
7 HAVE. AND THERE MAY BE AT TIMES INCORRECT
8 INFORMATION. THAT'S POSSIBLE. EVEN AMONGST THOSE
9 15 SCIENTISTS, THAT'S POSSIBLE.

10 I THINK, YOU KNOW, I THINK WE DON'T REALLY
11 HAVE GROUNDS FOR REVERSING OR CHANGING DECISIONS ON
12 AN ARGUED BASIS SCIENTIFICALLY. IT'S MORE ABOUT
13 PROGRAMMATIC INTEREST OR PROGRAMMATIC WILL THAT'S
14 CHANGEABLE BECAUSE OTHERWISE, QUITE RIGHTLY, AS
15 DR. STEWARD HAS POINTED OUT, EVERY ONE OF THOSE
16 SCIENTISTS SHOULD BE HERE AND ARGUE THEIR CASE MORE
17 OR LESS ARTICULATELY FOR THREE MINUTES OR MORE.

18 NOW, YOU KNOW, I THINK YOU'VE GOT TO
19 ACCEPT THAT THE SCIENTISTS THAT DO INDEED HAVE
20 ACCEPTED INTO THAT REVIEW PANEL HAVE DONE A
21 REASONABLE JOB ON THE WHOLE. BUT THERE WILL BE AT
22 TIMES A DISAGREEMENT, AND PARTICULARLY IF YOU ARE
23 GRANT ISN'T AWARDED. I MEAN I KNOW BECAUSE I'VE HAD
24 GRANTS THAT ARE NOT AWARDED, SO I'VE DISAGREED, FELT
25 AGGRIEVED AND DISAPPOINTED BECAUSE THAT'S THE WAY

BARRISTERS' REPORTING SERVICE

1 SCIENCE IS.

2 AND SO YOU NEED TO SORT OF MAKE SURE THAT
3 THE PERSPECTIVE OF THE SYSTEM YOU'VE CREATED IS NOT
4 ACTUALLY DECAYED BY WHAT WE'RE TRYING TO DO. I'M
5 NOT SPEAKING IN FAVOR OR NOT ABOUT THE STUDIES. I
6 THINK IT IS ALSO VERY IMPORTANT, IF YOU CREATE A
7 CELL LINE, THAT YOU KNOW WHAT THE HECK YOU ARE GOING
8 TO ACTUALLY MEASURE. YOU CAN SET UP ANY NUMBER OF
9 CELL LINES YOU LIKE; AND IF YOU'VE GOT NO WAY OF
10 DETERMINING WHAT YOU ARE GOING TO MEASURE, YOU MIGHT
11 SPEND THE NEXT 15 YEARS IN THAT PHASE. SO THE
12 SCIENTISTS WILL LOOK, WILL LOOK DOWNSTREAM, THEY
13 WILL LOOK TO SEE WHETHER IT HAS AN OBJECTIVE FOR OUR
14 MISSION. YOU KNOW, THAT'S WHAT IT'S ABOUT.

15 AND SO WHAT I'M SAYING, I THINK, TO YOU IS
16 DON'T DECAY THE REVIEW PROCESS TO THE POINT WHERE
17 THAT IT'S NOT PARTICULARLY USEFUL BECAUSE IF YOU DO,
18 WE WON'T HAVE ANY REVIEWERS. AND I THINK YOU'VE
19 DEFEATED WHAT -- A BEAUTIFUL SYSTEM THAT YOU'VE SET
20 UP. BUT I DO BELIEVE THAT AT TIMES WE WILL
21 INDIVIDUALLY AND COLLECTIVELY DISAGREE WITH THE
22 REVIEWERS, AND THERE MAY BE INFORMATION THAT HAPPENS
23 PER CHANCE BETWEEN THE REVIEW AND WHEN WE GET HERE
24 AS WELL.

25 SO THERE ARE ALL OF THOSE TYPES OF

BARRISTERS' REPORTING SERVICE

1 SITUATIONS. SO I THINK CARE IS NEEDED TO NURTURE
2 THIS VERY DELICATE PROCESS, AND I WOULD SEEK YOUR,
3 YOU KNOW, YOUR THOUGHTFULNESS IN PRESERVING IT.

4 CHAIRMAN KLEIN: THANK YOU VERY MUCH. IN
5 TERMS OF -- I'M GOING TO GO TO SOME GENERAL
6 COMMENTS. I WOULD LIKE TO SAY THAT, WELCOMING THE
7 SPIRIT OF WHAT YOU'VE SAID, YOUR LAST COMMENTS ARE
8 VERY IMPORTANT CONSTITUTIONALLY AND STATUTORILY
9 BECAUSE CERTAINLY WE ARE CHARGED WITH LOOKING AT ALL
10 OF THE JUDGMENTS THAT COME FROM PEER REVIEW,
11 ALTHOUGH WITH GREAT RESPECT FOR THE SCIENTIFIC
12 INPUT. IF, AS YOU SAY, THERE'S NEW INFORMATION THAT
13 COMES FORTH OR, IN FACT, THERE'S INFORMATION ON THIS
14 BOARD OR IN THE AUDIENCE, IN THE PUBLIC PROCESS IN
15 OUR FINAL DECISIONS, WE HAVE TO TAKE ALL THAT INTO
16 ACCOUNT, WHETHER IT'S THE SCIENTIFIC OR THE
17 PROGRAMMATIC PART OF THE REVIEW WHILE TRYING TO
18 RESPECT THE ESSENCE OF YOUR COMMENTS.

19 DR. PIZZO. MARCY, ABSOLUTELY, AND THEN TO
20 DR. PIZZO.

21 MS. FEIT: THANK YOU, DR. TROUNSON,
22 BECAUSE YOU'RE REALLY SPEAKING ON WHAT I WAS ABOUT
23 TO SAY. I SAT THROUGH THOSE REVIEWS, AND I'VE BEEN
24 SITTING HERE WITH A HOLE IN MY GUT THROUGH THIS
25 DISCUSSION TONIGHT BECAUSE GREAT SCIENTIFIC MINDS

BARRISTERS' REPORTING SERVICE

1 FROM ALL OVER THE COUNTRY CAME TOGETHER, AND IN
2 THEIR SPECIFIC FIELDS REVIEWED ALL OF THESE RFA' S.
3 AND I SAT THROUGH THEM. THEY WERE MINDFUL. THEY
4 WERE RESPECTFUL. THEY WERE PROFESSIONAL. AND I
5 WOULD HATE TO SEE US START TO REDO THOSE REVIEWS
6 HERE BECAUSE THEY WERE GREAT.

7 THEY DID NOT WANT TO FUND THESE TWO RFA' S.
8 THEY' VE STATED THAT TO US, AND THEY SAID IF WE FELT
9 IT WAS A PROGRAM ISSUE, THAT WE SHOULD MAKE THE
10 DECISION BASED ON THAT.

11 AND I REALLY WOULD BE AGAINST ANY
12 EXTENSIVE REBUTTAL PROCESS BECAUSE I THINK IT WOULD
13 UNDERMINE THOSE GREAT SCIENTISTS WHO TAKE THE TIME
14 OUT FOR SEVERAL DAYS TO COME HERE AND DO THE WORK OF
15 CIRM. AND I THINK THAT WOULD BE A MISTAKE. SO I
16 WOULD SAY WE WOULD LOOK AT THESE TWO PROGRAMS AND
17 MAKE A PROGRAM DECISION AND NOT TRY TO REDO THE
18 SCIENCE REVIEW.

19 CHAIRMAN KLEIN: ALL RIGHT. I THINK DR.
20 PIZZO AND THEN DR. PRICE.

21 DR. PIZZO: I THINK THANK YOU, MARCY, FOR
22 THOSE COMMENTS. I WOULD JUST ADD ONE OTHER PART,
23 AND THAT IS I THINK THAT THIS REVIEW, TO ME AT
24 LEAST, IS A LITTLE -- IS DIFFERENT THAN SOME OF THE
25 OTHERS THAT WE' VE DONE BECAUSE -- AND I THINK THERE

BARRISTERS' REPORTING SERVICE

1 PERHAPS MAY HAVE BEEN, I'M TRYING TO PUT MYSELF, NOT
2 HAVING BEEN, AS JEFF AND MARCY WAS, AT THAT MEETING,
3 IN HOW THE SCIENTIFIC ADVISORY GROUP MIGHT HAVE BEEN
4 LOOKING AT THESE GRANTS BECAUSE WHAT WE'RE REALLY
5 TALKING ABOUT HERE IS METHODOLOGICAL -- TECHNICAL
6 STUDIES GENERATING CELL LINES.

7 AND I THINK THERE'S A STANDARD BEING
8 APPLIED TO THEM ACTUALLY THAT GOES SORT OF ABOVE AND
9 BEYOND THAT. AND I THINK THAT, FROM MY POINT OF
10 VIEW, AT THIS STAGE, AND WE MAY FEEL DIFFERENTLY
11 ABOUT THIS A YEAR OR TWO FROM NOW AS WE LEARN MORE
12 ABOUT THIS, BUT AT THIS STAGE, IF THERE'S A HIGH
13 QUALITY TEAM ABLE TO GENERATE NEW CELL LINES IN NEW
14 DISEASE AREAS, I THINK THAT'S AN ADVANTAGE. I MEAN
15 I DON'T KNOW WHERE THE PAYOFF IS GOING TO COME, BUT
16 I THINK, YOU KNOW, I'D LIKE -- IT'S A LITTLE BIT
17 LIKE THE TRAINING, YOU KNOW, THE TRAINING PIPELINE.
18 I MEAN WE NEED A PIPELINE OF CELL LINES, AND MAYBE,
19 YOU KNOW, ONE OF THESE GROUPS WILL HIT IT.

20 I FEEL FURTHER COMPELLED BECAUSE, LIKE I
21 THINK MOST OF US IN THIS ROOM, WE KNOW BOTH OF THESE
22 INVESTIGATORS, AND THEY ARE, YOU KNOW, FIRST CLASS
23 INVESTIGATORS, SO I THINK THAT RAISES THE LIKELIHOOD
24 THAT NEW CELL LINES IN A NEW AREA BY OUTSTANDING
25 INVESTIGATORS WILL PROVIDE A REAGENT THAT EITHER

BARRISTERS' REPORTING SERVICE

1 THEY OR SOMEONE ELSE CAN EMPLOY.

2 CHAIRMAN KLEIN: THANK YOU. AND THEN
3 WE'RE GOING TO GO TO DR. PRICE, THEN TO LEEZA
4 GIBBONS.

5 DR. PRICE: I WANT TO SPEAK IN FAVOR OF
6 MOVING THIS PROPOSAL UP INTO THE FUNDING CATEGORY.
7 AND I DO IT ACTUALLY IN SUPPORT OF THIS RECOMMEN- --
8 OF THIS REVIEW, NOT AS A CRITIC OR AS REBUTTAL OF
9 IT. AND I WANT TO MAKE THIS POINT IN TWO WAYS.

10 FIRST, I WANT TO LOOK AT THE SCORES. THIS
11 HAD A SCORE OF 69, I BELIEVE. YES. AND THE LAST OF
12 THE, I THINK, OF THE FUNDING CATEGORY, THAT'S A 71.
13 THE 71 -- WELL, 67. BUT LET'S LOOK AT THE 71. THE
14 DIFFERENCE BETWEEN 69 AND 71, I'M SORRY, IS NOT
15 REALLY A DIFFERENCE IN SCORE IN ANY REASONABLE WAY.
16 PROBLEM WITH THESE KINDS OF NUMERICAL SCORES IS THEY
17 GIVE A FALSE SENSE OF CONCRETENESS. AND I WOULD --
18 IT WOULD BE A NICE EXPERIMENT TO GIVE THESE SAME
19 THINGS TO ANOTHER GROUP OF PEOPLE AND SEE WHAT THEIR
20 SCORES ARE.

21 AND WHILE I SUSPECT THINGS WILL GROUP
22 SIMILARLY, I THINK IT'S VERY UNLIKELY THAT YOU'RE
23 GOING TO GET EXACTLY THE SAME SCORES. AND AS GOOD A
24 CHANCE AS ANY IS THIS WOULD BE THE 71 AND THE OTHER
25 ONE WOULD BE 69. SO I LOOK AT THE DIFFERENCE IN

BARRISTERS' REPORTING SERVICE

1 THOSE SCORES AS TO SAY THERE'S REALLY NO DIFFERENCE,
2 AT LEAST IN THE NUMERICAL RANK, NO REAL DIFFERENCE
3 IN THE NUMERICAL RANKING. OKAY. THAT'S THE FIRST
4 POINT.

5 MORE IMPORTANTLY, I'D LIKE TO READ TO YOU
6 THE REVIEWERS' COMMENTS OR AT LEAST A SUMMARY OF THE
7 COMMENTS IN OUR BOOKLET. A MAJOR STRENGTH OF THIS
8 PROPOSAL IS THAT THE TWO GROUPS INVOLVED IN THE
9 EXPERIMENTS ARE RECOGNIZED AS LEADERS IN THE FIELD
10 AND HAVE THE EXPERIENCE AND THE TECHNICAL KNOW-HOW
11 TO CARRY OUT THE WORK DESCRIBED. THE PROPOSED
12 METHOD FOR GENERATING IPS CELLS IS NOVEL AND WOULD
13 BE A SIGNIFICANT ADVANCE IN IPS CELL TECHNOLOGY.
14 THE CELL LINE THAT'S TO BE GENERATED THROUGH NEW
15 REPROGRAMMING WOULD BE APPROPRIATELY TESTED FOR
16 THEIR PLURIPOTENCY. EACH PART OF SPECIFIC AIM 1, IF
17 ACCOMPLISHED, WOULD ADVANCE THE FIELD.

18 AS FAR AS I'M CONCERNED, THAT IN ITSELF IS
19 ENOUGH REASON TO FUND THIS IRRESPECTIVE OF WHAT THEY
20 SAY ABOUT AIMS 2 AND 3. IT SEEMS TO ME THAT IS A
21 RECOMMENDATION FOR FUNDING AND A RECOMMENDATION
22 ABOUT THE QUALITY OF THE SCIENCE. IT DOESN'T SAY
23 THE SCIENCE IS BAD AND UNWORTHY.

24 CHAIRMAN KLEIN: OKAY. LEEZA.

25 MS. GIBBONS: YOU KNOW, I APOLOGIZE

BARRISTERS' REPORTING SERVICE

1 BECAUSE THIS COMES FROM THE TOPIC OF JEFF READING
2 THE LETTER FROM THE SALK INSTITUTE, AND I PROMISE
3 NOT TO BE ON IT BUT A SECOND, BUT I THINK IT IS
4 IMPORTANT AT LEAST FOR ME TO UNDERSTAND WHAT'S
5 ADMISSIBLE. THIS LETTER WAS ADDRESSED TO EACH OF
6 THE ICOC MEMBERS. AND WHILE I UNDERSTAND THAT THERE
7 IS A PROCESS BY WHICH LETTER WRITING CAN HAPPEN,
8 ISN'T THERE A MORE APPROPRIATE VENUE THAT EACH
9 INDIVIDUAL MEMBER BEING SOLICITED WITH REBUTTAL
10 INFORMATION, AND ARE WE, IN FACT, REQUIRED NOT TO
11 ADDRESS THESE LETTERS? ARE WE -- ARE WE --

12 CHAIRMAN KLEIN: NO.

13 MS. GIBBONS: WHAT'S OUR INSTRUCTION? ARE
14 WE INSTRUCTED NOT TO READ THEM?

15 CHAIRMAN KLEIN: NO. NO. ANY MEMBER OF
16 THE PUBLIC AS WELL AS ANY APPLICANT CAN WRITE TO ANY
17 MEMBER OF THIS BOARD. AND THE INFORMATION THAT IS
18 PRESENTED TO THEM CAN BE CONSIDERED IN A PUBLIC
19 HEARING.

20 MS. GIBBONS: THAT'S IT.

21 CHAIRMAN KLEIN: OKAY. THANK YOU. WE
22 WANT TO GET TO SHERRY WHO HAS NOT SPOKEN AND THEN
23 JEFF SHEEHY.

24 MS. LANSING: I JUST WANT TO WITH ALL DUE
25 RESPECT TO BOB, JUST TO SAY THAT I DON'T KNOW WHAT

BARRISTERS' REPORTING SERVICE

1 THE YELLOW ONES ARE. MAYBE THAT'S 69 ALSO. I DON'T
2 KNOW. I MEAN, YOU KNOW, SO I AGREE WITH YOU, THAT
3 AN EMPIRICAL SCORE WITHIN A RANGE, YOU KNOW, IS
4 SOMETHING THAT CAN SHIFT AND THAT THE TWO POINTS
5 DOESN'T MEAN ANYTHING. THE THING THAT'S INTERESTING
6 TO ME IS I DON'T KNOW WHAT ALL THE YELLOW ONES ARE.
7 THEY COULD BE -- THEY COULD BE ONE POINT, THEY COULD
8 BE THE SAME POINT. SO I GUESS WHAT I WOULD SAY IS I
9 URGE US TO REALLY EVALUATE IT BASED ON THE SCIENCE,
10 BASED ON WHETHER IT'S UNIQUE, BASED ON, YOU KNOW,
11 WHETHER WE BELIEVE THAT IT IS SO GOOD THAT WE'RE
12 GOING TO OVERRULE THE TEAM THAT DIDN'T FEEL THAT WAY
13 ABOUT IT. OR IN ALL FAIRNESS, DIDN'T FEEL THAT
14 UNLESS WE FELT PROGRAMMATICALLY IT WAS NECESSARY.

15 DR. PRIETO: MR. CHAIRMAN.

16 CHAIRMAN KLEIN: DR. PRIETO AND THEN ASHA.

17 DR. PRIETO: YEAH. JUST A BRIEF COMMENT.

18 CHAIRMAN KLEIN: DO WE HAVE A -- EXCUSE
19 ME. MY MISTAKE. JEFF SHEEHY.

20 MR. SHEEHY: I JUST -- FIRST OF ALL, I
21 WANT TO ADDRESS THE POINT OF THE LETTER. I WAS
22 MOTIVATED TO READ THAT LETTER. JUST BECAUSE WE GET
23 50 LETTERS DOESN'T MEAN 50 ARE GOING TO BE READ INTO
24 THE RECORD. I READ IT INTO THE RECORD SPECIFICALLY
25 IN TERMS OF THE GOAL OF THE RFA AND THE PROGRAMMATIC

BARRISTERS' REPORTING SERVICE

1 REASON WHY THIS WAS MADE AVAILABLE TO US AT THE
2 WORKING GROUP -- FROM THE WORKING GROUP, WHICH IS
3 STATED IN THE REVIEW. THE MAJOR ADVANCE WILL BE THE
4 DEVELOPMENT OF AN IN VITRO SYSTEM OF THE COMPLEX
5 DISORDER RETT SYNDROME. THAT IS THE POINT OF THIS
6 RFA. THAT'S A PROGRAMMATIC CONSIDERATION FOR US.

7 DO WE WANT TO CREATE A STEM CELL LINE FOR
8 RETT SYNDROME? THAT'S PROGRAMMATIC. THAT'S -- I
9 DO. THAT'S WHY I READ THE LETTER. THAT'S WHY I'M
10 FIGHTING FOR THIS. I DON'T HAVE RETT SYNDROME, BUT
11 SOMEBODY DOES AND WOULD LIKE TO HAVE A DISEASE
12 MODEL. AND I THINK THAT'S WHY WE'RE HERE, AND I
13 DON'T THINK THAT'S OVERRULING THE WORKING GROUP.
14 THAT'S WHY THEY PUT IT IN FOR PROGRAMMATIC
15 CONSIDERATION. YOU MAY FEEL DIFFERENT. YOU MAY NOT
16 FEEL LIKE WE NEED A DISEASE -- THAT WE NEED A STEM
17 CELL LINE FOR THAT CONDITION. THAT TO ME IS WHAT IT
18 ALL BOILS DOWN TO.

19 THESE PEOPLE ARE PERFECTLY CAPABLE AND
20 WILL DEVELOP A STEM CELL LINE BASED ON THIS CRITIQUE
21 BY THE REVIEWERS FOR RETT SYNDROME. I THINK THOSE
22 FOLKS DESERVE TO HAVE A LINE TO STUDY.

23 CHAIRMAN KLEIN: THANK YOU VERY MUCH,
24 JEFF. I BELIEVE DR. PRIETO AND THEN ASHA.

25 DR. PRIETO: I JUST WANT TO REITERATE MY

BARRISTERS' REPORTING SERVICE

1 THOUGHTS ARE ALONG THE LINES OF JEFF'S, THAT I THINK
2 I DON'T FEEL QUALIFIED TO OVERRULE THE SCIENTIFIC
3 REVIEW, BUT I DON'T THINK WE'RE DOING THAT. AND I
4 THINK, AS BOB PRICE PUT IT, THESE NUMERICAL SCORES
5 REALLY DO GIVE US A FALSE NOTION THAT THERE'S SOME
6 RIGID NUMERICAL HIERARCHY THAT I REALLY JUST DON'T
7 THINK EXISTS. OUR DECISION IS PROGRAMMATIC. DO WE
8 THINK THAT THIS SHOULD BE PART OF OUR PROGRAM? AND
9 IF SO, WE SHOULD VOTE FOR IT.

10 CHAIRMAN KLEIN: OKAY. ASHA.

11 DR. NIGH: ALL THE COMMENTS I HAD WERE
12 SPECIFICALLY RELATED TO THE SCIENTIFIC REVIEW, BUT
13 GIVEN THAT THE DISCUSSION HAS MOVED TOWARDS THE
14 PROGRAMMATIC REASONS, I DON'T FEEL NECESSARY TO
15 COMMENT.

16 CHAIRMAN KLEIN: THANK YOU VERY MUCH.
17 YES, DR. POMEROY.

18 DR. POMEROY: I JUST HOPE THAT EVERYBODY
19 UNDERSTANDS THAT A VOTE NOT TO FUND THIS DOESN'T
20 MEAN WE DON'T CARE ABOUT THE DISEASES THAT ARE
21 COVERED IN THIS PROPOSAL. THERE ARE MANY OF THE
22 UNFUNDED ONES THAT ARE ABOUT DISEASES THAT WE CARE
23 DEEPLY ABOUT. AND I THINK I CAN SPEAK FOR EVERY
24 MEMBER ON THIS PANEL THAT I'VE TALKED TO IS WE WOULD
25 LOVE TO HAVE AN ANSWER TO RETT SYNDROME. I THINK

BARRISTERS' REPORTING SERVICE

1 THAT WOULD BE A FANTASTIC THING.

2 THAT, I DO BELIEVE, IS A VERY DIFFERENT
3 QUESTION THAN WHETHER THIS IS AN APPROPRIATE USE OF
4 \$1.7 MILLION.

5 CHAIRMAN KLEIN: OKAY.

6 DR. DAFOE: I JUST WANT TO COMMENT IN
7 ANTICIPATION OF THE VOTE. AND IT'S SIMPLY THAT MY
8 CONCERN IS THAT, DESPITE THE EXPERTISE OF THE
9 INVESTIGATORS, OF THE SCIENTISTS, OUR WORKING GROUP
10 OF SCIENTISTS SUGGESTED IT NOT BE FUNDED. SO I
11 THINK THAT SUGGESTS TO ME THERE IS A BIG FLAW HERE.
12 AND ONE THAT RESONATES WITH ME IS THE DIFFUSENESS OF
13 IT AND THE UNFOCUS BECAUSE I REALIZE THE ISSUE IS A
14 GENERIC TECHNIQUE, BUT THE FACT THAT WE'RE TALKING
15 ABOUT ALS AND RETT SYNDROME AND THEN HEMATOPOETIC
16 CELLS AND THEN HEPATIC CELLS TO ME JUST BEGINS TO
17 SOUND JUST AS THEY SAY TOO UNFOCUSED AND DIFFUSE.
18 SO THAT'S JUST MY COMMENT.

19 CHAIRMAN KLEIN: ALL RIGHT. THANK YOU
20 VERY MUCH. SHERRY, DID YOU HAVE A COMMENT?

21 MS. LANSING: NO.

22 CHAIRMAN KLEIN: YES. SO WHAT I'D LIKE TO
23 DO AT THIS POINT, PUBLIC COMMENT PLEASE IF THERE'S
24 PUBLIC COMMENT. THANK YOU, DR. NIGH.

25 MR. SIMPSON: JOHN SIMPSON FROM CONSUMER

BARRISTERS' REPORTING SERVICE

1 WATCHDOG. THIS GOES TO THE PROCESS. I'D LIKE TO
2 THANK MEMBER SHEEHY FOR READING THAT LETTER INTO THE
3 RECORD, BUT I AM SHOCKED THAT THERE WOULD BE A
4 LETTER DISTRIBUTED TO ALL OF YOU THAT YOU ALL HAVE
5 IN YOUR PACKET THAT WAS NOT MADE AVAILABLE TO THE
6 PUBLIC. AND IT WAS NOT AND SHOULD HAVE BEEN.

7 CHAIRMAN KLEIN: THE INTENTION WOULD HAVE
8 BEEN TO MAKE IT AVAILABLE. SO WE WILL -- GIVEN --
9 WELL, THE STAFF WILL SPECIFICALLY FOCUS ON A
10 CHECKLIST TO MAKE SURE THAT IT IS.

11 MR. SIMPSON: AND THIS SORT OF THING CAME
12 UP BEFORE, AND THERE WAS A SUGGESTION THAT WHEN YOU
13 RECEIVE COMMUNICATIONS, THEY SHOULD ALL BE POSTED IN
14 A PLACE IN ADVANCE OF THE MEETING FOR THE PUBLIC TO
15 READ. I WOULD SUGGEST THAT LETTERS LIKE THIS SHOULD
16 GO INTO THAT KIND OF A FILE SO THAT EVERYBODY CAN
17 READ THEM.

18 CHAIRMAN KLEIN: AND CERTAINLY THAT IS THE
19 INTENT. THE STAFF HAS BEEN WORKING TILL EIGHT OR
20 NINE AT NIGHT. WE JUST HAVE A LACK OF SOME STAFF
21 CAPACITY, BUT WE WILL MAKE SURE IT'S A VITAL ITEM ON
22 THE CHECKLIST. STAFF WORKED VERY HARD IN TRYING TO
23 ACHIEVE THAT GOAL, AND WE'LL JUST WORK HARDER AT IT.
24 THANK YOU.

25 OKAY. I'D LIKE TO CALL THE QUESTION, IF

BARRISTERS' REPORTING SERVICE

1 WE COULD PLEASE, WITH A ROLL CALL.

2 MS. KING: JUST TO REMIND EVERYBODY THAT
3 DR. BRYANT IS IN CONFLICT WITH THIS APPLICATION.

4 DONALD DAFOE.

5 DR. DAFOE: NO.

6 MS. KING: ROBERT PRICE.

7 DR. PRICE: YES.

8 MS. KING: DAVID BRENNER.

9 DR. BRENNER: YES.

10 MS. KING: MARCY FEIT.

11 MS. FEIT: NO.

12 MS. KING: LEEZA GIBBONS.

13 MS. GIBBONS: YES.

14 MS. KING: SAM HAWGOOD.

15 DR. HAWGOOD: NO.

16 MS. KING: BOB KLEIN.

17 CHAIRMAN KLEIN: IF YOU COULD PASS AND
18 COME BACK TO ME.

19 MS. KING: SHERRY LANSING.

20 MS. LANSING: I'D LIKE TO DO THE SAME, BUT
21 I WON'T, SO I'LL SAY NO.

22 MS. KING: LEONARD ROME.

23 DR. ROME: NO.

24 MS. KING: TED LOVE.

25 DR. LOVE: NO.

BARRISTERS' REPORTING SERVICE

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24
25

MS. KING: PHIL PIZZO.
DR. PIZZO: YES.
MS. KING: CLAIRE POMEROY.
DR. POMEROY: NO.
MS. KING: FRANCISCO PRIETO.
DR. PRIETO: YES.
MS. KING: DUANE ROTH.
MR. ROTH: YES.
MS. KING: DAVID SERRANO-SEWELL.
MR. SERRANO-SEWELL: YES.
MS. KING: JEFF SHEEHY.
MR. SHEEHY: YES.
MS. KING: OSWALD STEWARD.
DR. STEWARD: ABSTAIN.
MS. KING: BOB KLEIN.
CHAIRMAN KLEIN: YES.
MS. KING: COUNSEL, I'M GOING TO DEFER TO
YOU.
MR. HARRISON: THE MOTION FAILS.
MR. SERRANO-SEWELL: WHAT WAS THE VOTE?
MR. HARRISON: THE VOTE WAS EIGHT YES, SIX
NO. A QUORUM IS 17, SO YOU NEED A MAJORITY OF THE
QUORUM BECAUSE THERE'S AN ABSTENTION AS WELL AND A
CONFLICT.
MR. SERRANO-SEWELL: SO HOW MANY VOTES DO

BARRISTERS' REPORTING SERVICE

1 YOU NEED FOR A PASSAGE?

2 MR. HARRISON: YOU NEED NINE VOTES FOR
3 PASSAGE.

4 MR. SERRANO-SEWELL: WE HAD ONE
5 ABSTENTION.

6 MR. HARRISON: CORRECT.

7 CHAIRMAN KLEIN: SO THE QUESTION -- I'LL
8 JUST PUT THE QUESTION TO THE PERSON ABSTAINING.

9 DR. STEWARD: YOU KNOW, IF HE HADN'T
10 WRITTEN A LETTER, I WOULD HAVE VOTED YES. I HAVE TO
11 SAY THAT I WAS IN FAVOR OF SUPPORTING THIS.

12 CHAIRMAN KLEIN: DR. POMEROY HAS ASKED,
13 JAMES, DO WE HAVE THE ABILITY TO HAVE A
14 RECONSIDERATION OF THIS MOTION?

15 MR. SERRANO-SEWELL: PEOPLE CAN CHANGE
16 THEIR VOTE.

17 MR. HARRISON: SURE. YES.

18 CHAIRMAN KLEIN: OKAY.

19 (SIMULTANEOUS DISCUSSION.)

20 MS. LANSING: WE'RE GOING TO REVOTE AGAIN?

21 CHAIRMAN KLEIN: WELL, WE'RE GOING TO SEE
22 IF A REVOTE WOULD BE WORTHWHILE OR NOT.

23 MS. LANSING: THEN I'M GOING TO ABSTAIN.

24 DR. PIZZO: WE JUST HEARD THAT IT DIDN'T
25 CARRY AND NOW WE WANT TO REVOTE? SO IS THAT -- THAT

BARRISTERS' REPORTING SERVICE

1 MAKES IT SOUND LIKE, YOU KNOW, YOU'VE GOT SOMETHING
2 THAT YOU WANT TO SEE THE OUTCOME.

3 CHAIRMAN KLEIN: NO. HERE IS THE ISSUE IS
4 THAT WE HAVE SOMETHING THAT --

5 DR. PIZZO: I MEAN I VOTED YES FOR THIS,
6 BUT THE FACT IS, YOU KNOW, WE DID IT, AND WE'RE
7 ASKING TO DO IT AGAIN.

8 CHAIRMAN KLEIN: THE ISSUE HERE, DR.
9 PIZZO, IS THAT WE HAVE A MAJORITY IN FAVOR OF A
10 MOTION; BUT ON AN ISSUE OF A TECHNICAL QUORUM, WE
11 HAVE AN ISSUE THAT IT HASN'T PASSED BECAUSE WE HAVE
12 AN ABSTENTION, RIGHT? SO IT IS NOT A SITUATION
13 WHERE THERE WAS A MINORITY THAT VOTED YES. SO IN
14 THIS FACT PATTERN, I'M TRYING TO ASCERTAIN THIS IS
15 NOT A FACT PATTERN THAT PRESENTS ITSELF FREQUENTLY.

16 DR. PIZZO: THANK GOD.

17 CHAIRMAN KLEIN: YEAH. OKAY. SO THE --
18 SO CAN I ASK TO MAKE SURE --

19 MR. HARRISON: YOU WOULD NEED A MOTION TO
20 RECONSIDER.

21 CHAIRMAN KLEIN: I'M JUST ASKING WHETHER
22 IT'S WORTHWHILE HAVING A VOTE TO RECONSIDER.

23 MR. HARRISON: COULD YOU JUST GIVE US ONE
24 SECOND WHILE WE LOOK CLOSELY AT THE VOTES TO MAKE
25 SURE THAT THE THREE NOTE TAKERS' NOTES ARE ALL

BARRISTERS' REPORTING SERVICE

1 ALIGNED?

2 DR. PIZZO: DO YOU HAVE ANY CHADS THERE,
3 BY THE WAY?

4 CHAIRMAN KLEIN: THIS WOULD BE A GOOD TIME
5 TO -- WHY DON'T WE HAVE A FIVE-MINUTE RECESS.

6 (A RECESS WAS TAKEN.)

7 CHAIRMAN KLEIN: OKAY. IF WE COULD
8 RECONVENE HERE, I THINK OUR PROBLEM HAS BEEN SOLVED
9 FOR US. AND I'D LIKE TO, FOR THE BENEFIT OF THE
10 TRANSCRIBER, INDICATE THAT THE TRANSCRIBER WOULD
11 APPRECIATE IT IF EVERYONE AFTER THEY SPEAK WOULD
12 TURN THEIR MICS OFF BECAUSE IF WE HAD TOO MANY MICS
13 ON, THEN THE NEXT PERSON'S MIC WILL NOT GO ON AND
14 SHE CAN'T HEAR IT. AND ALSO DON'T MOVE YOUR MIC
15 RIGHT UP AGAINST YOU BECAUSE THAT ALSO DISTORTS THE
16 SOUND FOR THE PEOPLE IN THE AUDIENCE, INCLUDING THE
17 TRANSCRIBER. I GOT IT RIGHT? THANK YOU.

18 SO LET US GET A CLARIFICATION. I WANT TO
19 BE VERY CAREFUL WITH THIS BECAUSE IN LISTENING TO
20 THE VOTE, I WAS CONCERNED WITH THE VOTE. BUT THE
21 TIME THEY'VE HAD TO GO BACK THROUGH IT, I'D LIKE TO
22 GET A CORRECTED VOTE, AND I'D LIKE TO CONFIRM -- I'D
23 LIKE THEM TO READ OFF EACH OF THE VOTES SO THAT WE
24 CAN CONFIRM THAT WE HAVE THE VOTES CORRECTLY. OKAY.
25 GO AHEAD.

BARRISTERS' REPORTING SERVICE

1 MR. HARRISON: SO FIRST OF ALL, LET ME
2 APOLOGIZE BECAUSE WE DID HAVE A COMPUTATIONAL ERROR,
3 WHICH IS WHY WE ASKED FOR THE BRIEF DELAY SO WE
4 COULD CROSS VERIFY AND MAKE SURE THAT WE HAD DONE IT
5 CORRECTLY. SO THE ULTIMATE OUTCOME WAS NINE YES
6 VOTES, SIX NO VOTES, AND ONE ABSTENTION. SO BECAUSE
7 THE MOTION HAD A MAJORITY OF A QUORUM VOTE YES, IT
8 PASSED.

9 FOR THE RECORD, THE VOTES WERE AS FOLLOWS:
10 DAFOE, NO; PRICE, YES; BRENNER, YES; FEIT, NO;
11 GIBBONS, YES; HAWGOOD, NO; KLEIN, YES; LANSING, NO;
12 ROME, NO; LOVE, NO; PIZZO, YES; POMEROY, NO; PRIETO,
13 YES; ROTH, YES; SERRANO-SEWELL, YES; SHEEHY, YES;
14 STEWARD, ABSTAIN.

15 CHAIRMAN KLEIN: OKAY. NOW, LET ME ASK A
16 MORE BASIC QUESTION. NINE AND SIX IS 15.

17 MR. HARRISON: I'M SORRY. THERE WAS ONE
18 CONFLICT.

19 CHAIRMAN KLEIN: OKAY. ALL RIGHT. THANK
20 YOU. I JUST WANTED TO MAKE SURE WE'RE TECHNICALLY
21 CORRECT.

22 MR. HARRISON: I'M SORRY. THERE ARE SEVEN
23 NOES.

24 CHAIRMAN KLEIN: OKAY. THAT'S -- SO IF
25 THE -- SOMEONE MIGHT HAVE NOTICED THAT I WAS TRYING

BARRISTERS' REPORTING SERVICE

1 TO KEEP TRACK WHEN I PASSED, AND I WOULD NOT HAVE
2 VOTED IF IT WOULDN' T HAVE MADE A DIFFERENCE. AND SO
3 WHEN I VOTED, I THOUGHT THAT IT DID MAKE A
4 DIFFERENCE. BUT IN ANY CASE, WHAT IS IMPORTANT HERE
5 IS THAT WE DO HAVE THREE DIFFERENT PEOPLE KEEPING
6 THESE RECORDS. AND IMMEDIATELY AFTER A VOTE, WE
7 CROSS VALIDATE THEM TO MAKE CERTAIN THAT IF WE' VE
8 MADE AN ERROR, WE HAVE A WAY TO CORRECT IT. SO THE
9 SYSTEM INCURRED AN ERROR AND CORRECTED ITSELF.

10 DR. PIZZO: IT ONLY CORRECTED ITSELF
11 BECAUSE WE HAD AN ABSTENTION. OTHERWISE WE MIGHT
12 NOT HAVE KNOWN.

13 CHAIRMAN KLEIN: WELL, THE --

14 DR. PIZZO: YOU DON' T HAVE TO COMMENT
15 FURTHER, BOB. JUST FOR THE RECORD.

16 CHAIRMAN KLEIN: ALL RIGHT. AT THIS POINT
17 I' D ALSO LIKE TO MAKE A POINT THAT -- DR. TROUNSON,
18 MY UNDERSTANDING THAT THERE WAS ONE GRANT IN THE NOT
19 RECOMMENDED CATEGORY THAT, IN FACT, THERE WAS A
20 PROBLEM WITH IT THAT IT TECHNICALLY HAS TO BE
21 REREVIEWED; IS THAT CORRECT?

22 DR. TROUNSON: THANKS, CHAIR. THERE
23 IS -- THERE' S ONE GRANT THAT I RECOMMENDED,
24 FOLLOWING DISCUSSIONS WITH THE CHAIR OF THE WORKING
25 GROUP, THAT WE TAKE BACK FOR REEXAMINATION.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: THAT'S NOT ON THIS LIST.

2 DR. TROUNSON: NO.

3 CHAIRMAN KLEIN: SO IT WILL COME TO US
4 LATER?

5 DR. TROUNSON: YEP.

6 CHAIRMAN KLEIN: OKAY. THANK YOU. AND OF
7 THE GRANTS THAT ARE BEFORE US TODAY, I THINK
8 THAT -- MELISSA KING, HOW MANY MEMBERS DO WE HAVE
9 TOMORROW PRESENT?

10 MS. KING: TWENTY-TWO.

11 CHAIRMAN KLEIN: TWENTY-TWO. SO WE
12 ADD --

13 MS. KING: EXCUSE ME. TWENTY-ONE.

14 CHAIRMAN KLEIN: TWENTY-ONE. SO I THINK
15 THAT THE GENERAL INTENT WAS TO TRY AND HAVE THE LAST
16 VOTE ON THIS GROUP OF GRANTS TOMORROW MORNING WHEN
17 WE HAVE THE ADDITIONAL MEMBERS. IS THAT A CORRECT
18 STATEMENT?

19 MS. KING: WELL --

20 MS. LANSING: WHY DON'T WE DO IT NOW?
21 LET'S DO IT NOW. LET'S HAVE A VOTE.

22 CHAIRMAN KLEIN: THAT'S FINE. WE STILL
23 HAVE OUR QUORUM. OKAY. WE STILL HAVE OUR QUORUM
24 BEFORE US. ALL RIGHT. SO, JEFF, YOU WANT TO
25 PROCEED?

BARRISTERS' REPORTING SERVICE

1 MR. SHEEHY: SO I BELIEVE, JAMES, WHAT'S
2 THE APPROPRIATE MOTION AT THIS POINT?

3 MR. HARRISON: THE APPROPRIATE MOTION IS
4 FOR SOMEONE WHO DOESN'T HAVE AN INTEREST IN ANY OF
5 THE APPLICATIONS THAT ARE WITHIN TIER 1 TO MAKE A
6 MOTION TO FUND ALL OF THE APPLICATIONS IN TIER 1.

7 MR. SHEEHY: THE NONCONFLICTED MEMBERS ARE
8 DUANE ROTH, DAVID SERRANO-SEWELL.

9 MS. KING: TED LOVE, LEEZA GIBBONS.

10 CHAIRMAN KLEIN: SO WOULD ONE OF THE
11 MEMBERS WHO DOES NOT HAVE A CONFLICT WITH ANY
12 APPLICATIONS LIKE TO MAKE MOTION? DR. LOVE.

13 DR. LOVE: I SO MOVE.

14 CHAIRMAN KLEIN: OKAY. SECOND?

15 DR. PRICE: SECOND.

16 CHAIRMAN KLEIN: YOU CAN'T SECOND.

17 MS. GIBBONS: I SECOND.

18 CHAIRMAN KLEIN: LEEZA IS THE EASIER
19 SECOND. OKAY. NOW, I THINK JEFF WAS CONFUSED THAT
20 ONE OF THEM MIGHT HAVE BEEN FROM BERKELEY, BUT IT'S
21 NOT. OKAY. SO THE MOTION HAS BEEN MADE AND
22 SECONDED. IS THERE PUBLIC DISCUSSION? IS THERE
23 DISCUSSION FROM THE PUBLIC? SEEING NO PUBLIC
24 COMMENT, IS THERE MEMBER DISCUSSION?

25 I CAN HAVE A ROLL CALL, AND I WILL REMIND

BARRISTERS' REPORTING SERVICE

1 YOU IF YOU VOTE, VOTE FOR THOSE WITH WHICH YOU DO
2 NOT HAVE A CONFLICT. JAMES, WOULD YOU LIKE
3 ADDITIONAL INSTRUCTION?

4 MR. HARRISON: NO. THAT'S FINE. THAT WAS
5 THE REMINDER I WANTED TO MAKE.

6 MS. KING: DONALD DAFOE.

7 CHAIRMAN KLEIN: YOU WOULD VOTE -- IF YOU
8 ARE IN FAVOR, YOU WOULD VOTE YES FOR ALL OF THOSE
9 FOR WHICH I DO NOT HAVE A CONFLICT.

10 DR. DAFOE: YES.

11 MS. KING: YES, EXCEPT FOR THOSE WITH
12 WHICH YOU HAVE A CONFLICT.

13 DR. DAFOE: YES.

14 MS. KING: ROBERT PRICE.

15 DR. PRICE: YES, AND I HAVE NO CONFLICT,
16 SO I VOTE FOR ALL OF THEM.

17 MS. KING: DAVID BRENNER.

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

20 MS. KING: SUSAN BRYANT.

21 DR. BRYANT: YES, EXCEPT FOR THOSE THAT I
22 HAVE A CONFLICT.

23 MS. KING: MARCY FEIT.

24 MS. FEIT: YES, EXCEPT FOR THOSE IN WHICH
25 I HAVE A CONFLICT.

BARRISTERS' REPORTING SERVICE

1 MS. KING: LEEZA GIBBONS.

2 MS. GIBBONS: YES.

3 MS. KING: SAM HAWGOOD.

4 DR. HAWGOOD: YES, EXCEPT FOR THOSE THAT I
5 HAVE A CONFLICT.

6 MS. KING: BOB KLEIN.

7 CHAIRMAN KLEIN: YES.

8 MS. KING: SHERRY LANSING.

9 MS. LANSING: YES, EXCEPT FOR THOSE WITH
10 WHICH I AM CONFLICTED.

11 MS. KING: LEONARD ROME.

12 DR. ROME: YES, EXCEPT FOR THOSE FOR WHICH
13 I AM CONFLICTED.

14 MS. KING: TED LOVE.

15 DR. LOVE: YES.

16 MS. KING: PHIL PIZZO.

17 DR. PIZZO: YES, EXCEPT FOR THOSE FOR
18 WHICH I HAVE A CONFLICT.

19 MS. KING: CLAIRE POMEROY.

20 DR. POMEROY: YES, EXCEPT FOR THOSE FOR
21 WHICH I HAVE A CONFLICT.

22 MS. KING: FRANCISCO PRIETO.

23 DR. PRIETO: YES, EXCEPT FOR THOSE FOR
24 WHICH I HAVE A CONFLICT.

25 MS. KING: DUANE ROTH.

BARRISTERS' REPORTING SERVICE

1 MR. ROTH: YES.

2 MS. KING: DAVID SERRANO-SEWELL.

3 MR. SERRANO-SEWELL: YES.

4 MS. KING: JEFF SHEEHY.

5 MR. SHEEHY: YES, EXCEPT FOR THOSE WITH
6 WHICH I HAVE A CONFLICT.

7 MS. KING: AND OSWALD STEWARD.

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

10 MS. KING: THAT MOTION CARRIES.

11 CHAIRMAN KLEIN: OKAY. THANK YOU VERY
12 MUCH. AND I'D LIKE TO THANK THE SCIENTIFIC TEAM FOR
13 THE TREMENDOUS AMOUNT OF WORK IN THIS.

14 (APPLAUSE.)

15 CHAIRMAN KLEIN: WHAT I'D LIKE TO DO --

16 MS. PACTER: MR. CHAIR, THERE NEEDS TO BE
17 AN ADDITIONAL MOTION NOT TO FUND THE APPLICATIONS IN
18 TIER 2.

19 CHAIRMAN KLEIN: IN TIER 3.

20 MS. PACTER: WHAT REMAINS IN TIER 3.

21 CHAIRMAN KLEIN: ALL RIGHT. OKAY. SO WHO
22 WOULD LIKE TO MAKE THE MOTION NOT TO FUND THOSE IN
23 TIER 3?

24 DR. LOVE: I'LL DO IT. SO MOVED.

25 CHAIRMAN KLEIN: DR. LOVE AND DR. PRIETO.

BARRISTERS' REPORTING SERVICE

1 DR. POMEROY: YOU CAN'T.

2 DR. PRIETO: OH, I CAN'T. I'M SORRY.

3 MR. ROTH: SECOND.

4 CHAIRMAN KLEIN: SECOND IS DUANE ROTH.

5 OKAY. DR. LOVE MADE THE MOTION; DUANE ROTH SECONDED
6 THE MOTION. ADDITIONAL DEBATE? MEMBERS OF THE
7 PUBLIC? SEEING NONE, ROLL CALL.

8 MS. KING: DONALD DAFOE.

9 DR. DAFOE: NO, EXCEPT FOR THOSE WITH
10 WHICH I HAVE A CONFLICT.

11 MR. HARRISON: LET ME JUST RESTATE THE
12 MOTION FOR THE BENEFIT OF THE MEMBERS. THE MOTION
13 IS NOT TO FUND THE REMAINING APPLICATIONS, THOSE IN
14 TIER 3, SO A YES VOTE WOULD MEAN THEY WOULD NOT BE
15 FUNDED.

16 DR. POMEROY: SO DO IT AGAIN.

17 DR. DAFOE: YES, EXCEPT FOR THOSE ON WHICH
18 I HAVE -- FOR WHICH I HAVE -- ON WHICH I AM
19 CONFLICTED.

20 CHAIRMAN KLEIN: I THINK WE HAVE A CLEAR
21 ENOUGH RECORD OF THAT VOTE.

22 MS. KING: ROBERT PRICE.

23 DR. PRICE: YES.

24 MS. KING: DAVID BRENNER.

25 DR. BRENNER: YES, EXCEPT THOSE I'M IN

BARRISTERS' REPORTING SERVICE

1 CONFLI CT.

2 MS. KING: SUSAN BRYANT.

3 DR. BRYANT: YES, EXCEPT FOR THOSE WITH
4 WHI CH I HAVE A CONFLI CT.

5 MS. KING: MARCY FEIT.

6 MS. FEIT: YES, EXCEPT FOR MY CONFLI CTS.

7 MS. KING: LEEZA GIBBONS.

8 MS. GIBBONS: YES.

9 MS. KING: SAM HAWGOOD.

10 DR. HAWGOOD: YES, EXCEPT FOR THOSE FOR
11 WHI CH I HAVE A CONFLI CT.

12 MS. KING: BOB KLEIN.

13 CHAIRMAN KLEIN: YES, EXCEPT FOR THOSE FOR
14 WHI CH I HAVE A CONFLI CT.

15 MS. KING: SHERRY LANSING.

16 MS. LANSING: YES, EXCEPT FOR THOSE WITH
17 WHI CH I HAVE A CONFLI CT.

18 MS. KING: LEONARD ROME.

19 DR. ROME: YES, EXCEPT FOR THOSE FOR WHI CH
20 I HAVE A CONFLI CT.

21 MS. KING: TED LOVE.

22 DR. LOVE: YES.

23 MS. KING: PHI L PI ZZO.

24 DR. PI ZZO: YES.

25 MS. KING: CLAI RE POMEROY.

BARRISTERS' REPORTING SERVICE

1 DR. POMEROY: YES, EXCEPT FOR THOSE FOR
2 WHICH I HAVE A CONFLICT.

3 MS. KING: FRANCISCO PRIETO.

4 DR. PRIETO: YES, EXCEPT FOR THOSE FOR
5 WHICH I HAVE A CONFLICT.

6 MS. KING: DUANE ROTH.

7 MR. ROTH: YES.

8 MS. KING: DAVID SERRANO-SEWELL.

9 MR. SERRANO-SEWELL: YES.

10 MS. KING: JEFF SHEEHY.

11 MR. SHEEHY: YES, EXCEPT FOR THOSE WITH
12 WHICH I HAVE A CONFLICT.

13 MS. KING: AND OSWALD STEWARD.

14 DR. STEWARD: YES, EXCEPT FOR THOSE WITH
15 WHICH I HAVE A CONFLICT.

16 MS. KING: ALL RIGHT. AND THAT MOTION
17 CARRIES.

18 CHAIRMAN KLEIN: ALL RIGHT. BOTH COUNSEL,
19 ARE WE PREPARED TO MOVE TO THE NEXT ITEM? OKAY.
20 WHAT I WOULD LIKE TO DO IS NOT BREAK UP THE DISEASE
21 TEAM DISCUSSION, SO WHAT I'D LIKE TO DO, IF
22 POSSIBLE, IS HAVE -- COVER A COUPLE OF ITEMS THAT WE
23 CAN DO QUICKLY IF THAT'S ACCEPTABLE, DR. TROUNSON?

24 DR. TROUNSON: YEAH, SURE.

25 CHAIRMAN KLEIN: SO THE CONSIDERATION OF

BARRISTERS' REPORTING SERVICE

1 THE CONCEPT PLAN FOR TRANSLATION -- THE
2 TRANSLATIONAL RFA. WOULD THAT BE SOMETHING THAT WE
3 COULD DO AT THIS MOMENT?

4 DR. TROUNSON: I'M SURE OUR STAFF WILL BE
5 READY IN A MOMENT. ROSA.

6 DR. PIZZO: VOTES ON ANY OF THE OTHER
7 ITEMS?

8 CHAIRMAN KLEIN: YES. CONCEPT RFA IS.

9 DR. POMEROY: I THINK THE QUESTION IS HOW
10 ARE THEY --

11 DR. PIZZO: ACTUALLY I DO HAVE SOMETHING I
12 NEED TO GET TO.

13 CHAIRMAN KLEIN: OKAY. WOULD TEN MINUTES
14 BE ALL RIGHT? NO.

15 DR. PRICE: PIZZO HAS A LATE DATE.

16 CHAIRMAN KLEIN: NO. COULD WE -- HOW
17 ABOUT IF WE CONSIDERED THIS ITEM AND THEN ADJOURNED?
18 ALL RIGHT.

19 DR. CANET-AVILES: I'M GOING TO SPEAK
20 FAST.

21 CHAIRMAN KLEIN: THIS IS THE CONSIDERATION
22 OF THE CONCEPT PLAN FOR TRANSLATIONAL RFA.

23 DR. CANET-AVILES: CHAIRMAN KLEIN AND
24 BOARD MEMBERS, STAFF, AND MEMBERS OF THE AUDIENCE,
25 TODAY I WOULD LIKE TO PRESENT A CONCEPT PROPOSAL FOR

BARRISTERS' REPORTING SERVICE

1 THE EARLY TRANSLATIONAL RFA AND REQUEST APPROVAL FOR
2 CONCEPT CLEARANCE FOR THE TRANSLATIONAL I GRANT.
3 THIS IS AGENDA ITEM NO. 15 IN YOUR BINDERS.

4 EARLY TODAY BOARD MEMBERS -- WELL, NO.
5 THAT'S GOING TO BE TOMORROW ACTUALLY. SO TOMORROW
6 BOARD MEMBERS ARE GOING TO CONSIDER THE
7 RECOMMENDATIONS FROM THE GRANTS WORKING GROUP ON
8 EXISTING PLANNING APPLICATIONS.

9 MR. ROTH: MR. CHAIRMAN.

10 DR. CANET-AVILES: TRANSLATIONAL I IS PART
11 OF THE CIRM PROGRAM THAT BEGAN WITH THE DISEASE TEAM
12 INITIATIVE TO FUND PROGRAMS THAT WILL HELP BRING THE
13 STEM CELL-BASED THERAPIES TO THE CLINIC.

14 THIS DIAGRAM THAT YOU'VE ALL SEEN MANY
15 TIMES REPRESENTS THE PATH THAT THE TYPICAL THERAPY
16 WOULD TAKE FROM DISCOVERY TOWARD CLINICAL TESTING
17 WITH THE SCOPE OF THE EARLY TRANSLATIONAL, WHAT WE
18 CALL ALSO TRANSLATIONAL I RESEARCH. HERE I WOULD
19 LIKE TO DRAW THE ATTENTION OF THE BOARD TO THE FACT
20 THAT THE KEY OBJECTIVE OF THE TRANSLATIONAL I
21 RESEARCH AWARDS WILL BE THE IDENTIFICATION OF A
22 DEVELOPMENT CANDIDATE THAT HAS THE NECESSARY
23 SUPPORTIVE DATA, INCLUDING ACTIVITY IN RELEVANT IN
24 VITRO AND IN VIVO MODELS OF DISEASE, TO BE
25 CONSIDERED FOR FURTHER FUNDING UNDER A SEPARATE RFA,

BARRISTERS' REPORTING SERVICE

1 TRANSLATIONAL II, FOR ACTIVITIES TO ENABLE A
2 REGULATORY FILING FOR CLINICAL TESTING.

3 ACTIVITIES GOING FROM A DEVELOPMENT
4 CANDIDATE LEADING TO THE APPROVAL OF AN IND OR
5 INVESTIGATIONAL NEW DRUG, WILL BE ALSO COVERED BY
6 THE DISEASE TEAM AWARDS, THE SCOPE OF WHICH WILL BE
7 FULLY ADDRESSED BY DR. STEFFEN, AND IT HAS ALREADY
8 BEEN ADDRESSED.

9 THE GOAL FOR THIS RFA IS TO PROVIDE
10 FUNDING TO ENSURE THAT PROMISING DISCOVERIES IN STEM
11 CELL RESEARCH CAN BE TRANSLATED INTO POTENTIAL STEM
12 CELL BASED-CURES, THERAPIES, AND DIAGNOSTICS FOR THE
13 BENEFIT OF PATIENTS.

14 IN TERMS OF THE SCOPE FOR THIS RFA, THIS
15 AWARD WILL SUPPORT TWO TYPES OF EARLY TRANSLATIONAL
16 RESEARCH, INCLUDING RESEARCH THAT RESULTS IN A
17 DEVELOPMENT CANDIDATE THAT MEETS A MEDICAL NEED.
18 THIS RESEARCH WILL BE THEN ELIGIBLE FOR FURTHER
19 FUNDING UNDER A SEPARATE RFA, TRANSLATIONAL II, FOR
20 ACTIVITIES TO ENABLE A REGULATORY FILING FOR
21 CLINICAL TESTING.

22 A SECOND KEY OBJECTIVE OF THIS RFA WILL BE
23 TO FIND SOLUTIONS TO BOTTLENECKS FOR EFFECTIVE
24 TRANSLATIONAL THAT, IF OVERCOME, COULD ALLOW THE
25 MORE RAPID ADVANCEMENT OF DISCOVERIES IN STEM CELL

BARRISTERS' REPORTING SERVICE

1 BIOLOGY TO THE IDENTIFICATION OF BETTER DEVELOPMENT
2 CANDIDATES FOR CLINICAL TESTING.

3 IN TERMS OF PRINCIPAL INVESTIGATOR
4 ELIGIBILITY, THE CIRM TRANSLATIONAL RESEARCH
5 AWARDS PROGRAM WILL BE OPEN TO PRINCIPAL
6 INVESTIGATORS WITH A PH. D. , AN M. D. , OR AN
7 EQUIVALENT DEGREE WHO ARE AUTHORIZED BY THE
8 APPLICANT INSTITUTION TO CONDUCT THE RESEARCH, WHICH
9 MEANS THAT THEY HAVE DOCUMENTED AUTHORITY FROM THE
10 APPLICANT INSTITUTION TO STAFF THE PROPOSED PROJECT
11 AND ACCESS TO SPACE AND SHARED RESOURCES SUFFICIENT
12 TO CARRY OUT THE PROPOSED RESEARCH.

13 GIVEN THE CRITICAL IMPORTANCE AND
14 MAGNITUDE OF THESE AWARDS, CIRM WILL WANT A
15 10-PERCENT MINIMUM EFFORT COMMITMENT BY THE
16 PRINCIPAL INVESTIGATOR IN THIS RFA.

17 TRANSLATIONAL RESEARCH IS OFTEN MOST
18 EFFECTIVELY CONDUCTED BY A MULTIDISCIPLINARY TEAM,
19 AND CIRM ENCOURAGES PI'S, PRINCIPAL INVESTIGATORS,
20 TO FORM SUCH COLLABORATIVE ENDEAVORS, INCLUDING
21 COLLABORATION BETWEEN NONPROFIT AND FOR-PROFIT
22 INSTITUTIONS.

23 IN TERMS OF INSTITUTIONAL ELIGIBILITY,
24 NONPROFIT AND FOR-PROFIT INSTITUTIONS WILL BE
25 ELIGIBLE TO APPLY FOR THESE AWARDS. NONPROFIT

BARRISTERS' REPORTING SERVICE

1 APPLICANT INSTITUTIONS WITH ACCREDITED MEDICAL
2 SCHOOLS WILL BE ELIGIBLE TO SUBMIT UP TO THREE
3 APPLICATIONS. OTHER NONPROFIT INSTITUTIONS AND
4 FOR-PROFIT INSTITUTIONS WITH OVER 500 EMPLOYEES WILL
5 BE ELIGIBLE TO SUBMIT UP TO TWO APPLICATIONS.
6 NONPROFIT AND FOR-PROFIT APPLICANT INSTITUTIONS WITH
7 FEWER THAN 500 EMPLOYEES MAY SUBMIT ONE APPLICATION.

8 CIRM PROPOSES TO FUND UP TO TEN THREE-YEAR
9 AWARDS WITH JUSTIFIABLE PROJECT COST OF UP TO \$1.2
10 MILLION PER YEAR FOR A TOTAL PROGRAM COST OF UP TO
11 \$60 MILLION.

12 CIRM HAS ESTABLISHED THE FOLLOWING
13 PROVISIONAL TIMETABLE FOR THIS RFA WHICH COULD BE
14 RELEASED IN AUGUST OF 2008, AND YOU CAN SEE THE
15 TIMETABLE.

16 CHAIRMAN KLEIN: AND CAN I ASK WHAT DATE?
17 AND THE REASON I'M ASKING IT, WHAT DATE IS OUR
18 AUGUST MEETING?

19 DR. CANET-AVILES: 12 AND 13.

20 CHAIRMAN KLEIN: 12 AND 13TH. AND WHAT
21 I'D LIKE TO CALL ATTENTION TO IS THAT IT'S A MINIMUM
22 EFFORT, AND A COUPLE OF THESE OTHER CRITERIA THERE
23 IS A TASK FORCE WORKING. IT'S MADE GREAT PROGRESS.
24 IT SHOULD BE CONCLUDING ITS WORK BY THIS TIME, AND
25 SO, FOR EXAMPLE, THE MINIMUM EFFORTS COULD BECOME A

BARRISTERS' REPORTING SERVICE

1 RECOMMENDED MINIMUM EFFORT WITH THE PRESIDENT HAVING
2 THE ABILITY TO MAKE EXCEPTIONS. AND IT'S MY
3 UNDERSTANDING, DR. TROUNSON, THAT THE RESULTS OF
4 THAT TASK FORCE WORK, AS THEY'RE BROUGHT BACK TO
5 THIS BOARD, WOULD BE INCORPORATED IN THE ACTUAL
6 ISSUANCE OF THE RFA. IS THAT A CORRECT STATEMENT?

7 DR. TROUNSON: YOU KNOW, I THINK THAT'S
8 RIGHT. SORRY. I DIDN'T PICK UP THE FIRST PART OF
9 YOUR --

10 CHAIRMAN KLEIN: THIS IS GOING TO BE, IT
11 APPEARS, TO BE ISSUED RIGHT AFTER THE NEXT BOARD
12 MEETING. AND AT THE NEXT BOARD MEETING, IT'S OUR
13 INTENT TO HAVE FULFILLED THE TASK FORCE THAT'S
14 ADDRESSING THE ISSUE OF MINIMUM EFFORT, FOR EXAMPLE.

15 DR. TROUNSON: OH, I SEE. YES.

16 CHAIRMAN KLEIN: WE MAY HAVE A RECOMMENDED
17 MINIMUM EFFORT.

18 DR. TROUNSON: YES.

19 CHAIRMAN KLEIN: AND THE PRESIDENT HAVE
20 BUILT TO MAKE EXCEPTIONS SO THAT THOSE REFINEMENTS
21 WOULD BE INCLUDED IN THIS RFA.

22 DR. TROUNSON: WE AGREED WITH THE
23 SUBCOMMITTEE TO DISCUSS THAT AT THE NEXT MEETING,
24 AND SO I THINK YOU'RE RIGHT ABOUT THE TIMING, YES.

25 CHAIRMAN KLEIN: OKAY. THANK YOU. I'M

BARRISTERS' REPORTING SERVICE

1 SORRY. THANK YOU.

2 DR. CANET-AVILES: SO, THEREFORE, CIRM
3 REQUESTS TO THE BOARD MEMBERS APPROVAL OF THE
4 CONCEPT PLAN FOR THE CIRM TRANSLATIONAL I RFA.

5 CHAIRMAN KLEIN: THANK YOU. DISCUSSION?
6 DR. STEWARD.

7 DR. STEWARD: I DON'T KNOW WHETHER THIS IS
8 MORE APPROPRIATE WHEN THE FULL PROPOSAL COMES
9 FORWARD, BUT MAYBE IT IS BECAUSE I THINK THERE ARE
10 SOME THINGS TO THINK ABOUT, AND CERTAINLY TIME
11 EFFORT IS ONE.

12 THE OTHER ONE THAT I'M A LITTLE CONCERNED
13 ABOUT, THIS SEEMS TO IMPLY THAT THIS WOULD BE A
14 SINGLE PROPOSAL FROM AN INSTITUTION. BY THAT I MEAN
15 THERE WOULD NOT BE AN OPPORTUNITY FOR TWO OR
16 SOMETIMES MORE INSTITUTIONS TO COME TOGETHER
17 COLLABORATIVELY WITH MULTIPLE PI'S. AND I WOULD
18 JUST SAY THAT FOR SOME SMALL FOCI OF DISORDER, IT
19 MIGHT BE HIGHLY ADVANTAGEOUS TO HAVE A MULTICAMPUS
20 REPRESENTATION.

21 CHAIRMAN KLEIN: DR. TROUNSON.

22 DR. TROUNSON: DR. STEWARD, THAT'S PART OF
23 THE DISCUSSIONS WE'RE HAVING WITH THE SUBCOMMITTEE.
24 THAT WILL BE RESOLVED. WE WOULD CONTINUE TO
25 ANTICIPATE THE BUILDING OF TEAMS IN POSSIBLY ALL OUR

BARRISTERS' REPORTING SERVICE

1 GRANTS UNLESS THERE'S SOME REASON WHY THEY'D BE
2 SPECIFICALLY INSTITUTE ORIENTED; FOR EXAMPLE,
3 TRAINEE GRANTS. SO WE HOPE TO COME BACK WITH A SET
4 OF RECOMMENDATIONS, AS I SAID, AT THE NEXT BOARD
5 MEETING, AND THAT WILL BE BASED ON THE DISCUSSIONS
6 WE'RE HAVING WITH THE SUBCOMMITTEE.

7 CHAIRMAN KLEIN: OKAY. THANK YOU. DR.
8 OLSON.

9 DR. OLSON: BUT I WOULD JUST MAKE THE
10 POINT THAT I DON'T THINK THAT IT WOULD BE -- THERE
11 CERTAINLY IS NOTHING INTENDED IN THIS CONCEPT THAT
12 WOULD PRECLUDE, YOU KNOW, INSTITUTIONS TO
13 COLLABORATE WITH EACH OTHER IN ORDER TO, YOU KNOW,
14 PUT FORTH A RESEARCH PROPOSAL. HOWEVER, THERE WILL
15 BE A PRINCIPAL INVESTIGATOR.

16 CHAIRMAN KLEIN: JEFF SHEEHY AND THEN
17 DUANE ROTH.

18 MR. SHEEHY: WELL, SHOULD WE PERHAPS MAYBE
19 LEAVE SOME FLEXIBILITY IN THE NUMBERS BECAUSE THAT
20 COULD BE A DETRIMENT IF IT COUNTS AGAINST YOUR THREE
21 OR YOUR TWO OR YOUR ONE. AND I ABSOLUTELY AGREE
22 WITH THE NEED TO LIMIT BECAUSE, AS WE CAN SEE,
23 PERHAPS WE GAVE ACADEMIC INSTITUTIONS TOO MANY TOOL
24 AND TECHNOLOGY APPLICATIONS BECAUSE THEY SURE CAME
25 BACK WITH A LOT. AND INDUSTRY WAS NOT THE BIG

BARRISTERS' REPORTING SERVICE

1 BREAKOUT, IN FACT, THAT WAS ANTICIPATED. IT WAS
2 ACTUALLY THE ACADEMIC RESEARCH INSTITUTIONS THAT
3 SUBMITTED THE OVERAGE.

4 BUT IT WOULD BE HELPFUL TO GET THE
5 RATIONALE FOR THE THREE, TWO, ONE AT SOME POINT. I
6 DON'T WANT TO KEEP DR. PIZZO, BUT, YOU KNOW, I WOULD
7 LIKE TO UNDERSTAND HOW WE DERIVED THAT FORMULA.

8 CHAIRMAN KLEIN: SO, JEFF, I THINK THAT
9 THE GOAL IS THAT AT THE BOARD MEETING ON THE 12TH,
10 THERE WILL BE A DISCUSSION OF THIS, OF THESE ITEMS,
11 AND THIS APPROVAL WILL BE RECONCILED TO THE
12 FINALIZATION OF THOSE ITEMS. THAT'S MY
13 UNDERSTANDING. DR. OLSON.

14 DR. OLSON: WELL, I THINK IT'S THE GENERAL
15 CONCEPT OF, YOU KNOW, ARE WE -- UNDER WHAT
16 CIRCUMSTANCES DO WE SET LIMITS THAT THE TASK FORCE
17 IS ADDRESSING, UNDER WHAT CIRCUMSTANCE -- WHAT KIND
18 OF PERCENT EFFORT REQUIREMENT SO THAT THE TASK
19 FORCE, I BELIEVE, AND DR. PIZZO IS, OF COURSE,
20 WELCOME TO CORRECT ME, IS ADDRESSING THE GENERAL
21 PRINCIPLES AS OPPOSED TO THE SPECIFICS.

22 DR. PIZZO: THAT'S RIGHT. IT IS THE
23 GENERAL PRINCIPLES, JEFF, NOT THE SPECIFICS THAT
24 WE'VE DONE. I THINK THOSE SHOULD BE TOPICS FOR
25 DISCUSSION; HOWEVER, OBVIOUSLY AT THE ENTIRE BOARD.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: BUT, FOR EXAMPLE, IF THE
2 QUESTION IS APPROPRIATELY BROUGHT UP HERE IS HOW
3 EVERYONE, AS A GENERAL PRINCIPLES, RECOGNIZES THE
4 NEED TO LIMIT THE NUMBER OF APPLICATIONS TO BE
5 APPROPRIATELY DEALT WITH. THE QUESTION THAT WAS
6 BROUGHT UP THAT PROBABLY NEEDS TO BE REFINED IS HOW
7 ARE WE GOING TO COUNT JOINT APPLICATIONS BETWEEN
8 INSTITUTIONS AGAINST THE ALLOCATION GIVEN TO
9 INSTITUTIONS? THAT COULD BE ADDRESSED IN THE AUGUST
10 MEETING IS THE INTENT SO THAT EVERYONE HAS A CLEAR
11 UNDERSTANDING.

12 DR. OLSON: WELL, AND AGAIN, I WOULD JUST
13 MAKE THE POINT THAT THE SPECIFIC ALLOCATION MAY
14 DEPEND ON THE TYPE OF RFA. AND SO I THINK IT'S,
15 AGAIN, THE GENERAL PRINCIPLE. AND, YOU KNOW,
16 TYPICALLY THIS IS THE PLACE WHERE WE ADDRESS THAT
17 KIND OF QUESTION, AT THE CONCEPT APPROVAL.

18 CHAIRMAN KLEIN: OKAY. OS STEWARD.
19 DR. STEWARD.

20 DR. STEWARD: YEAH. JUST YOUR LAST
21 COMMENT WENT SORT OF QUICKLY, AND I JUST WOULD
22 ENCOURAGE SOME MAYBE THOUGHT ABOUT THAT, THAT BEING
23 THAT THERE IS ONLY ONE PI. IF WE'RE GOING TO HAVE
24 REAL COLLABORATIVE VENTURES BETWEEN MULTIPLE
25 INSTITUTIONS, I THINK THAT THERE MIGHT BE A NEED TO

BARRISTERS' REPORTING SERVICE

1 CONSIDER CO-PI 'S ON THESE KINDS OF THINGS.

2 DR. OLSON: SORRY. I DID NOT MEAN TO
3 SUGGEST THAT WE WERE AGAINST THE NOTION OF CO-PI 'S.
4 WE ARE FULLY SUPPORTIVE OF IT. WE DO NOT -- WE ARE
5 TRYING TO PUT IN PLACE THE INFRASTRUCTURE THAT WILL
6 ALLOW US TO DO THAT. OUR SYSTEM, AS YOU -- I THINK,
7 AS DR. TROUNSON HIGHLIGHTED TO YOU, WE ARE
8 IMPLEMENTING OUR GRANTS MANAGEMENT SYSTEM, AND THAT
9 SYSTEM ALLOWS FOR A SINGLE PRINCIPAL INVESTIGATOR,
10 BUT WE CAN ACKNOWLEDGE CO-PI 'S AS FAR AS FROM AN
11 INSTITUTIONAL BASIS THAT THEY RECEIVE CREDIT AS
12 BEING, YOU KNOW, HAVING THE SCIENTIFIC AND THE
13 LEADERSHIP INPUT INTO THE PROJECT, THAT FROM A
14 BRINGING MONEY INTO AN INSTITUTION, ALTHOUGH, AGAIN,
15 OUR SYSTEM MAY PRECLUDE US, IT LOOKS LIKE IT WILL
16 PRECLUDE US FROM PAYING -- WE WILL ONLY BE ABLE TO
17 PAY ONE. WE ARE TRYING TO PUT IN PLACE WAYS THAT
18 WILL ENSURE THAT A CO-PI GETS CREDIT FOR BRINGING
19 MONEY TO AN INSTITUTION AS WELL.

20 SO THOSE ARE THE THINGS THAT WE NEED TO
21 ADDRESS SPECIFICALLY, BUT RECOGNIZING THAT WE ARE
22 SUPPORTIVE OF THE CONCEPT OF CO-INVESTIGATORS. IT'S
23 THE NOTION OF A LEADER AMONG EQUALS, I THINK, IN A
24 LOT OF THESE CASES.

25 CHAIRMAN KLEIN: THE ISSUE, TO MAKE IT

BARRISTERS' REPORTING SERVICE

1 CLEAR, IS OUR GRANTS MANAGEMENT SYSTEM, FOR
2 FINANCIAL ACCOUNTABILITY, IS SET UP RIGHT NOW TO
3 HAVE A LEAD PI FOR FINANCIAL ACCOUNTABILITY SO THAT
4 THERE IS INPUT AND RECONCILIATION TO ONE INSTITUTION
5 ON EACH GRANT. HOW THEY REDISTRIBUTE THOSE FUNDS
6 ACCORDING TO THE MANAGEMENT PROGRAM OF A TEAM IS
7 BETWEEN INSTITUTIONS, BUT THEY ARE GOING TO TRY AND
8 MODIFY THAT SYSTEM LATER. THIS IS WHAT WE CAN WORK
9 WITH AT THE MOMENT.

10 DR. BRYANT.

11 DR. BRYANT: I WAS JUST WONDERING, SINCE
12 THAT WILL CAUSE SOME PROBLEMS, I THINK, AMONGST
13 PEOPLE, I MEAN IT'S BETTER IF IT'S NOT THAT WAY.
14 NOT ACKNOWLEDGING CO-PI'S HAS BEEN, NOT THIS
15 INSTITUTION, BUT IN GENERAL WHEN SYSTEMS DON'T DO
16 THAT, IT'S JUST NOT SATISFACTORY. AND IT'S NOT
17 APPROPRIATE REALLY.

18 BUT SO I WAS GOING TO SAY I UNDERSTAND
19 YOU'RE WORKING ON IT, BUT IN THE MEANTIME, IF YOU'RE
20 HAVING MULTI-INSTITUTIONAL AWARDS, WHY DON'T YOU
21 REVIEW THE PROPOSAL AS ONE LUMP AND THEN GIVE EACH
22 INSTITUTION A SUBAWARD SEPARATELY SO THAT THE PI AT
23 EACH -- THE CO-PI AT EACH INSTITUTION THEN WOULD
24 BE -- WOULD HAVE THAT. I MEAN IT'S A PAPER WAY OF
25 DOING IT, BUT I THINK IT WOULD HELP.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: LET' S --

2 DR. PIZZO: CAN I JUST --

3 CHAIRMAN KLEIN: LET' S DO THIS. FOR THE
4 PURPOSES -- THERE' S A LOT OF GOOD POINTS BEING
5 RAISED AND PUT ON THE TABLE HERE. DR. PIZZO HAS A
6 SPECIFIC TIME CONSTRAINT HERE. WE ARE GOING TO
7 BRING BACK THIS FOR FULL DISCUSSIONS IN THE AUGUST
8 BOARD MEETING, INCLUDING INTERIM TASK FORCE
9 DISCUSSIONS ON IT. DR. PIZZO.

10 DR. PIZZO: I THINK THE COMMITTEE IS HAPPY
11 THAT I HAVE A TIME CONSTRAINT, BUT I WOULD SAY THAT
12 WE ARE MOVING INTO A DISCUSSION WHICH IS BEYOND THIS
13 SPECIFIC PROPOSAL, BUT BEGS A REALLY IMPORTANT SET
14 OF ISSUES WITH REGARD TO EFFORT, CO-PI' S, ETC., FOR
15 WHICH THERE HAS BEEN AT THE SUBCOMMITTEE LEVEL A LOT
16 OF DISCUSSION AND WHICH WE SHOULD CONTINUE AT THE
17 NEXT MEETING BECAUSE THESE ARE VERY IMPORTANT
18 POINTS.

19 AND I WILL JUST UNDERSCORE THAT THE
20 SUBCOMMITTEE FAVORS CO-PI' S, AND I THINK THAT THERE
21 WILL BE DISCUSSION ABOUT THAT. AND WE CAN' T LET THE
22 SYSTEM GET IN THE WAY OF ACHIEVING SOMETHING THAT WE
23 ALL WANT TO ACCOMPLISH.

24 CHAIRMAN KLEIN: ALL RIGHT. AND TO BE
25 LEGALLY ACUTE, THIS IS A TASK FORCE AS VERSUS A

BARRISTERS' REPORTING SERVICE

1 COMMITTEE. I USED THE WRONG TERM. IT IS A TASK
2 FORCE.

3 DR. PIZZO: I USED THE WRONG TERM BECAUSE
4 YOU DID IT.

5 CHAIRMAN KLEIN: I KNOW. I TAKE
6 RESPONSIBILITY FOR THAT MISCREANT ACTIVITY.

7 MR. ROTH: CHAIRMAN KLEIN, I KNOW THE HOUR
8 IS GETTING LATE, AND I REALLY -- THERE'S SOME
9 QUESTIONS IN THE EARLIER SLIDES THAT GET TO WHO'S
10 ELIGIBLE AND HOW YOU SET THAT CRITERIA THAT LOOK
11 PRETTY SPECIFIC TO ME. AND WHEN I VOTE ON THIS, IF
12 WE VOTED TONIGHT, I WOULD CERTAINLY WANT TO MAKE
13 SURE THAT AT THE AUGUST MEETING THINGS CAN CHANGE
14 AND IT DOESN'T COME, HERE IT IS. WE ARE READY TO GO
15 WITH THE RFA.

16 CHAIRMAN KLEIN: THAT'S WHY I CONFIRMED
17 WITH DR. TROUNSON THAT THE WORK OF THE TASK FORCE
18 WOULD, IN FACT, COME TO THIS BOARD AUGUST 12TH, AND
19 THIS WOULD BE RECONCILED TO THAT OUTCOME TO THE
20 EXTENT THAT THE PRINCIPLES THAT WERE ADOPTED WERE
21 INCONSISTENT WITH THIS.

22 MR. ROTH: WELL, IT'S JUST THE CRITERIA.
23 THIS IS TOO IMPORTANT OF AN AWARD, TRANSLATIONAL.
24 WE'RE STARTING AT \$60 MILLION, AND TO NOT HAVE
25 EVERYBODY HAVE A CHANCE TO FIGURE OUT IF THEY CAN

BARRISTERS' REPORTING SERVICE

1 GET INCLUDED HERE OR NOT, YOU KNOW, I SAW MEDICAL
2 SCHOOLS, AFFILIATIONS, AND THINGS LIKE THAT.

3 CHAIRMAN KLEIN: I WOULD HOPE, TO MOVE
4 THIS ALONG -- I WOULD HOPE TO MOVE THIS ALONG, THAT
5 WE CAN VOTE TO APPROVE THIS FOR THE CONTENT
6 SCIENTIFICALLY AND MEDICAL CONTENT HERE AND THE
7 DIRECTION AND AS TO THE -- AS TO THE NUMBER AND HOW
8 THEY'RE RECONCILED TO THESE CRITERIA TO ALLOW THE
9 STAFF AND THE TASK FORCE TO CONTINUE TO REFINE THEIR
10 PRINCIPLES. AND AT THE AUGUST MEETING RECONCILE
11 THESE VERY SPECIFIC ITEMS ON THE CONTROL AND THE
12 NUMBERS TO THE EXTENT WE HAVE SOMETHING THAT'S
13 DISPARATE FROM THE PRINCIPLE THAT'S FINALLY ARRIVED
14 AT. DOES THAT MAKE SENSE, DR. TROUNSON? OR WOULD
15 YOU LIKE TO TAKE A DIFFERENT APPROACH?

16 DR. TROUNSON: NO. I THINK THE PRINCIPLE
17 HERE IS THAT THERE WILL BE SOME GENERAL PRINCIPLES
18 THAT UNDERLINE WHAT WE'RE TALKING ABOUT. NO. 1, WE
19 NEED TO DERIVE THOSE, AND SO THAT HAS BEEN AN
20 ONGOING DISCUSSION, AND WE'LL CONTINUE AND WE WILL
21 HOPEFULLY HAVE A CONSENSUS VIEW WHEN WE COME TO THE
22 NEXT BOARD.

23 YOU KNOW, THERE'S NO DOUBT ABOUT IT, THAT
24 WE'VE GOT TO HAVE SOME LIMITATIONS BUILT IN HERE.
25 SOME OF -- THE REASONS FOR SOME OF THESE NUMBERS ARE

BARRISTERS' REPORTING SERVICE

1 THAT, YOU KNOW, IF YOU HAVE A SMALL COMPANY OR IF
2 YOU HAVE A SMALL RECENTLY SET-UP INSTITUTION, IT'S
3 NOT THE SAME AS IF YOU'VE GOT A MAJOR COMPANY OR A
4 MAJOR INSTITUTION. AND SO WE'RE TRYING TO REFLECT
5 SOME DIFFERENCES. WE'RE TRYING TO SORT OF MAKE SOME
6 GRADIENT IN HERE BECAUSE, YOU KNOW, THERE NEEDS TO
7 BE SOME LIMITS.

8 BUT WHEN YOU COME TO CO-PI'S, HOW THEY GET
9 COUNTED IS CLEARLY IMPORTANT. AT THIS STAGE WE HAVE
10 A ONE-MILLION-DOLLAR GRANTIUM SYSTEM. I'M NOT ABOUT
11 TO PULL OUT THE GRANTIUM -- \$1 MILLION OF GRANTIUM
12 SYSTEM TO COPE WITH CO-PI'S. WE WILL RECONSTRUCT IT
13 AS WE MOVE, BUT IT WILL TAKE US SOME TIME BECAUSE
14 THE SOFTWARE DOESN'T ALLOW US TO HAVE MULTIPLE
15 INSTITUTIONS THERE. SO WE'RE ACTUALLY GOING TO GET
16 THIS SYSTEM IN FUNCTIONING, AND THEN WE'RE GOING TO
17 WORK TOWARDS GETTING WHAT WE NEED OUT OF IT.

18 SO I THINK YOU HAVE TO ALLOW US IN
19 MANAGEMENT TO DO WHAT WE CAN AND WORK WITHIN THE
20 GENERAL PRINCIPLES.

21 AND THE OTHER THING, OF COURSE, IS THESE
22 WILL BE REALLY IMPORTANT GRANTS, VERY MUCH IN THE
23 TRANSLATIONAL PIPELINE. WE'LL BE LOOKING FOR REALLY
24 KEY ENTITIES TO COME IN THERE. THEY WILL NOT BE
25 REQUIRED TO HAVE AN IND IN FOUR TO FIVE YEARS AS

BARRISTERS' REPORTING SERVICE

1 DISEASE TEAMS ARE, BUT THEY WILL BE BUILDING ON THE
2 HOPES OF ALL OF US TO MOVE US TOWARDS THE
3 OPPORTUNITY TO GET INTO THAT DISEASE TEAM FRAMEWORK.

4 AND SO WHAT WE WANT TO DO IS BE ABLE TO
5 PICK UP THOSE EARLY ELEMENTS THAT CANNOT GET INTO
6 IND IN THAT SHORT TIMEFRAME. AND WE'LL BE LOOKING
7 FOR THE VERY BEST APPLICATIONS THAT ARE CONCEIVABLE
8 THAT DO NOT, YOU KNOW, MEET THOSE CRITERIA. AND SO
9 WE'LL BE TOUGH. WE'LL BE HOPEFUL, AND WE'LL
10 LOGICALLY WANT PARTNERSHIPS IN THIS AREA.

11 SO I THINK UNDER THE TERMS OF THE ICOC'S
12 NEEDS HERE, WE'LL CERTAINLY TAKE ON BOARD WHAT THE
13 GENERAL PRINCIPLES ARE AND HOPEFULLY APPLY IT IN AN
14 APPROPRIATE WAY IN ORDER TO GET THE KIND OF OUTCOMES
15 THAT WE'RE LOOKING FOR.

16 CHAIRMAN KLEIN: OKAY.

17 DR. OLSON: I WOULD JUST MAKE ONE --

18 CHAIRMAN KLEIN.

19 CHAIRMAN KLEIN: DR. OLSON.

20 DR. OLSON: IF I COULD MAKE ONE ADDITIONAL
21 COMMENT. THE NUMBERS WERE ALSO -- THEY WERE
22 ESSENTIALLY MODELED AMONG THE KIND OF -- THE
23 INSTITUTIONS WHO HAVE APPLIED TO US SO FAR. AND,
24 YOU KNOW, THINKING THAT IF WE'RE TALKING
25 TRANSLATIONAL, THAT IF YOU HAVE A MEDICAL SCHOOL,

BARRISTERS' REPORTING SERVICE

1 THEN YOU MAY HAVE MORE, YOU KNOW, MORE PEOPLE WHO
2 MIGHT HAVE CERTAIN APPLICANTS. AGAIN, I THINK
3 YOU'VE ALREADY HEARD THE DISCUSSION ABOUT THE
4 COMPANY SIZE, AND WE RECOGNIZE THAT THERE'S SOME
5 VERY GOOD IDEAS IN SMALL COMPANIES, BUT WE'RE
6 TALKING ABOUT A \$2-MILLION-A-YEAR AWARD, AND WE'D
7 LIKE YOU TO THINK ABOUT IT.

8 ALSO, THESE ARE LIKELY TO BE COMPLEX
9 APPLICATIONS, MORE SO THAN SOME OF OUR OTHER ONES.
10 SO, AGAIN, WE ARE TRYING TO THINK ABOUT THE
11 REVIEWERS AND THEIR WORKLOAD. WE WOULD RATHER NOT
12 GET IN A SITUATION AS WE ARE WITH THE TOOLS AND
13 TECHNOLOGIES WHERE SUDDENLY ONE REVIEW BECOMES TWO.
14 SO THOSE ARE JUST THINGS, AND THAT'S THE POINT THAT
15 I MADE WHEN, YOU KNOW, I REFERRED TO THE PRINCIPLES
16 THAT THE TASK FORCE IS ADDRESSING IS THAT, IN
17 GENERAL, YOU KNOW, THE NOTION OF WHAT -- I MEAN
18 THESE ARE NOT THE KIND OF LIMITATIONS I MIGHT -- WE
19 MIGHT RECOMMEND TO THE BOARD FOR A DIFFERENT TYPE OF
20 RFA. YOU KNOW, THEY MAY VARY WITH THE NATURE OF THE
21 RFA.

22 I THINK, YOU KNOW, THE TASK FORCE AND
23 MANAGEMENT, YOU KNOW, IS TAKING IN GENERAL THE
24 OPINION THAT WE MAY HAVE TO HAVE SOME LIMITS IN SOME
25 CASES, BUT THE NATURE OF THE LIMITS, I FORESEE, IS

BARRISTERS' REPORTING SERVICE

1 MORE RFA SPECIFIC THAN NOT. SO THOSE ARE THE
2 THOUGHTS I WOULD LEAVE THE BOARD WITH.

3 CHAIRMAN KLEIN: AND, DR. OLSON, JUST AS A
4 POINT FOR CONSIDERATION, UNDER THE FIRST CATEGORY,
5 UNDERSTANDING THE CRITERIA, YOU MIGHT CONSIDER THAT
6 A QUESTION WOULD ARISE AT THE AUGUST MEETING: WHAT
7 DO YOU DO IF YOU HAVE A NONPROFIT INSTITUTION THAT
8 APPLIES WITH A RESEARCH HOSPITAL?

9 DR. OLSON: NO. AND AGAIN, THOSE ARE -- I
10 THINK THOSE ARE DETAILS WE HAVE TO CONSIDER. AND IF
11 THEY HAVE A CO-PI OR A COLLABORATING INSTITUTION, IN
12 THE PAST OUR APPROACH HAS BEEN THEY'RE NOT PRECLUDED
13 FROM HAVING A PI APPLYING AS PI.

14 CHAIRMAN KLEIN: RIGHT. OKAY. THANK YOU.
15 SO IT'S BEEN A GOOD DISCUSSION. IS THERE A MOTION
16 ON THE TABLE FOR APPROVAL?

17 MS. LANSING: SO MOVED.

18 CHAIRMAN KLEIN: SHERRY LANSING MOVES. IS
19 THERE A SECOND?

20 DR. HAWGOOD: SECOND.

21 CHAIRMAN KLEIN: SECOND, DR. HAWGOOD. IS
22 THERE PUBLIC COMMENT? SEEING NONE, IS THERE ANY
23 ADDITIONAL BOARD COMMENT?

24 MR. ROTH: I'M GOING TO MAKE ONE VERY
25 QUICKLY JUST SO I UNDERSTAND THE MOTION. THE MOTION

BARRISTERS' REPORTING SERVICE

1 IS CONCEPT ONLY.

2 MS. LANSING: YES.

3 MR. ROTH: IT'S NOT APPROVING THIS SET OF
4 SLIDES?

5 CHAIRMAN KLEIN: IT IS WITH AN
6 UNDERSTANDING THAT THIS SET OF SLIDES WILL BE
7 RECONCILED TO THE PRINCIPLES THAT ARE ADOPTED AT THE
8 AUGUST MEETING BASED UPON THE TASK FORCE INPUT AND
9 THE DEBATE IN THE AUGUST MEETING OF THIS BOARD.

10 MR. ROTH: OKAY. I JUST WANT TO MAKE SURE
11 THAT WE'RE NOT VOTING ON WHAT'S ON THOSE SLIDES.

12 CHAIRMAN KLEIN: WE ARE VOTING ON WHAT'S
13 ON THESE SLIDES, BUT, IN FACT, WE WILL HAVE A VOTE
14 IN THE AUGUST MEETING ON OUR PRINCIPLES --

15 MR. SERRANO-SEWELL: THEY CAN'T ISSUE THE
16 RFA, RIGHT?

17 CHAIRMAN KLEIN: THE RFA WILL BE
18 RECONCILED TO THE AUGUST MEETING'S PRINCIPLES BEFORE
19 IT IS ISSUED.

20 DR. POMEROY: BOB.

21 MR. SERRANO-SEWELL: IT'S NOT ISSUED UNTIL
22 AFTER AUGUST.

23 CHAIRMAN KLEIN: THAT'S MY UNDERSTANDING.

24 DR. POMEROY: IT'S NOT ISSUED UNTIL AFTER
25 AUGUST, BUT WE WON'T SEE IT AGAIN. THAT WAS A

BARRISTERS' REPORTING SERVICE

1 QUESTION.

2 CHAIRMAN KLEIN: WE CAN -- LET ME ASK A
3 QUESTION TO HELP HOPEFULLY PROMOTE THIS. DR.
4 TROUNSON, AT THE AUGUST TASK FORCE MEETING, IN ORDER
5 TO PROVIDE A TANGIBLE UNDERSTANDING OF THE
6 PRINCIPLES, IT WOULD BE MY EXPECTATIONS THAT THIS
7 BOARD WOULD LIKE TO BE ABLE TO DISCUSS HOW THOSE
8 PRINCIPLES MIGHT APPLY TO THIS RFA. SO WOULD IT BE
9 APPROPRIATE AT THE AUGUST MEETING TO HAVE THE
10 RECONCILIATION OF THE PRINCIPLES ADDRESSED?

11 DR. TROUNSON: YEAH. I THINK I'D PROBABLY
12 PREFER TO USE THE TASK FORCE TO ENSURE THAT IT'S
13 WITHIN THE PRINCIPLES, BUT I DON'T NECESSARILY WANT
14 TO COME BACK HERE AND DEBATE THE WHOLE THING AGAIN.
15 IF IN CONCEPT IT'S APPROVED, THEN I THINK THE
16 DETAILS OF IT NEED TO BE WITHIN THE FRAMEWORK OF THE
17 GENERAL AGREEMENT. SO I'M NOT SURE THAT -- YOU
18 KNOW, I'M NOT SURE WE WANT TO BRING IT BACK, THE
19 WHOLE CONCEPT DISCUSSION AGAIN.

20 CHAIRMAN KLEIN: I'M FEELING THE SENSE OF
21 COMMITTEE IS THAT THE ISSUE ON THE APPLICATION --
22 HOW THE APPLICATION NUMBERS ARE APPLIED AND ISSUES
23 LIKE MINIMUM EFFORT, THE ISSUES THAT ARE UNDER
24 CONSIDERATION OF THE TASK FORCE, THOSE ITEMS
25 SPECIFICALLY WOULD BE DISCUSSED IN THE CONTEXT OF

BARRISTERS' REPORTING SERVICE

1 THE TASK FORCE REPORT.

2 DR. PIZZO: RIGHT. CAN I JUST AFFIRM
3 THIS. I THINK DUANE SAID IT THE WAY I WOULD HAVE
4 SAID IT, WHICH IS WE'RE ASKING FOR A CONCEPTUAL
5 APPROVAL FOR THE TRANSLATIONAL AWARDS WITH AN
6 APPROXIMATE NUMBER BEING TEN THREE-YEAR AWARDS AT
7 THE X, \$1.2 MILLION PER YEAR UP TO \$2 MILLION A
8 YEAR. AND THEN THE DETAILS OF HOW THEY'RE GOING TO
9 BE ALLOCATED TO SPECIFIC INVESTIGATORS OR
10 INSTITUTIONS IS GOING TO BE DELINEATED AS A
11 CONSEQUENCE OF THE DISCUSSION AND THE
12 RECOMMENDATIONS THAT COME FROM THE TASK FORCE.

13 CHAIRMAN KLEIN: OKAY. IS THAT -- THAT IS
14 MY UNDERSTANDING. IS THAT THE MOTION, MAKER OF THE
15 MOTION?

16 MS. LANSING: THAT WAS MY UNDERSTANDING
17 AND THAT WAS THE MOTION.

18 CHAIRMAN KLEIN: AND IS THAT THE
19 UNDERSTANDING OF THE SECOND?

20 DR. HAWGOOD: YES, SIR.

21 DR. POMEROY: WITH THE UNDERSTAND -- THIS
22 IS A QUESTION ABOUT THE MOTION. WITH THE
23 UNDERSTANDING THAT IT WILL NOT BE COMING BACK TO
24 THIS BOARD AGAIN, THAT THAT WILL BE DELEGATED TO
25 STAFF ON THE BASIS OF THE TASK FORCE RECOMMENDATION?

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: BUT RECONCILED TO
2 THOSE --

3 DR. PIZZO: THE TASK FORCE RECOMMENDATIONS
4 ARE GOING TO COME TO THE ICOC.

5 CHAIRMAN KLEIN: YES.

6 DR. POMEROY: RIGHT. BUT THIS RFA WILL
7 NOT COME BACK HERE?

8 DR. PIZZO: RIGHT.

9 MS. LANSING: IT WILL ADHERE TO THE TASK
10 FORCE RECOMMENDATIONS AND THE TASK FORCE --

11 DR. PIZZO: IT WILL ADHERE TO THE ICOC
12 DECISIONS ON THE TASK FORCE RECOMMENDATIONS.

13 CHAIRMAN KLEIN: ON THOSE PRINCIPLES.
14 OKAY.

15 DR. PIZZO: PRINCIPLES, RIGHT.

16 CHAIRMAN KLEIN: SO WE HAVE A
17 DISTINGUISHED MEMBER OF THE PUBLIC?

18 MR. SIMPSON: I CAN'T HELP BUT ASK THE
19 QUESTION. EVERY OTHER TASK FORCE THAT YOU'VE HAD
20 HAS DONE EVERYTHING IN PUBLIC. I KNOW OF NO TASK
21 FORCE MEETINGS THAT HAVE BEEN DONE PUBLICLY OR
22 DISCUSSIONS OF THE TASK FORCE. DO YOU HAVE -- THIS
23 IS THE FIRST WE'VE HEARD OF THE TASK FORCE, I THINK.

24 CHAIRMAN KLEIN: NO. THIS IS A TASK FORCE
25 THAT WAS DESIGNATED AT THE MARCH BOARD MEETING. IT

BARRISTERS' REPORTING SERVICE

1 IS A TWO-PERSON TASK FORCE.

2 MR. SIMPSON: I WOULD HAVE EXPECTED THAT
3 THEY WOULD HAVE FOLLOWED THE USUAL PROCEDURES AS THE
4 LOAN TASK FORCE DID.

5 CHAIRMAN KLEIN: THERE'S A VERY LIMITED
6 SCOPE, AND THE INTENT WAS TO BRING IT BACK FOR A
7 FULL PUBLIC HEARING AS A PART OF THE BOARD MEETING
8 AND A FULL PUBLIC DEBATE ON THEIR REPORT BECAUSE WE
9 DON'T HAVE A LARGE MEMBERSHIP. THIS IS JUST A
10 TWO-PERSON. SO THE WHOLE BOARD NEEDS TO PARTICIPATE
11 WITH THE PUBLIC IN RECEIVING THE REPORT AND DEBATING
12 THE REPORT.

13 MR. SIMPSON: THANK YOU.

14 CHAIRMAN KLEIN: YEAH. MORE PROPERLY, IT
15 MAY BE CALLED A STUDY GROUP. OKAY.

16 DR. PIZZO: A DUET.

17 CHAIRMAN KLEIN: THANK YOU. WE HAVE A
18 MOTION ON THE FLOOR. WE HAVE CALLED THE QUESTION.
19 ALL IN FAVOR. OPPOSED? MOTION PASSES.

20 WE ARE ADJOURNED UNTIL WHAT TIME IN THE
21 MORNING?

22 MS. KING: 8:30.

23 CHAIRMAN KLEIN: 8:30 IN THE MORNING.

24 (THE MEETING WAS THEN ADJOURNED AT 10:40
25 P.M. TO RECONVENE AT 8:30 A.M. ON JUNE 27, 2008.)

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

SHERATON GATEWAY SFO
600 AIRPORT BOULEVARD
BURLINGAME, CALIFORNIA
ON
JUNE 26, 2008

WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE STENOGRAPHICALLY 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
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