

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: HYATT REGENCY SAN FRANCISCO
AIRPORT
1333 BAYSHORE HIGHWAY
BURLINGAME, CALIFORNIA

DATE: JANUARY 29, 2015
9 A.M.

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

BRS FILE NO.: 97151

BARRISTERS' REPORTING SERVICE

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BARRISTERS' REPORTING SERVICE

1 BURLINGAME, CALIFORNIA; JANUARY 29, 2015

2 9 A.M.

3

4

CHAIRMAN THOMAS: OKAY. WE'RE

5

BROADCASTING LIVE FROM BEAUTIFUL BURLINGAME,

6

CALIFORNIA. LIKE TO WELCOME EVERYBODY TO THE

7

JANUARY MEETING OF THE ICOC. MARIA, WILL YOU PLEASE

8

LEAD US IN THE PLEDGE OF ALLEGIANCE.

9

(THE PLEDGE OF ALLEGIANCE.)

10

CHAIRMAN THOMAS: MARIA, WILL YOU PLEASE

11

CALL THE ROLL.

12

MS. BONNEVILLE: DAVID BRENNER. KEN

13

BURTIS.

14

DR. BURTIS: PRESENT.

15

MS. BONNEVILLE: ANNE-MARIE DULIEGE.

16

DR. DULIEGE: PRESENT.

17

MS. BONNEVILLE: ELIZABETH FINI.

18

DR. FINI: PRESENT.

19

MS. BONNEVILLE: MICHAEL FRIEDMAN.

20

DR. FRIEDMAN: HERE.

21

MS. BONNEVILLE: JUDY GASSON.

22

DR. GASSON: HERE.

23

MS. BONNEVILLE: DAVID HIGGINS.

24

DR. HIGGINS: PRESENT.

25

MS. BONNEVILLE: STEPHEN JUELSGAARD.

BARRISTERS' REPORTING SERVICE

1 SHERRY LANSING. KATHY LAPORTE.

2 DR. LAPORTE: HERE.

3 MS. BONNEVILLE: JACOB LEVIN. BERT LUBIN.

4 SHLOMO MELMED.

5 DR. MELMED: HERE.

6 MS. BONNEVILLE: LAUREN MILLER.

7 MS. MILLER: HERE.

8 MS. BONNEVILLE: LLOYD MINER.

9 DR. MINOR: HERE.

10 MS. BONNEVILLE: JOE PANETTA.

11 MR. PANETTA: HERE.

12 MS. BONNEVILLE: FRANCISCO PRIETO.

13 DR. PRIETO: HERE.

14 MS. BONNEVILLE: ROBERT QUINT. AL

15 ROWLETT.

16 DR. ROWLETT: HERE.

17 MS. BONNEVILLE: JEFF SHEEHY.

18 MR. SHEEHY: HERE.

19 MS. BONNEVILLE: OSWALD STEWARD. JONATHAN

20 THOMAS.

21 CHAIRMAN THOMAS: HERE.

22 MS. BONNEVILLE: ART TORRES.

23 MR. TORRES: HERE.

24 MS. BONNEVILLE: CARL WARE.

25 DR. WARE: HERE.

BARRISTERS' REPORTING SERVICE

1 MS. BONNEVILLE: DONNA WESTON. DIANE
2 WINOKUR.

3 MS. WINOKUR: HERE.

4 MS. BONNEVILLE: BRUCE WINTROUB.

5 CHAIRMAN THOMAS: THANK YOU, MARIA. I'VE
6 CHANGED VENUES OVER HERE. THANK YOU. I'VE CHANGED
7 VENUES. GOING TO HAVE A SLIDE PRESENTATION HERE AS
8 PART OF MY CHAIR'S REPORT.

9 BEFORE WE GET TO THAT, WE HAVE A COUPLE OF
10 NEW MEMBERS, ONE WHO IS HERE AND ONE WHO'S COMING
11 MOMENTARILY. SO PLEASE WELCOME KATHY LAPORTE.
12 KATHY, WOULD YOU SAY A FEW WORDS ABOUT YOUR
13 BACKGROUND FOR EVERYBODY?

14 DR. LAPORTE: HI, EVERYBODY. I'M KATHY
15 LAPORTE. I'M REALLY HONORED TO BE HERE. MY
16 BACKGROUND IS BACHELOR'S DEGREE IN BIOLOGY FROM
17 YALE, A DECISION NOT TO GO TO MEDICAL SCHOOL AND A
18 DECISION TO GO TO BUSINESS SCHOOL AT STANFORD ALONG
19 THE WAY, AND MOST OF MY CAREER, ABOUT 25 YEARS, HAS
20 BEEN IN VENTURE CAPITAL, FUNDING MOSTLY EARLY STAGE
21 AND THEN DEVELOPING COMPANIES LARGELY IN -- ALL IN
22 HEALTHCARE, BIOPHARMACEUTICALS, MEDICAL DEVICES, AND
23 DIAGNOSTICS, AND NOW A LITTLE BIT OF DIGITAL HEALTH.
24 AND I ALSO CURRENTLY HAVE AN OPERATING ROLE AS CHIEF
25 BUSINESS OFFICER OF A BIOTECH COMPANY CALLED

BARRISTERS' REPORTING SERVICE

1 NODALITY JUST UP THE STREET.

2 CHAIRMAN THOMAS: THANK YOU VERY MUCH.
3 WHEN DR. BRUCE WINTROUB ARRIVES, WE'LL HAVE HIM SAY
4 A BIT ON HIMSELF AS WELL. SO EVERYBODY PLEASE
5 WELCOME KATHY.

6 (APPLAUSE.)

7 CHAIRMAN THOMAS: SO IT WAS AN INTERESTING
8 AND EVENTFUL KICKOFF TO THE NEW YEAR UP IN
9 SACRAMENTO. MR. SENATOR AND DR. MILLS AND I WERE UP
10 FOR THE SWEARING IN CEREMONIES OF THE CONSTITUTIONAL
11 OFFICERS. I'D LIKE TO HAVE ART SAY A FEW WORDS
12 ABOUT THAT AND ABOUT SORT OF THE STATE OF THINGS UP
13 THERE.

14 MR. TORRES: THANK YOU, MR. CHAIRMAN.
15 THAT JANUARY 5TH IS A VERY BUSY DAY WHEN EVERY
16 CONSTITUTIONAL OFFICER GETS SWORN IN. IT STARTED AT
17 9 A.M. WITH OUR CONTROLLER, BETTY YEE, WHO'S A VERY
18 CLOSE FRIEND AND WILL BE VERY HELPFUL TO US AND VERY
19 SUPPORTIVE OF CIRM. AND HER NEW HEALTH POLICY
20 DIRECTOR, ALAN LOFASO, WHO I'VE KNOWN FOR MANY YEARS
21 AS WELL.

22 OUR NEW STATE TREASURER IS JOHN CHIANG,
23 VERY FAMILIAR TO ALL OF US. HE ASKED ME TO
24 OFFICIATE AT HIS SWEARING IN. I DID GLADLY. AND IT
25 WAS A VERY, VERY GOOD EVENT WITH A LOT OF FOLKS FROM

BARRISTERS' REPORTING SERVICE

1 ALL OVER THE STATE WHO ATTENDED.

2 AND, AGAIN, I HAD THE OPPORTUNITY
3 INTRODUCE DR. MILLS AND J.T. TO THE CROWD AT THE
4 TIME, AND THAT WAS VERY IMPORTANT. AND EVEN JOHN
5 MENTIONED IN HIS REMARKS HOW GRATEFUL HE WAS FOR THE
6 WORK THAT WE'RE DOING IN THE STEM CELL ARENA. SO
7 FOR SOMEONE WHO'S GOING TO ISSUE OUR BONDS, I THINK
8 IT'S IMPORTANT TO HAVE THAT GOOD RELATIONSHIP.

9 AND THE GOVERNOR GAVE HIS USUAL TEN-MINUTE
10 STATE OF THE UNION AND INAUGURAL SPEECH ALL IN ONE,
11 WHICH WE WERE ALL VERY GRATEFUL FOR. IT WAS BRIEF
12 AND TO THE POINT.

13 AND, OF COURSE, OUR OWN LIEUTENANT
14 GOVERNOR AND ATTORNEY GENERAL WERE SWORN IN. LITTLE
15 DID WE KNOW THAT THEY HAD A PACT ALREADY GOING AS TO
16 WHO WOULD RUN FOR THE U.S. SENATE AND WHO WOULD RUN
17 FOR GOVERNOR DOWN THE ROAD. BUT IT TURNED OUT TO BE
18 A VERY EVENTFUL EVENT AND ALSO FOR THE LEADERSHIP OF
19 BOTH HOUSES OF THE LEGISLATURE, WHICH WE'RE GOING TO
20 COUNT ON FOR SUPPORT AS WE MOVE FORWARD.

21 CHAIRMAN THOMAS: THANK YOU, ART.

22 THE BIG EVENT IN BIOTECHNOLOGY THAT TAKES
23 PLACE EVERY JANUARY IS THE J.P. MORGAN CONFERENCE IN
24 SAN FRANCISCO WHERE THE INDUSTRY LITERALLY TAKES
25 OVER THE ENTIRE CITY. AND THERE ARE LOTS OF VERY

BARRISTERS' REPORTING SERVICE

1 INTERESTING MEETINGS, LOTS OF VERY INTERESTING
2 PANELS. IT'S ALWAYS A PLACE TO GAUGE THE PULSE OF
3 WHAT'S HAPPENING IN BIOTECH AND TO GET A FEEL FOR
4 PEOPLE'S LEVELS OF OPTIMISM, GET A FEEL FOR THE
5 ACTIVITY GOING ON IN THE INVESTMENT SIDE.

6 AND ONE OF THE PRESENTATIONS THAT NOW IS
7 AN ANNUAL EVENT IS DONE BY THE ALLIANCE FOR
8 REGENERATIVE MEDICINE WHICH HAS A COUPLE-HOUR
9 SESSION WHICH FEATURES TWO ELEMENTS. ONE IS A SORT
10 OF STATE-OF-THE-INDUSTRY PRESENTATION IN OUR FIELD
11 AND THE OTHER IS A PANEL OR TWO, THIS TIME TWO, ONE
12 OF WHICH WAS EXPERTLY CHAIRED BY DR. MILLS WITH
13 CUSTOMARY HUMOR. AND NOT SURE IF ALL THE PANELISTS
14 HAVE THE SAME, BUT YOU CAN COMMENT ON THAT IF YOU
15 CARE TO IN YOUR REMARKS, DR. MILLS.

16 THE PRESENTATION WHICH WAS GIVEN, ED
17 LANPHIER, WHO, AS YOU KNOW, IS ONE OF OUR AWARDEES
18 AT SANGAMO, THE CEO OF SANGAMO, IS NOW THE HEAD OF
19 THE ALLIANCE FOR REGENERATIVE MEDICINE, AND HE GAVE
20 THE STATE-OF-THE-INDUSTRY PRESENTATION, WHICH I
21 WANTED TO BRIEFLY TAKE YOU THROUGH BECAUSE I THINK
22 IT'S GOOD FOR EVERYBODY TO KNOW SORT OF THE LATEST
23 ON HOW THINGS STAND.

24 SO UP ON THE SCREEN THERE IS THAT
25 PRESENTATION. JUST GOING TO GO THROUGH IT VERY

BARRISTERS' REPORTING SERVICE

1 BRIEFLY, BUT IT WILL BOTH GIVE YOU A SENSE OF THE
2 STATE OF PLAY AND WILL ARM YOU FOR ALL OF YOUR
3 COCKTAIL CONVERSATIONS WHEN YOU'RE SPEAKING ON
4 WHAT'S THE LATEST IN THE AREA OF REGENERATIVE
5 MEDICINE.

6 SO I'M JUST GOING TO GO THROUGH THIS HERE.
7 SO THESE EARLY SLIDES ARE JUST TALKING ABOUT THE
8 DIFFERENT AREAS THAT HE WAS GOING TO BE SPEAKING ON.
9 OBVIOUSLY REGENERATIVE MEDICINE IS DEFINED VARIOUSLY
10 TO ENCOMPASS THINGS LIKE CELL THERAPY, TISSUE
11 ENGINEERING, BIOMATERIALS, GENE AND GENE MODIFIED
12 CELL THERAPIES, AND GENOME EDITING. SO IT'S MORE
13 THAN JUST STEM CELL RESEARCH, AS WE ALL KNOW. MAJOR
14 AREAS THAT HAVE BEEN FOCUSED ON BY THE COMPANIES IN
15 THE FIELD INCLUDE CANCER, IMMUNOTHERAPY,
16 CARDIOVASCULAR, GENETIC DISORDERS, HIV/AIDS,
17 NEURODEGENERATIVE DISEASES, OPHTHALMOLOGY, AND WOUND
18 HEALING.

19 IF YOU LOOK AT THE NEXT SLIDE, IT GIVES
20 YOU SORT OF A BIT OF A BREAKDOWN ON THE APPLICATION
21 OF THOSE DIFFERENT CATEGORIES, WHICH I JUST INVITE
22 YOU TO TAKE A LOOK AT THERE. YOU CAN SEE THAT, AS
23 WE ALL KNOW FROM OUR PORTFOLIO, THAT THE DIFFERENT
24 APPLICATIONS IN REGENERATIVE MEDICINE ARE MANY AND
25 VARIED, USING DIFFERENT TYPES OF STEM CELLS AND A

BARRISTERS' REPORTING SERVICE

1 VARIETY OF OTHER THINGS THAT FACTOR INTO THE WORK
2 THAT WE ARE FUNDING AND THAT THE INDUSTRY IS
3 UNDERTAKING.

4 HERE'S KIND OF AN INTERESTING SLIDE. THE
5 WORLD MAP SHOWING WHERE THE MOST COMPANIES ARE IN
6 THE REGENERATIVE MEDICINE SPACE. YOU CAN SEE NORTH
7 AMERICA LEADS WITH 302, EUROPE AND ISRAEL SECOND AT
8 147, AND THEN QUITE A FEW IN ASIA, 53, A NUMBER IN
9 AUSTRALIA AND NEW ZEALAND, 12, AND 3 IN SOUTH
10 AMERICA. THREE HUNDRED FORTY TOTAL CELL THERAPY
11 COMPANIES, 180 TISSUE ENGINEERING COMPANIES, AND 140
12 PLUS TOTAL GENE THERAPY COMPANIES. YOU WILL SEE
13 THAT AS YOU FOLLOW IN THE NEWS THAT GENE THERAPY,
14 WHICH HAD, AS WE ALL KNOW, A MAJOR SETBACK A NUMBER
15 OF YEARS AGO, IS REALLY MAKING A VERY SIGNIFICANT
16 COMEBACK AND FEATURES INDEED PROMINENTLY IN A NUMBER
17 OF THE PROJECTS THAT WE'RE FUNDING AS WELL.

18 FIVE HUNDRED PLUS TOTAL THERAPEUTIC
19 COMPANIES. THERE'S A LOT OF ACTION OUT THERE.
20 SIXTY PLUS APPROVED PRODUCTS, AND 375 PLUS TOTAL
21 CLINICAL TRIALS ACROSS THE BOARD IN THE REGENERATIVE
22 MEDICINE SPACE, WHICH IS A NUMBER THAT MIGHT
23 SURPRISE FOLKS, BUT IT'S JUST INDICATIVE OF THE FACT
24 THAT THERE IS A LOT OF ACTIVITY GOING ON.

25 BREAKDOWN ON CLINICAL TRIALS BY STAGE.

BARRISTERS' REPORTING SERVICE

1 YOU CAN SEE 133 FOR PHASE I, 206 FOR PHASE II, 39 IN
2 PHASE III, 378 IN CLINICAL DEVELOPMENT, AND THERE
3 HAVE ACTUALLY BEEN 66 APPROVED PRODUCTS. VERY
4 INTERESTING.

5 THEN I WON'T GO THROUGH THIS SLIDE, JUST
6 SUFFICE IT TO SAY, IF YOU LOOK AT ALL THE DIFFERENT
7 DISEASES AND INDICATIONS, THIS SLIDE IS A BREAKDOWN
8 OF WHERE ALL THE PROJECTS ARE FOCUSING. AND YOU
9 WILL NOTE AS YOU READ DOWN THIS LIST THAT OUR
10 PORTFOLIO IS REPRESENTING A GREAT MANY OF THESE AS
11 YOU WOULD ANTICIPATE.

12 NUMBER OF MAJOR FINANCIAL EVENTS TOOK
13 PLACE. I CAN JUST READ DOWN HERE A LIST OF THE
14 NUMBER OF COMPANIES THAT RAISED CONSIDERABLE AMOUNT
15 OF MONEY IN THE LAST 12 CALENDAR MONTHS. I DON'T
16 KNOW HOW MANY OF YOU SAW THERE WAS AN ARTICLE LAST
17 COUPLE DAYS WHICH I THOUGHT WAS QUITE INTERESTING
18 WHICH SAID THAT FDA HAS DRAMATICALLY INCREASED THE
19 RATE OF ITS APPROVAL PROCESS, NOT JUST IN THIS
20 FIELD, BUT SORT OF ACROSS THE BOARD. AND AS A
21 RESULT, IN BIOTECHNOLOGY, VENTURE COMPANIES ARE
22 DRAMATICALLY INCREASING THE AMOUNT OF MONEY THAT
23 THEY ARE PUTTING IN AS INVESTMENT. AND THE
24 YEAR-TO-YEAR INCREASE WAS QUITE STRIKING. AS I
25 RECALL, IT'S LIKE 30 PERCENT MORE THAN IT WAS IN

BARRISTERS' REPORTING SERVICE

1 CALENDAR '13. AND AS YOU KNOW, THE SECTOR IS A VERY
2 HOT SECTOR. SO THAT IS NOT PARTICULARLY SURPRISING.

3 THERE WERE LOTS OF MAJOR PARTNERSHIPS AND
4 ACQUISITIONS. I WON'T GO THROUGH THIS IN ANY
5 DETAIL, BUT IT LISTS -- ED WAS ABLE TO COMMENT ON
6 SANGAMO BIOSCIENCES AND BIOGEN IDEC ANNOUNCING A
7 COLLABORATION TO DEVELOP TREATMENTS FOR
8 HEMOGLOBIN-OPATHIES. YOU SEE UP TOP, AS YOU RECALL,
9 CAPRICOR AND JANSSEN ENTERED INTO A COLLABORATION
10 WITH RESPECT TO OUR FUNDED PROJECT. AND YOU JUST
11 SORT OF GO DOWN THE LIST, I THINK VERY INTERESTING
12 DATA.

13 A NUMBER OF MAJOR REGULATORY MILESTONES.
14 THE POINT OF THIS SLIDE IS TO SAY THAT THE PACE OF
15 GETTING THROUGH THE REGULATORY PROCESS IN THE
16 REGENERATIVE MEDICINE SPACE IS PICKING UP, WHICH IT
17 WAS BOUND TO DO AS THE FIELD MATURES.

18 AND THEN NEXT SLIDE, WE'LL NOT GO INTO IN
19 DETAIL AGAIN, BUT EXAMPLES OF MAJOR DATA AND
20 TECHNOLOGY EVENTS. DATA OBVIOUSLY IS AN INCREASING
21 PART OF THE PROJECT NOW WITH HEAVY EMPHASIS ON
22 GENOMICS AND DATA COLLECTION.

23 FINANCING, \$6.3 BILLION WORTH OF
24 FINANCINGS IN 2014, 3 BILLION IN THE GENE AND GENE
25 THERAPY SPACE, 687 MILLION IN TISSUE ENGINEERING,

BARRISTERS' REPORTING SERVICE

1 AND 2.6 BILLION IN CELL THERAPY, WHICH IS OBVIOUSLY
2 THE BULK OF WHAT WE FUND. LARGE NUMBER. TOTAL
3 FINANCINGS, VENTURE, IPO'S, FOLLOW-ON FINANCINGS,
4 PARTNERSHIP PAYMENTS, MILESTONE PAYMENTS, ETC., YOU
5 CAN SEE THERE'S QUITE A BIT OF FUNDING GOING ON ONE
6 WAY OR ANOTHER.

7 JUST GOING TO SORT OF SKIP OVER THAT ONE.
8 THAT'S A BIT OF A REITERATION.

9 YOU CAN SEE HOW THE PUBLIC COMPANIES HAVE
10 BEEN PERFORMING OVER TIME. STARTING AT THE END OF
11 '13 TO THE END OF '14, YOU NOTICE THE UPWARD TREND,
12 WHICH IS SYMPTOMATIC OF THE PERFORMANCE IN BIOTECH
13 IN GENERAL WHICH, AS YOU KNOW, HAS LAST COUPLE YEARS
14 OUTPERFORMED THE MAJOR STOCK MARKET INDICES.

15 DEFINITELY NOT GOING TO GO THROUGH THIS,
16 LIST OF THE IPO'S AND FOLLOW-ONS, LONG LIST YOU CAN
17 SEE THERE. BY THE WAY, WE'LL DISTRIBUTE THIS TO
18 ANYBODY WHO'S INTERESTED SO YOU CAN LOOK AT THIS IN
19 ANY MORE DETAIL. LOTS OF MAJOR PHARMA AND BIOTECH
20 ACTIVE IN THE SPACE. THIS IS AN INCREASING TREND.
21 IF YOU WOULD HAVE GONE BACK SEVERAL YEARS, THIS LIST
22 WOULD HAVE BEEN MUCH PARED BACK. I THINK THIS SHOWS
23 THE EVOLVING LEGITIMACY OF THE FIELD AS IT MATURES
24 AND THE NEED FOR BIG PHARMA AND BIG BIOTECH TO GET
25 INTO THE GAME LEST THEY BE LEFT BEHIND AND LEST THEY

BARRISTERS' REPORTING SERVICE

1 NOT AVAIL THEMSELVES OF THE OPPORTUNITY TO DEVELOP
2 RELATIONSHIPS THAT CAN STOCK THEIR PIPELINE.

3 MAJOR CORPORATE PARTNERSHIPS, LENGTHY
4 GRAPHIC. WON'T GO INTO THAT. YOU CAN JUST SEE IT'S
5 A LONG LIST.

6 THIS IS PREDICTING 2015, MAJOR CLINICAL
7 DATA THAT'S EXPECTED IN THIS YEAR, WHICH IS SOME
8 PRETTY COOL STUFF. YOU CAN SEE SANGAMO ON THE
9 HIV/AIDS PROJECT EXPECTING CLINICAL RESULTS PHASE
10 II, WHICH IS OBVIOUSLY VERY EXCITING FOR US AND FOR
11 ED.

12 ANOTHER PAGE ON MAJOR CLINICAL DATA
13 EVENTS.

14 THEN WE GET TO THIS SORT OF INTERESTING
15 ISSUE WHICH IS, OKAY, SO LET'S SAY WE ACTUALLY HAVE
16 A DISCOVERY AND IT MAKES IT ALL THE WAY THROUGH.
17 HOW MUCH IS IT GOING TO COST? AND WHAT ARE THE
18 ISSUES SURROUNDING REIMBURSEMENT, PRICING, ETC.?
19 AND THAT'S A QUESTION THAT LOOMS OFF IN THE DISTANCE
20 BECAUSE THE THERAPIES ARE BOUND TO BE EXPENSIVE
21 THOUGH OBVIOUSLY FUNDAMENTALLY LIFE ALTERING, BUT
22 THAT IS SOMETHING THAT WE'RE CONTINUING TO MONITOR
23 AND HAVE INPUT TO. I KNOW IT'S CERTAINLY A MAJOR
24 ISSUE FOR DR. MILLS GOING DOWN THE ROAD.

25 ARM, AS YOU KNOW, THIS IS JUST A LITTLE

BARRISTERS' REPORTING SERVICE

1 ADVERTISEMENT FOR THEM. THEY'RE SORT OF THE MAJOR
2 TRADE ASSOCIATION IN OUR SPACE, VERY ACTIVE IN
3 WASHINGTON. AND WE ARE A MEMBER OF THEM AND FULLY
4 SUPPORTIVE OF THE WORK THEY DO IN GETTING ACROSS THE
5 SINGULAR IMPORTANCE OF THE FIELD OF REGENERATIVE
6 MEDICINE IN THE MEDICAL RESEARCH ARENA.

7 THERE'S PICTURES OF ARM LEADERSHIP.
8 THERE'S ED ON THE LEFT, NUMBER OF THE OTHER FOLKS
9 WHO I'M SURE YOU KNOW, AND THAT'S THAT. SO I JUST
10 THOUGHT THAT THIS WAS IMPORTANT TO GIVE CONTEXT.
11 AND I THINK IN JANUARY, GOING FORWARD, WE'LL GIVE
12 THIS TO FOLKS SO YOU CAN SEE WHERE WE STAND, BUT THE
13 GENERAL TAKEAWAY FROM THE J.P. MORGAN CONFERENCE WAS
14 THINGS ARE REALLY HAPPENING AND HOPPING, AND THE
15 MOMENTUM FROM YEAR TO YEAR WAS PALATABLE. I THINK,
16 DR. MILLS, IF YOU COULD SAY A COUPLE WORDS ON THAT
17 IN YOUR REPORT AS WELL BECAUSE YOU WERE IN MEETING
18 AFTER MEETING DURING THAT SESSION AS WELL.

19 SO THAT CONCLUDES OUR CHAIR'S REPORT. DR.
20 MILLS, I NOW TURN IT OVER TO YOU FOR THE PRESIDENT'S
21 REPORT.

22 DR. MILLS: THANK YOU VERY MUCH, MEMBERS
23 OF THE BOARD. I APPRECIATE THE OPPORTUNITY TO SPEAK
24 TO YOU TODAY ABOUT, I THINK, A VERY EXCITING TIME IN
25 CIRM AND WHAT'S GOING ON. AS J.T. MENTIONED, THE

BARRISTERS' REPORTING SERVICE

1 MOST RECENT J.P. MORGAN CONFERENCE THAT WE HAD, IF
2 YOU LIVE IN THE BIOTECH WORLD, IT'S A PILGRIMAGE YOU
3 HAVE TO MAKE AFTER THE NEW YEAR OUT TO SAN
4 FRANCISCO, AND I'VE DONE IT FOR A LONG, LONG TIME.
5 I HAVE NEVER SEEN ONE AS WELL ATTENDED AS THIS
6 YEAR'S. IT WAS BY FAR THE BIGGEST J.P. MORGAN
7 CONFERENCE THAT THEY'VE HAD OUT HERE. AND I THINK
8 THAT IS AN INTERESTING SIGN OF COMING INVESTMENT
9 INTO THE SPACE, WHICH IS, I THINK, A GOOD THING.

10 JUST BRIEFLY ON THE TOPICS I WANT TO SPEAK
11 ON TODAY. FIRST, JUST A BRIEF OVERVIEW OF CIRM,
12 VERY BRIEF ON THAT, I PROMISE. I'D LIKE TO TALK A
13 LITTLE BIT ABOUT THE FIRST HALF BUDGET RESULTS THAT
14 WE HAVE SO FAR, GIVE A BRIEF UPDATE ON CERTAIN
15 PROGRAMS. THEN I WANT TO SPEND A LITTLE BIT OF TIME
16 TALKING ABOUT WHAT'S TO COME BECAUSE I WANT TO MAKE
17 SURE THE BOARD UNDERSTANDS. WE HAVE AN INCREDIBLY
18 JAM-PACKED FIRST HALF OF 2016. AND SO IT'S GOING --
19 EVERY BOARD MEETING IT'S GOING TO BE COMING LIKE A
20 WAVE AFTER ANOTHER WAVE AFTER ANOTHER WAVE, AND SO I
21 WANT TO MAKE SURE THAT THAT'S UP THERE FOR EVERYONE
22 TO SEE. AND IF THERE ARE QUESTIONS ABOUT ANY OF IT,
23 PLEASE ASK.

24 AS I ALWAYS DO, START WITH THE REASON THAT
25 WE ARE HERE TODAY. OUR MISSION AT CIRM IS FOR US TO

BARRISTERS' REPORTING SERVICE

1 BE ACCELERATING STEM CELL TREATMENTS TO PATIENTS
2 WITH UNMET MEDICAL NEEDS. WE WERE ASKED TO DO THIS
3 BY THE VOTERS OF THE STATE OF CALIFORNIA IN 2004,
4 AND THIS IS SOMETHING I THINK INTERNALLY WE ALWAYS
5 KEEP A VERY, VERY SHARP FOCUS ON.

6 JUST A LOOK AT AN UPDATED VERSION OF HOW
7 WE HAVE SPENT OUR FUNDING SINCE INCEPTION. SO WE'VE
8 ISSUED A TOTAL OF 671 AWARDS, TOTALING ABOUT \$2.1
9 BILLION INTO THESE FIVE MAJOR CATEGORIES:
10 DISCOVERY, WHICH IS EARLY STAGE RESEARCH,
11 TRANSLATIONAL RESEARCH, CLINICAL, EDUCATION, AND
12 INFRASTRUCTURE. ONE THING THAT I WILL POINT OUT
13 ABOUT THIS SLIDE IS THAT THESE ARE THE NUMBER AND
14 DOLLAR VALUE OF AWARDS ISSUED. IT DIFFERS, AND THE
15 REASON I SAY THAT IT DIFFERS FROM EXPECTATIONS
16 PERHAPS IN THAT THIS IS NOT NET AWARDS THAT HAVE
17 BEEN SPENT.

18 JUST TO GIVE YOU AN EXAMPLE, WHERE THIS
19 PHENOMENA SKEWS THESE NUMBERS TO THE GREATEST AMOUNT
20 IS IN CLINICAL WHERE WE SHOW \$589 MILLION AWARDED IN
21 CLINICAL. IN FACT, THE BOARD HAS APPROVED \$589
22 MILLION OF FUNDING, BUT NOT ALL \$589 MILLION OF
23 FUNDING WAS ACCEPTED. JUST AS AN EXAMPLE, BLUEBIRD
24 BIO DID NOT ACCEPT THEIR FUNDING. WE APPROVED \$40
25 MILLION FOR STEM CELLS, INC. THEY ONLY TOOK 20,

BARRISTERS' REPORTING SERVICE

1 GERON 25. THAT WAS WIPED OUT. SO THE AMOUNT OF
2 INVESTMENT WE'VE ACTUALLY TRANSLATED ALL THE WAY
3 THROUGH INTO CLINICAL IS SUBSTANTIALLY LESS THAN
4 THIS \$589 MILLION, BUT THE BOARD HAS APPROVED AWARDS
5 UP TO THAT AMOUNT. AND THAT'S SOMETHING WE NEED TO
6 BE LOOKING AT GOING FORWARD, WHY AN APPLICANT WOULD
7 GO THROUGH THE ENTIRE PROCESS, GET THEIR AWARD
8 APPROVED BY THE BOARD, AND THEN TURN THEIR AWARD
9 DOWN. IT'S SOMETHING WE CERTAINLY NEED TO
10 UNDERSTAND BETTER.

11 I'D LIKE TO BRIEFLY JUST TURN TO THE
12 BUDGET REVIEW. WE HAVE FINISHED ANOTHER FINANCIAL
13 QUARTER, AND SO I THINK IT'S IMPORTANT WE JUST KEEP
14 A TIGHT VIEW ON OUR BUDGETS. AS I'VE MENTIONED
15 BEFORE, WE BASICALLY HAVE TWO BUCKETS OF MONEY, AND
16 BOTH OF THOSE BUCKETS ARE VERY IMPORTANT TO US. THE
17 SMALLER BUCKET IS OUR ADMINISTRATIVE BUCKET. THAT'S
18 HOW WE FUND THE ACTUAL OPERATIONS AT CIRM, THE
19 AGENCY ITSELF. THAT'S \$180 MILLION. THE LARGER
20 BUCKET IS THE \$2.75 BILLION THAT WE HAVE TO
21 DISTRIBUTE OUT IN AWARDS THAT WE APPROVE. WHEN
22 EITHER ONE OF THESE BUCKETS GOES TO ZERO, CIRM IS
23 OVER. SO THAT'S WHY WE SHOULD PROBABLY KEEP A CLOSE
24 EYE ON THEM.

25 WITH REGARDS TO THE SMALL BUCKET, SO WE

BARRISTERS' REPORTING SERVICE

1 HAVE SPENT 95 MILLION OUT OF THAT BUCKET. WE HAVE
2 \$85 MILLION LEFT. AT OUR CURRENT SPEND RATE OF \$13
3 MILLION PER YEAR, THAT WOULD GET US GOING FOR
4 ANOTHER SIX AND A HALF YEARS OR ABOUT HALFWAY
5 THROUGH 2021. I WILL TELL YOU THAT CURRENT BURN
6 RATE OF \$13 MILLION A YEAR, IF CIRM WERE NOT TO BE
7 CONTINUED, WE WOULDN'T BE SPENDING AT THAT RATE
8 THROUGH THE ENTIRE TIME. SO IT WOULD ACTUALLY TAPER
9 OFF, SO THIS BUCKET IS IN GOOD SHAPE AS FAR AS THE
10 AGENCY IS CONCERNED. IT HAS LIFE WELL PAST 2021.

11 THIS IS OUR AWARD BUCKET. SO FAR WE'VE
12 HAD NET AWARDS NOW, SO THIS IS THE AWARDS WE'VE
13 ISSUED MINUS WHAT'S BEEN TAKEN BACK, OF \$1.9 BILLION
14 OUT OF THE 2.75. WE ESTIMATE WE'LL GET PROBABLY
15 ANOTHER HUNDRED MILLION BACK ON AWARDS THAT HAVE
16 BEEN ISSUED. WE HAVE \$850 MILLION THAT'S NOT BEEN
17 AWARDED. SO WE HAVE SOMEWHERE BETWEEN 900 TO A
18 BILLION DOLLARS LEFT TO AWARD.

19 AT OUR HISTORICAL RUN RATE, FUNDING \$190
20 MILLION IN NEW PROJECTS A YEAR, THAT WOULD TAKE US
21 TO 2020. ONE OF THE THINGS I WANT TO TALK ABOUT IS
22 THAT CURRENTLY RIGHT NOW WE'RE NOT EVEN ON PACE TO
23 DO THAT. WE'RE UNDER THAT. AND SO WE WOULD
24 ACTUALLY GO LONGER. I DON'T NECESSARILY THINK
25 THAT'S A GOOD THING. I WOULD ACTUALLY LIKE THAT OUR

BARRISTERS' REPORTING SERVICE

1 FUNDING RATE COME UP WITH THE CAVEAT BEING I THINK
2 WE SHOULD ONLY BE FUNDING OUTSTANDING PROGRAMS THAT
3 HAVE THE BEST CHANCE ULTIMATELY TO HAVE A POSITIVE
4 IMPACT ON PATIENTS.

5 I'M JUST GOING TO BREAK DOWN. SO THIS
6 BUCKET HAS BASICALLY THREE SUB-BUCKETS INSIDE IT,
7 AND I THINK IT'S INTERESTING TO SEE HOW MONEY MOVES.
8 SO FOR THE SECOND QUARTER, WE HAVE BASICALLY THREE
9 WAYS OF ACCOUNTING FOR MONEY. MONEY THAT'S FULLY
10 UNCOMMITTED, WE HAVE \$850 MILLION, AND THAT MONEY IS
11 NOT COMMITTED. WE CAN COMMIT IT HOWEVER WE WANT.
12 WE HAVE AWARDED MONEY, WHICH IS AWARDS THAT THE
13 BOARD HAS APPROVED, BUT WE HAVE NOT PAID OUT ON
14 THAT. JUST BECAUSE THE BOARD APPROVES IT, WE DON'T
15 IMMEDIATELY WRITE A CHECK. OBVIOUSLY THERE'S
16 MILESTONES AND PAYMENTS, AND THOSE GET PAID OUT OVER
17 TIME. SO WE HAVE \$437 MILLION THAT'S BEEN AWARDED,
18 BUT WE HAVEN'T WRITTEN CHECKS FOR. AND LASTLY, WE
19 HAVE \$1.46 BILLION WE'VE FINISHED, WE'VE WRITTEN THE
20 CHECKS. SO IT'S BEEN COMMITTED AND THEN THE MONEY
21 HAS BEEN SPENT AND HAS GONE OUT THE DOOR.

22 AND IT'S INTERESTING BECAUSE THERE'S A
23 PRETTY GOOD DYNAMIC BETWEEN THESE THREE BUCKETS AT
24 ANY GIVEN QUARTER. SO THIS QUARTER WE MADE \$34
25 MILLION IN NEW AWARDS, BUT WE HAD \$11 MILLION IN

BARRISTERS' REPORTING SERVICE

1 AWARD REDUCTIONS OR CANCELLATIONS. SO WE ONLY NET
2 COMMITTED \$23 MILLION THIS QUARTER. WE SPENT, WE
3 ACTUALLY WROTE CHECKS OUT FOR \$46 MILLION. WE HAD
4 NO REPAYMENTS OUT OF THAT COME BACK. THAT YELLOW
5 BUCKET ISN'T, FOR ME, AS IMPORTANT. IN THE BUSINESS
6 WORLD, YOU WOULD SAY THAT'S ACCOUNTS PAYABLE.
7 THAT'S SOMETHING YOU'VE ALREADY BOUGHT AND YOU'RE
8 JUST WAITING FOR THE CHECK BASICALLY TO CLEAR. SO
9 THAT'S WHAT HAPPENED IN THE SECOND QUARTER.

10 WHEN WE LOOK AT THE ENTIRE FIRST HALF, WE
11 SEE A SIMILAR STORY. SO WE MADE \$51 MILLION IN NEW
12 AWARDS IN THE FIRST HALF OF FISCAL YEAR '15, BUT WE
13 HAD \$25 MILLION IN AWARD REDUCTIONS AND
14 CANCELLATIONS. THAT IS UNUSUALLY HIGH. I WILL BE
15 REALLY SURPRISED TO SEE IF THAT LEVEL OF RETURN
16 KEEPS COMING BACK.

17 WE ARE -- WHAT I WILL SAY ABOUT IT IS WE
18 ARE AS AN AGENCY COMMITTED TO DOING EVERYTHING WE
19 CAN TO MAKE AN AWARD ON A PROJECT THAT YOU HAVE
20 ELECTED TO FUND BE AS SUCCESSFUL AS POSSIBLE. AND
21 THAT IS FIRST AND FOREMOST WHAT WE WANT TO HAVE
22 DONE. I WILL ALSO SAY, THOUGH, IF IT'S NOT
23 SUCCESSFUL, WE TAKE VERY SERIOUSLY OUR OBLIGATIONS
24 TO INSIST ON PERFORMANCE UNDER THE CONTRACTS WE HAVE
25 AND WILL NOT LOOK THE OTHER WAY IF THERE ISN'T

BARRISTERS' REPORTING SERVICE

1 PERFORMANCE UNDER THAT CONTRACT. AND SO WE HAVE
2 SEEN SOME INSTANCES WHERE CERTAIN PROGRAMS JUST
3 DON'T WORK. THAT'S BIOTECH. THAT'S THE WAY IT IS.
4 NOT EVERYTHING WE FUND IS GOING TO WORK. IF IT ALL
5 DID, IT WOULD MEAN SOMETHING IS WRONG, BUT WE DO
6 HAVE TO BE VERY ATTENTIVE AND PROACTIVE WHEN WE SEE
7 SOMETHING NOT WORKING, NOT CONTINUE TO FUND
8 SOMETHING THAT'S JUST NEVER GOING TO WORK OUT.

9 THE NET HERE OF THIS SLIDE, THOUGH, IS
10 DESPITE \$51 MILLION IN NEW AWARDS, WE ACTUALLY ONLY
11 HAVE A NET COMMITTED FOR THE FIRST HALF OF THIS YEAR
12 OF \$26 MILLION. AND SO THAT NUMBER COMPARES ROUGHLY
13 AGAINST THE 190 I TALKED ABOUT IN TERMS OF FOR A
14 FULL YEAR RATE. SO, AGAIN, THIS WOULD PUT US JUST
15 OVER \$50 MILLION ANNUALIZED IN COMMITTING NEW MONEY.
16 SO I DON'T EVER ADVOCATE SPENDING MONEY JUST FOR THE
17 SAKE OF SPENDING MONEY, BUT IT WOULD BE GOOD IF WE
18 HAD NEW PROGRAMS COMING IN HERE THAT WERE OF
19 SUFFICIENT QUALITY THAT THE BOARD WOULD
20 ENTHUSIASTICALLY SUPPORT.

21 ANY QUESTIONS ABOUT THE BUDGET?

22 AND THEN I WANT TO TALK JUST A LITTLE BIT
23 ABOUT PROGRAM UPDATES. AND ON JANUARY 1ST, ACTUALLY
24 ON DECEMBER 31ST, NEW YEAR'S EVE, THE CIRM TEAM
25 LAUNCHED CIRM 2.0 OFFICIALLY. AND THAT WAS A REALLY

BARRISTERS' REPORTING SERVICE

1 GREAT EFFORT TO SEE. I PUT THIS SLIDE UP. IT'S GOT
2 ALL KINDS OF TINY LITTLE WRITING ON IT. THE POINT
3 OF THIS SLIDE IS THERE WERE SO MANY DIFFERENT THINGS
4 AND SO MANY DIFFERENT PIECES THAT HAD TO ALL COME
5 TOGETHER IN ORDER FOR US TO BE ABLE TO FORMALLY
6 LAUNCH THE PROGRAM BY JANUARY 1ST, WHICH WAS OUR
7 STATED GOAL. IT WASN'T JUST, HEY, LET'S JUST DO
8 SOMETHING FASTER AT CIRM. WE HAD TO CHANGE I.T.
9 STRUCTURES, CONTRACTING ISSUES, LEGAL ISSUES. OUR
10 HR STRUCTURE LITERALLY CHANGED. FINANCIAL
11 OVERSIGHT, THE APPLICATION PROCESS ITSELF, WHO ARE
12 WE GOING TO GET TO REVIEW THESE THINGS? COULD WE
13 FIELD THAT BIG OF A TEAM? AND I'LL LEAVE MARKETING
14 AND EVERYTHING ELSE. I'M LEAVING MORE OUT THAN I
15 PROBABLY SHOULD.

16 THE THING THAT I'M SO PLEASED WITH IS AT
17 NO POINT DID THIS TEAM, AND THEY WOULD LOCK
18 THEMSELVES IN THIS ROOM WE CALL THE CAVE, AND THEY
19 WOULD LOCK THEMSELVES IN THIS ROOM AND THEY WOULD
20 JUST SIT DOWN AND WORK THROUGH THIS LIST. AT NO
21 POINT DID THIS TEAM SAY, "WE CAN'T MAKE JANUARY 1ST.
22 JANUARY 1ST ISN'T THAT IMPORTANT. LET'S DO IT BY
23 FEBRUARY 1ST." THEY WERE LIKE A DOG WITH A BONE.
24 WE WERE NOT GOING TO MISS JANUARY 1ST.

25 AND I'LL TELL YOU WHY I HAVE SUCH A SMILE

BARRISTERS' REPORTING SERVICE

1 ON MY FACE IS ON NEW YEAR'S EVE IN THE EVENING AT A
2 STATE AGENCY THERE WERE A LOT OF PEOPLE AT CIRM
3 DOING EVERYTHING THEY COULD TO MAKE SURE THIS THING
4 WENT UP BY THE JANUARY 1ST DEADLINE. AND THEY DID A
5 GREAT JOB. AND THE BOARD DID A GREAT JOB. I JUST
6 WANT TO THANK YOU GUYS SO MUCH FOR ALL THE EFFORT
7 THAT WENT INTO IT AND ALL THE RESPECT FOR THE SENSE
8 OF URGENCY THAT THIS ORGANIZATION SHOULD HAVE
9 BECAUSE ITS MISSION IS SO FUNDAMENTALLY IMPORTANT.
10 AND WHILE IT MAY SEEM LIKE JUST A GESTURE THAT WE
11 GOT SOMETHING DONE ON DECEMBER 31ST VERSUS JANUARY
12 1ST, I THINK IT SPEAKS VOLUMES TO THE LEVEL OF
13 COMMITMENT AND RESPECT WE HAVE FOR THE TIME
14 SENSITIVITY OF THE PATIENTS THAT WE TREAT.

15 I'LL STOP TALKING ABOUT THAT, BUT I WANT
16 TO THANK YOU GUYS SO MUCH.

17 OTHER ACTIVITIES THAT WE HAVE GOING ON.
18 SO IN ADDITION TO DOING ALL OF THIS STUFF, WHICH IS
19 AMAZING AT CIRM, WE'RE DOING THIS TOTALLY RADICAL
20 OVERHAUL OF THE WAY WE DO BUSINESS, WE STILL HAVE AN
21 ORGANIZATION THAT HAS CONTINUED TO RUN INSIDE. AND
22 SO WE HAVE KICKED OFF THE ALPHA CLINICS INITIATIVE,
23 WHICH THE BOARD APPROVED. WE'VE HAD OUR LARGE
24 ORGANIZATIONAL MEETING WHERE THE TOPIC OF DISCUSSION
25 AND THE NO. 1 TOPIC OF DISCUSSION WAS WHAT WAS THE

BARRISTERS' REPORTING SERVICE

1 VALUE ADDED THAT WAS GOING TO BE BETWEEN THESE THREE
2 CENTERS COMING TOGETHER. THEY HAVE \$24 MILLION OF
3 OUR MONEY. WE WANT TO SEE \$24 MILLION OF ADDED
4 VALUE, AND I ACTUALLY AM VERY HOPEFUL THAT THAT IS
5 GOING TO HAPPEN. WE'VE ALSO HAD INDIVIDUAL SITE
6 VISITS WITH EACH OF THOSE CLINICS AS WELL.

7 AT THE LAST BOARD MEETING, THE BOARD
8 APPROVED OUR ORGANIZATIONAL CHANGES. STRUCTURALLY
9 THOSE CHANGES HAVE ALL BEEN PUT INTO PLACE AND HAVE
10 TAKEN EFFECT. THERE WILL BE TRANSITIONS
11 PARTICULARLY WITH REGARDS TO SHIFTING PROJECTS FROM
12 CERTAIN SCIENCE OFFICERS TO OTHERS THAT WILL TAKE
13 PLACE THROUGH APRIL. BUT WE'RE WELL UNDER WAY.

14 AS J.T. MENTIONED, J.P. MORGAN HEALTHCARE
15 CONFERENCE, MY PERSPECTIVE WAS A LITTLE BIT
16 INTERESTING. I HELD MULTIPLE MEETINGS WITH
17 COMPANIES THAT WERE INTERESTED IN RELOCATING TO THE
18 STATE OF CALIFORNIA BECAUSE OF THE POTENTIAL OF
19 BEING ABLE TO WORK WITH CIRM. SOME OF THESE
20 COMPANIES WERE INTERNATIONAL AND WANTED TO OPEN UP A
21 SUBSIDIARY IN CALIFORNIA, SOME OF THEM WERE LOCATED
22 IN OTHER STATES AND WERE INTERESTED IN MOVING HERE.
23 BUT THERE IS CLEARLY INTEREST IN WHAT'S GOING ON IN
24 CALIFORNIA WITH CIRM THAT'S SUFFICIENT ENOUGH TO AT
25 LEAST SERIOUSLY CONSIDER A MOVE ON BEHALF OF THESE

BARRISTERS' REPORTING SERVICE

1 COMPANIES.

2 WE GAVE -- AS J.T. TALKED ABOUT, I
3 MODERATED A PANEL. HIS COMMENTS GO TO MY LOVE FOR
4 MODERATING PANELS. IT'S LIKE IT'S BAD, BUT WE GOT
5 THROUGH IT. AND THAT WAS 45 MINUTES I'LL NEVER GET
6 BACK. WE WERE ABLE TO GET OUR MISSION OUT ABOUT
7 CIRM, WHAT WE'RE DOING AT CIRM, THE CHANGES AT CIRM
8 2.0. AND THE GREAT THING ABOUT THIS CONFERENCE IS
9 IT'S EXACTLY OUR TARGET AUDIENCE. AND SO THE
10 ALLIANCE FOR REGENERATIVE MEDICINE HAS ROUGHLY 180
11 MEMBERS RIGHT NOW THAT ARE ALL COMPLETELY IN OUR
12 WHEELHOUSE. I MEAN THEY'RE ALMOST ALL APPLICABLE TO
13 WHAT WE DO AT CIRM. AND SO IT WAS A GREAT TARGETED
14 AUDIENCE TO BE ABLE TO CONVEY THE CHANGES THAT WE
15 WERE MAKING.

16 WE HELD A CIRM 2.0 WEBINAR, AND THAT WAS
17 TO BE ABLE TO DESCRIBE TO PEOPLE THAT WERE
18 INTERESTED IN LEARNING ABOUT CIRM 2.0 HOW THEY
19 INTERACT WITH THE NEW SYSTEM, WHAT WAS ELIGIBLE,
20 WHAT THEY NEEDED TO DO TO APPLY. WE HAD 300
21 REGISTRANTS FOR THAT PROGRAM. IT WAS INCREDIBLY
22 SUCCESSFUL.

23 JUST YESTERDAY OR TWO DAYS AGO, I CAN'T
24 REMEMBER, I DID THE PHACILITATE GENE AND CELL
25 THERAPY CONFERENCE IN WASHINGTON, D.C., AGAIN

BARRISTERS' REPORTING SERVICE

1 TALKING ABOUT WHAT WE'RE DOING AT CIRM, MAKING SURE
2 PEOPLE KNOW THAT IF THEY HAVE TECHNOLOGY, WE WANT
3 THAT TECHNOLOGY IN THE STATE OF CALIFORNIA AND WE'RE
4 OPEN TO DO BUSINESS.

5 AND IN COMING UP FOR CIRM 2.0, THE FIRST
6 REVIEW CYCLE CLOSING THIS FRIDAY, TOMORROW. WE KNOW
7 WE HAVE MULTIPLE APPLICATIONS ALREADY IN. WE DON'T
8 KNOW HOW MANY MORE WE'RE GOING TO BE GETTING THAT
9 ARE ACTUALLY GOING TO PRESS THE COMPLETE BUTTON, BUT
10 IT'S KIND OF REMARKABLE THAT WE HAVE MULTIPLE
11 CLINICAL STAGE APPLICATIONS IN SINCE WE ONLY
12 DESCRIBED THE PROGRAM IN TERMS OF THE PROGRAM
13 ANNOUNCEMENT ON NEW YEAR'S EVE. SO WITHIN 30 DAYS
14 THESE PEOPLE WERE ABLE TO REVIEW THIS PROGRAM
15 ANNOUNCEMENT, PUT TOGETHER A FULL AND COMPLETE
16 APPLICATION, AND GET IT SUBMITTED. SO WE'RE
17 EXCITED, OPTIMISTIC, HOPEFUL ABOUT WHAT WE'RE SEEING
18 COME INTO CIRM AS A RESULT OF CIRM 2.0.

19 AND THEN JUST AS A HEADS-UP. OUR
20 PRECLINICAL DEVELOPMENT GRANTS WORKING GROUP MEETING
21 IS NEXT WEEK. THIS IS PRECLINICAL DEVELOPMENT
22 AWARDS WHICH WILL BE 20 SOMETHING APPLICATIONS THAT
23 WE'RE EVALUATING, AND YOU GUYS WILL BE SEEING THE
24 RESULTS OF THAT IN THE MARCH MEETING.

25 ONE MORE COMMENT ABOUT THE ROLLOUT OF CIRM

BARRISTERS' REPORTING SERVICE

1 2.0 AND WHAT WE NEED TO DO GOING FORWARD. IT IS NOT
2 JUST ENOUGH FOR US TO PUT OUT CIRM 2.0 WITH A PRETTY
3 LOGO AND FLASHY SLIDES AND SAY, "OH, GREAT. THAT
4 WAS GOOD." THE POINT OF GOING THROUGH THE EXERCISE
5 OF CIRM 2.0 IS TO FUNDAMENTALLY PRODUCE A BETTER
6 PRODUCT AND GET BETTER OUTCOMES. NOW, IT WOULD BE
7 GREAT IF WE COULD MEASURE OUTCOMES WE WANT DIRECTLY,
8 LIKE PATIENTS TREATED, PRODUCTS APPROVED, BUT THOSE
9 ARE KIND OF LONG LEAD ITEMS. SO WE WOULDN'T GET A
10 GREAT SENSE OF HOW WE WERE DOING IF WE JUST LOOKED
11 AT THOSE.

12 SO WE HAVE DEVELOPED SURROGATE METHODS OR
13 SHORTER TERM WAYS OF MEASURING OUR PROCESS TO SEE
14 IF -- THAT SHOULD BE HIGHLY PREDICTIVE OF ULTIMATELY
15 HOW THE PROGRAM WORKS. AND SO THESE ARE THINGS LIKE
16 THE NUMBER OF APPLICATIONS WE BRING IN, THE CYCLE
17 TIME, THE QUALITY OF APPLICATIONS, THE QUALITY OF
18 AWARDS. THESE ARE ALL THINGS WE'LL BE MONITORING.
19 THESE ARE ALL THINGS I WILL BE REPORTING BACK TO YOU
20 AS SOON AS THAT DATA STARTS COMING IN SO WE CAN TAKE
21 A LOOK AT IT.

22 AND THEN THE LAST THING IS WE'RE ALSO
23 GOING TO BE LOOKING FOR UNINTENDED CONSEQUENCES OR
24 UNINTENDED EFFECTS. IT IS TOO RADICAL OF AN
25 OVERHAUL TO PUT IN PLACE TO ASSUME THERE WON'T BE

BARRISTERS' REPORTING SERVICE

1 SOME BUMPS ALONG THE ROAD. IT'S TOO RADICAL OF AN
2 OVERHAUL TO THINK THAT THERE WON'T BE A WHOOPS. WE
3 DIDN'T REALIZE THAT BY DOING THIS, THAT WOULD DRIVE
4 THAT BEHAVIOR. AND SO WE NEED TO BE VERY MINDFUL
5 AND WE NEED TO BE VERY OPEN ABOUT THAT; AND WHEN WE
6 SEE SOMETHING, TAKE CORRECTIVE ACTION. THAT'S THE
7 LAST WORD ON THAT CIRM 2.0.

8 THE LAST THING I WANT TO TALK ABOUT IS
9 JUST COMING ATTRACTIONS. WE HAVE, AS I SAID, AN
10 INCREDIBLY BUSY FIRST HALF CALENDAR OF 2015 COMING
11 UP STARTING WITH OUR MARCH MEETING. SO THERE WILL
12 BE PROPOSED CHANGES TO THE GRANTS ADMINISTRATION AND
13 LOAN ADMINISTRATION PROGRAMS COMING BEFORE THE
14 BOARD. THE PRECLINICAL DEVELOPMENT REVIEW THAT'S
15 GOING ON NEXT WEEK, THOSE PROGRAMS WILL COME BEFORE
16 YOU FOR DECISION. IN APRIL IS ACTUALLY WHEN WE'LL
17 START OUR BUDGET REVIEW PROCESS OR THE FINANCE
18 SUBCOMMITTEE WILL BE GETTING THE FIRST PASS OF OUR
19 2016 BUDGET.

20 ALSO, THE APRIL 23D TELECONFERENCE WILL
21 ACTUALLY BE OUR FIRST CONSIDERATION FOR AWARDS UNDER
22 2.0. SO THE ONES THAT GET IN BY FRIDAY WILL COME
23 BEFORE THE BOARD ON APRIL 23D. THAT'S HOPEFULLY AN
24 EXCITING DAY.

25 IN MAY WHAT I'D LIKE TO DO IS START THE

BARRISTERS' REPORTING SERVICE

1 STRATEGIC PLANNING PROCESS WITH THE BOARD IN BOARD
2 SESSION. I THINK IT'S IMPORTANT THAT WE TAKE A LOOK
3 AT WHERE WE WANT TO GO, CHALLENGE ASSUMPTIONS, TAKE
4 IN THE NEW DATA THAT WE HAVE, AND REALLY SET A PLAN
5 THAT IS AGGRESSIVE, THAT STRETCHES THE AGENCY, AND
6 GETS US TO THE BEST PLACE WE POSSIBLY CAN GO. SO
7 WE'RE GOING TO START THAT PROCESS IN MAY. IN MAY WE
8 ALSO WILL BRING BACK TO THE BOARD THE FULL BUDGET
9 FOR ADOPTION FOR 2016.

10 AND THEN IN JULY WE REALLY ARE GOING TO
11 HAVE A BUSY MEETING BECAUSE WE WILL BE HAVING THE
12 CONCEPT PLANS FOR THE DISCOVERY AND TRANSLATIONAL
13 STAGE PROGRAMS. THIS IS THE EARLIER STAGE RESEARCH
14 FOR CIRM 2.0. WE WILL ALSO BE BRINGING BACK THE
15 CONCEPT PLANS FOR CREATIVITY, WHICH IS THE HIGH
16 SCHOOL EDUCATION PROGRAM, AND BRIDGES, WHICH IS THE
17 UNDERGRAD EDUCATIONAL PROGRAM. AND THEN, LASTLY,
18 FINALIZE THE STRATEGIC PLAN BY THAT MEETING.

19 AND SO AS I SAID, VERY BUSY TIME COMING UP
20 HERE. THE ONE THING THAT I WILL OVERLAY ON TOP OF
21 THIS THAT'S IMPORTANT TO KNOW IS DURING ALL OF THIS
22 WE WILL ALSO BE MOVING. SO CIRM'S LOCATION IS --
23 OUR LEASE IS UP IN NOVEMBER OF THIS YEAR, AND SO WE
24 WILL, IN ADDITION TO DOING ALL OF THESE DIFFERENT
25 THINGS, WE WILL BE FINDING A NEW HOME AND IN THE

BARRISTERS' REPORTING SERVICE

1 PROCESS OF RELOCATING. I WOULD SAY THERE PROBABLY
2 WILL BE SOME DISRUPTION WITH THAT, AND WE WILL GET
3 OVER IT. WE WILL FIND A WAY TO WORK THROUGH IT, BUT
4 IT WILL BE IMPOSSIBLE FOR THERE NOT TO BE SOME
5 DISRUPTION FROM THAT.

6 THAT IS ALL I HAVE. BE HAPPY TO ANSWER
7 ANY QUESTIONS ANYONE MIGHT HAVE.

8 DR. JUELSGAARD: YES, RANDY, IF YOU COULD
9 GO BACK TO SLIDE 10 AND JUST SPEAK A LITTLE MORE
10 QUALITATIVELY. THAT'S THE ONE THAT SHOWS THE AMOUNT
11 OF MONEY THAT SORT OF CYCLED BACK INTO, THAT WAS
12 UNSPENT OUT OF THE AWARDS THAT HAVE BEEN DONE. IT
13 AMOUNTS TO ROUGHLY HALF OF THE AMOUNT OF THE AWARDS
14 THAT WERE MADE DURING THIS PERIOD OF TIME. SO I
15 DON'T KNOW IF THIS IS ABERRATIONAL, THIS IS JUST A
16 ONE-TIME OCCURRENCE, OR WHETHER THIS IS A FREQUENT
17 OCCURRENCE, BUT QUALITATIVELY THE MONEY THAT'S COME
18 BACK, JUST SOME EXAMPLES OF WHAT HAPPENED.

19 DR. MILLS: SURE. SO I THINK IT'S A
20 LITTLE ABERRATIONAL. AGAIN, THE WAY WE MAKE AWARDS,
21 IF WE HAVE A PROGRAM AND IT'S A \$20 MILLION AWARD,
22 WE DON'T WRITE THEM A \$20 MILLION CHECK AND SAY WE
23 HOPE THIS WORKS OUT WELL. WE LAY THE PAYMENTS OUT
24 OVER TIME, AND THERE ARE CERTAIN MILESTONES AND
25 THINGS THAT NEED TO BE ACHIEVED. AND AS THEY

BARRISTERS' REPORTING SERVICE

1 ACHIEVE CERTAIN MILESTONES AND AS TIME GOES BY, WE
2 CONTINUE TO WRITE MORE CHECKS OUT. AND SO MOSTLY
3 WHAT YOU SEE HERE ARE SOME LARGE PROGRAMS REACHING
4 DECISION POINTS WHERE IT DOESN'T MAKE SENSE FOR THE
5 PROGRAM TO MOVE FORWARD AND THE PROGRAM IS
6 TERMINATED.

7 THE MOST RECENT EXAMPLE WAS THE STEM
8 CELLS, INC. AWARD WHICH WAS ABOUT \$10 MILLION OR SO
9 IN TERMINATION. SO THAT MONEY WOULD COME OUT OF THE
10 AWARDED BUCKET AND CYCLE BACK UP. TO HAVE 25
11 MILLION OUT OF 51 MILLION IN NEW AWARDS COME BACK, I
12 THINK THERE'S TWO THINGS THAT ARE ABERRATIONAL
13 THERE. ONE IS \$51 MILLION IS UNUSUALLY LOW. I'M
14 HOPING THAT WITH CIRM 2.0 CLINICAL AND TRANSLATIONAL
15 AND DISCOVERY UP AND RUNNING THAT WE'RE ACTUALLY
16 MAKING AWARDS AT A HIGHER RATE THAN 51 MILLION. AND
17 THEN THE 25 MILLION I'M HOPING IS ABERRATIONALLY
18 HIGH IN RETURNS IN THAT OUR PROGRAMS WILL HAVE A
19 HIGHER SUCCESS RATE GOING FORWARD. THAT'S CERTAINLY
20 OUR INTENT, TO DO EVERYTHING WE CAN TO MAKE THEM
21 SUCCESSFUL. WITH THAT SAID, IF A PROGRAM DOESN'T
22 WORK, IT DOESN'T WORK. SO WE WILL TERMINATE IT.

23 DR. MELMED: FOLLOW UP ON THAT QUESTION.
24 THE FIRST ONE WAS A TERRIFIC REPORT. THANK YOU.
25 VERY NICE.

BARRISTERS' REPORTING SERVICE

1 CAN YOU EXPLAIN TO THE BOARD THE MECHANISM
2 FOR YOUR OFFICE TO GO BACK AND UNDERSTAND WHICH
3 FUNDS WERE NOT SPENT AND TO ACTUALLY DO A CLAW-BACK
4 BECAUSE ONE OF THE WEAKNESSES OF THE R01 SYSTEM IS
5 IF A PERSON HAS A FIVE-YEAR GRANT AND THEY ACHIEVE
6 THEIR GOALS IN THE FIRST TWO OR THREE YEARS, THEY
7 USUALLY SPEND THE MONEY WELL IN THE FINAL TWO YEARS
8 ON A DIFFERENT PROJECT. DO WE HAVE A MECHANISM
9 BECAUSE THE PRIOR AWARDS IN THE EARLY YEARS WERE
10 PRETTY BIG? SO JUST BECAUSE PEOPLE HAVE AN AWARD
11 AND THEY'RE DOING WORK, THEY'RE GOING TO CONTINUE TO
12 SPEND MONEY. DO WE HAVE A MECHANISM FOR GOING BACK
13 AND ASSURING OURSELVES THAT THAT MONEY IS SPENT ONLY
14 ON THE PROJECT WHICH WAS APPROVED? AND IF NOT, THAT
15 THEY RETURN THAT MONEY AS A CLAW-BACK.

16 BASED ON THE NUMBERS THAT YOU'RE SHOWING
17 US, THERE SEEMS TO BE AN EFFORT TO DO THAT, BUT THE
18 BOARD ISN'T CLEAR ON HOW YOU'RE DOING IT, AND CAN
19 YOU ASSURE US THAT THERE AREN'T MANY MORE MILLIONS
20 LYING EITHER UNSPENT OR BEING SPENT INAPPROPRIATELY
21 ON GOOD SCIENCE WHICH IS NOT RELEVANT TO US?

22 DR. MILLS: THE ONE PART -- I WANT TO HAVE
23 JAMES TALK ABOUT THE MECHANISM STUFF BECAUSE THAT'S
24 WHAT HE DOES. THE ONE THING I WANT TO TALK ABOUT IN
25 THE 25 MILLION GOING FROM THE AWARDED BACK TO THE

BARRISTERS' REPORTING SERVICE

1 UNCOMMITTED, THAT IS NOT US FINDING LITTLE POCKETS
2 OF UNSPENT MONEY HERE OR THERE. THOSE ARE BIG
3 PROGRAMS THAT HAD AS PART OF THE -- WHEN I WAS ON
4 THE GRANTS REVIEW GROUP, ONE OF THE THINGS THAT WE
5 WOULD ALWAYS TALK ABOUT IS THIS SEEMS LIKE A GOOD
6 PROJECT; BUT IF AT STEP B WE DON'T SEE THIS RESULT,
7 THERE'S NO SENSE IN GOING TO C, D, E, AND F, SO THE
8 PROGRAM SHOULD BE STOPPED.

9 AND THE PEOPLE WHO -- THE SPONSORS OF THE
10 PROGRAMS BELIEVE THAT TOO. SO THAT'S PART OF THE
11 WRITTEN CONTRACT THAT WE HAVE, THAT EVERY STEP ALONG
12 THE WAY THERE ARE GO/NO-GO DECISIONS. AND IF WE RUN
13 INTO A NO-GO DECISION AND IT'S NOT CURABLE, THEN THE
14 PROGRAM ENDS. IT MIGHT HAVE BEEN \$20 MILLION, BUT
15 WE'RE ONLY \$6 MILLION INTO IT, IT'S \$6 MILLION THAT
16 WE'VE SPENT, AND THE REMAINING 14 MILLION COMES
17 BACK. THAT'S THE VAST MAJORITY OF THE RETURN YOU
18 SEE RIGHT THERE.

19 JAMES, CAN YOU TALK ABOUT MECHANISMS FOR
20 NOT HAVING THEM SPEND MONEY ON INAPPROPRIATE USES?

21 MR. HARRISON: SURE. SO TWO MECHANISMS.
22 ONE, IF THERE ARE UNSPENT FUNDS LEFT OVER AT THE END
23 OF AN AWARD, THEY'RE REQUIRED TO BE RETURNED TO
24 CIRM. TWO, WE DO CONDUCT FINANCIAL COMPLIANCE
25 AUDITS TO ENSURE THAT THAT HAPPENS.

BARRISTERS' REPORTING SERVICE

1 I DO WANT TO POINT OUT THAT UNDER CIRM 2.0
2 WE INTEND TO TAKE A SLIGHTLY DIFFERENT APPROACH. SO
3 AS WE'VE DISCUSSED BEFORE, THERE WILL BE A BUDGET
4 REVIEW THAT'S CONDUCTED OF EACH APPLICATION BEFORE
5 IT ACTUALLY GOES TO THE GRANTS WORKING GROUP BY
6 BUDGET EXPERTS WHO WILL PROVIDE INFORMATION TO CIRM
7 PURSUANT TO WHICH WE'LL BE ABLE TO MAKE A
8 DETERMINATION AS TO WHETHER THE BUDGET IS OUT OF
9 WHACK BY SOME SUBSTANTIAL DEGREE.

10 IF IT IS, THAT APPLICATION WILL NOT
11 PROCEED TO GWG REVIEW. IT WILL BE SENT BACK TO THE
12 APPLICANT FOR ADDITIONAL WORK AND RESUBMISSION.

13 SECOND, TO THE EXTENT THAT A BUDGET THAT
14 PASSES THAT REVIEW AND IS RECOMMENDED FOR FUNDING BY
15 THE GWG AND APPROVED BY THE APPLICATION REVIEW
16 SUBCOMMITTEE, IF THAT APPLICANT OR AWARDEE, RATHER,
17 IS ABLE TO ACHIEVE THE MILESTONES MORE QUICKLY AND
18 MORE EFFICIENTLY THAN EXPECTED AND THEREBY SAVE
19 MONEY, WHICH WE WANT TO INCENTIVIZE, OF COURSE, THEN
20 THAT APPLICANT WILL HAVE THE ABILITY TO COME BACK TO
21 CIRM AND REQUEST THE OPPORTUNITY TO USE THE
22 REMAINING FUNDS TO ADVANCE CIRM'S MISSION AND CIRM
23 WILL HAVE APPROVAL OF THAT REQUEST. AND IT WILL
24 HAVE TO BE, OF COURSE, CONSISTENT WITH OUR RULES AND
25 REGULATIONS.

BARRISTERS' REPORTING SERVICE

1 MR. PANETTA: THANKS, RANDY. I'LL ECHO
2 SHLOMO'S COMMENT. THAT WAS A GREAT PRESENTATION.
3 YOU WOULD HAVE DONE WELL TO BE ON STAGE AT J.P.
4 MORGAN YOURSELF ALONG WITH THE OTHERS.

5 DR. MILLS: THAT WAS AWHILE AGO. I DON'T
6 HAVE TO DO THAT ANYMORE.

7 MR. PANETTA: ONE OF THE THINGS THAT I'M
8 ASKED A LOT IS THAT WE'VE SPENT TEN YEARS NOW MAKING
9 AN INVESTMENT IN RESEARCH THROUGH THE GRANTS THAT
10 CIRM HAS PUT OUT. AND ONE OF THE THINGS EARLY ON
11 THAT WAS TALKED ABOUT WAS THE POSITIVE ECONOMIC
12 IMPACT THAT THIS WOULD HAVE IN THE FIELD AND IN
13 CALIFORNIA. I KNOW OUR MISSION IS TO DEVELOP CURES
14 FOR PATIENTS. THAT'S WHY WE'RE HERE. BUT THAT
15 QUESTION COMES UP ONCE IN A WHILE. I'M WONDERING IF
16 WE COLLECT ANY DATA IN THAT REGARD OR IF THERE'S ANY
17 REFERENCE THAT WE CAN GO TO NOW TO BE ABLE TO REPORT
18 BACK ON THAT IMPACT.

19 DR. MILLS: J.T. HAS MORE OF THAT TYPE OF
20 DATA. DO YOU WANT TO JUST SPEAK TO THE ECONOMIC
21 IMPACT OUTSIDE OF --

22 CHAIRMAN THOMAS: WE HAD A REPORT DONE
23 THREE YEARS AGO WHICH LOOKED EXACTLY AT THAT TOPIC,
24 WHICH IS MORE THE IMPACT IN INDUSTRY NOT IN TERMS OF
25 ROYALTIES TO THE STATE FOR PRODUCT THAT'S GOING TO

BARRISTERS' REPORTING SERVICE

1 COME DOWN THE ROAD. THAT WILL BE IN DUE COURSE.
2 BUT IN TERMS OF THINGS LIKE NEW JOBS, INCOME TAX TO
3 THE STATE, SALES TAX REPRESENTED BY PEOPLE WHO ARE
4 IN THE INDUSTRY THAT WE'RE FUNDING, ETC. AND THAT
5 REPORT AT THE TIME SHOWED THAT BY CALENDAR 2014 WE
6 WOULD HAVE GENERATED, MR. SENATOR, CORRECT ME IF I'M
7 WRONG, \$214 MILLION IN NEW REVENUE TO THE STATE,
8 38,000 NEW JOBS.

9 WE'RE IN THE PROCESS, ARE WE NOT, OF
10 HAVING THAT UPDATED. THAT'S IN PROCESS AT THE
11 MOMENT. AND AT SUCH TIME AS WE GET THAT REPORT
12 BACK, WE WILL BRING IT AND DISTRIBUTE TO THE BOARD.

13 MR. TORRES: ALSO IF ANYONE HAS ANY
14 QUESTIONS, PLEASE FEEL FREE TO E-MAIL ME OR TEXT AND
15 I'LL GET ANY INFORMATION, OR SPECIFIC QUESTIONS YOU
16 MIGHT HAVE ON SOME OF THOSE ISSUES, I'LL BE HAPPY TO
17 SEND THAT REPORT TO THE MEMBERS OF THE BOARD, THE
18 LAST REPORT THAT WE DID.

19 DR. DULIEGE: CLEARLY ONE OF THE IMPORTANT
20 OBJECTIVES OF CIRM IS TO MOVE AS MANY CANDIDATES
21 THROUGH PHASE II AND POSSIBLY PHASE II TRIALS. IN
22 THAT REGARD, CONGRATULATIONS TO THE CIRM FOR
23 LAUNCHING THE ALPHA CLINICS. MY QUESTION IS WHEN DO
24 YOU EXPECT TO REPORT ON THEIR ACTIVITIES TO THE
25 BOARD? WHAT DO YOU EXPECT FOR THEM TO DO RAPIDLY TO

BARRISTERS' REPORTING SERVICE

1 CHANGE THE WAY CLINICAL TRIALS ARE BEING DONE IN
2 STEM CELLS?

3 DR. MILLS: THE ALPHA CLINICS? SO WE JUST
4 HAD THE KICKOFF, THE LARGE KICKOFF MEETING WITH ALL
5 OF THE GROUPS TOGETHER AND THEN THEIR INDIVIDUAL
6 SITE VISITS. THEY ARE COMING ONLINE QUICKLY. THEY
7 ALL HAVE A SENSE OF URGENCY TO PERFORM.

8 THE ONE I ATTENDED WAS AT UCSD, WHICH WAS
9 VERY EXCITING. THEY'RE LOOKING AT TWO PROGRAMS,
10 BRINGING TWO PROGRAMS ON, I BELIEVE, THIS YEAR. AND
11 I THINK BASICALLY THEY'RE ALL LOOKING AT BRINGING
12 THEIR FIRST TWO PROGRAMS ON THIS YEAR. WE WILL BE
13 REPORTING BACK ON IT AS THESE THINGS OCCUR BASICALLY
14 EVERY TIME SOMETHING HAPPENS THAT WARRANTS OR WHEN
15 SOMETHING SHOULD HAVE HAPPENED AND IT DIDN'T IF
16 THAT'S THE CASE.

17 MR. SHEEHY: SO I WAS STRUCK BY YOUR
18 COMMENTS OF THE TEAM WORKING ON NEW YEAR'S EVE TO
19 GET THIS DONE. AND IT JUST REMINDS ME THAT IT'S
20 ALMOST EXACTLY TEN YEARS SINCE THE VERY FIRST TEAM
21 MEMBER CAME TO CIRM. AND I SEE DR. ARLENE CHIU IN
22 THE AUDIENCE WHO WAS ONE OF THE FIRST. AND I THINK
23 THAT THAT'S BEEN A CHARACTERISTIC OF THE CIRM TEAM
24 FROM THE VERY BEGINNING IS THE WILLINGNESS TO WORK
25 INCREDIBLY HARD WITH WHAT IS ACTUALLY A TINY STAFF,

BARRISTERS' REPORTING SERVICE

1 A TINY GROUP OF INDIVIDUALS, WITH INCREDIBLE
2 DEDICATION AND PASSION AND A SENSE OF URGENCY.

3 AND I KNOW I'M PERSONALLY EXTRAORDINARILY
4 GRATEFUL TO THE WORK OF THE TEAM MEMBERS WHO HAVE
5 PARTICIPATED AND DONE SO MUCH TO ADVANCE THE CAUSE
6 OF CURES FOR THE PEOPLE OF CALIFORNIA. AND I AM
7 VERY, VERY GRATEFUL. THANK YOU.

8 (APPLAUSE.)

9 DR. MILLS: I AM TOO.

10 MR. TORRES: AND NOW THEY DESERVE A BONUS.

11 DR. MILLS: REMEMBER THE LITTLE BUCKET
12 THING?

13 ANY OTHER QUESTIONS? THAT'S ALL I HAD.

14 CHAIRMAN THOMAS: DR. MILLS, THANK YOU
15 VERY MUCH. I JUST WANT TO ECHO WHAT MR. SHEEHY
16 SAID. THIS IS AN EXTRAORDINARY FRENETIC YET
17 COMPREHENSIVE EFFORT TO MATERIALLY OVERHAUL AND
18 IMPROVE WHAT HAD ALREADY BEEN A VERY GOOD PROCESS TO
19 MAKE IT EVEN BETTER. I WANT TO CONGRATULATE YOU FOR
20 YOUR VISION, FOR YOUR LEADERSHIP. CONGRATULATE THE
21 TEAM FOR EVERYTHING IT DID TO MAKE THIS HAPPEN.
22 CIRM 2.0 AS A BRAND IS ALREADY OUT THERE IN THE
23 ETHER.

24 CERTAINLY AT J.P. MORGAN I HAD COUNTLESS
25 PEOPLE MENTION 2.0 TO ME AND WHAT A GREAT

BARRISTERS' REPORTING SERVICE

1 DEVELOPMENT THIS WAS AND HOW IT WAS GOING TO
2 ACCELERATE EVEN FURTHER THE PROCESS OF GETTING
3 FUNDING TO INVESTIGATORS AND ULTIMATELY THERAPIES TO
4 PATIENTS. SO I JUST WANTED TO THANK YOU FOR ALL
5 THAT YOU'VE DONE. THIS IS A TERRIFIC NEW GAME PLAN,
6 AND WE'RE EXCITED TO SEE WHAT COMES OF IT STARTING
7 THIS FRIDAY. SO THANK YOU VERY MUCH.

8 DR. MILLS: THANK YOU. AND I VERY MUCH
9 APPRECIATE THAT. I WANT TO THANK THE TEAM. I THINK
10 THEY'RE A REMARKABLE GROUP OF PEOPLE AND PROBABLY
11 THE MOST TALENTED TEAM I'VE EVER WORKED WITH. WHAT
12 I WILL TELL YOU IS WE HAVE NOT ACCOMPLISHED IT. WE
13 JUST STARTED IT. AND I WILL NOT BE AND THEY WILL
14 NOT BE HAPPY WITH ANYTHING OTHER THAN SUCCESS WHICH
15 IS UNQUALIFIED. SO WE HAVE JUST TAKEN THE FIRST
16 STEPS HERE. WE HAVE NOT ARRIVED. THAT'S FOR SURE.
17 THANK YOU.

18 CHAIRMAN THOMAS: THANK YOU.

19 ONE OTHER THING THAT HAPPENED OVER THE
20 COURSE OF THIS LAST MONTH THAT I WANTED TO COMMENT
21 ON BRIEFLY, PART 2 OF THE GENOMICS REVIEW TOOK PLACE
22 DOWN IN SAN DIEGO LAST WEEK. AND THIS IS THE PART
23 OF THE INDIVIDUAL PROJECTS FROM VARIOUS APPLICANTS
24 FROM AROUND THE STATE. I AND DAVID HIGGINS WERE
25 THERE REPRESENTING THE CIRM BOARD. AND I WAS

BARRISTERS' REPORTING SERVICE

1 WONDERING IF MR. HIGGINS COULD COMMENT BRIEFLY ON
2 THAT EVENT.

3 MR. HIGGINS: CERTAINLY. FOR THOSE OF YOU
4 WHO DON'T KNOW WHAT THIS IS, THIS IS STEM CELLS
5 MEETS GENOMICS. AND IT'S ACTUALLY A FANTASTIC
6 PROGRAM THAT GIVES STEM CELL LABS ACCESS TO THE
7 TOPNOTCH GENOMICS FACILITIES IN THE STATE. IT'S RUN
8 JUST LIKE A GRANTS WORKING GROUP REVIEW. LAST
9 FRIDAY I THINK THERE WERE ABOUT 30 GRANTS THAT WERE
10 REVIEWED AND A PANEL OF SIX EXPERT JUDGES.

11 AS USUAL, THE CASE IN ALL THE GRANT
12 WORKING GROUP MEETINGS I'VE BEEN TO, THE EXCEPTIONAL
13 DEDICATION ON THE PART OF THE REVIEWERS TO
14 EXTRACTING VALUE WHERE SOMETIMES THE VALUE IS HIDDEN
15 BUT IS THERE, UNDERSTANDING WHAT THE RESEARCHERS ARE
16 TRYING TO DO, AND ACTUALLY CAPTURING THE BEST
17 POSSIBLE OUTCOME FOR CIRM, I WAS VERY IMPRESSED WITH
18 THE PROCESS AND THE SCIENCE THAT WAS GOING ON.

19 CHAIRMAN THOMAS: THANK YOU, DAVID. AND
20 THANK YOU FOR YOUR PARTICIPATION. I THINK, AS
21 ALWAYS, IT'S CRITICAL THAT WE HAVE PATIENT ADVOCATE
22 REPRESENTATION AT ALL OF THESE GRANTS WORKING GROUP
23 EVENTS TO DRIVE HOME THAT IT IS ALL ABOUT THE
24 PATIENTS THAT THE SESSIONS ARE, AND THAT IT'S VERY
25 HELPFUL FOR THEM TO INTERACT WITH THE PATIENT

BARRISTERS' REPORTING SERVICE

1 ADVOCATES, TO TALK TO THEM, TO HEAR WHAT'S
2 IMPORTANT, TO GET THEIR FEEDBACK. SO THANK YOU VERY
3 MUCH FOR BEING THERE TO REPRESENT THE BOARD AND
4 PATIENTS EVERYWHERE. SO THANK YOU.

5 OKAY. WE ARE NOW GOING TO PROCEED TO THE
6 FINANCIAL UPDATE. CHILA.

7 MS. SILVA-MARTIN: GOOD MORNING, MR.
8 CHAIR, MEMBERS OF THE BOARD, CIRM TEAM, AND MEMBERS
9 OF THE PUBLIC. THIS MORNING I WILL BE PROVIDING YOU
10 WITH COVERING THE FOLLOWING TOPICS ON THE UPDATE. I
11 WILL TALK TO YOU ABOUT OUR GRANT DISBURSEMENTS AND
12 OUR AVAILABLE CASH. I WILL SHARE WITH YOU
13 EXPENDITURES FOR THE FIRST SIX MONTHS OF THE FISCAL
14 YEAR AGAINST WHAT WAS BUDGETED BY BOTH CATEGORY OF
15 EXPENDITURE AS WELL AS COST CENTER. I WILL TALK A
16 LITTLE BIT ABOUT CIRM 2.0, THE REORGANIZATION AND
17 THE IMPACT OF THE FINANCIALS. AND THEN, BELIEVE IT
18 OR NOT, THE DEVELOPMENT OF A '15-'16 BUDGET THAT'S
19 NOW UNDER WAY.

20 SO FIRST, LOOKING AT OUR GRANT
21 DISBURSEMENTS, REALLY NOT A LOT OF CHANGE YEAR OVER
22 YEAR. FOR THE FIRST HALF OF THIS FISCAL YEAR, WE'VE
23 DISBURSED JUST UNDER \$112 MILLION, WHICH IS ABOUT \$9
24 MILLION MORE THAN WE DISBURSED DURING THE SAME
25 PERIOD IN THE '13-'14 FISCAL YEAR. WE CONTINUE TO

BARRISTERS' REPORTING SERVICE

1 MAINTAIN A VERY HEALTHY CASH RESERVE. WE HAVE JUST
2 UNDER \$97 MILLION TO MEET OUR GRANT PAYMENTS AND OUR
3 OPERATIONAL NEEDS FOR SEVERAL MONTHS.

4 I DO WANT TO SAY THAT AMY LEWIS FROM THE
5 OFFICE OF THE CHAIR HAS SPENT A SIGNIFICANT AMOUNT
6 OF TIME THIS MONTH WORKING WITH THE DEPARTMENT OF
7 FINANCE PREPARING SPREADSHEETS AND DATA FOR THEM AS
8 THEY MOVE FORWARD TO SECURE MORE FUNDS FOR THE
9 SPRING BOND SALE. AS A RESULT OF AMY'S EFFORTS, WE
10 HAVE PUT IN A REQUEST FOR \$133 MILLION FOR THE
11 SPRING BOND SALE THAT WILL PROBABLY TAKE PLACE IN
12 APRIL. AND AS ALWAYS, WE CONTINUE TO HAVE AVAILABLE
13 TO US, SHOULD WE NEED IT, COMMERCIAL PAPER.

14 NOW, THIS NEXT CHART PROVIDES YOU
15 EXPENDITURES FOR THE FIRST TWO QUARTERS OF THE
16 FISCAL YEAR BY CATEGORIES. AS YOU CAN SEE, WE WERE
17 ALLOCATED APPROXIMATELY \$8.3 MILLION FOR THE FIRST
18 SIX MONTHS OF THE FISCAL YEAR, AND WE SPENT ABOUT
19 \$7.5 MILLION. SO WE ARE UNDERRUNNING THE BUDGET
20 JUST BY UNDER \$800,000. AS YOU CAN SEE BY THE
21 CATEGORIES, THE MAJORITY OF THOSE THAT UNDERRUN IS
22 IN EMPLOYEE EXPENSES. WE'VE HAD SOME UNDERRUNS AS
23 WELL IN REVIEWS, MEETINGS, AND WORKSHOPS AS WELL AS
24 TRAVEL.

25 WHEN I GO OVER THE NEXT CHART, I WILL SHOW

BARRISTERS' REPORTING SERVICE

1 YOU -- I WILL TALK A LITTLE BIT MORE ABOUT THOSE
2 ACTUAL UNDERRUNS. SO JUST IN GENERAL, WE ARE WITHIN
3 BUDGET AND UNDERRUNNING IT A BIT.

4 SO NOW LOOKING AT THE SAME EXPENDITURES,
5 BUT LOOKING AT THEM BY COST CENTERS, AS YOU CAN SEE,
6 THERE ARE SEVERAL COST CENTERS THAT ARE PRETTY MUCH
7 WITHIN THEIR BUDGET: PUBLIC COMMUNICATIONS, I.T.,
8 FINANCE, AND BUSINESS DEVELOPMENT. WHILE WE DO HAVE
9 A LITTLE BIT OF AN UNDERRUN, IT'S NOT MAJOR. WHERE
10 YOU ARE GOING TO SEE THE BIGGEST UNDERRUNS ARE IN
11 THE SCIENCE OFFICE RESEARCH, AND THAT'S BECAUSE THEY
12 HAVE EXPERIENCED SOME SAVINGS FROM VACANCIES BUT --

13 MR. TORRES: COULD ONE OF THE STAFFERS
14 SEND AN E-MAIL TO US --

15 MS. BONNEVILLE: GO ONTO THE WEBSITE.

16 MS. SILVA-MARTIN: WE'RE ON THE SLIDE BY
17 COST CENTERS, AMY.

18 SO AS YOU CAN SEE, IN OUR SCIENCE OFFICE
19 RESEARCH, WE ARE UNDERRUNNING THE BUDGET A BIT.
20 AGAIN, THAT'S ATTRIBUTABLE TO SOME SALARY SAVINGS
21 AND THE ASSOCIATED BENEFITS, BUT ALSO IN THIS COST
22 CENTER WE'VE HAD SOME SAVINGS FROM REVIEWS,
23 MEETINGS, AND WORKSHOPS. ONE THAT DID NOT
24 MATERIALIZE, BUT, MORE IMPORTANTLY, THE EFFORTS OF
25 OUR ADMIN STAFF. SO THEY'RE RESPONSIBLE. WE HAVE A

BARRISTERS' REPORTING SERVICE

1 GROUP OF ADMIN, A TEAM, THAT ARE RESPONSIBLE FOR
2 PUTTING TOGETHER THESE MEETINGS, OUR GRANT REVIEW
3 MEETINGS, AND THEY HAVE BEEN WORKING DILIGENTLY TO
4 REDUCE OUR COST, AND THAT'S REALLY REFLECTED IN OUR
5 OVERALL EXPENDITURES.

6 IN OUR SCIENCE OFFICE DEVELOPMENT, WE ARE
7 SEEING AN UNDERRUN DUE MAINLY TO CDAP MEETINGS THAT
8 DID NOT MATERIALIZE, BUT ALSO SALARIES AND
9 ASSOCIATED BENEFITS FROM VACANCIES IN THAT AREA.

10 IN OUR OFFICE OF THE PRESIDENT, THE
11 SAVINGS THERE IS REALLY ATTRIBUTABLE TO TWO REASONS.
12 AS YOU MAY RECALL, AT THE BEGINNING OF THE FISCAL
13 YEAR, WE HAD TWO VACANCIES THAT OCCURRED IN THE
14 OFFICE OF THE PRESIDENT. DR. MILLS EVALUATED THOSE
15 POSITIONS AND MADE A DETERMINATION THAT THEY WERE
16 NOT NEEDED AND, THEREFORE, WERE ELIMINATED. SO THE
17 MAJORITY OF THE SAVINGS THERE IS FROM THOSE TWO
18 POSITION VACANCIES. BUT WE ALSO ARE SEEING SAVINGS
19 IN DR. MILLS' OFFICE FROM TRAVEL. WE HAD PUT
20 TOGETHER A TRAVEL PLAN, AND DR. MILLS IS NOT
21 EXERCISING THAT TRAVEL AS WE HAD IN THE PAST. SO
22 THAT'S WHERE WE'RE GETTING SOME SAVINGS.

23 AND THEN IN THE OFFICE OF LEGAL, THE
24 SAVINGS THERE, A POSITION THAT BECAME VACANT AND WAS
25 NOT FILLED AND THEN ALSO TRAVEL AS WELL.

BARRISTERS' REPORTING SERVICE

1 SO NOW LOOKING AT CIRM 2.0 AND THE
2 REORGANIZATION, WHAT I WANT TO SAY ABOUT THAT, AS
3 YOU RECALL, AT THE LAST BOARD MEETING DR. MILLS
4 INTRODUCED AND THIS BOARD APPROVED THE
5 REORGANIZATION THAT TOOK EFFECT JANUARY 1ST. THIS
6 IS GOING TO REQUIRE THAT WE ESTABLISH NEW COST
7 CENTERS IN OUR FINANCIAL SYSTEM TO ACCOMMODATE THE
8 NEW STRUCTURE. THIS IS GOING TO INVOLVE BRINGING
9 OVER AND REALLOCATING THE BALANCE OF THE '14-'15
10 BUDGET AS WELL AS PLACING OUR TEAM IN THEIR
11 APPROPRIATE COST CENTERS. SO OUR ADMIN AND FINANCE
12 TEAM IS CURRENTLY WORKING WITH THE DEPARTMENT OF
13 GENERAL SERVICES THAT PERFORMS OUR ACCOUNTING
14 FUNCTION FOR US AND THE PUBLIC UTILITY COMMISSIONS
15 THAT PERFORMS OUR PAYROLL TO GET THIS ACCOMPLISHED
16 AS QUICKLY AND EFFICIENTLY AS POSSIBLE. ONCE THIS
17 IS ALL ACCOMPLISHED, ALL FUTURE FINANCIAL REPORTING
18 WILL REFLECT THIS NEW REORGANIZATION.

19 AND THEN FINALLY, IT'S HARD TO BELIEVE.
20 IT JUST SEEMS LIKE WE JUST FINISHED NOT TOO LONG AGO
21 THE DEVELOPMENT AND IMPLEMENTATION OF THE '14-'15
22 BUDGET, BUT WE'RE NOW READY TO MOVE ON TO DEVELOPING
23 THE '15-'16 BUDGET. SO THIS CHART SHOWS YOU THE
24 TIMELINE. WE'LL BE DISTRIBUTING DATA TO THE COST
25 CENTER MANAGERS AS WELL AS THE DOCUMENTS THAT THEY

BARRISTERS' REPORTING SERVICE

1 NEED TO SUBMIT TO REQUEST THEIR '15-'16 BUDGET.
2 WE'LL CONDUCT AN INTERNAL REVIEW WITH THE PRESIDENT
3 AND THE CHAIR. AS DR. MILLS INDICATED IN HIS
4 REPORT, WE'LL BE BRINGING THE INITIAL BUDGET TO THE
5 FINANCE SUBCOMMITTEE -- WE'LL BRING IT TO THE CHAIRS
6 FIRST IN MARCH AND THEN WE'LL BRING IT TO THE
7 FINANCE SUBCOMMITTEE IN APRIL AND THEN FOR FINAL
8 REVIEW TO THIS BOARD IN MAY.

9 THAT CONCLUDES MY PRESENTATION. ARE THERE
10 ANY QUESTIONS? THANK YOU.

11 CHAIRMAN THOMAS: SO, CHILA, THANK YOU.
12 LIKE A ROCK SINGER, MR. JUELSGAARD. SO THANK YOU,
13 CHILA, VERY MUCH FOR THAT PRESENTATION AND FOR YOUR
14 EXPERT GUIDANCE ON THESE MATTERS. THANK YOU, AMY,
15 FOR YOUR INTERFACING WITH THE DEPARTMENT OF FINANCE
16 AND THE TREASURER'S OFFICE. IT'S A, VERY OBVIOUSLY,
17 CRITICAL FUNCTION -- AMY LEWIS -- TO THE SUCCESS OF
18 THE ORGANIZATION. SO WE'VE GOT OUR FINANCIAL ISSUES
19 IN VERY GOOD HANDS WITH THE TWO OF YOU. SO THANK
20 YOU.

21 ON TO ACTION ITEMS. WE'RE NOW GOING TO GO
22 TO ITEM NO. 7, CONSIDERATION OF APPLICATIONS IN THE
23 TOOLS AND TECHNOLOGY III ROUND. DR. COLLINS IS
24 GOING TO LEAD THIS DISCUSSION.

25 DR. COLLINS: THANK YOU, MR. CHAIR. I'D

BARRISTERS' REPORTING SERVICE

1 LIKE TO SAY GOOD MORNING TO EVERYONE HERE IN THE
2 BOARD AS WELL AS TO MEMBERS OF THE PUBLIC. TODAY I
3 WOULD LIKE TO PRESENT TO YOU THE APPLICATIONS TO RFA
4 13-05, TOOLS AND TECHNOLOGIES III. AND AS JUST
5 MENTIONED, THIS IS AGENDA ITEM NO. 7.

6 SO I'LL FIRST REVIEW THE RFA AND THEN
7 DISCUSS THE GRANTS WORKING GROUP RECOMMENDATIONS.
8 WE'LL HAVE SOME PROGRAMMATIC REVIEW, AND THEN I WILL
9 PRESENT TO YOU THE CIRM TEAM RECOMMENDATIONS.

10 THE TOOLS AND TECHNOLOGY PROGRAM HAS BEEN
11 ONGOING FOR A WHILE AT CIRM. THIS IS ACTUALLY OUR
12 THIRD CALL OF THE PROGRAM. AND THE FOCUS OF THE RFA
13 HAS EVOLVED WITH THE FIELD. WE'VE MOVED FROM
14 TARGETING MORE BASIC BOTTLENECKS TO OUR CURRENT
15 TRANSLATIONAL FOCUS THAT WE'LL DISCUSS TODAY. AND
16 THE GOAL OF THIS PARTICULAR CALL, STEM CELL
17 THERAPIES FACE SOME SPECIAL CHALLENGES. AND THESE
18 INCLUDE ACHIEVING DURABLE REPLACEMENT OF DAMAGED
19 TISSUES AS WELL AS SOME SAFETY CONCERNS BECAUSE WE
20 ARE NOW GENERATING THERAPIES THAT COULD POTENTIALLY
21 STAY IN THE BODY INDEFINITELY. IN ADDITION, THERE'S
22 SOME CHALLENGES WITH PRECLINICAL MODELING AND
23 PROCESS DEVELOPMENT.

24 SO THIS RFA SEEKS TO ADDRESS THESE
25 CHALLENGES EITHER THROUGH THE GENERATION OF NOVEL

BARRISTERS' REPORTING SERVICE

1 TOOLS AND TECHNOLOGY OR BY ADAPTING THESE EXISTING
2 TOOLS AND TECHNOLOGIES FOR USE IN OUR FIELD.

3 I'D LIKE TO JUST HIGHLIGHT THAT THIS IS A
4 COLLABORATIVE RFA. WE SOUGHT TO BRING TOGETHER BOTH
5 STEM CELL BIOLOGISTS AS WELL AS DEVELOPERS OF OTHER
6 TECHNOLOGIES SUCH AS TISSUE ENGINEERS, PEOPLE WITH
7 IMAGING EXPERTISE, PROCESS DEVELOPMENT EXPERTISE.
8 THAT TYPE OF TECHNOLOGY EXPERTISE WE WANTED TO BRING
9 INTO THE RFA. SO IT IS OPEN TO BOTH CO-PI'S AND
10 OTHER PARTNERS.

11 YOU WILL RECALL THAT YOU APPROVED A BUDGET
12 OF \$35 MILLION FOR THIS PROGRAM TO FUND
13 APPROXIMATELY 20 AWARDS. AND THE ELIGIBILITY
14 CRITERIA ARE OTHERWISE FAIRLY STANDARD AND SPELLED
15 OUT IN FULL IN THE RFA.

16 SO I'D LIKE TO JUST SUMMARIZE THE REVIEW
17 CRITERIA WE ASKED THE GRANTS WORKING GROUP TO USE AS
18 THEY SCORED THESE APPLICATIONS. AND REALLY TO BOIL
19 IT DOWN, DOES THE PROJECT MAKE SCIENTIFIC SENSE?
20 WILL IT HELP US BRING THERAPIES TO PATIENTS? THAT'S
21 OUR GOAL. AND DOES THE TEAM HAVE EVERYTHING THEY
22 NEED TO EXECUTE THE PROJECT? AND, OF COURSE, IS
23 THIS THE IDEAL TEAM TO PERFORM THE WORK?

24 WE'RE LOOKING FOR THE BEST QUALITY
25 APPLICATIONS. AND WE USE THE HUNDRED POINT

BARRISTERS' REPORTING SERVICE

1 DETERMINATIVE THREE-TIER SCORING SYSTEM TO EVALUATE
2 THE APPLICATIONS. AND BY DETERMINATIVE WE MEAN THAT
3 THE SCORE THAT IS GIVEN FORMS THE RECOMMENDATION FOR
4 ANY GIVEN REVIEWER. AND WE INSTRUCTED THE GRANTS
5 WORKING GROUP THAT IF THEY FELT AN APPLICATION WAS
6 MERITORIOUS AND SHOULD BE FUNDED, THEY SHOULD GIVE
7 IT A SCORE OF 75 OR ABOVE. IF AN APPLICATION WAS
8 NOT FOUND TO BE MERITORIOUS, IT SHOULD BE SCORED 64
9 OR BELOW. AND THE WORKING GROUP WAS INSTRUCTED TO
10 ONLY PUT AN APPLICATION IN TIER II BY ASSIGNING A
11 SCORE OF 65 TO 74 IF THEY WERE UNABLE TO DECIDE AN
12 APPLICATION'S MERIT OR COULD NOT ACHIEVE CONSENSUS
13 ON THE MERIT OF AN APPLICATION.

14 THE NEXT TWO SLIDES ARE THE RFA
15 PRIORITIES. I'D LIKE TO MENTION THAT WE IDENTIFIED
16 THESE PRIORITIES BY REVIEWING OUR CIRM PORTFOLIO,
17 AND THEY ADDRESSED SOME OF THE RECURRING CHALLENGES
18 THAT WE'VE IDENTIFIED IN OUR TRANSLATIONAL AND
19 DEVELOPMENT PROGRAMS. WE ALSO RECEIVED SOME
20 CONFIRMATORY INPUT FROM OUR TISSUE ENGINEERING
21 WORKSHOP AND OUR MANUFACTURING WORKSHOP THAT WE HELD
22 LAST SUMMER.

23 SO THIS FIRST BULLET, TISSUE ENGINEERING
24 OR NICHE ENGINEERING STRATEGIES, COULD HELP ADDRESS
25 THE ENGRAFTMENT AND SURVIVAL BOTTLENECK THAT WE'VE

BARRISTERS' REPORTING SERVICE

1 OBSERVED FOR CELL THERAPIES FOR A NUMBER OF ORGAN
2 SYSTEMS. MODELING OF THE EFFECTS OF HUMAN CELL
3 THERAPIES IN IMMUNE COMPETENT LARGE ANIMALS WHICH
4 THE FDA REQUIRES FOR CERTAIN INDICATIONS PRESENT
5 SOME IMMUNOLOGY PROBLEMS, AND THIS COULD BE IMPROVED
6 BY EITHER MODULATING THE IMMUNE SYSTEM USING
7 IMMUNODEFICIENT ANIMALS OR TAKING SOME OF THE
8 APPROACHES SHOWN HERE.

9 FINALLY, IMAGING IS REALLY HOW WE TRACK
10 THE BEHAVIOR OF CELLS -- TRACK THE LOCATION OF CELLS
11 IN THE BODY. SO THIS IS OUR BIODISTRIBUTION TOOL.
12 AND WE NEED SENSITIVE WAYS TO SEE WHERE CELLS ARE
13 GOING AND POTENTIALLY ASSESS WHAT THEY'RE DOING IN
14 VIVO.

15 THIS NEXT SLIDE IS SOME CONTINUED
16 PRIORITIES. PROCESS IMPROVEMENTS COULD HELP MAKE
17 STEM CELL THERAPIES MORE ECONOMICALLY FEASIBLE. SO
18 WE WERE LOOKING FOR MORE EFFICIENT PROCESSES. OF
19 COURSE, EXPANDING AND GENERATING HEMATOPOETIC STEM
20 CELLS FROM PLURIPOTENT STEM CELLS COULD HAVE A BROAD
21 IMPACT.

22 AND FINALLY, I'D LIKE TO JUST HIGHLIGHT
23 THIS LAST BULLET. WHERE IT INCREASES THE LIKELIHOOD
24 OF PROJECT SUCCESS, IF A COLLABORATION MAKES FOR A
25 SUPERIOR APPLICATION AND A BETTER FUNCTIONING

BARRISTERS' REPORTING SERVICE

1 PROJECT, WE ASK THAT THOSE APPLICATIONS BE
2 PRIORITIZED AS WELL.

3 I THINK WE HAVE A BREAK HERE.

4 DR. SAMBRANO: SO WHAT I JUST WANT TO DO
5 IS ORIENT YOU A LITTLE BIT ON THE TABLE THAT WE
6 PROVIDED THAT HAS THE LIST OF GRANT APPLICATIONS IN
7 THEIR RESPECTIVE TIERS. AND THESE YOU HAVE, I
8 THINK, AS A HARD COPY. SO THAT SHOULD BE IN FRONT
9 OF YOU, AND YOU CAN REFERENCE IT THERE.

10 I ALSO WANT TO POINT OUT THERE IS A MEMO
11 THAT I PROVIDED, AND THERE'S AN UPDATE TO THAT MEMO
12 RELATED TO APPEAL REQUESTS THAT WERE SUBMITTED BY
13 APPLICANTS FOR THIS SPECIFIC RFA. SO THERE ARE
14 THREE APPEAL REQUESTS THAT WERE MADE FOR
15 APPLICATIONS 7678, THAT'S THE NUMBER OF THE
16 APPLICATION, WHICH HAD A SCORE OF 74, SO THAT WAS
17 RIGHT ON THE BORDER, AND APPLICATION 7836, AND THAT
18 ONE WAS NEAR THE BORDER BETWEEN TIER III AND TIER
19 II. THOSE TWO ARE BEING DEFERRED SO THAT WE CAN --
20 THESE WERE BASED ON AN APPEAL FILED ON A MATERIAL
21 DISPUTE OF FACT. SO WE ARE GOING TO INVESTIGATE
22 THOSE FURTHER, AND THOSE WILL BE DEFERRED,
23 THEREFORE, TO THE NEXT BOARD MEETING, AND THEY WILL
24 NOT BE CONSIDERED AT THIS MEETING.

25 THERE WAS A THIRD APPEAL REQUEST MADE FOR

BARRISTERS' REPORTING SERVICE

1 APPLICATION 7805, AND THERE THE APPLICANT CONSULTED
2 WITH US AND WE REVIEWED THEIR APPEAL REQUEST, BUT
3 THAT ONE WAS DENIED BECAUSE IT DID NOT MEET THE
4 CRITERIA FOR A MATERIAL DISPUTE OF FACT.

5 SO JUST WANTED TO HIGHLIGHT THOSE POINTS.

6 MR. SHEEHY: DR. SAMBRANO, WHAT WAS THE
7 FIRST ONE?

8 DR. SAMBRANO: THE FIRST ONE WAS 7678.
9 IT'S ON THE BORDER RIGHT AT THE TOP OF TIER II.

10 MR. SHEEHY: GREAT. THANK YOU.

11 SO NOW WE'RE GOING TO START THE REVIEW BY
12 THE APPLICATION REVIEW SUBCOMMITTEE. AND SO JUST A
13 COUPLE OF COMMENTS ABOUT THE REVIEW. AS ALWAYS, THE
14 DILIGENCE OF OUR REVIEWERS IS EXTRAORDINARY, AND THE
15 COMMITMENT OF THE TEAM TO MAKING A SUCCESSFUL REVIEW
16 WAS ALSO EXTRAORDINARY.

17 JUST PERSONALLY A COUPLE OF THINGS THAT I
18 NOTED THAT I FOUND A BIT INTERESTING IS WE HAD A
19 LARGER PERCENTAGE OF INDUSTRY REVIEWERS, WHICH MAKES
20 SENSE SINCE WE'RE LOOKING AT TOOLS. AND THE OTHER
21 THING THAT WAS NICE TO SEE IS THIS IS WHERE WE'RE
22 STARTING TO SEE SOME PATENTABLE INVENTIONS. SO
23 THERE WERE SOME APPLICATIONS THAT CAME THROUGH THAT
24 WERE CONTINUATIONS OF EARLIER PROJECTS WHERE PATENTS
25 HAVE BEEN OBTAINED. SO IT IS NICE THAT CIRM IS

BARRISTERS' REPORTING SERVICE

1 SUCCEEDING IN GETTING PATENTS AND PRODUCTS OUT INTO
2 THE MARKETPLACE THAT OTHER SCIENTISTS AND
3 RESEARCHERS ARE USING TO ADVANCE THE FIELD OF
4 REGENERATIVE MEDICINE.

5 SO I WILL GO INTO THE REVIEW NOW. AND
6 BASICALLY THE PROCESS WE'LL GO THROUGH IS I'LL TAKE
7 MOTIONS TO MOVE APPLICATIONS FROM TIER III TO TIER
8 I. AND THEN FOLLOWING THAT, I'LL TAKE MOTIONS TO
9 MOVE APPLICATIONS FROM TIER I TO TIER III. AND THEN
10 WE'LL GET THE TEAM'S RECOMMENDATIONS ON THE
11 APPLICATIONS IN TIER II, AND WE CAN DISCUSS THOSE
12 APPLICATIONS THAT KIND OF FELL BETWEEN NOT
13 RECOMMENDED FOR FUNDING AND RECOMMENDED FOR FUNDING.
14 SO THAT'S THE GENERAL PROCESS.

15 SO TO KICK IT OFF, AGAIN, WE'RE LOOKING AT
16 THE WHITE. IF YOU HAVE YOUR PAGE IN FRONT OF YOU IN
17 YOUR BOOKLET, THE APPLICATIONS IN WHITE THAT WERE
18 NOT RECOMMENDED FOR FUNDING, IS THERE A MOTION TO
19 MOVE ANY OF THOSE APPLICATIONS FROM TIER III TO TIER
20 I? AND TO REMIND, WE'LL ONLY END UP WITH TWO TIERS
21 AT THE END. THEY'LL EITHER BE TIER I, APPROVED FOR
22 FUNDING, OR TIER III, NOT APPROVED FOR FUNDING.

23 NOW, ARE THERE ANY MOTIONS TO MOVE ANY
24 APPLICATION FROM TIER I, WHICH IS THE TIER IN GREEN,
25 AND THOSE ARE THE RECOMMENDED FOR FUNDING, TO TIER

BARRISTERS' REPORTING SERVICE

1 III? OKAY. SEEING NONE, NOW COULD I PERHAPS GET
2 THE TEAM'S RECOMMENDATIONS CONCERNING APPLICATIONS
3 IN TIER II? I THINK THAT THEY HAVE LOOKED AT THEM,
4 AND THEY HAVE COME, AT LEAST ON A HANDFUL OF
5 THEM -- DO WE HAVE A RECOMMENDATION ON EVERY ONE OF
6 THEM THAT ARE STILL REMAINING OR JUST THOSE
7 THREE -- THERE'S 1, 2, 3, 4, 5, 6 LEFT. YOU GOT IT
8 FOR FOUR OF THE SIX AND THE OTHER TWO --

9 DR. COLLINS: SO WE ACTUALLY HAVE TWO
10 TODAY FOR THE REASON THAT GIL JUST HIGHLIGHTED. SO
11 IN REVIEWING THE APPLICATIONS, THE TEAM DID NOTICE A
12 CLUSTER OF TIER II APPLICATIONS WITH SCORES ON THE
13 BORDER OF THE FUNDING RANGE. THEY HAD SCORES
14 RANGING FROM 72 TO 74 WITH A MEDIAN SCORE OF 75.
15 THESE APPLICATIONS DID RECEIVE FUNDING
16 RECOMMENDATIONS FROM 9 OUT OF THE 15 GRANTS WORKING
17 GROUP REVIEWERS. AND THE RECOMMENDATIONS AND SCORES
18 ARE POSTED IN OUR MEMO, BUT I'D LIKE TO JUST PRESENT
19 THESE APPLICATIONS FOR YOUR CONSIDERATION.

20 AND TODAY WE WILL BE RECOMMENDING
21 SUPPORTING TWO OF THESE APPLICATIONS. AND I'D LIKE
22 TO NOTE THAT COMBINED WITH WHAT YOU JUST DISCUSSED
23 IN TIER I, THIS WOULD BRING US TO A TOTAL BUDGET OF
24 29.2 OF THE 35 MILLION THAT WAS APPROVED FOR THE
25 PROGRAM AT CONCEPT. AND IT WOULD PUT US AT AN

BARRISTERS' REPORTING SERVICE

1 OVERALL FUNDING LINE OF 9 PERCENT.

2 SO I'LL PROVIDE THE REASONS FOR THE TEAM
3 RECOMMENDATION, AND WE'RE ALSO HERE TO PROVIDE YOU
4 ANY ADDITIONAL INFORMATION ABOUT THE INDIVIDUAL
5 APPLICATIONS SHOULD THAT BE HELPFUL TO YOU IN YOUR
6 DECISION-MAKING.

7 SO I'M GOING TO START WITH NO. 7899,
8 ENTITLED "DEVELOPMENT OF 3D BIOPRINTING USING HUMAN
9 EMBRYONIC STEM CELL-DERIVED CARDIOMYOCYTES FOR
10 CARDIAC TISSUE ENGINEERING." THIS APPLICATION
11 ADDRESSES THAT ENGRAFTMENT BOTTLENECK. IT ACTUALLY
12 SEEKS TO ALSO GENERATE A FUNCTIONAL TISSUE FOR
13 TRANSPLANT. AND THE CORE REASON FOR THE
14 RECOMMENDATION IS THAT 3D PRINTING TECHNOLOGY, WE'VE
15 ALL HEARD ABOUT IT, IT'S ALREADY IMPACTED OTHER
16 FIELDS SUCH AS MANUFACTURING, AND ACTUALLY IN MAN IS
17 BEING USED IN DENTISTRY AND ACTUALLY HAS BEEN USED
18 TO PRINT A BRONCHIAL STENT THAT WAS ACTUALLY
19 TRANSPLANTED IN A CHILD. IT COULD BE POTENTIALLY
20 TRANSFORMATIVE IN REGENERATIVE MEDICINE, AND THE PI
21 IS A LEADER IN THE FIELD.

22 SO THOSE WERE THE REASONS FOR THE
23 RECOMMENDATION. AND IF YOU'D LIKE TO HEAR ANY MORE
24 ABOUT THE APPLICATION.

25 MR. SHEEHY: DR. COLLINS, MAYBE YOU CAN

BARRISTERS' REPORTING SERVICE

1 MAKE ALL THE CIRM TEAM RECOMMENDATIONS, AND THEN WE
2 CAN TAKE MOTIONS ON ANY OF THOSE RECOMMENDATIONS.

3 DR. COLLINS: ABSOLUTELY. SO I'D LIKE TO
4 MOVE TO THE NEXT RECOMMENDATION. THIS IS ARGUABLY
5 THE MOST DIRECTLY APPLICABLE TO OUR EXISTING
6 PORTFOLIO. IT'S ENTITLED "DEVELOPMENT OF A
7 SCALABLE, PRACTICAL, AND TRANSFERRABLE GMP COMPLIANT
8 SUSPENSION CULTURE-BASED DIFFERENTIATION PROCESS FOR
9 CARDIOMYOCYTE PRODUCTION FROM HUMAN EMBRYONIC STEM
10 CELLS," WHICH IS WHY THE TITLE IS ABBREVIATED THERE.

11 THIS APPLICATION, REALLY THE CORE REASON
12 THAT WE'RE RECOMMENDING THIS, IT ACTUALLY BUILDS
13 UPON PRIOR SUCCESS THAT WAS FUNDED UNDER TOOLS AND
14 TECHNOLOGY BY THE SAME PI. AND I SHOULD NOTE THAT,
15 IN ADDITION, THERE'S ALREADY DEMAND FOR THE CELLS
16 THAT WOULD BE GENERATED BY THIS PROCESS IN CIRM'S
17 EXISTING DEVELOPMENT AND TRANSLATIONAL PORTFOLIO.
18 AND THE APPLICATION DOES ADDRESS A KEY MANUFACTURING
19 BOTTLENECK.

20 AND THE THIRD APPLICATION IN THIS CLUSTER
21 I'D LIKE TO DISCUSS TODAY IS ENTITLED "AN IMAGING
22 TOOL COMBINING LIGHT AND ULTRASOUND METHODS THAT
23 WILL ENABLE IMAGING OF INTACT TISSUE-ENGINEERED
24 CONSTRUCTS." NOW, THE CIRM TEAM RECOMMENDATION FOR
25 THIS APPLICATION IS ACTUALLY DO NOT FUND. THERE IS

BARRISTERS' REPORTING SERVICE

1 A TIER I APPLICATION, NUMBER 7879, THAT RECEIVED A
2 HIGHER SCORE THAT INVOLVES FULLY OVERLAPPING
3 LEADERSHIP AND WILL DEVELOP THE SAME IMAGING
4 TECHNOLOGY. SO THAT'S THE REASON. IT'S JUST A
5 DIFFERENT TEST ARTICLE, BUT THE SAME TECHNOLOGY
6 WOULD BE CAPTURED IN OUR PORTFOLIO. SO THOSE ARE
7 THE THREE.

8 MR. SHEEHY: AT THIS POINT I WOULD LIKE TO
9 HAND THE CHAIR OVER TO DR. PRIETO BECAUSE I INTEND
10 TO MAKE A MOTION ON ONE OF THESE APPLICATIONS AND
11 MAKE AN ARGUMENT IN SUPPORT OF MY MOTION.

12 I'LL START WITH THAT. I WOULD LIKE TO
13 MOVE 7838, TO ACCEPT THE TEAM'S RECOMMENDATION AND
14 MOVE THAT TO TIER I. AND LARGELY, IT'S DUE TO THE
15 CONSIDERATIONS THAT THE TEAM HIGHLIGHTED, THAT THIS
16 PARTICULAR APPLICATION NOT ONLY BUILDS ON A PRIOR
17 AWARD, BUT ACTUALLY WILL CONTRIBUTE TO THE SUCCESS
18 OF A DISEASE TEAM THAT CIRM IS TRYING TO GET INTO
19 THE CLINIC. THAT WAS NOT ONE OF THE CONSIDERATIONS
20 BY WHICH THESE GRANTS WERE REVIEWED, BUT I THINK
21 THIS VERY EASILY COULD HAVE COME IN THROUGH OUR
22 ACCELERATED PATHWAY. AND WE PROBABLY WOULD HAVE
23 BEEN ASKED TO PAY TWICE AS MUCH FOR IT, GIVEN THE
24 BUDGETS THAT ARE COMING IN THERE, BUT I THINK THIS
25 IS A VERY EFFICIENT WAY NOT ONLY TO PROPEL ONE OF

BARRISTERS' REPORTING SERVICE

1 OUR KEY PROJECTS FORWARD, BUT I ALSO THINK -- IN THE
2 CARDIOVASCULAR SPACE, BUT I ALSO THINK BECAUSE IT
3 TAKES PLACE AT ONE OF THE KEY MANUFACTURING CENTERS
4 THAT CIRM DISEASE TEAMS AND OTHER LATE STAGE
5 CLINICAL PROJECTS ARE USING TO PRODUCE CELLS FOR
6 CLINICAL TRIALS. I THINK THAT THAT WILL BE AN
7 INVESTMENT THAT WILL PAY OFF ACROSS THE ENTIRETY --
8 A SUBSTANTIAL PORTION OF THE CIRM PORTFOLIO.

9 DR. PRIETO: CAN I HAVE A SECOND FOR THAT
10 MOTION?

11 DR. DULIEGE: I SECOND. SORRY. I CANNOT.

12 DR. PRIETO: A SECOND WHO'S NOT
13 CONFLICTED. WHO'S ELIGIBLE TO MAKE THAT MOTION?

14 MR. PANETTA: SECOND.

15 DR. PRIETO: HAVING A SECOND, ANY BOARD
16 QUESTIONS OR DISCUSSION ON THIS ITEM?

17 MS. WINOKUR: WERE THERE ANY OF THE
18 COMMENTS OF THE GRANTS WORKING GROUP THAT WOULD
19 ARGUE AGAINST THIS MOVING OF THE PROJECT?

20 DR. COLLINS: SO THE GRANTS WORKING GROUP
21 WAS LARGELY SUPPORTIVE OF THIS AWARD. THE ONLY
22 CRITICISM THAT I RECALL WAS THERE WAS -- SO THEY
23 FOUND THE POSITIVES WERE THAT THE APPLICATION
24 ADDRESSED A CRITICAL BOTTLENECK. THEY FOUND THE
25 EXPERIMENTS TO BE CAREFULLY DESIGNED WITH STRONG

BARRISTERS' REPORTING SERVICE

1 PRECLINICAL DATA AND A LOGICAL PLAN. THE ONLY
2 NEGATIVE COMMENT HAD TO DO WITH THEY WERE REALLY
3 PLANNING -- THEY HAD ALREADY DECIDED UPON THE
4 BIOREACTOR, THE VESSEL THAT THEY WERE GOING TO USE
5 FOR THE SCALE-UP, AND IT WAS RAISED THAT THEY MIGHT
6 CONSIDER OTHER BIOREACTOR SYSTEMS.

7 AT THE SAME TIME, THIS BIOREACTOR SYSTEM
8 WAS ONE THAT THE PI HAS EXPERTISE WITH AND HAS BEEN
9 HIGHLIGHTED ACTUALLY IN OUR MANUFACTURING WORKSHOP
10 AS A KEY SCALE-UP TECHNOLOGY.

11 MS. WINOKUR: SO THE NEGATIVE COMMENTS HAD
12 TO DO WITH PROGRAMMATIC, WHAT OUR PORTFOLIO --

13 DR. COLLINS: THE NEGATIVE, IT WAS REALLY
14 MORE OF A TECHNICAL COMMENT, HAD TO DO WITH
15 SELECTION OF THE TOOL THAT THEY WERE GOING TO USE.
16 AND I DON'T BELIEVE THAT THE MAJORITY OF THE WORKING
17 GROUP FELT THAT WAY, BUT I CAN'T READ MINDS. THAT'S
18 THE ONLY NEGATIVE COMMENT THAT STOOD OUT.

19 MS. WINOKUR: THANK YOU.

20 DR. PRIETO: SO ANY OTHER COMMENTS FROM
21 THE BOARD OR QUESTIONS PARTICULARLY REGARDING
22 PROGRAMMATIC ISSUES THAT MR. SHEEHY RAISED? IS IT
23 APPROPRIATE TO ASK FOR PUBLIC COMMENT, IF THERE'S
24 ANY MEMBERS OF THE PUBLIC?

25 DR. CHIU: MORNING. I'M ARLENE CHIU FROM

BARRISTERS' REPORTING SERVICE

1 THE CITY OF HOPE, AND I'D LIKE TO, IN HAVING GLANCED
2 THROUGH THIS PARTICULAR APPLICATION, I UNDERSTAND
3 THAT BIOREACTORS ARE THE MODE OF OPERATION OF MANY
4 COMPANIES NOW. THEIR LARGE INFRASTRUCTURE IS
5 EXPENSIVE. AND MY UNDERSTANDING, IN READING THIS
6 REVIEW, IS THAT THEY'RE PROPOSING A NEW TECHNOLOGY
7 OF USING BAGS WHICH WOULD BE MUCH MORE EFFICIENT,
8 MUCH CHEAPER, BUT NOBODY IS FUNDING INVESTIGATION
9 INTO THIS METHODOLOGY. AND SINCE THIS GROUP HAS HAD
10 GOOD EXPERIENCE WITH BIOREACTORS, IF THIS SHOULD
11 WORK, IT WOULD BE A GREAT BOON TO NOT ONLY EXPANDING
12 CARDIOMYOCYTES, BUT ANY OTHER PRODUCT COMING FROM
13 HUMAN EMBRYONIC STEM CELLS. THANK YOU.

14 DR. PRIETO: THANK YOU, DR. CHIU. ANY
15 OTHER COMMENTS OR QUESTIONS?

16 DR. LEACH: I JUST WANTED TO OFFER A
17 COMMENT ON A SEPARATE -- ACTUALLY ON THIS GRANT
18 THAT'S UP ON THE SCREEN NOW. IS THAT -- SHOULD I
19 OFFER THAT NOW OR THE 7981, I BELIEVE. IS PUBLIC
20 COMMENT ONLY FOR 7838 AT THIS TIME?

21 DR. PRIETO: AT THIS TIME, YES. ANY OTHER
22 COMMENTS OR QUESTIONS? YOU WANT TO CALL THE
23 QUESTION.

24 MS. BONNEVILLE: DAVID HIGGINS.

25 DR. HIGGINS: YES.

BARRISTERS' REPORTING SERVICE

1 MS. BONNEVILLE: STEVE JUELSGAARD.
2 MR. JUELSGAARD: YES.
3 MS. BONNEVILLE: SHERRY LANSING. KATHY
4 LAPORTE.
5 DR. LAPORTE: YES.
6 MS. BONNEVILLE: LAUREN MILLER.
7 MS. MILLER: YES.
8 MS. BONNEVILLE: JOE PANETTA.
9 MR. PANETTA: YES.
10 MS. BONNEVILLE: FRANCISCO PRIETO.
11 DR. PRIETO: AYE.
12 MS. BONNEVILLE: ROBERT QUINT.
13 DR. QUINT: YES.
14 MS. BONNEVILLE: AL ROWLETT.
15 MR. ROWLETT: YES.
16 MS. BONNEVILLE: JEFF SHEEHY.
17 MR. SHEEHY: YES.
18 MS. BONNEVILLE: OS STEWARD. JONATHAN
19 THOMAS.
20 CHAIRMAN THOMAS: YES.
21 MS. BONNEVILLE: ART TORRES.
22 MR. TORRES: AYE.
23 MS. BONNEVILLE: DIANE WINOKUR.
24 MS. WINOKUR: AYE.
25 MR. HARRISON: THE MOTION CARRIES.

BARRISTERS' REPORTING SERVICE

1 DR. PRIETO: IS THERE ANY OTHER MOTION TO
2 MOVE AN APPLICATION FROM TIER II INTO TIER I?

3 MR. SHEEHY: I WOULD MOVE TO -- I WOULD
4 SUPPORT THE TEAM'S RECOMMENDATION ON 7899. SO I
5 WOULD MAKE A MOTION TO MOVE THAT INTO TIER I.

6 DR. PRIETO: SECOND?

7 MR. HIGGINS: SECOND.

8 DR. PRIETO: QUESTIONS OR DISCUSSION FROM
9 THE BOARD?

10 MS. WINOKUR: I WOULD ASK THE SAME
11 QUESTION ABOUT THIS ONE.

12 DR. COLLINS: SO THIS ONE, THE GRANTS
13 WORKING GROUP REVIEWERS FOUND THE POSITIVES WERE THE
14 TEAM -- THIS TEAM HAS QUITE A BIT OF EXPERTISE IN
15 THE TECHNOLOGY, AND THEY PROVIDED IMPRESSIVE
16 PRELIMINARY DATA FOR THE ABILITY TO PERFORM THE
17 BIOPRINTING OF BOTH THE CARDIOMYOCYTES AS WELL AS 3D
18 PRINTING OF VESSEL FORMATIONS. AND SO THE CONSTRUCT
19 THAT THEY WANT TO MAKE IS A VASCULARIZED
20 CARDIOMYOCYTE GRAFT FOR HEART DISEASE. SO THEY
21 SHOWED SOME SOLID PRELIMINARY DATA THAT THEY COULD
22 ACHIEVE THIS.

23 AND THERE WERE SOME RISKY TECHNICAL
24 ELEMENTS NOTED. ONE REVIEWER WOULD HAVE LIKED FOR
25 THEM TO CONSIDER MORE THAN ONE SCAFFOLD. THAT'S

BARRISTERS' REPORTING SERVICE

1 KIND OF THE GLUE THAT THEY'RE PUTTING IN WITH THE
2 CELLS WHEN THEY PRINT. THEY ALSO NOTICED THAT THE
3 APPLICATION WOULD BENEFIT FROM SOME FOCUS. THERE
4 WERE SOME EXPERIMENTS IN THE LAST AIM THAT THEY
5 FOUND TO BE A BIT OF A DISTRACTION, BUT THEY DID
6 FEEL LIKE ON THE WHOLE IT WAS A GOOD APPLICATION AND
7 THE BENEFITS OUTWEIGHED THOSE DISTRACTIONS.

8 AND THEY ALSO NOTED THAT IN VIVO PROOF OF
9 PRINCIPLE HAS YET TO BE ACHIEVED, BUT THIS IS
10 PLANNED TO BE PERFORMED IN THE AWARD AND THEY DID
11 PROVIDE SOME IN VITRO PROOF OF PRINCIPLE. SO THOSE
12 ARE THE CORE COMMENTS.

13 DR. PRIETO: ANY OTHER BOARD QUESTIONS OR
14 COMMENTS? COMMENTS FROM THE PUBLIC?

15 DR. MELMED: I'M SENSITIVE TO THE MOTION,
16 AND I JUST HAVE ONE CONCERN. THAT'S ABOUT EQUITY.
17 BASICALLY ON ONE POINT FOR 678, WE'RE DENYING \$1.3
18 MILLION, AND WE'RE MOVING DOWN -- AND WE'RE SKIPPING
19 THAT AND MOVING ON -- GOT PULLED. CANCEL THAT.

20 DR. PRIETO: I'D ALSO POINT OUT THAT THESE
21 ARE ESSENTIALLY IDENTICAL SCORES.

22 MR. SHEEHY: I THINK ONE OF THE THINGS
23 THAT WAS A CONSIDERATION BY THE CIRM TEAM IN
24 ADVANCING IT IS THAT A MAJORITY, 9 OUT OF THE 15
25 REVIEWERS, HAD ACTUALLY PLACED THIS APPLICATION IN

BARRISTERS' REPORTING SERVICE

1 TIER I. SO BOTH OF THE RECOMMENDATIONS TO MOVE INTO
2 TIER I WERE BASED ON THE FACT THAT THE MAJORITY OF
3 THE REVIEWERS HAD ACTUALLY THOUGHT THAT THIS WAS A
4 MERITORIOUS APPLICATION.

5 DR. PRIETO: PUBLIC COMMENT OR QUESTIONS
6 ON THIS APPLICATION? OKAY. IF NONE, SHALL WE CALL
7 THE ROLL?

8 MS. BONNEVILLE: ANNE-MARIE DULIEGE.

9 DR. DULIEGE: YES.

10 MS. BONNEVILLE: DAVID HIGGINS.

11 DR. HIGGINS: YES.

12 MS. BONNEVILLE: STEVE JUELSGAARD.

13 MR. JUELSGAARD: YES.

14 MS. BONNEVILLE: SHERRY LANSING. KATHY
15 LAPORTE.

16 DR. LAPORTE: YES.

17 MS. BONNEVILLE: LAUREN MILLER.

18 MS. MILLER: YES.

19 MS. BONNEVILLE: JOE PANETTA.

20 MR. PANETTA: YES.

21 MS. BONNEVILLE: FRANCISCO PRIETO.

22 DR. PRIETO: AYE.

23 MS. BONNEVILLE: ROBERT QUINT.

24 DR. QUINT: YES.

25 MS. BONNEVILLE: AL ROWLETT.

BARRISTERS' REPORTING SERVICE

1 MR. ROWLETT: YES.

2 MS. BONNEVILLE: JEFF SHEEHY.

3 MR. SHEEHY: YES.

4 MS. BONNEVILLE: OS STEWARD. JONATHAN
5 THOMAS.

6 CHAIRMAN THOMAS: YES.

7 MS. BONNEVILLE: ART TORRES.

8 MR. TORRES: AYE.

9 MS. BONNEVILLE: DIANE WINOKUR.

10 MS. WINOKUR: YES.

11 MR. SHEEHY: SO I THINK, DR. PRIETO, I
12 NEED TO TAKE BACK THE CHAIR. I THINK YOU MAY BE IN
13 CONFLICT ON THE OTHER CIRM TEAM RECOMMENDATION.

14 DR. PRIETO: I AM.

15 MR. SHEEHY: SO I WILL ACCEPT A MOTION TO
16 EITHER ACCEPT OR NOT ACCEPT THE TEAM
17 RECOMMENDATIONS, SO THAT'S EITHER TO ADVANCE IT INTO
18 TIER I OR TO SEND IT TO TIER III. THIS IS -- I'M
19 SORRY -- 7981. MR. JUELSGAARD.

20 DR. JUELSGAARD: I'LL MOVE THAT WE MOVE
21 7981 INTO TIER I.

22 MR. SHEEHY: TIER I. DO I HAVE A SECOND?

23 MR. TORRES: SECOND.

24 MR. SHEEHY: DR. MILLS.

25 MR. HARRISON: I'M SORRY. COULD YOU

BARRISTERS' REPORTING SERVICE

1 PLEASE REPEAT THE MOTION FOR US?

2 DR. JUELSGAARD: YES. I'M MOVING TO MOVE
3 7981 FROM TIER II INTO TIER I. THIS IS THE ONE THAT
4 THE STAFF RECOMMENDED NOT TO FUND.

5 MR. HARRISON: THANK YOU. APPRECIATE IT.

6 MR. SHEEHY: AND WE HAVE A SECOND FROM
7 SENATOR TORRES. YOU KNOW, IT WOULD BE HELPFUL FOR
8 ME, UNLESS THERE'S SOME DISCUSSION, I WOULD ACTUALLY
9 LIKE TO HEAR FROM THE APPLICANT WHO, I THINK, WAS
10 PLANNING ON SPEAKING ABOUT THIS BECAUSE I'M A BIT
11 CONFUSED BY THIS ONE MYSELF. SEEMED LIKE VERY
12 IMPORTANT, EXCITING TECHNOLOGY. IT SEEMED LIKE THAT
13 IT'S BEING DEVELOPED FOR TWO SEPARATE INDICATIONS.
14 THAT'S JUST MY READ ON THAT. AND SO I WOULD LOVE TO
15 SEE THE TECHNOLOGY USED IN TWO SEPARATE INDICATIONS.

16 I DON'T KNOW. IT'S HARD FOR ME TO
17 UNDERSTAND HOW WE WOULD PAY ROUGHLY THE SAME AMOUNT
18 TO DO IT TWICE, SO THAT'S WHERE I'M A LITTLE OFF.
19 IF YOU HAVE A COMMENT.

20 DR. JUELSGAARD: I THINK, AS A MATTER OF
21 ORDER, JEFF, FROM MY POINT OF VIEW, IT WOULD BE
22 BETTER FIRST TO HEAR THE STAFF'S RECOMMENDATION AS
23 TO NOT TO FUND. SO WHAT'S THEIR RATIONALE? BECAUSE
24 THAT THEN GIVES THE APPLICANT A CHANCE TO RESPOND TO
25 THOSE COMMENTS AS WELL AS DESCRIBE MORE GENERALLY

BARRISTERS' REPORTING SERVICE

1 THIS TECHNOLOGY AND THE VALUE IN IT.

2 MR. SHEEHY: THAT SOUNDS GREAT.

3 DR. COLLINS.

4 DR. COLLINS: I CAN DESCRIBE TO YOU THE
5 KEY REASON. IT'S NOT THAT WE DON'T FEEL THAT IT'S A
6 VALUABLE TECHNOLOGY. IT'S PREDOMINANTLY BECAUSE
7 THERE'S JUST SO MUCH OVERLAP. THEY WOULD BE
8 DEVELOPING THE SAME IMAGING TOOL, BUT AROUND A
9 DIFFERENT TEST ARTICLE. AND IT WAS THE TEAM'S
10 FEELING THAT WE WOULD CAPTURE THE TOOL WITH THE
11 FUNDED TIER I APPLICATION AND THAT WE WOULD ALSO BE
12 FUNDING THE SAME PI. SO IF WE FUNDED BOTH OF THEM,
13 IT WOULD BE A CONSIDERABLE OVERLAP.

14 NOW, AS FAR AS THE TECHNOLOGY, A
15 NONINVASIVE IMAGING TOOL WOULD ENABLE ASSESSMENT OF
16 THESE INTACT TISSUE-ENGINEERED CONSTRUCTS WHICH IS
17 DIFFICULT TO DO. AND IF SUCCESSFUL, THE TECHNOLOGY
18 COULD BE ACCELERATING. IT WAS JUST PREDOMINANTLY
19 THOSE REASONS FOR FUNDING THE SAME FOLKS TWICE.

20 MR. SHEEHY: SO IF THE MEMBERS OF THE
21 COMMITTEE ARE COMFORTABLE, PERHAPS WE COULD HEAR
22 FROM THE APPLICANT. I THINK THAT SEEMS LIKE A
23 SUBSTANTIAL ISSUE AND REASONABLE.

24 COULD YOU PLEASE TELL US WHO YOU ARE AND
25 WHERE YOU ARE FROM AND ALL THOSE GOOD THINGS?

BARRISTERS' REPORTING SERVICE

1 DR. LEACH: YES. MY NAME IS KENT LEACH.
2 I'M A PROFESSOR OF BIOMEDICAL ENGINEERING IN
3 ORTHOPEDIC SURGERY AT UNIVERSITY OF CALIFORNIA AT
4 DAVIS. I AM THE PI OF THIS PROPOSAL, 7981, WHICH
5 SEEKS TO ACHIEVE THE GOAL PUT FORTH BY THIS
6 COMMITTEE AND DISCUSSED MOMENTARILY AGO, WHICH IS
7 BRINGING TOGETHER TISSUE ENGINEERS, IMAGING
8 SPECIALISTS, AND STEM CELL BIOLOGISTS.

9 AND I WOULD EMPHASIZE THAT I'M NOT PRIVY
10 TO THE DETAILS OF MY CO-PI'S OTHER PROPOSAL. WE
11 DIDN'T WORK ON THAT TOGETHER. BUT I CAN CERTAINLY
12 EMPHASIZE THAT THIS PARTICULAR PROPOSAL TRULY IS THE
13 UNION OF THOSE THREE FIELDS.

14 THE PURPOSE OF THIS PROPOSAL IS TO DEVELOP
15 A NONINVASIVE IMAGING MODALITY TO ASSESS THE
16 MATURATION OF ENGINEERED BONE AND CARTILAGE FOR THE
17 REPLACEMENT OF LOST TISSUES FOLLOWING TRAUMA,
18 SURGERY, AND AGE. THERE ARE NO OTHER PROPOSALS IN
19 CONSIDERATION TODAY THAT SEEK TO USE STEM CELLS FOR
20 THE DEVELOPMENT OF A TOOL IN MUSCULOSKELETAL TISSUE
21 ENGINEERING, WHICH WE KNOW HAS AN ENORMOUS IMPACT ON
22 THE SOCIOECONOMIC QUALITY OF LIFE IN THE STATE OF
23 CALIFORNIA FOR OUR AGING POPULATION.

24 NOW, FOR THIS PARTICULAR PROPOSAL, I AM
25 THE PI. DR. MARCU AS CO-PI BRINGS THE IMAGING

BARRISTERS' REPORTING SERVICE

1 EXPERTISE, BUT I HAVE TO EMPHASIZE THAT THE
2 APPLICATION OF THIS TECHNOLOGY TOWARD
3 MUSCULOSKELETAL TISSUES IS VASTLY DIFFERENT. AND
4 THE CHALLENGES INHERENT IN APPLYING IT TO
5 MUSCULOSKELETAL TISSUES IS VERY DIFFERENT.

6 THE STRUGGLES AND THE BOTTLENECK THAT WE
7 SEE WITH STEM CELL VARIABILITY TO GENERATE THESE
8 TISSUES IS ENORMOUS. AND WITHOUT TAKING SEGMENTS OF
9 THESE TISSUES, WE REALLY CAN'T TELL HOW MATURE THESE
10 TISSUES ARE AND READY FOR IMPLANTATION.

11 IF YOU FUND THIS PROPOSAL TODAY, NOT ONLY
12 WILL IT BENEFIT THE DEVELOPMENT OF THIS TECHNOLOGY,
13 WHICH HAS ENORMOUS POTENTIAL, BUT IT WILL PROMOTE
14 THE SUCCESS OF PREVIOUS CIRM-FUNDED APPLICATIONS IN
15 THE PORTFOLIO AS WELL AS NUMEROUS BIOTECHNOLOGY
16 COMPANIES IN OUR STATE. AND THAT ALLOWS CIRM TO LAY
17 CLAIM TO A BIGGER IMPACT FOR ITS INVESTMENT.

18 SPECIFICALLY FOR THIS PROPOSAL, I HAVE TO
19 SPEAK TO A COUPLE OF PRACTICAL MATTERS. THE
20 APPLICATION OF AN IMAGING MODALITY TO CARDIOVASCULAR
21 DISEASE IS VASTLY IMPORTANT, BUT THERE'S NO REASON
22 TO THINK THAT JUST BECAUSE IT WORKS IN
23 CARDIOVASCULAR DISEASE THAT IT WOULD WORK FOR
24 MUSCULOSKELETAL TISSUES. IT'S A VERY DIFFERENT
25 MATRIX, A VERY DIFFERENT COMBINATION OF CELLS, AND

BARRISTERS' REPORTING SERVICE

1 VERY DIFFERENT FLOW ENVIRONMENT IN THESE ISSUES.

2 THIS PROPOSAL, AS WE HEARD FROM MR. SHEEHY
3 ABOUT THE PREVIOUS PROPOSAL, WAS ALSO RANKED
4 MERITORIOUS BY 9 OF 15 REVIEWERS ON THE GRANTS
5 WORKING GROUP. AND AS WE HEARD FROM THE CHAIR'S
6 REPORT WHICH WAS SO WELL DONE THIS MORNING, THERE'S
7 MONEY ON THE TABLE TO FUND THIS PROPOSAL, NOT ONLY
8 IN THE RFA, BUT IN CIRM.

9 SO JUST REAL QUICKLY, I'LL CLOSE BY SAYING
10 A COUPLE OF YEARS AGO I HAD THE OPPORTUNITY TO
11 ADDRESS THIS BODY IN SACRAMENTO FOR A CIRM SPOTLIGHT
12 ON DISEASE FOR BONE REPAIR. AT THE END OF THE TALK,
13 ONE OF THE MEMBERS ASKED WHAT PORTION OF THE WORK
14 WAS FUNDED BY CIRM. AND AT THE TIME IT WAS NONE.
15 AND SHE SAID, "WE'VE GOT TO CHANGE THAT." SO I'M
16 ASKING YOU TODAY. LET'S CHANGE IT.

17 MR. SHEEHY: THANK YOU. DO YOU HAVE A
18 QUESTION?

19 MR. PANETTA: THANK YOU FOR THE
20 CLARIFICATION. MY QUESTION, FIRST OF ALL, I THINK
21 I'M A LITTLE UNCLEAR ABOUT THE OTHER APPLICATION.
22 AM I TO UNDERSTAND THAT THAT'S ALSO A UC DAVIS
23 APPLICATION BY ANOTHER PI AT UC DAVIS?

24 DR. LEACH: YES, IT IS.

25 MR. PANETTA: SO JUST I'M JUST CURIOUS.

BARRISTERS' REPORTING SERVICE

1 WOULDNT IT HAVE MADE SENSE TO COMBINE THESE TWO
2 TECHNOLOGIES INTO ONE APPLICATION AND THEN TO LOOK
3 AT THE APPLICATION OF THE TECHNOLOGY IN
4 CARDIOVASCULAR TISSUE AND MUSCULOSKELETAL TISSUE IN
5 THE SAME, OR DOES THAT NOT MAKE SENSE?

6 DR. LEACH: I CANT SPEAK AT LENGTH ABOUT
7 HER APPLICATION. I WILL SAY THAT THE RESEARCH TEAM
8 FOR THIS APPLICATION, MYSELF AS PI, SHE AS CO-PI,
9 AND KYRIACOS ATHANASIOU, WHO'S A CIRM-FUNDED
10 INVESTIGATOR IN CARTILAGE TISSUE ENGINEERING, THIS
11 TEAM HAS BEEN WORKING TOGETHER FOR FOUR YEARS ON
12 THIS TYPE OF PROJECT, DIFFERENT ELEMENTS OF THIS
13 PROJECT. AND WE ARE AT THE POINT WHERE WE'VE SHOWN
14 EFFICACY FOR INDIVIDUAL COMPONENTS OF THIS MODALITY.
15 BUT IN ORDER TO TAKE IT TO THE NEXT LEVEL TO MAKE IT
16 TRANSLATIONAL AND TRANSFORMATIVE AND ECONOMICALLY
17 IMPACTFUL FOR THE STATE, WE NEED FURTHER INVESTMENT
18 TO BRING THESE TECHNOLOGIES TOGETHER AND INVESTIGATE
19 IT IN LARGE ANIMAL MODELS.

20 NOW, I KNOW THAT DR. MARCU IS VERY EAGER,
21 AS MANY SCIENTISTS ARE, TO TEST THE TECHNOLOGY IN
22 EVERY REALM THAT IT CAN BE BECAUSE IT FURTHER
23 VALIDATES THE IMPORTANCE AND THE RELIABILITY AND THE
24 MAGNITUDE OF THAT TECHNOLOGY. AND SHE WORKS CLOSELY
25 WITH A NUMBER OF INVESTIGATORS IN THE SCHOOL OF

BARRISTERS' REPORTING SERVICE

1 MEDICINE AND VETERINARY MEDICINE. AND SHE'S A
2 HIGHLY COLLABORATIVE INDIVIDUAL. SO IT SORT OF
3 MAKES SENSE, AT LEAST AS SOMEBODY WHO WRITES A LOT
4 OF GRANTS AND REVIEWS GRANTS, THAT YOU'RE ALWAYS
5 LOOKING FOR OPPORTUNITIES TO FOLD IN YOUR TECHNOLOGY
6 IN OTHER APPLICATIONS.

7 MR. PANETTA: IF WE WERE TO GRANT THIS
8 APPLICATION, THEN YOU'RE SAYING THAT THERE IS THE
9 POTENTIAL FOR YOU TO COLLABORATE IN TERMS OF THE
10 RESULTS IN BOTH EXPERIMENTS DOWN THE ROAD?

11 DR. LEACH: ABSOLUTELY. I THINK -- SO THE
12 INVESTMENT IN JUST THE CARDIOVASCULAR SIDE DOES NOT
13 GUARANTEE SUCCESS WHEN APPLIED TOWARD
14 MUSCULOSKELETAL, BUT I DO BELIEVE THAT THE KNOWLEDGE
15 GAINED FROM EACH AREA COULD BE VASTLY BENEFICIAL TO
16 RAPIDLY ADVANCE THE TOOL INTO USE, WHICH IS WHAT WE
17 ALL WANT TO SEE.

18 MR. SHEEHY: MR. JUELSGAARD.

19 DR. JUELSGAARD: SO A LITTLE DIFFERENT
20 QUESTION, A SERIAL QUESTION. SO THE STUDY IN THE
21 CARDIOVASCULAR SYSTEM, LET'S SAY THAT IT GETS
22 COMPLETED. WOULD THAT INFORM YOU ON A STUDY OF THE
23 MUSCULOSKELETAL SYSTEM THAT WOULD BE A BETTER
24 DESIGNED STUDY, AVOIDING THINGS THAT APPEAR NOT TO
25 WORK AND BEING POINTED IN THE DIRECTION OF THINGS

BARRISTERS' REPORTING SERVICE

1 THAT APPEAR MORE LIKELY TO WORK BY USING THE
2 CARDIOVASCULAR DATA TO PROVIDE A NEW APPLICATION?

3 DR. LEACH: WHEN YOU SAY TO PROVIDE A NEW
4 APPLICATION, HOW DO YOU MEAN?

5 DR. JUELSGAARD: LET'S JUST SAY THAT WE
6 DENY YOUR APPLICATION TODAY, BUT WE APPROVE THE
7 CARDIOVASCULAR ONE. MY QUESTION TO YOU IS WHEN THAT
8 STUDY IS FINISHED, WOULD THE RESULTS OF THAT STUDY
9 INFORM YOU SIGNIFICANTLY IN TERMS OF A POTENTIAL NEW
10 APPLICATION DOWN THE ROAD FOR THE AREA YOU'D LIKE TO
11 STUDY? WILL THERE BE BENEFITS COMING FROM THIS?
12 THE QUESTION, AND THIS IS ALWAYS THE QUESTION WHEN
13 YOU'RE LOOKING AT TECHNOLOGIES THAT ARE NEARLY
14 IDENTICAL, BUT APPLYING THEM IN DIFFERENT AREAS, IS
15 DO YOU DO THEM AT THE SAME TIME OR DO YOU DO THEM
16 STEPWISE? AND MY QUESTION IS MORE ISN'T THIS BETTER
17 OFF BEING DONE IN A STEPWISE FASHION BECAUSE YOU'LL
18 LEARN A LOT FROM THE CARDIOVASCULAR SIDE TO INFORM
19 THE MUSCULOSKELETAL SIDE?

20 DR. LEACH: I THINK THE BASE TECHNOLOGY,
21 TO BE SUCCESSFUL IN EITHER APPLICATION, WHETHER
22 CARDIOVASCULAR OR MUSCULOSKELETAL, IS LARGELY SET.
23 THE CHALLENGE IS, AND THIS IS ONLY READING THE
24 ABSTRACT OF DR. MARCU'S TIER I PROPOSAL, IN WHICH
25 SHE'S TRYING TO UNDERSTAND HOW CIRCULATING STEM

BARRISTERS' REPORTING SERVICE

1 CELLS WOULD REMODEL A VASCULAR GRAFT. THIS IMAGING
2 TECHNOLOGY IS TRULY VALUABLE TO UNDERSTAND
3 REMODELING AT A LEVEL BEFORE TRADITIONAL IMAGING
4 TECHNOLOGIES CAN DETECT, BEFORE X RAY, BEFORE
5 DOPPLER FLOW, BEFORE CT, BEFORE EVEN PET. THIS
6 TECHNOLOGY IS USEFUL BECAUSE IT DETECTS CHANGES IN
7 EXTRACELLULAR MATRIX CONTENT PRODUCED BY RESIDENT
8 CELLS.

9 WHERE I THINK WE RUN INTO PROBLEMS AND WHY
10 THIS IS SO BENEFICIAL TO FUND IN PARALLEL IS THE
11 POPULATION OF CELLS IN EACH SITE IS COMPLETELY
12 DIFFERENT. THEREFORE, THE EXTRACELLULAR MATRIX IS
13 COMPLETELY DIFFERENT, AND THE TOOLS REQUIRED TO
14 DETECT THOSE INDIVIDUAL COMPONENTS VARIES
15 SIGNIFICANTLY. WHILE THERE ARE ELEMENTS THAT COULD
16 BE INFORMATIVE, FOR EXAMPLE, THE PRESENCE OF
17 HEMOGLOBIN, CAN BE A CONFOUNDING PARAMETER IN
18 OPTICAL IMAGING, AND OBVIOUSLY THERE'S PLENTY OF
19 HEMOGLOBIN IN THE CARDIOVASCULAR SYSTEM, THAT COULD
20 BE INFORMATIVE TO HELP IN MEASURING THE REMODELING
21 OF BONE TISSUE IN VIVO, BUT I DON'T SEE THAT AS AN
22 INSURMOUNTABLE HURDLE IN OUR PROPOSAL.

23 I THINK THAT WORKING IN PARALLEL IN THESE
24 TWO FORMS WILL ALLOW US TO DISCOVER NEW APPROACHES
25 TO TREAT THE DEVELOPMENT OF CANCER AND THE TREATMENT

BARRISTERS' REPORTING SERVICE

1 OF CANCER IN MUSCULOSKELETAL TISSUES, HOW WELL
2 TISSUES REMODEL AND HOLD UP UPON IMPLANTATION, AS
3 WELL AS PERHAPS THE DETECTION OF VULNERABLE PLAQUES
4 IN CARDIOVASCULAR DISEASE. I CAN SEE THESE PROJECTS
5 EXPANDING AND BLOSSOMING BECAUSE CIRM CHOOSES TO
6 INVEST IN THEM SIMULTANEOUSLY.

7 DR. JUELSGAARD: SO I WOULD ASK THE STAFF
8 IS THERE A COUNTERPOINT TO THE ARGUMENT THAT WAS
9 JUST MADE?

10 DR. MILLS: SO I THINK IT'S IMPORTANT TO
11 UNDERSTAND A COUPLE THINGS. ONE, THIS IS ALMOST
12 EXCLUSIVELY A PROGRAMMATIC DECISION AND DOESN'T
13 SPEAK TO THE QUALITY OF DR. LEACH'S APPLICATION. SO
14 HIS AVERAGE SCORE OF THIS WAS A 72. NINE OF THE GWG
15 MEMBERS SCORED IT WITH A SCORE THAT WOULD INDICATE
16 TO FUND. SO A MAJORITY VOTED TO FUND.

17 I ALSO WANT TO JUST MAKE A POINT, THAT
18 GENERALLY 75 OR ABOVE IS OUR CRITERIA FOR WHEN
19 SOMETHING REACHES AN AVERAGE SCORE THAT'S APPROVABLE
20 BY THE BOARD. FOR THIS RFA THERE WERE ABOUT 212
21 APPLICATIONS RECEIVED. SO THIS LINE THAT WE'VE
22 DRAWN HERE WOULD PUT IT IN THE TOP 10 PERCENT OF
23 APPLICATIONS RECEIVED. SO WE WOULD ONLY HAVE ABOUT
24 9 PERCENT.

25 SO OUR COMMENTS HERE AREN'T TO THE QUALITY

BARRISTERS' REPORTING SERVICE

1 OF THE PROPOSAL THAT DR. LEACH HAS SUBMITTED TO
2 CIRM. THEY INSTEAD GO TO A PROGRAMMATIC ISSUE OF
3 HOW MUCH OF THIS DO WE WANT WITHIN THE CIRM
4 PORTFOLIO. AND SO THAT'S REALLY -- THAT'S WHERE OUR
5 RECOMMENDATION COMES FROM.

6 MR. SHEEHY: SO I WONDER IF A FRIENDLY
7 AMENDMENT MIGHT BE IN ORDER.

8 DR. JUELSGAARD: COULD I JUST ASK ONE MORE
9 QUESTION? DO WE HAVE ANY PRECLINICAL OR CLINICAL
10 STUDIES USING REGENERATIVE MEDICINE TECHNOLOGY IN
11 MUSCULOSKELETAL DISEASES AT THIS POINT?

12 DR. MILLS: DO WE HAVE TECHNOLOGIES IN
13 MUSCULOSKELETAL?

14 DR. JUELSGAARD: PRECLINICAL OR CLINICAL
15 STUDIES IN THE MUSCULOSKELETAL AREA?

16 DR. MILLS: ABSOLUTELY.

17 MR. JUELSGAARD: THANK YOU.

18 MR. SHEEHY: SO PERHAPS ONE WAY --
19 MR. HIGGINS.

20 MR. HIGGINS: CAN I ASK ONE LAST QUESTION
21 OF THE STAFF? IS THERE A FORM OF THIS GRANT OR A
22 COMBINATION OF THIS GRANT IN THE TIER I GRANT THAT
23 WOULD BE ACCEPTABLE THAT YOU WOULD PROPOSE THIS GET
24 MODIFIED INTO BUDGETWISE OR --

25 DR. MILLS: IT'S NOT REALLY AN OPTION

BARRISTERS' REPORTING SERVICE

1 UNDER THIS STRUCTURE. SO I'M NOT SURE. I JUST WANT
2 TO JUST REITERATE THE ISSUE ISN'T A FLAW OF THE
3 GRANT AS MUCH AS IT'S OVERLAPPING.

4 MR. SHEEHY: I WAS KIND OF THINKING ALONG
5 THOSE LINES, SO I HATE TO HAVE YOU JUMPING UP AND
6 DOWN, DR. MILLS. THE FRIENDLY AMENDMENT I WAS GOING
7 TO SUGGEST TO THE MAKER AND THE SECOND WAS THAT THE
8 CIRM TEAM LOOK AT OVERLAP, REDUNDANCIES, AND
9 SYNERGIES ACROSS THE TWO APPLICATIONS AND IDENTIFY
10 ANY SAVINGS THAT MIGHT BE APPROPRIATE. WOULD THAT
11 BE ONE WAY? WOULD YOU BE COMFORTABLE WITH THAT, DR.
12 MILLS?

13 DR. MILLS: SO JUST SO I'M CLEAR, IT WOULD
14 BE -- THERE WOULD BE A MOTION TO FUND, BUT A
15 MODIFIED FORM OF IT THAT WOULD CARVE OUT GIVING
16 PRECEDENT TO THE TIER I AWARD BEFORE IT?

17 MR. SHEEHY: I WOULD ACTUALLY LOOK AT BOTH
18 AWARDS, IN MY VIEW. I'D TAKE OTHER COMMENTS FROM
19 OTHER MEMBERS. LOOK AT BOTH AWARDS AND SEE IF YOU
20 CAN IDENTIFY OVERLAPS AND REDUNDANCIES SINCE WE'RE
21 FUNDING BASICALLY THE SAME --

22 DR. MILLS: THE ONLY THING I WOULD SAY IS
23 SPEAKING ON BEHALF OF THE OTHER PI, WHO'S NOT HERE,
24 WHOSE GRANT IS BEING CUT AND WHO HAD A REALLY,
25 REALLY GREAT SCORE, I DON'T KNOW HOW FAIR THAT WOULD

BARRISTERS' REPORTING SERVICE

1 BE TO DR. MARCU.

2 MR. SHEEHY: I'LL WITHDRAW THAT AMENDMENT.

3 DR. MILLS: WE COULD DEFINITELY, THOUGH,
4 DO BASICALLY WHAT THAT GRANT DIDN'T COVER AND THIS
5 GRANT PICKED UP CONTRACT NEGOTIATION TO MODIFY THIS
6 GRANT TO PERFORM THOSE ACTIVITIES THAT WEREN'T
7 OVERLAPPING. BUT I WOULD SUGGEST THAT THAT SHOULD
8 GIVE PRIORITY TO THE HIGHER SCORING GRANT.

9 DR. DULIEGE: CAN THIS BE TURNED INTO SOME
10 FORM OF A MOTION WHERE WE WOULD MOTION THAT CIRM
11 STAFF CONTINUES TO WORK WITH THE PI TO EVALUATE WHAT
12 IS NOT OVERLAPPING. AND PENDING THAT, THAT THIS
13 WOULD BE MOVED TO TIER I, OR WOULD THAT HAVE TO COME
14 BACK TO US AFTER THAT? I DON'T NEED TO SEE IT
15 AGAIN. IT'S ENOUGH FOR ME TO KNOW THAT THE CIRM
16 STAFF WOULD WORK WITH YOU TO REEVALUATE WHAT IS
17 EXCLUSIVELY NECESSARY IN THIS GRANT AND NOT
18 REDUNDANT, AND THEN IT SHOULD BE FUNDED TO MY
19 OPINION.

20 DR. JUELGAARD: I THINK WE HAVE TO BE
21 CAREFUL ABOUT OVERENGINEERING AT THIS POINT. SO I
22 WOULD LIKE TO BRING US BACK JUST TO A VERY SIMPLE
23 QUESTION. ARE WE WILLING TO FUND THIS OR NOT
24 WITHOUT HAVING A LOT OF MICROMANAGEMENT GOING ON AS
25 TO WHAT SHOULD OR SHOULDN'T BE IN THIS PARTICULAR

BARRISTERS' REPORTING SERVICE

1 PROPOSAL FROM OUR POINT OF VIEW. I DO BELIEVE IN MY
2 OWN MIND AND I MADE THE MOTION THAT THIS IS A
3 PROJECT WORTHY OF FUNDING. IF WE GET TO THE
4 ULTIMATE QUESTION, I WILL VOTE IN FAVOR OF IT.

5 MR. SHEEHY: OKAY. UNLESS THERE'S ANY
6 OTHER DISCUSSION FROM MEMBERS OF THE BOARD, ANY
7 COMMENTS, QUESTIONS? I'LL TAKE ANY COMMENTS,
8 ANYTHING FROM THE CIRM TEAM. THEN IS THERE ANY
9 OTHER PUBLIC COMMENT ON THIS APPLICATION? IF NOT,
10 MS. BONNEVILLE, COULD YOU CALL THE ROLL PLEASE.

11 MR. HARRISON: JUST TO BE CLEAR THEN, THE
12 MOTION THAT'S ON THE TABLE IS TO MOVE APPLICATION
13 RT3-07981 INTO TIER I.

14 MS. BONNEVILLE: ANNE-MARIE DULIEGE.

15 DR. DULIEGE: YES.

16 MS. BONNEVILLE: DAVID HIGGINS.

17 DR. HIGGINS: NO.

18 MS. BONNEVILLE: STEVE JUELSGAARD.

19 MR. JUELSGAARD: YES.

20 MS. BONNEVILLE: KATHY LAPORTE.

21 DR. LAPORTE: NO.

22 MS. BONNEVILLE: LAUREN MILLER.

23 MS. MILLER: YES.

24 MS. BONNEVILLE: JOE PANETTA.

25 MR. PANETTA: YES.

BARRISTERS' REPORTING SERVICE

1 MS. BONNEVILLE: ROBERT QUINT.

2 DR. QUINT: YES.

3 MS. BONNEVILLE: JEFF SHEEHY.

4 MR. SHEEHY: YES.

5 MS. BONNEVILLE: JONATHAN THOMAS.

6 CHAIRMAN THOMAS: YES.

7 MS. BONNEVILLE: ART TORRES.

8 MR. TORRES: AYE.

9 MS. BONNEVILLE: DIANE WINOKUR.

10 MS. WINOKUR: YES.

11 MR. HARRISON: MOTION CARRIES NINE TO TWO.

12 MR. SHEEHY: OKAY. THE NEXT STEP WE'RE AT
13 IS THAT THERE'S STILL, I BELIEVE, THREE REMAINING
14 APPLICATIONS IN TIER II. AND IS THERE A MOTION TO
15 MOVE ANY OF THOSE APPLICATIONS THAT HAVE NOT BEEN
16 DISCUSSED FROM TIER II INTO TIER I? AND IF THERE
17 IS, THE CIRM TEAM WILL BE HAPPY, I'M SURE, TO MAKE A
18 PRESENTATION ON ANY APPLICATION.

19 DR. DULIEGE: JUST TO BE SURE, THESE ARE
20 THE THREE AT THE BOTTOM OF TIER II THAT HAD A SCORE
21 LESS THAN 70; IS THAT RIGHT?

22 MR. SHEEHY: I BELIEVE THE ONES THAT
23 REMAIN, I THINK THAT'S CORRECT.

24 DR. DULIEGE: SO IS THERE ONE THAT HAD A
25 SCORE ABOVE 70 THAT WE HAVE NOT DISCUSSED YET AND

BARRISTERS' REPORTING SERVICE

1 THAT THE CIRM RECOMMENDED, OR HAVE WE DISCUSSED
2 EVERY RECOMMENDATION FROM CIRM? OKAY. THANK YOU.

3 MR. SHEEHY: WE'VE DISCUSSED ALL THE CIRM
4 RECOMMENDATIONS.

5 SO SEEING NO MOTIONS, THEN I'LL TAKE A
6 MOTION TO FUND THE APPLICATIONS IN TIER I AND NOT
7 FUND ANY OF THE REMAINING APPLICATIONS.

8 DR. JUELSGAARD: SO MOVED.

9 MR. HARRISON: JEFF, JUST ONE
10 CLARIFICATION, WITH THE EXCEPTION OF THE TWO THAT
11 HAVE BEEN DEFERRED.

12 MR. SHEEHY: THAT MOTION WITH THE
13 EXCEPTION OF THE TWO THAT HAVE BEEN DEFERRED. I
14 THINK THAT NEEDS TO COME FROM MEMBERS WITHOUT A
15 CONFLICT. MR. JUELSGAARD HAS MADE THE MOTION. AND
16 SECOND?

17 MR. PANETTA: SECOND.

18 MR. SHEEHY: MR. PANETTA. SO ANY
19 COMMITTEE DISCUSSION ON THAT MOTION? IS THERE ANY
20 PUBLIC COMMENT ON THAT MOTION? THEN, MS.
21 BONNEVILLE, COULD YOU CALL THE ROLL. I THINK IN
22 THIS INSTANCE COUNSEL SHOULD GIVE US FORM FOR
23 RESPONSE.

24 MR. HARRISON: JUST AS A REMINDER, FOR
25 THOSE OF YOU WHO HAVE AN APPLICATION NUMBER LISTED

BARRISTERS' REPORTING SERVICE

1 ON YOUR CONFLICTS SHEET, PLEASE VOTE YES OR NO
2 EXCEPT WITH RESPECT TO THOSE APPLICATIONS IN WHICH
3 YOU HAVE A CONFLICT.

4 MS. BONNEVILLE: ANNE-MARIE DULIEGE.

5 DR. DULIEGE: YES, EXCEPT FOR THOSE WITH
6 WHICH I HAVE A CONFLICT.

7 MS. BONNEVILLE: DAVID HIGGINS.

8 DR. HIGGINS: YES.

9 MS. BONNEVILLE: STEVE JUELSGAARD.

10 MR. JUELSGAARD: YES.

11 MS. BONNEVILLE: KATHY LAPORTE.

12 DR. LAPORTE: YES.

13 MS. BONNEVILLE: LAUREN MILLER.

14 MS. MILLER: YES.

15 MS. BONNEVILLE: JOE PANETTA.

16 MR. PANETTA: YES.

17 MS. BONNEVILLE: FRANCISCO PRIETO.

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

20 MS. BONNEVILLE: ROBERT QUINT.

21 DR. QUINT: YES.

22 MS. BONNEVILLE: AL ROWLETT.

23 MR. ROWLETT: YES, EXCEPT FOR THOSE WITH
24 WHICH I HAVE A CONFLICT.

25 MS. BONNEVILLE: JEFF SHEEHY.

BARRISTERS' REPORTING SERVICE

1 MR. SHEEHY: YES, EXCEPT FOR THOSE WITH
2 WHICH I HAVE A CONFLICT.

3 MS. BONNEVILLE: JONATHAN THOMAS.

4 CHAIRMAN THOMAS: YES, EXCEPT FOR THOSE
5 WITH WHICH I HAVE A CONFLICT.

6 MS. BONNEVILLE: ART TORRES.

7 MR. TORRES: AYE.

8 MS. BONNEVILLE: DIANE WINOKUR.

9 MS. WINOKUR: YES, EXCEPT FOR THOSE WITH
10 WHICH I HAVE A CONFLICT.

11 MS. BONNEVILLE: MOTION CARRIES.

12 MR. SHEEHY: DR. THOMAS, THAT CONCLUDES
13 THE APPLICATION REVIEW SUBCOMMITTEE. COULD I MAKE A
14 REQUEST?

15 CHAIRMAN THOMAS: CERTAINLY.

16 MR. SHEEHY: MAYBE A BREAK MIGHT BE
17 APPROPRIATE AT THIS TIME.

18 DR. SAMBRANO: JUST VERY BRIEF. SINCE I
19 WASN'T REALLY SHOWING THE SPREADSHEET THAT I
20 NORMALLY SHOW, THE TOTAL AMOUNT THAT WAS APPROVED IS
21 29.75 MILLION. THAT'S STILL PENDING THE TWO THAT
22 WERE DEFERRED THAT ARE 1.3 MILLION EACH.

23 CHAIRMAN THOMAS: THANK YOU, DR. SAMBRANO.
24 THANK YOU VERY MUCH, MR. SHEEHY. EXPERTLY RUN AS
25 USUAL.

BARRISTERS' REPORTING SERVICE

1 MR. TORRES: WE NEED A BIO BREAK.

2 MR. REED: THIS IS NOT IN REGARDS TO THE
3 PREVIOUS ONE, BUT IT IS IN REGARD TO THE PROCEDURE
4 THAT'S INVOLVED NOW. I WOULD LIKE TO FORMALLY
5 REQUEST THE REINVOLVEMENT OF PATIENT ADVOCATES IN
6 THE GRANT CONSIDERATION PROCESS BEFORE THE DECISION
7 IS MADE WHICH PROJECTS TO BE CONSIDERED OR NOT. I
8 APPRECIATE BEING ASKED ONCE THE DECISION WAS BEING
9 MADE, BUT THAT'S TOO LATE.

10 MY SUGGESTION IS WHEN ITS TIME TO CONSIDER
11 GRANTS, BEFORE THE BOARD DELIBERATION BEGINS, LET
12 THE CHAIR MAKE A PROCEDURAL POINT TO SAY IS THERE
13 ANY MEMBER OF THE PUBLIC WHO WOULD LIKE TO SUGGEST
14 MOVING A GRANT REQUEST UP OR DOWN. THEN GIVE US OUR
15 THREE MINUTES INPUT, THAT PUBLIC COMMENT PERIOD TO
16 WHICH WE ARE OFFICIALLY ENTITLED. AFTER WE SPEAK,
17 THE CHAIR ASKED DOES ANY MEMBER OF THE BOARD WISH TO
18 HEAR MORE OF THESE REQUESTED PROJECTS THAT THE
19 PATIENT ADVOCATES AND PUBLIC RAISED? IF TWO OR MORE
20 BOARD MEMBERS WISH TO RECONSIDER, THEN IT WILL BE
21 DISCUSSED.

22 AT PRESENT THE PATIENT ADVOCATES AND
23 GENERAL PUBLIC ARE EFFECTIVELY LARGELY EXCLUDED FROM
24 MEANINGFUL PARTICIPATION IN THIS DECISION-MAKING
25 PROCESS. MUCH HAS BEEN MADE ABOUT THE IMPORTANCE OF

BARRISTERS' REPORTING SERVICE

1 PATIENTS TO CIRM, BUT WE HAVE A SAYING IN THE
2 DISABILITY COMMUNITY, "NOTHING ABOUT US WITHOUT US."
3 IF DECISIONS ARE MADE CONCERNING US WITHOUT OUR
4 INPUT, THAT IS LIKE PATTING US ON THIS HEAD AND
5 SENDING US OUT OF THE ROOM WHILE THE GROWNUPS
6 DECIDE.

7 WE IN THE PATIENT ADVOCATE COMMUNITY HAVE
8 VERY SPECIFIC INFORMATION TO WHICH YOU MOSTLY DO NOT
9 HAVE ACCESS. SPINAL CORD INJURY, IN 2010 A RESEARCH
10 PROJECT WAS DENIED. IT HAD TO DO WITH BOWEL AND
11 BLADDER PROGRAMS FOR THE PARALYZED. AS A PATIENT
12 ADVOCATE, I KNOW WHAT THAT MEANS. BOWEL PROGRAMS
13 CAN TAKE TWO TO THREE HOURS AND REQUIRE AN
14 ATTENDANT, MOSTLY FAMILY MEMBERS. THEREFORE, WE CAN
15 NEVER BE MORE THAN A DAY AWAY FROM OUR LOVED ONES.
16 WE ARE THE PRISONERS OF THEIR BATHROOM NEEDS.
17 THERE'S NO WAY YOU CAN KNOW THIS. DR. OSWALD
18 STEWARD DOES, BUT HE CANNOT PARTICIPATE BECAUSE OF
19 CONFLICT OF INTEREST POLICIES. HIS INFORMATION IS
20 CUT OFF.

21 IN THIS PARTICULAR PROJECT BACK THEN,
22 PATIENT ADVOCATES WERE ALLOWED TO SPEAK AND WE DID.
23 OUR THREE-MINUTE PRESENTATIONS LED TO BOARD
24 QUESTIONS TO STAFF AND A ROBUST BOARD DEBATE. WE
25 SPOKE AS DID THE CIRM STAFF, AND THE SCIENTISTS WERE

BARRISTERS' REPORTING SERVICE

1 ALLOWED TO ANSWER QUESTIONS, AND THE ICOC VOTED TO
2 ALLOW THE RESEARCH TO GO FORWARD.

3 CAN WE RELY EXCLUSIVELY ON THE
4 OUT-OF-STATE REVIEW BOARD? NO, NEVER. REMEMBER,
5 YOU DO NOT EVEN GET MINORITY REPORTS FOR THE MOST
6 TIME. YOU HAVE NO WAY OF KNOWING IF SOME REVIEWERS
7 ARE STUCK IN OLD HABITS, OLD PATTERNS, OR MAY EVEN
8 COME FROM STATES WHERE RESEARCH IS ILLEGAL. FOR THE
9 ICOC TO MAKE AN INFORMED DECISION, INPUT FROM A
10 VARIETY OF SOURCES MUST BE SOUGHT.

11 ALSO, EXCLUDING PATIENT ADVOCATES FROM
12 GIVING INPUT IS DENYING YOURSELF THE HELP OF YOUR
13 STRONGEST SUPPORTERS AND YOUR GREATEST FRIENDS. WHO
14 BUILT THE CIRM? PATIENT ADVOCATES. WHO RAISED THE
15 MONEY, GATHERED THE SIGNATURES, SACRIFICING OUR OWN
16 PERSONAL LIVES VOLUNTEERING FOR A NEARLY TWO-YEAR
17 CAMPAIGN? WITHOUT PATIENT ADVOCATES NONE OF THIS
18 WOULD BE HERE. AND IF THERE COMES A TIME WHEN
19 FURTHER FUNDING IS REQUIRED, IT WILL BE PATIENT
20 ADVOCATES FIGHTING FOR IT AGAIN.

21 IF CIRM 2.0 IS INTENDED TO TRULY FOCUS ON
22 THE PATIENT, THEN DO NOT EXCLUDE US FROM MEANINGFUL
23 PARTICIPATION. GIVE EACH OF US OUR THREE MINUTES
24 BEFORE A DECISION IS MADE. THE BOARD CAN DECIDE IF
25 THERE'S MERIT IN OUR ARGUMENTS. I WOULD FORMALLY

BARRISTERS' REPORTING SERVICE

1 REQUEST THIS MATTER BE CONSIDERED AND, IF APPROVED,
2 BECOME A MATTER OF STANDARD POLICY. THANK YOU.

3 CHAIRMAN THOMAS: THANK YOU, MR. REED.
4 TAKE THIS MATTER UNDER ADVISEMENT. THANK YOU VERY
5 MUCH FOR YOUR COMMENTS AS ALWAYS.

6 MR. SHEEHY: CHAIRMAN THOMAS, COULD I
7 RESPOND?

8 I JUST WANTED TO NOTE A COUPLE OF POINTS.
9 NO. 1, PATIENT ADVOCATES FROM THE VERY BEGINNING
10 HAVE BEEN INVOLVED IN THE PEER REVIEW PROCESS. AS
11 PATIENT ADVOCATES HAVE BEEN ON THE BOARD, 12 OF THE
12 MEMBERS OF THE ICOC HAVE PATIENT ADVOCATE
13 CREDENTIALS. SO I HAVE TO SAY I DON'T THINK IT'S
14 VERY FAIR TO SUGGEST THAT PATIENT ADVOCATES -- DON,
15 PLEASE, I DON'T WANT TO DEBATE, BUT IT'S NOT FAIR TO
16 SAY THAT THEY DON'T PLAY A ROLE IN THE INSTITUTION.

17 AND I WOULD ALSO NOTE THAT A SIGNIFICANT
18 INNOVATION COMING INTO CIRM 2.0 IS TO ACTUALLY HAVE
19 PATIENT ADVOCATES THROUGH THE CLINICAL ADVISORY
20 PANELS PARTICIPATE IN MAKING SURE THE GRANTS WE HAVE
21 FUNDED IN THE CLINICAL SPACE DO SUCCEED. SO I JUST
22 WANTED TO PUT THAT ON THE RECORD. THANK YOU.

23 MR. REED: FOR A CLARIFICATION, I'M
24 TALKING ABOUT PUBLIC PATIENT ADVOCATES. I'M NOT
25 TALKING ABOUT PEOPLE WHO ARE SITTING ON THE BOARD

BARRISTERS' REPORTING SERVICE

1 AND WHO ARE, BY THE WAY, NOT ALLOWED TO SPECIFICALLY
2 COMMENT ON AREAS OF EXPERTISE LIKE SPINAL CORD
3 INJURY. DR. STEWARD IS NOT ALLOWED TO SPEAK ON
4 THAT. I'M TALKING ABOUT PEOPLE OUTSIDE HERE WHO ARE
5 PUBLIC ADVOCATES, AND THAT'S WHO I'M SPEAKING ABOUT.

6 MS. DEKOZAN: MY NAME IS SUZANNE DEKOZAN.
7 I AM A RETIRED PUBLIC ATTORNEY. I ADVISE MANY
8 BOARDS, COMMISSIONS, DIRECT POWERS AGENCIES,
9 COMMITTEES, AND SUBCOMMITTEES SUCH AS YOURS. I AM
10 ALSO, INCIDENTALLY, A PERSON WITH PARKINSON'S
11 DISEASE, WHICH GIVES ME SPECIAL INTEREST IN YOUR
12 PROCEEDINGS. AND I ALSO SERVE ON A COMMITTEE OF THE
13 BUCK INSTITUTE ON AGING THAT REVIEWS PROPOSALS FOR
14 STEM CELL RESEARCH.

15 THIS IS THE FIRST TIME I HAVE BEEN TO ANY
16 OF YOUR MEETINGS, AND I'M STILL LEARNING ABOUT YOUR
17 PROCESS. I LISTENED TO DR. COLE'S COMMENTS, AND I
18 WOULD SAY THAT IF YOU ARE SIMPLY A COMMITTEE
19 ADVISING ANOTHER COMMITTEE THAT WILL MAKE A FINAL
20 DECISION, IT'S NOT SO IMPORTANT THAT YOU HAVE A
21 PUBLIC PROCESS HERE. BUT IF YOU ARE THE FINAL
22 DECISION MAKER, I WOULD AGREE WITH MR. COLE. THIS
23 WOULD BE THE BEST POINT TO HAVE THE PUBLIC
24 INVOLVEMENT AND HAVE A PERIOD FOR PUBLIC COMMENT.
25 THANK YOU.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: THANK YOU. OKAY. THANK
2 YOU FOR YOUR COMMENTS. WE'RE GOING TO TAKE A
3 TEN-MINUTE BREAK TO GIVE BETH A BREAK AND ALL THE
4 REST OF US A BREAK. AND WE WILL RESUME WHEN WE COME
5 BACK WITH ITEM NO. 12. WE'RE GOING TO TAKE THIS A
6 LITTLE OUT OF ORDER. THANK YOU.

7 (A RECESS WAS TAKEN.)

8 CHAIRMAN THOMAS: OKAY. WE'RE GOING TO
9 PROCEED NOW TO AGENDA ITEM 12 ON THE CIRM TRAINING
10 GRANT PROGRAM. DR. YAFFE IS GOING TO PRESENT.
11 BEFORE WE GET TO THAT, MR. HARRISON, THERE'S A BIT
12 OF CONFUSION AMONGST BOARD MEMBERS ABOUT WHO IS ABLE
13 TO TALK AND VOTE ON THIS. COULD YOU JUST GIVE
14 INSTRUCTION ON THAT POINT, PLEASE.

15 MR. HARRISON: YES. ALL BOARD MEMBERS ARE
16 ENTITLED TO PARTICIPATE IN THE DEBATE, DISCUSSION,
17 AND VOTE ON THIS MATTER. JUST FOR CONTEXT, A
18 PROPOSED EXTENSION OF THE EXISTING TRAINING GRANT
19 PROGRAM WAS BROUGHT TO THE BOARD IN DECEMBER 2013
20 AND WAS NOT APPROVED. INSTEAD, THE CIRM TEAM WAS
21 DIRECTED TO GO BACK AND CONSIDER A CONCEPT PROPOSAL
22 FOR A NEW TRAINING GRANT PROGRAM.

23 SO THE PURPOSE OF THE DISCUSSION TODAY IS
24 TO TALK ABOUT THE CIRM TEAM'S CONSIDERATION OF THAT
25 REQUEST.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: THANK YOU, MR. HARRISON.
2 DR. YAFFE.

3 DR. YAFFE: MR. CHAIRMAN, MEMBERS OF THE
4 BOARD, MEMBERS OF THE PUBLIC, AND TEAM CIRM, THE
5 CIRM TRAINING GRANT PROGRAM HAS HAD AS ITS GOALS TO
6 SUPPORT THE TRAINING AND DEVELOPMENT OF GRADUATE AND
7 POSTGRADUATE LEVEL STEM CELL SCIENTISTS IN
8 CALIFORNIA AND TO EXPAND STEM CELL RESEARCH IN
9 CALIFORNIA BY CREATING A CADRE OF YOUNG SCIENTISTS
10 WITH APPROPRIATE KNOWLEDGE AND SKILLS.

11 THE TRAINING GRANT, CIRM TRAINING GRANTS
12 WERE THE FIRST GRANT PROGRAM OF CIRM INITIATED IN
13 2005, AND IT HAS OPERATED FOR NINE CONSECUTIVE
14 YEARS. THESE PROGRAMS HAVE SUPPORTED TRAINING
15 PROGRAMS, DISTINCT TRAINING PROGRAMS, AT 17
16 DIFFERENT CALIFORNIA INSTITUTIONS. THEY'VE
17 SUPPORTED TRAINEES WHICH WE CALL CIRM SCHOLARS
18 INVOLVED IN RESEARCH PROJECTS ACROSS A BROAD
19 SPECTRUM OF CIRM'S PORTFOLIO, AND THE MAJORITY OF
20 PROJECTS HAVE FOCUSED ON TOPICS IN BASIC RESEARCH.
21 CIRM SCHOLARS HAVE BEEN INCREDIBLY PRODUCTIVE,
22 AUTHORIZING OVER 887 PUBLICATIONS.

23 THE TOTAL FUNDS COMMITTED TO THE CIRM
24 TRAINING GRANTS HAS BEEN \$131 MILLION. THIS FUNDING
25 HAS OCCURRED IN THREE PHASES. FIRST TRAINING I IN

BARRISTERS' REPORTING SERVICE

1 2005 FOR \$39 MILLION, TRAINING II, A SECOND RFA, IN
2 2009 FOR \$45 MILLION, AND A THREE-YEAR EXTENSION OF
3 TRAINING II IN 2011 FOR APPROXIMATELY \$47 MILLION.

4 THESE PROGRAMS HAVE TRAINED 859 SCHOLARS
5 DIVIDED ABOUT A THIRD AS GRADUATE STUDENTS,
6 PREDOCTORAL STUDENTS, ABOUT A HALF AS POSTDOCTORAL
7 STUDENTS, AND THE REMAINDER AS CLINICAL FELLOWS.

8 AS MR. HARRISON MENTIONED, AT THE DECEMBER
9 2013 ICOC MEETING, YOU VOTED NOT TO EXTEND FUNDING
10 OF THE CURRENT TRAINING GRANT PROGRAM AND REQUESTED
11 THAT THE CIRM TEAM CONSIDER THE DEVELOPMENT OF A NEW
12 CONCEPT PROPOSAL. FOLLOWING EXTENSIVE INTERNAL
13 DISCUSSION, CONSIDERING THE CURRENT ENVIRONMENT, AND
14 HOW BEST TO ENSURE PROGRAM ALIGNMENT WITH CIRM'S
15 MISSION, THE TEAM DETERMINED THAT THE ENVIRONMENT
16 HAS CHANGED SUBSTANTIALLY SINCE 2005, THAT THE
17 TRAINING GRANT PROGRAM IS NO LONGER AN OPTIMAL
18 METHOD FOR THE FURTHERANCE OF TRAINING AND SHOULD
19 NOT BE CONTINUED, AND THAT CIRM SHOULD CONTINUE TO
20 SUPPORT THE TRAINING OF GRADUATE STUDENTS AND
21 POSTDOCTORAL FELLOWS IN THE CONTEXT OF THE RESEARCH
22 GRANTS.

23 HERE ARE TWO KEY POINTS OF RATIONALE FOR
24 THIS RECOMMENDATION NOT TO CONTINUE THE TRAINING
25 GRANT PROGRAM. AND THE FIRST IS THAT THE CIRM

BARRISTERS' REPORTING SERVICE

1 TRAINING GRANT PROGRAM GOALS HAVE BEEN ACHIEVED.
2 CIRM HAS ENABLED THE TRAINING OF A LARGE CADRE OF
3 STEM CELL RESEARCHERS. CALIFORNIA NOW HAS A
4 CRITICAL MASS OF RESEARCHERS AND LABS WITH EXPERTISE
5 IN STEM CELL BIOLOGY AND, I MIGHT ADD, FACILITIES
6 APPROPRIATE TO BOTH THE TRAINING AND THE PERFORMANCE
7 OF STEM CELL RESEARCH. AND STEM CELL COURSES ARE
8 NOW AN ESTABLISHED FEATURE OF MANY BIOMEDICAL
9 GRADUATE PROGRAM CURRICULA.

10 A SECOND KEY POINT IS THAT CIRM CONTINUES
11 TO PROVIDE SUBSTANTIAL SUPPORT FOR TRAINING OF
12 GRADUATE STUDENTS, POSTDOCTORAL FELLOWS, AND
13 CLINICAL FELLOWS THROUGH RESEARCH GRANTS. AND THIS
14 POINT IS ILLUSTRATED IN THE FOLLOWING GRAPH WHICH
15 SHOWS THE TOTAL NUMBER OF TRAINEES SUPPORTED PER
16 YEAR IN BLUE ON CIRM TRAINING GRANTS AND IN RED ON
17 CIRM RESEARCH GRANTS. SO WE ARE SUPPORTING A
18 SUBSTANTIAL NUMBER OF TRAINEES THROUGH OUR RESEARCH
19 PROGRAM, AND THERE HAS BEEN FROM THE BEGINNING THE
20 OPPORTUNITY AND PROVISION TO SUPPORT TRAINEES,
21 GRADUATE STUDENTS, POSTDOCTORAL FELLOWS, AND
22 CLINICAL FELLOWS ON OUR RESEARCH GRANTS.

23 THE CIRM TEAM RECOMMENDS CONTINUED AND
24 ROBUST SUPPORT OF SCIENTIST TRAINING IN REGENERATIVE
25 MEDICINE AND STEM CELL BIOLOGY VIA TRAINING

BARRISTERS' REPORTING SERVICE

1 OPPORTUNITIES ON RESEARCH GRANTS. TRAINING
2 ACTIVITIES WILL BE ENCOMPASSED IN CONCEPT PLANS FOR
3 DISCOVERY AND TRANSLATIONAL RESEARCH PHASES OF CIRM
4 2.0 TO BE PRESENTED LATER THIS YEAR TO YOU, THE
5 ICOC.

6 THIS FORM OF SUPPORT FOR TRAINING WILL
7 ALLOW THE CONSIDERATION OF INDIVIDUAL PROJECTS WHICH
8 WILL BE EVALUATED BY THE GRANTS WORKING GROUP AND
9 APPROVED BY THE ICOC TO ENSURE ALIGNMENT WITH CIRM'S
10 MISSION. OUR RECOMMENDATION TO YOU IS TO APPROVE
11 THE CIRM TEAM'S DETERMINATION NOT TO PRESENT A
12 CONCEPT PROPOSAL FOR A DISTINCT
13 GRADUATE/POSTGRADUATE TRAINING GRANT PROGRAM.

14 THANK YOU FOR YOUR ATTENTION. I'LL BE
15 HAPPY TO TAKE QUESTIONS.

16 MR. HIGGINS: I SAW THE MATH SOMEWHERE
17 THAT UNDER THIS PROGRAM IT'S \$152,000 PER TRAINEE IS
18 THE AVERAGE COST. IF YOU ROLL THIS INTO SORT OF
19 STANDARD GRANTS AND FUNDING STUDENTS THROUGH OTHER
20 GRANTS, DOES THAT EFFICIENCY -- DOES THE EFFICIENCY
21 BECOME ANY BETTER? DO YOU KNOW THE ECONOMIC
22 EFFICIENCY OF THAT? IS THERE ANY WAY TO DETERMINE
23 THAT?

24 DR. YAFFE: 152,000 PER TRAINEE IS A
25 COMPLICATED NUMBER BECAUSE THERE'S A LOT OF COSTS

BARRISTERS' REPORTING SERVICE

1 FOLDED INTO THAT, COST OF PROGRAM ADMINISTRATION,
2 COSTS OF OVERHEAD GOING TO INSTITUTIONS, COST
3 OF -- SO EACH STUDENT IS NOT GETTING \$152,000. YOU
4 UNDERSTAND THAT.

5 THE COSTS ARE DIFFERENT AND THE COST
6 EQUATIONS ARE DIFFERENT WHEN WE LOOK AT TRAINEES ON
7 RESEARCH GRANTS. I THINK THE BOTTOM LINE IS THOSE
8 TRAINEES STILL HAVE THE OPPORTUNITY ON RESEARCH
9 GRANTS TO RECEIVE MONEY FOR TUITION AND EDUCATIONAL
10 FEES, STIPENDS, SUPPLY MONEY, TRAVEL MONEY. THOSE
11 ARE THE COSTS THAT ACTUALLY GO TO THE INDIVIDUAL
12 TRAINEES. ACTUALLY THAT AMOUNT IS MORE. WE'RE
13 PROBABLY UNDERESTIMATING THE COST OF A TRAINEE'S
14 ACTIVITIES IN THE LABORATORY.

15 SO ON OUR TRAINING GRANTS, FOR EXAMPLE, A
16 POST-DOC WOULD RECEIVE \$10,000 TOWARDS SUPPLIES AND
17 TRAVEL. THE ACTUAL COST OF SUPPLIES FOR A
18 PARTICULAR PROJECT COULD BE MUCH MORE THAN THAT. SO
19 I DON'T KNOW THAT, IN TERMS OF THE NUMBER, HOW THE
20 NUMBER IS GOING TO DIFFER.

21 DR. MILLS: DAVID, THE BEST I CAN SORT OUT
22 AND FIGURE OUT, AND IT'S NOT PERFECT, IS THE NUMBERS
23 AREN'T RADICALLY DIFFERENT ON HOW YOU TRAIN UNDER
24 THE TWO PROGRAMS. THE REAL DIFFERENCE AND
25 MOTIVATION FOR US IS, ONE, WE APPROVE A BLOCK OF

BARRISTERS' REPORTING SERVICE

1 MONEY AND WE DON'T HAVE REALLY A LOT OF OVERSIGHT OF
2 HOW THAT MONEY GETS SPENT AND CAN BE SPENT LITERALLY
3 ON EVERYTHING FROM MARINE BIOLOGY AND LIZARDS TO THE
4 KIND OF WORK THAT WE REALLY ARE INTERESTED IN DOING
5 VERSUS TRAINING THE STUDENTS, POSTGRADUATES, AND
6 CLINICAL FELLOWS UNDER PROGRAMS THAT WE HAVE FULLY
7 VETTED AND THAT WE KNOW ARE COMPLETELY ALIGNED WITH
8 CIRM'S MISSION.

9 THE COST BETWEEN HOW WE TREAT PER STUDENT,
10 I DON'T THINK, COMES DOWN DRAMATICALLY ON A TRAINING
11 GRANT, BUT THE FOCUS ON ALIGNMENT WITH THE MISSIONS,
12 I THINK, IS WHAT IS FOR US THE MOST IMPORTANT.

13 DR. MINOR: ARE YOU CONCERNED ABOUT THE
14 GRANULARITY WITH WHICH YOU SEEK TO SPECIFY THE
15 TRAINING OPPORTUNITIES? BECAUSE ONE GOAL IN
16 TRAINING YOUNG SCIENTISTS IS TO GIVE THEM EXPOSURE
17 TO A VARIETY OF DIFFERENT PROJECTS, NOT NECESSARILY
18 TO ENCUMBER THEM TO BE TIED TO ONE PROJECT AT THE
19 ONSET OF THEIR TRAINING EXPERIENCE. WERE THE
20 BROADER TRAINING GRANTS TO GO AWAY, WOULDN'T THAT
21 ALSO LIMIT THE OPPORTUNITY TO ATTRACT THE VERY BEST
22 STUDENTS WHO MAY WANT TO HAVE THE LEEWAY TO CHANGE
23 PROJECTS OR TO DO THINGS WITH SLIGHTLY DIFFERENT
24 INTENT THAN IS THE INTENT OF THE SPECIFIC GRANTS
25 THAT WOULD THEN BE FUNDED AND HAVE TRAINING SLOTS

BARRISTERS' REPORTING SERVICE

1 ASSOCIATED WITH THEM?

2 AND IT DOESN'T HAVE TO BE EITHER/OR AS IT
3 ISN'T EITHER/OR NOW BECAUSE, AS YOU POINTED OUT,
4 THERE ARE TRAINING SLOTS ASSOCIATED WITH GRANTS AND
5 THERE ARE THESE BROADER TRAINING GRANTS THAT GIVE
6 STUDENTS, THEN, A BROADER RANGE OF OPTIONS THAT
7 LATER CAN COME BACK TO REALLY BENEFIT STEM CELL
8 BIOLOGY AND STEM CELL MEDICINE.

9 DR. MILLS: I THINK, IN GENERAL, THE
10 QUESTION IS JUST FOCUSING THE TRAINING THAT WE DO ON
11 SPECIFIC AREAS OF STEM CELL RESEARCH THAT INTEREST
12 THE AGENCY CONCERN ME. MY ANSWER TO THAT WOULD BE
13 NO. WE ARE NOT THE ONLY FUNDING SOURCE FOR TRAINING
14 SCIENTISTS. THE NIH IS AGGRESSIVELY INVOLVED IN
15 TRAINING THESE SCIENTISTS AS WELL AND THERE'S OTHER
16 AREAS OF SUPPORT.

17 WE ARE THE STATE'S STEM CELL AGENCY. WE
18 HAVE A MISSION, AND THAT MISSION IS TO ACCELERATE
19 STEM CELL TREATMENTS TO PATIENTS WITH UNMET MEDICAL
20 NEEDS. AND SO WHILE OUR FOCUS ON TRAINING MIGHT BE
21 MORE NOW, IT'S NOT THE EXCLUSIVE OPPORTUNITY FOR
22 TRAINING FUNDS TO BE RECEIVED. AND SO I ACTUALLY
23 THINK IT'S WHOLLY APPROPRIATE THAT WE HAVE THAT
24 LEVEL OF FOCUS AT CIRM; AND THAT IF WE TRAIN A
25 SCIENTIST, WE'RE TRAINING A SCIENTIST TO SERVE OUR

BARRISTERS' REPORTING SERVICE

1 MISSION AND NOT SOMETHING ELSE.

2 DR. YAFFE: I COULD JUST ADD TO THAT. I
3 THINK IT'S AN IMPORTANT POINT YOU'VE MADE, DR.
4 MINOR. MOST OF THE TRAINEES ON OUR TRAINING GRANTS
5 ARE NOT FIRST-YEAR GRADUATE STUDENTS, FOR EXAMPLE.
6 DURING A FIRST YEAR OF MOST GRADUATE PROGRAMS, THE
7 STUDENTS HAVE AN OPPORTUNITY TO SAMPLE A NUMBER OF
8 DIFFERENT LABORATORIES, TO EXPLORE WHAT'S AVAILABLE
9 IN THEIR INSTITUTION FOR TRAINING OPPORTUNITIES IN
10 DIFFERENT AREAS OF SCIENCE. ALMOST ALL OF THE
11 TRAINEES ACTUALLY ON OUR TRAINING GRANT PROGRAMS ARE
12 STUDENTS IN MORE ADVANCED YEARS WHO HAVE ALREADY
13 SELECTED TOPICS, SELECTED A COURSE OF STUDY, AND ARE
14 COMMITTED ALREADY TO STEM CELL BIOLOGY OR
15 REGENERATIVE MEDICINE.

16 DR. MINOR: I WOULD THEN ASK THE NEXT
17 QUESTION, WHICH IS THAT IF THE TRAINING GRANTS ARE
18 STRICTLY LIMITED TO AND RESTRICTED TO PROJECTS, THEN
19 AS THOSE PROJECTS TRANSITION FROM ONE TO THE NEXT,
20 AND ONE THING THAT YOU'VE EMPHASIZED, DR. MILLS, IS
21 THE NEED TO HAVE ACCOUNTABILITY AND TO CLOSELY
22 REVIEW PROJECTS, TRAINING GRANTS GO ON FOR A MORE
23 LONGITUDINAL PERIOD OF TIME, FREQUENTLY REFLECTING
24 THE LENGTH OF TIME THAT A STUDENT NEEDS TO TRAIN TO
25 COMPLETE HIS OR HER TRAINING. IF ALL TRAINING

BARRISTERS' REPORTING SERVICE

1 OPPORTUNITIES ARE RESTRICTED TO FUNDED RESEARCH
2 GRANTS, AND ONE WOULD EXPECT AGAIN, DR. MILLS, BASED
3 UPON THE STRATEGY THAT YOU'VE DEFINED HERE, THAT
4 SOME OF THOSE TRAINING GRANTS WILL BE ENDING AND
5 TRANSITIONING. THIS PLACES IN LIMBO A GROUP OF
6 STUDENTS WHO MAY, THEREFORE, NOT BE ABLE TO FINISH
7 UNDER A TRAINING PERIOD AS DEFINED BY THE INITIAL
8 LENGTH OF THE FUNDING OF THE RESEARCH GRANT.

9 AND, AGAIN, THAT'S WHERE TRAINING GRANTS
10 FOR THE SAKE OF TRAINING HAVE THE ADVANTAGE OF
11 MAKING SURE THAT THE STUDENTS ARE TRANSITIONED AND
12 CAN FINISH THEIR TRAINING EXPERIENCES AND FURTHER
13 THE SCIENCE THAT THEY BEGAN AT THE ONSET.

14 DR. MILLS: I APPRECIATE WHAT YOU'RE
15 SAYING, BUT ACTUALLY I THINK THE ACTUAL
16 CIRCUMSTANCES ARE A LITTLE DIFFERENT THAN PERHAPS
17 YOU THINK. THE AVERAGE LENGTH OF A TRAINING GRANT
18 IS JUST UNDER TWO YEARS. THE AVERAGE LENGTH OF A
19 RESEARCH GRANT IS BETWEEN THREE AND FOUR YEARS. SO
20 WE ACTUALLY HAVE A GREATER TRANSFER DURABILITY IN
21 TRAINING THESE FROM BEGINNING TO END ON A PROJECT
22 UNDER THE RESEARCH GRANTS THAN WE DO UNDER THE
23 TRAINING GRANTS.

24 DR. GASSON: FOR THE \$131 MILLION THAT
25 WE'VE INVESTED IN THE TRAINING GRANT PROGRAMS, DO

BARRISTERS' REPORTING SERVICE

1 YOU HAVE DATA ON WHAT THE STUDENTS, POST-DOCS, AND
2 CLINICAL FELLOWS, AT LEAST FROM THE EARLY YEARS TEN
3 YEARS AGO, GO ON TO DO, WHETHER THEY STAYED IN
4 CALIFORNIA, WHETHER THEY STAYED IN BIOMEDICAL
5 RESEARCH, THOSE TYPES OF THINGS?

6 DR. YAFFE: WE DO HAVE DATA. WE'VE
7 TRACKED STUDENTS. I DON'T HAVE A REPORT TO PROVIDE
8 FOR YOU TODAY, BUT WE COULD CERTAINLY GET YOU THAT
9 INFORMATION AND MAKE THAT INFORMATION PUBLIC.

10 DR. GASSON: THANK YOU.

11 MR. TORRES: I THINK THAT'S AN EXCELLENT
12 POINT, JUDY, BECAUSE THE AUDIT, NOT AUDIT, BUT THE
13 REVIEW OF WHERE OUR MONEY HAS BEEN INVESTED AND
14 WHAT'S BEEN THE RESULT ON THAT INVESTMENT, I THINK,
15 IS VERY, VERY EXEMPLARY. AND SOME OF IT I'VE SHARED
16 WITH MEMBERS OF THE LEGISLATURE AND CERTAIN POLICY
17 COMMITTEES AS TO WHERE THIS MONEY FOR THE TRAINING
18 OF THESE YOUNG PEOPLE HAVE DONE. AND MANY OF THEM
19 HAVE ASSUMED POSITIONS WITHIN MAJOR INSTITUTIONS IN
20 CALIFORNIA FOR THE MOST PART. SOME HAVE GONE ON TO
21 HARVARD, OTHER INSTITUTIONS, AND THE PUBLICATIONS
22 ARE STILL OVER 600 PUBLICATIONS FROM THE STUDENTS
23 THAT WE'VE PROVIDED THE FUNDING FOR.

24 I THINK IT IS AN EXCELLENT PROGRAM, BUT
25 I'M ALSO CONCERNED ABOUT HOW TO ENSURE ALIGNMENT. I

BARRISTERS' REPORTING SERVICE

1 THINK DR. MILLS TALKED ABOUT THAT POINT. SO THE
2 MONEY IS BEING USED TO ALIGN WITH THE MISSION OF
3 CIRM SO THAT WE'RE FULFILLING OUR FIDUCIARY DUTY IN
4 THAT RESPECT.

5 NO. 2, THE 130 MILLION, HOW WILL THAT BE
6 SAVED? WILL THAT BE INCORPORATED IN THE TRAINING
7 ACTIVITIES ENCOMPASSED ON CONCEPT PLANS FOR
8 TRANSLATIONAL DISCOVERY RESEARCH GRANTS?

9 DR. MILLS: THE 131 MILLION IS SPENT.
10 THAT'S GONE. SO BASICALLY --

11 MR. TORRES: AND WAS NOT REAPPROPRIATED.

12 DR. MILLS: IT CAME BEFORE THE BOARD IN
13 DECEMBER OF '13, NOW BEFORE MY TIME, BUT IT CAME
14 BEFORE THE BOARD DECEMBER OF '13 TO BE REUPPED FOR
15 ABOUT ANOTHER \$47 MILLION FOR ANOTHER THREE YEARS OF
16 THAT PROGRAM AT THAT TIME. THE BOARD DECLINED TO
17 REUP, AND THEN THE IDEA WAS IT WOULD BE BROUGHT
18 BACK. SO THE \$131 MILLION IS ALREADY SPENT. THIS
19 WOULD BE ANOTHER ROUGHLY \$47 MILLION NEW ALLOCATION
20 TO START ANOTHER SERIES OF TRAINING.

21 MR. TORRES: AND YOU ENVISION THAT AMOUNT
22 OF MONEY TO BE PUT INTO CONCEPT PLANS AND OTHER
23 PROPOSED GRANTS?

24 DR. MILLS: YEAH. ONE OF THE THINGS I
25 WOULD POINT OUT IS WE HAVE NO SHORTAGE OF DEMAND FOR

BARRISTERS' REPORTING SERVICE

1 BASIC RESEARCH, WHAT WE CALL DISCOVERY AND
2 TRANSLATIONAL STAGE PROJECTS, WHICH IS THE ONES IN
3 WHICH WE TRAIN THE MOST AND WE TRAIN MORE
4 POSTGRADUATE STUDENT, POST-DOC, AND CLINICAL FELLOWS
5 UNDER THAT THAN WE DO UNDER THE TRAINING PROGRAM.
6 WE HAVE NO SHORTAGE OF DEMAND. WE CAP HOW MUCH
7 MONEY WE SPEND ON THOSE PROGRAMS.

8 AND SO I THINK CIRM WOULD VERY MUCH
9 APPRECIATE THE INPUT FROM THE BOARD IN PREPARATION,
10 AND WE HAVE TWO OF THEM THAT ARE COMING UP, THE
11 DISCOVERY AND THE TRANSLATIONAL CONCEPT PLANS THAT
12 WILL BE COMING. IF THOSE CONCEPT PLANS WANT TO BE
13 BOLSTERED SPECIFICALLY FOR THE PURPOSES OF
14 INCREASING THE AMOUNT OF FUNDS THAT ARE GOING
15 TOWARDS TRAINING STUDENTS IS ABSOLUTELY SOMETHING WE
16 CAN DO AND WE THINK IS THE MORE APPROPRIATE
17 MECHANISM FOR THIS.

18 DR. FRIEDMAN: THANK YOU. IF I MAY, J.T.,
19 I WILL TRANSITION A LITTLE BIT FROM QUESTIONS TO
20 BOARD COMMENTS AND WOULD LIKE TO OFFER ONE AT THIS
21 MOMENT IF I MAY. I WANT TO BE STRONGLY ENDORSING
22 THE RECOMMENDATION MADE BY THE STAFF. I FEEL THAT
23 THE VALUE OF TRAINING GRANTS IS SIMPLY ENORMOUS.
24 AND I AM REALLY PROUD AND PLEASED THAT WE HAVE FOR
25 THE LAST DECADE INVESTED IN WHAT I THINK IS A VERY

BARRISTERS' REPORTING SERVICE

1 IMPORTANT INFRASTRUCTURE, AND THE RIPPLE EFFECT, I
2 THINK, WITHOUT EXAGGERATING, WILL BE PROFOUND OF
3 WHAT WE'VE DONE.

4 I ALSO WANT TO MAKE THE POINT THAT THERE'S
5 GREAT VALUE IN TRAINING GRANTS. AND THE PROBLEM
6 THAT WE FACE AS AN ORGANIZATION TODAY IS BEING
7 INUNDATED BY TOO MANY GOOD OPPORTUNITIES. AND THIS
8 IS A VALID, GOOD THING TO INVEST IN, BUT AT THIS
9 MOMENT I DON'T THINK IT'S THE HIGHEST AND BEST USE
10 OF THE LIMITED MONEY THAT WE HAVE LEFT. THAT ISN'T
11 TO DIMINISH IT OR TO DENIGRATE THE REAL
12 ACCOMPLISHMENTS. AND I'M SURE THERE WILL BE PEOPLE
13 WHO ARE ABLE TO SAY THESE ARE ALL THE GOOD STUDENTS,
14 THIS IS ALL THE GOOD WORK THAT'S DONE, THESE ARE ALL
15 THE IMPORTANT PAPERS. I THINK THAT'S ABSOLUTELY
16 TRUE AND I CONGRATULATE EVERYONE WHO'S BEEN INVOLVED
17 IN THAT.

18 THE POINT TODAY IS THAT, GIVEN THE VAST
19 OPPORTUNITIES THAT WE HAVE AND THE LIMITED MONEY, I
20 THINK THAT THE STAFF HAS MADE THE PROPER
21 RECOMMENDATION TO FOCUS AT THIS MOMENT. IT'S A HARD
22 DECISION BECAUSE THESE ARE GOOD OPTIONS THAT WE'RE
23 FORECLOSING, BUT I THINK THE PRESENTATION WAS A
24 RESPONSIBLE ONE. I THINK THEY HAVE DONE WHAT WE AS
25 A BOARD ASKED THEM TO DO, WHICH IS TO CONSIDER A

BARRISTERS' REPORTING SERVICE

1 NUMBER OF DIFFERENT OPTIONS, AND SO I FEEL VERY
2 SUPPORTIVE OF THAT. THANK YOU.

3 CHAIRMAN THOMAS: THANK YOU, DR. FRIEDMAN.
4 MR. MINOR.

5 DR. MINOR: SO I DISAGREE WITH THE
6 RECOMMENDATION OF THE CIRM STAFF. SINCE 2007 CIRM
7 TRAINING GRANTS HAVE PROVIDED CRITICAL SUPPORT FOR
8 GRADUATE STUDENTS AND LABORATORIES ACROSS THE STATE
9 OF CALIFORNIA THAT ARE DOING STEM CELL RESEARCH.
10 CIRM CHOSE TO FUND TRAINING GRANTS IN THEIR FIRST
11 ROUND OF FUNDING SPECIFICALLY TO ENCOURAGE YOUNG
12 PEOPLE TO ENTER THE FIELD AND RECEIVE TRAINING
13 NECESSARY FOR THEM TO EVENTUALLY START THEIR OWN
14 STEM CELL RESEARCH LABORATORIES AND TO WORK IN
15 BIOTECHNOLOGY AND THE OTHER THINGS THAT ARE VERY
16 MUCH A PART OF CIRM'S MISSION.

17 I THINK THAT NEED FOR TRAINING GRANTS AND
18 FOR TRAINING GRANT PROGRAMS STILL EXISTS. THE
19 STUDENTS WHO WILL BECOME THE NEXT LEADERS IN STEM
20 CELL BIOLOGY AND MEDICINE ARE OFTENTIMES ATTRACTED
21 TO THE FIELD BECAUSE OF THE AMOUNT OF FOCUS, AND
22 THAT FOCUS EXTENDS TO THE ABILITY TO GET TRAINING
23 FUNDING, FUNDING FOR TRAINING, AND FUNDING FOR THE
24 TYPES OF OPPORTUNITIES THAT FALL WITHIN STEM CELL
25 BIOLOGY AND MEDICINE. AND I DON'T THINK THAT NEED

BARRISTERS' REPORTING SERVICE

1 TO HAVE TRAINING GRANTS THAT DEMONSTRATE THAT VERY
2 TANGIBLY HAS GONE AWAY. THAT'S ENABLED US AT
3 INSTITUTIONS ACROSS CALIFORNIA TO ATTRACT THE BEST
4 AND THE BRIGHTEST STUDENTS TO COME HERE AND TRAIN IN
5 STEM CELL MEDICINE AND BIOLOGY.

6 WE JUST HEARD ABOUT THE PUBLICATIONS THAT
7 HAVE RESULTED FROM TRAINEES. AND AS SENATOR TORRES
8 POINTED OUT, WE CAN AND SHOULD GET ADDITIONAL DATA
9 ABOUT WHAT THEY'VE GONE ON TO DO. THE AMOUNT OF
10 FUNDS THAT CIRM HAS DEVOTED HAS FOCUSED ON TRAINEES,
11 AND TRAINING GRANTS IS ACTUALLY SMALL RELATIVE TO
12 THE OVERALL CIRM BUDGET. I'M VERY SENSITIVE TO WHAT
13 DR. FRIEDMAN SAID, BUT WE'RE NOT TALKING ABOUT WHAT
14 HAS BEEN IN THE PAST OR WOULD BE IN THE FUTURE A
15 LARGE PART OF THE CIRM BUDGET. AND IN YEARS TO
16 COME, I THINK WE'RE GOING TO LOOK BACK AT TRAINING
17 GRANTS AS ONE OF THE SIGNIFICANT FOUNDATIONAL STEPS
18 THAT LED TO DISCOVERIES AND TREATMENTS FOR PATIENTS
19 HERE IN CALIFORNIA AND AROUND THE WORLD. AND THE
20 INCREASE IN INTELLECTUAL CAPITAL AND SCIENTIFIC
21 PROGRESS DUE TO THE TRAINING GRANT PROGRAM HAS COME,
22 AS I SAID, AT A SMALL COST, AT A FRACTION OF THE
23 TOTAL OVERALL CIRM SPENDING.

24 AND SO I HOPE THAT WE CAN ASK THE CIRM
25 STAFF TO RECONSIDER THIS AND COME BACK TO US WITH A

BARRISTERS' REPORTING SERVICE

1 TRAINING GRANT PROPOSAL FOR CONTINUATION OF THESE
2 GRANTS IN THE FUTURE.

3 MS. WINOKUR: IT SEEMS TO ME THAT WE'RE
4 DEALING WITH HISTORY. AND AS WE LOOK AT THE CHANGES
5 WE'RE MAKING IN TERMS OF CIRM 2.0, THIS IS
6 LEGITIMATELY ONE OF THEM. WHEN CIRM WAS STARTED TEN
7 YEARS AGO, THERE WERE VERY LITTLE TRAINING
8 OPPORTUNITIES FOR STEM CELL SCIENTISTS. WE DIDN'T
9 HAVE ENOUGH. AND AS WE FUNDED MORE RESEARCH, IT
10 BECAME MORE OBVIOUS THAT WE NEEDED MORE PEOPLE TO BE
11 INVOLVED IN IT. WELL, THAT PICTURE HAS CHANGED, AND
12 THE OPPORTUNITIES FOR TRAINING IN STEM CELL LAB WORK
13 ETC. HAVE INCREASED EXPONENTIALLY.

14 AND SO I WANT TO SUPPORT THE STAFF'S
15 RECOMMENDATION AND LOOK AT THE PROJECTS THAT WE'RE
16 FUNDING TO BE SURE THAT IT'S HAPPENING WITHIN THOSE
17 PROJECTS AS WE THINK IT WILL BE.

18 DR. BURTIS: I HAVE A QUESTION TO FOLLOW
19 UP. IF YOU COULD GO TO YOUR PREVIOUS SLIDE, WE MUST
20 HAVE DATA FOR 2014. THE NUMBER OF TRAINEES ON
21 RESEARCH GRANTS THAT MS. WINOKUR JUST MENTIONED
22 SEEMS TO HAVE DROPPED ABOUT 10 PERCENT FROM '11 TO
23 '12 AND ANOTHER 10 PERCENT FROM '12 TO '13 IS ON THE
24 DOWNWARD PROJECTION. WE MUST HAVE DATA FOR '14. IS
25 THIS JUST AN ABERRATION, OR IS THERE A DOWNWARD

BARRISTERS' REPORTING SERVICE

1 TREND IN THE NUMBER OF GRADUATE STUDENTS FUNDED ON
2 RESEARCH GRANTS?

3 DR. YAFFE: I DON'T KNOW. WE DON'T HAVE
4 COMPLETE DATA FOR 2014. THAT'S THE REASON IT WASN'T
5 INCLUDED BECAUSE THIS DATA IS BASED IN THE PROGRESS
6 REPORTS FOR WORK DURING THOSE YEARS, AND NOT ALL THE
7 PROGRESS REPORTS FOR THE WORK DURING 2014 HAVE BEEN
8 RECEIVED YET BECAUSE THE GRANT YEAR DOES NOT
9 NECESSARILY CORRELATE WITH THE CALENDAR YEAR. SO I
10 COULDN'T TELL YOU WHETHER THAT'S --

11 DR. BURTIS: IS THERE ANY REASON TO THINK
12 THIS IS A TREND?

13 DR. MILLS: SO BASICALLY THE NUMBER OF
14 STUDENTS WE HAVE TRAINED IN ANY OF THESE BASIC
15 DISCOVERY OR TRANSLATIONAL GRANTS IS SORT OF A
16 LAGGING INDICATOR OF WHAT THE BOARD APPROVED THE
17 YEAR BEFORE AND THE YEAR BEFORE THAT. AND SO IN
18 2012 THERE WAS A DECLINE COMPARED TO 2011 ON WHAT
19 THE BOARD HAD APPROVED AND, THEREFORE, THE AMOUNT OF
20 STUDENTS THAT SHOW UP.

21 I THINK THE MORE IMPORTANT ISSUE HERE IS
22 IT'S A COMPLETELY CONTROLLABLE NUMBER. WE CAN HAVE
23 THE RED BARS GO UP IF WE WANT BY SIMPLY ALLOCATING
24 MORE FUNDING TOWARDS RESEARCH GRANTS. WE CAN HAVE
25 THAT NUMBER. TODAY, JUST AS AN EXAMPLE, WITH THE 20

BARRISTERS' REPORTING SERVICE

1 PROGRAMS THAT WERE FUNDED UNDER TOOLS AND
2 TECHNOLOGIES, OUT OF THAT PROGRAM THERE ARE 22
3 PEOPLE THAT WILL BE TRAINED UNDER THAT AT A COST TO
4 CIRM OF ABOUT \$2.3 MILLION.

5 CHAIRMAN THOMAS: DR. MELMED.

6 DR. MELMED: WERE THE PROJECTED NUMBERS
7 THAT YOU SHOWED US IN YOUR BUDGET PROJECTIONS, DID
8 THEY ASSUME THAT THIS WOULD BE PASSED TODAY OR WAS
9 THAT IRRESPECTIVE?

10 DR. MILLS: NONE OF THE NUMBERS I SHOWED
11 IN MY BUDGET REPORT WERE END OF FISCAL SECOND
12 QUARTER.

13 DR. MELMED: YOUR PROJECTION FOR 2020,
14 DOES THAT ASSUME THAT WE WOULD OR WOULD NOT BE
15 CONTINUING TRAINING GRANTS?

16 DR. MILLS: IT DOESN'T ASSUME ANY
17 PROJECT-SPECIFIC SPENDING, ONLY A SPEND RATE OF A
18 HUNDRED NINETY MILLION.

19 CHAIRMAN THOMAS: MR. JUELSGAARD.

20 DR. JUELSGAARD: THIS QUESTION IS A
21 COROLLARY TO DR. BURTIS' QUESTION. SO MY QUESTION
22 IS OBVIOUSLY PEOPLE ARE STILL SPENDING MONEY ON
23 TRAINING GRANTS AT INSTITUTIONS. HOW MUCH MONEY DO
24 WE KNOW OR DO WE KNOW HOW MUCH MONEY IS YET UNSPENT
25 IN ALL THE TRAINING GRANTS THAT HAVE BEEN MADE? DO

BARRISTERS' REPORTING SERVICE

1 WE KNOW HOW MUCH YET TO BE USED FUNDING THERE IS?

2 DR. YAFFE: I DON'T THINK WE KNOW THAT,
3 BUT THERE'S GENERALLY VERY LITTLE MONEY LEFT OVER.
4 MOST OF THE TRAINING GRANTS WILL END THIS YEAR IN
5 2015, ALMOST ALL OF THEM, I THINK. AND I'M LOOKING
6 OVER TOWARDS SOME OF OUR FINANCIAL PEOPLE WHETHER
7 THERE'S SOME KNOWLEDGE OF MONEY THAT'S GOING TO BE
8 CARRIED OVER.

9 IN GENERAL, WHEN PROGRAMS IN THE TRAINING
10 GRANTS HAVE HAD EXCESS FUNDS, WE'VE ALLOWED THEM TO
11 ADD TRAINING SLOTS TO USE THOSE FUNDS FOR THE
12 PURPOSE THEY WERE ORIGINALLY ENVISIONED TO TRAIN
13 ADDITIONAL SCIENTISTS. SO THEY SHOULD BE USING
14 THOSE YEAR TO YEAR.

15 CHAIRMAN THOMAS: YES. GABE, DO YOU HAVE
16 A POINT TO MAKE ON THIS ONE?

17 MR. THOMPSON: YES. GABRIEL THOMPSON,
18 DIRECTOR OF GRANTS MANAGEMENT. SO THE LAST TRAINEES
19 ARE BEING APPOINTED THIS YEAR, AND THEIR APPOINTMENT
20 PERIODS COULD LAST UP TO THROUGH EARLY NEXT YEAR.
21 SO WE'RE IN THE FINAL YEAR-ISH OF THE TRAINING
22 PROGRAM.

23 DR. JUELSGAARD: WITH THAT ANSWER, THEN,
24 I'M GIVEN TO UNDERSTAND THAT THESE LAST TRAINEES
25 WILL USE UP ALL THE MONEY THAT WE HAVE APPROPRIATED

BARRISTERS' REPORTING SERVICE

1 FOR THESE PROGRAMS; IS THAT RIGHT?

2 MR. THOMPSON: THAT'S RIGHT UNLESS THERE'S
3 ANY APPOINTMENTS THAT HAVE NOT BEEN FILLED, WE'LL
4 GET SOME MONEY BACK, BUT, GENERALLY, YES, THEY'LL
5 SPEND ALL THE MONEY.

6 CHAIRMAN THOMAS: OTHER COMMENTS OR
7 QUESTIONS FROM MEMBERS OF THE BOARD? WE'LL GET TO
8 THE PUBLIC IN ONE SECOND. I THINK WE NEED TO HAVE,
9 MR. HARRISON, BEFORE WE GET TO THAT, WE NEED TO HAVE
10 A MOTION? SO I THINK THE MOTION WOULD BE TO ACCEPT
11 STAFF'S RECOMMENDATION NOT TO PRESENT A CONCEPT
12 PLAN. MR. HARRISON, IS THAT THE CORRECT WAY OF
13 PHRASING? SO DO I HEAR A MOTION TO THAT EFFECT?

14 DR. JUELSGAARD: SO MOVED.

15 CHAIRMAN THOMAS: MR. JUELSGAARD. IS
16 THERE A SECOND?

17 DR. LAPORTE: SECOND.

18 CHAIRMAN THOMAS: SECONDED BY DR. LAPORTE.
19 OKAY. NOW COMMENTS FROM MEMBERS OF THE PUBLIC.

20 DR. LORING: HELLO, MY NAME IS JEANNE
21 LORING. I'M FROM SCRIPPS RESEARCH INSTITUTE IN LA
22 JOLLA. AND I WANTED TO TALK ABOUT THE DIFFERENCE
23 BETWEEN A POST-DOC WHO'S FUNDED ON A TRAINING GRANT
24 AND A POST-DOC WHO'S FUNDED ON A RESEARCH GRANT.

25 I'VE HAD A COUPLE OF PEOPLE IN MY LAB, TWO

BARRISTERS' REPORTING SERVICE

1 POST-DOCS, WHO WOULD NOT HAVE BEEN IN MY LAB
2 OTHERWISE. AND ONE OF THEM IN PARTICULAR, I THINK,
3 IS INTERESTING. HER NAME IS INBAR BIN NUNN
4 (PHONETIC). SHE CAME FROM ISRAEL. I COULD GET
5 FUNDING FOR HER THROUGH A TRAINING GRANT. HER
6 PROJECT IN MY LAB, ALONG WITH HELPING WITH A LOT OF
7 THE HUMAN REPROGRAMMING EXPERIMENTS, WAS TO
8 REPROGRAM THE FIRST ENDANGERED SPECIES IN A
9 COLLABORATION WITH THE ZOO. AND USING THE MONEY
10 THAT SHE HAD FOR HER TRAINING GRANT, SHE WAS ABLE TO
11 STEP OUTSIDE OF THE MAINSTREAM AND SHOW THAT WE
12 COULD MAKE IPS CELLS FROM THE NORTHERN WHITE RHINO,
13 OF WHICH THERE ARE ONLY FIVE LEFT IN THE WORLD. SO
14 THIS IS AN EXAMPLE OF WHAT A TRAINING GRANT CAN DO
15 TO STEP SLIGHTLY OUTSIDE THE MAINSTREAM.

16 AND THEN MY OTHER POST-DOC -- AND SHE IS
17 NOW, HOWEVER, SHE IS NOT DOING THAT ANYMORE. SHE'S
18 NOW THE HEAD OF IPS CELL TECHNOLOGY AT LANZA.

19 MY OTHER POST-DOC WHO CAME FROM SPAIN
20 WORKED ON A VERY CLASSIC HUMAN EMBRYONIC STEM CELL
21 PROJECT, AND HE IS NOW THE HEAD OF INTERNATIONAL
22 STEM CELLS PARKINSON'S DISEASE THERAPY PROGRAM.

23 SO THE DIFFERENCE BETWEEN A POST-DOC FROM
24 A GRANT AND A POST-DOC ON A TRAINING GRANT IS THAT
25 THERE'S A VERY PRACTICAL ONE AS WELL. THE FREEDOM,

BARRISTERS' REPORTING SERVICE

1 OF COURSE, WAS VERY VALUABLE TO ME BECAUSE I WAS ON
2 A TRAINING GRANT THAT ALLOWED ME TO CHANGE ADVISORS
3 IF I NEEDED TO BECAUSE I HAD MY OWN FUNDING. AND
4 THAT WAS SOMETHING THAT I DON'T THINK I COULD HAVE
5 POSSIBLY DONE UNDER OTHER CIRCUMSTANCES.

6 A POST-DOC ON A TRAINING GRANT IS MORE
7 LIKE A TECHNICIAN. THEY'RE REQUIRED TO DO WHAT IT
8 IS THAT THEY'RE ASKED TO DO BY THEIR PI. THEY ALSO
9 COST IN MY LAB TWICE AS MUCH. THERE IS NO OVERHEAD
10 ON TRAINING GRANTS. THERE IS, HOWEVER, AT SCRIPPS,
11 SALK, AND SOME OTHER INSTITUTIONS APPROXIMATELY 90
12 PERCENT OVERHEAD ON OUR RESEARCH GRANTS. THAT MEANS
13 THAT THE \$250,000 THAT WAS USED TO TRAIN EACH
14 INDIVIDUAL, IF WE HAD TRAINED THEM ON RESEARCH
15 GRANTS, THEY WOULD HAVE COST \$400,000 OR MORE.

16 SO JUST FROM A PRACTICAL PERSPECTIVE, I
17 WOULD LIKE TO ARGUE THAT FOR CIRM TO GET THE MOST
18 OUT OF THE REMAINING FUNDS, THAT THEY SHOULD
19 CONTINUE TO FUND SOME KIND OF TRAINING PROGRAM.
20 THANK YOU.

21 DR. CHIU: ARLENE CHIU, CITY OF HOPE.
22 AFTER I MAKE MY COMMENT, I'M SURE I'M NOT GOING TO
23 BE VERY POPULAR WITH MY FRIENDS ON THIS SIDE. BUT I
24 JUST WANT TO SAY THAT THE TRAINING PROGRAM IS A
25 VICTIM OF ITS GREAT SUCCESS. HOWEVER, I DO AGREE

BARRISTERS' REPORTING SERVICE

1 THAT IT'S TIME TO RETHINK. AND I AGREE WITH CIRM
2 STAFF, THAT THE SUCCESS OF THE TRAINING PROGRAM HAS
3 NOW REMOVED ITS NECESSITY FROM THE TIME TEN YEARS
4 AGO WHEN NOBODY WANTED TO PUT THEIR BEST POST-DOC ON
5 A STEM CELL GRANT BECAUSE THEY SAW NO FUTURE IN THE
6 FIELD. AND IN TEN YEARS THIS HAS BECOME VERY
7 DIFFERENT.

8 I DO NOTICE THAT THERE ARE STILL SOME
9 AREAS WHERE TRAINING, PARTICULARLY FOR THE WORKFORCE
10 IN CALIFORNIA, HAS SOME GAPS. AND IT MAY BE
11 SOMETHING THAT CIRM MIGHT WANT TO CONSIDER IN
12 PROVIDING THIS TYPE OF TRAINING FOR THEIR POST-DOCS
13 AND MEDICAL FELLOWS. AND THAT'S IN THE AREA OF
14 TRANSLATIONAL RESEARCH WHERE THEY LEARN ABOUT WHAT
15 IT TAKES TO GET TO THE FDA, WHERE THEY UNDERSTAND
16 ABOUT WRITING A CLINICAL PROTOCOL, WHERE THEY
17 UNDERSTAND WHAT IT TAKES TO BRING A PRODUCT TO THE
18 MARKET, WHERE THEY UNDERSTAND MANUFACTURING AND THE
19 IMPORTANCE OF THESE PIECES FROM DISCOVERY RESEARCH,
20 WHICH IS NOW FUNDED VERY WELL BY THE RESEARCH
21 GRANTS, INTO A CLINICAL PRODUCT.

22 I DON'T HAVE ANY IDEAS TO OFFER, BUT I
23 JUST WONDER IF THERE COULD BE A DIFFERENT FOCUS OF A
24 TRAINING PROGRAM THAT WOULD ALLOW OUR YOUNG PEOPLE
25 TO LEARN THESE ASPECTS ALONG THE TRANSLATIONAL

BARRISTERS' REPORTING SERVICE

1 PIPELINE THAT WILL SERVE THEM WELL IN GROWING THE
2 WORKFORCE IN THE STATE OF CALIFORNIA. I CAN SEE IN
3 TODAY'S AGENDA THAT YOU WILL BE RECONSIDERING AND
4 PERHAPS PROMOTING THE CREATIVITY AWARDS AND THE
5 BRIDGES AWARDS, AND THOSE HAVE QUITE DIFFERENT
6 GOALS. FOR THE TRAINING PROGRAM, YOU HAVE NOW GROWN
7 A WONDERFUL CADRE OF YOUNG STEM CELL SCIENTISTS THAT
8 MOVE FORWARD WITHIN THE STATE OR ELSEWHERE, BUT THEY
9 STILL LACK WITHIN THEIR TRAINING PROGRAM HOW TO DO
10 THESE OTHER ELEMENTS, HOW TO ACQUIRE THESE SKILL
11 SETS. SO I WOULD LIKE TO SUGGEST THAT FOR YOUR
12 CONSIDERATION. THANK YOU.

13 MR. REED: I INTERVIEWED THE FIRST
14 RECIPIENT OF A CIRM GRANT, AND HER NAME SLIPS MY
15 MIND RIGHT NOW, BUT SHE IS GAINFULLY EMPLOYED TODAY.
16 SHE IS WORKING FOR ONE OF THE MAIN BIOMEDICAL
17 CONCERNS IN CALIFORNIA. AND SHE SAYS THAT THE
18 PIVOTAL GRANT IN HER LIFE WAS THE TRAINING GRANT.
19 IF YOU TAKE CARE OF THE BASE, THE TOP WILL TAKE CARE
20 OF ITSELF.

21 IT'S BEEN SAID THERE'S A CONCERN THERE
22 MIGHT NOT BE ENOUGH GOOD RESEARCH OUT THERE TO
23 JUSTIFY CONTINUING THE CURRENT LEVEL OF SPENDING.
24 WELL, IF WE CUT OFF THE TRAINING, WE MAY BE MAKING A
25 SELF-FULFILLING PROPHECY, THAT WE HAVE TO PROVIDE

BARRISTERS' REPORTING SERVICE

1 GOOD TRAINING GRANTS. RESTRUCTURE, FINE. BUT IF WE
2 TAKE CARE OF THE BASE, THE TOP WILL TAKE CARE OF
3 ITSELF. THANK YOU.

4 CHAIRMAN THOMAS: THANK YOU, ALL THREE
5 SPEAKERS. ANY OTHER COMMENTS FROM MEMBERS OF THE
6 PUBLIC? HEARING NONE, ANY FURTHER COMMENTARY BY
7 MEMBERS OF THE BOARD?

8 DR. JUELSGAARD: JUST A POINT OF
9 CLARIFICATION FOR MR. HARRISON. SO AS I UNDERSTOOD
10 THESE DISCUSSIONS, ALL BOARD MEMBERS CAN VOTE ON
11 WHETHER WE PROCEED WITH THE RECOMMENDATION OF THE
12 STAFF OR NOT. BUT LET'S ASSUME FOR A MOMENT THAT
13 THE DECISION WAS NOT TO PURSUE WHAT THE STAFF
14 RECOMMENDS, BUT RATHER TO AGREE TO HAVE ANOTHER
15 TRAINING PROGRAM ROUND. AND WHEN IT COMES, THEN, TO
16 SPECIFIC VOTES ON TRAINING PROGRAM FUNDING, THEN THE
17 GROUP GETS NARROWED TO A MUCH SMALLER GROUP, WHICH
18 MAKES FOR AN INTERESTING SITUATION BECAUSE THERE MAY
19 WELL BE PEOPLE IN THIS ROOM, MYSELF INCLUDED, WHO
20 WOULD VOTE FOR NO MORE TRAINING GRANTS, PERIOD, EVEN
21 THOUGH WE WOULD HAVE A DIFFERENT VOTE IN THE LARGER
22 SEGMENT.

23 SO ANYWAY, IT'S JUST A VERY ODD SITUATION
24 WHERE THE GROUP COULD AGREE TO DO SOMETHING, BUT A
25 SMALLER GROUP OF PEOPLE WHO REALLY HAVE THE

BARRISTERS' REPORTING SERVICE

1 DECISION-MAKING POWER WHEN IT COMES DOWN TO THE
2 SPECIFIC PROPOSAL MAY SEE IT QUITE DIFFERENTLY. I
3 KNOW WE HAD THIS HAPPEN ONCE BEFORE, AND I JUST WANT
4 TO REMIND PEOPLE. THE ARGUMENT WAS, WELL, WE
5 AGREED -- WE APPROVED THE CONCEPT. WELL, THAT'S
6 FINE; BUT WHEN IT COMES DOWN TO ACTUALLY SPENDING
7 THE MONEY, IT'S A LITTLE DIFFERENT SITUATION.

8 MR. HARRISON: YOU ARE CORRECT. IT WOULD
9 ULTIMATELY BE TWO DIFFERENT POOLS OF VOTERS. IF THE
10 BOARD WERE TO REJECT THE CIRM TEAM RECOMMENDATION,
11 WE WOULD COME BACK TO YOU WITH A CONCEPT PROPOSAL
12 FOR A TRAINING GRANT PROGRAM. ALL OF YOU COULD
13 PARTICIPATE IN THE VOTE ON THAT PROPOSAL; BUT WITH
14 RESPECT TO THE INDIVIDUAL APPLICATIONS THAT THEN ARE
15 SUBMITTED IN RESPONSE TO THE RFA, THE GWG'S
16 RECOMMENDATIONS WOULD GO TO THE APPLICATION REVIEW
17 SUBCOMMITTEE FOR CONSIDERATION.

18 CHAIRMAN THOMAS: ANY OTHER COMMENTS FROM
19 MEMBERS OF THE BOARD? MR. HARRISON, CAN YOU PLEASE
20 RESTATE THE MOTION?

21 MR. HARRISON: THE MOTION IS TO ACCEPT THE
22 CIRM TEAM RECOMMENDATION NOT TO PRESENT A CONCEPT
23 PROPOSAL FOR A NEW GRADUATE/POSTGRADUATE TRAINING
24 GRANT PROGRAM.

25 CHAIRMAN THOMAS: MARIA, WILL YOU PLEASE

BARRISTERS' REPORTING SERVICE

1 CALL THE ROLL.
2 MS. BONNEVILLE: DAVID BRENNER. KEN
3 BURTIS.
4 DR. BURTIS: YES.
5 MS. BONNEVILLE: ANNE-MARIE DULIEGE.
6 DR. DULIEGE: YES.
7 MS. BONNEVILLE: ELIZABETH FINI.
8 DR. FINI: YES.
9 MS. BONNEVILLE: MICHAEL FRIEDMAN. JUDY
10 GASSON.
11 DR. GASSON: YES.
12 MS. BONNEVILLE: DAVID HIGGINS.
13 DR. HIGGINS: YES.
14 MS. BONNEVILLE: STEPHEN JUELSGAARD.
15 MR. JUELSGAARD: YES.
16 MS. BONNEVILLE: KATHY LAPORTE.
17 DR. LAPORTE: YES.
18 MS. BONNEVILLE: JACOB LEVIN. BERT LUBIN.
19 SHLOMO MELMED.
20 DR. MELMED: YES.
21 MS. BONNEVILLE: LAUREN MILLER.
22 MS. MILLER: NO.
23 MS. BONNEVILLE: LLOYD MINOR.
24 DR. MINOR: NO.
25 MS. BONNEVILLE: JOE PANETTA.

BARRISTERS' REPORTING SERVICE

1 MR. PANETTA: NO.
2 MS. BONNEVILLE: FRANCISCO PRIETO.
3 DR. PRIETO: AYE.
4 MS. BONNEVILLE: ROBERT QUINT.
5 DR. QUINT: YES.
6 MS. BONNEVILLE: AL ROWLETT. JEFF SHEEHY.
7 MR. SHEEHY: NO.
8 MS. BONNEVILLE: OSWALD STEWARD. JONATHAN
9 THOMAS.
10 CHAIRMAN THOMAS: YES.
11 MS. BONNEVILLE: ART TORRES.
12 MR. TORRES: AYE.
13 MS. BONNEVILLE: CARL WARE.
14 DR. WARE: NO.
15 MS. BONNEVILLE: DONNA WESTON. DIANE
16 WINOKUR.
17 MS. WINOKUR: YES.
18 MS. BONNEVILLE: BRUCE WINTROUB.
19 DR. WINTROUB: YES.
20 MR. HARRISON: MOTION CARRIES 14 TO 5.
21 CHAIRMAN THOMAS: THANK YOU, MR. HARRISON.
22 I BELIEVE, MARIA, SHALL WE GRAB LUNCH RIGHT NOW?
23 MS. BONNEVILLE: YES. AND YOU HAVE THE
24 SPOTLIGHT AS WELL. SO IF EVERYONE COULD GRAB THEIR
25 LUNCH AND COME BACK TO THEIR SEATS.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN THOMAS: SO WE SHOULD DO THE
2 SPOTLIGHT FIRST AND THEN --

3 MS. BONNEVILLE: GRAB LUNCH, COME BACK FOR
4 THE SPOTLIGHT, AND THEN WE CAN DO ANYTHING YOU'D
5 LIKE.

6 CHAIRMAN THOMAS: THANK YOU. ALL RIGHT.
7 EVERYBODY PLEASE BRING YOUR LUNCH BACK TO YOUR SEAT
8 AND WE WILL PROCEED WITH THE SPOTLIGHT FORTHWITH.
9 THANK YOU.

10 (A RECESS WAS TAKEN.)

11 (DURING LUNCH THE SPOTLIGHT WAS
12 HEARD, BUT NOT REPORTED NOR HEREIN TRANSCRIBED.)

13 CHAIRMAN THOMAS: WE ARE NOW GOING TO
14 PROCEED TO LET'S START WITH ITEM 11, CONSIDERATION
15 OF AUGMENTATION OF THE CREATIVITY AWARDS. GABE.

16 MR. THOMPSON: HELLO, CHAIRMAN THOMAS,
17 MEMBERS OF THE BOARD, CIRM TEAM, AND MEMBERS OF THE
18 PUBLIC. I'M GABRIEL THOMPSON, DIRECTOR OF GRANTS
19 MANAGEMENT AT CIRM, AND I'M HERE TO DISCUSS THE
20 AGENDA ITEM BEFORE YOU. THERE'S NO SLIDES ON THIS.
21 IT'S JUST A MEMO HERE.

22 IN THE OCTOBER BOARD MEETING, THE BOARD
23 APPROVED FUNDING FOR AN ADDITIONAL YEAR FOR THE
24 CREATIVITY PROGRAMS. AT THAT TIME THE BOARD
25 AUTHORIZED \$550,000 FOR THE PROGRAM. UPON FURTHER

BARRISTERS' REPORTING SERVICE

1 REVIEWING THOSE NUMBERS, WE REALIZE THAT TO FULLY
2 FUND THE CREATIVITY PROGRAM FOR AN ADDITIONAL YEAR,
3 IT WOULD REQUIRE AN ADDITIONAL \$20,000 IN BOARD
4 AUTHORIZATION FOR THAT PROGRAM.

5 SO WE ARE ASKING FOR THAT AUTHORIZATION AT
6 THIS TIME SO THAT WE CAN THEN ISSUE AMENDMENTS TO
7 THOSE AWARDS TO PROVIDE ADDITIONAL FUNDING.

8 CHAIRMAN THOMAS: DO I HEAR A MOTION TO
9 THAT EFFECT?

10 MR. SHEEHY: SO MOVED.

11 CHAIRMAN THOMAS: MR. SHEEHY. SECONDED
12 BY --

13 MR. HARRISON: I'M SORRY TO INTERRUPT.
14 BECAUSE THESE RELATE TO EXISTING AWARDS, WE HAVE A
15 LIMITED POOL OF MEMBERS WHO CAN PARTICIPATE. IF YOU
16 HAVE AN ASSOCIATION WITH AN INSTITUTION THAT HAS A
17 CREATIVITY AWARD, YOU MAY NOT PARTICIPATE.

18 CHAIRMAN THOMAS: OKAY.

19 DR. DULIEGE: ASK A CLARIFICATION
20 QUESTION. ARE WE VOTING FOR A TOTAL AMOUNT OF
21 APPROXIMATELY \$20,000, OR WILL THAT APPLY TO SEVERAL
22 GROUPS AND, HENCE, IT WOULD BE A LARGER AMOUNT?

23 MR. THOMPSON: IT'S AN ADDITIONAL \$20,000
24 THAT WILL BRING THE TOTAL TO ABOUT 570,000 FOR THE
25 NINE PROGRAMS.

BARRISTERS' REPORTING SERVICE

1 DR. DULIEGE: THE TOTAL FOR THE NINE
2 PROGRAMS?

3 CHAIRMAN THOMAS: OKAY. SO IT WAS MOVED
4 BY MR. SHEEHY, WHO IS NOT ELIGIBLE. MR. JUELSGAARD
5 MOVES. SENATOR TORRES SECONDED. OKAY.

6 IS THERE ANY DISCUSSION ON THIS TOPIC,
7 FURTHER DISCUSSION? ANY COMMENTS FROM MEMBERS OF
8 THE PUBLIC? MR. HARRISON, DO WE NEED A ROLL CALL
9 VOTE ON THIS?

10 MR. HARRISON: YES.

11 CHAIRMAN THOMAS: MARIA, PLEASE CALL THE
12 ROLL.

13 MS. BONNEVILLE: LAUREN IS ALLOWED TO VOTE
14 ON THIS. I JUST WANT TO GRAB HER FROM OUTSIDE SO
15 SHE CAN BE HERE FOR THE VOTE.

16 (PAUSE IN PROCEEDINGS.)

17 MS. BONNEVILLE: JONATHAN THOMAS.

18 CHAIRMAN THOMAS: YES.

19 MS. BONNEVILLE: ART TORRES.

20 MR. TORRES: AYE.

21 MS. BONNEVILLE: STEVE JUELSGAARD.

22 MR. JUELSGAARD: YES.

23 MS. BONNEVILLE: ROBERT QUINT.

24 DR. QUINT: YES.

25 MS. BONNEVILLE: DIANE WINOKUR.

BARRISTERS' REPORTING SERVICE

1 MS. WINOKUR: YES.

2 MS. BONNEVILLE: CARL WARE.

3 DR. WARE: YES.

4 MS. BONNEVILLE: KATHY LAPORTE.

5 DR. LAPORTE: YES.

6 MS. BONNEVILLE: DAVID HIGGINS.

7 DR. HIGGINS: YES.

8 MS. BONNEVILLE: JOE PANETTA.

9 MR. PANETTA: YES.

10 MR. HARRISON: WE CAN MOVE ON TO THE NEXT
11 ITEM, CHAIR. WE'LL HOLD THE ROLL OPEN UNTIL MS.
12 MILLER RETURNS.

13 CHAIRMAN THOMAS: THANK YOU, MR. HARRISON.
14 WE WILL GO TO -- GABE, WHY DON'T YOU STAY UP
15 THERE -- ITEM NO. 8, CONSIDERATION OF ADOPTION OF
16 THE INTERIM GRANTS ADMINISTRATION POLICIES OR GAP
17 FOR CLINICAL LEVEL PROJECTS.

18 MR. THOMPSON: THANK YOU. SO I'M HERE TO
19 PRESENT THE INTERIM GRANTS ADMINISTRATION POLICY FOR
20 OUR CLINICAL STAGE PROJECTS. AS A CLARIFICATION TO
21 THE AGENDA ITEM, WE ARE NOT ASKING THE BOARD TO
22 ADOPT THESE REGULATIONS AT THIS TIME. WE WILL
23 PROVIDE AN OVERVIEW TODAY AND CAN TAKE QUESTIONS
24 NOW, BUT OUR INTENTIONS ARE TO FURTHER REFINE THE
25 REGULATION AND THEN BRING IT BACK TO THE SCIENCE

BARRISTERS' REPORTING SERVICE

1 SUBCOMMITTEE AND THEN BACK TO THE BOARD FOR FULL
2 ADOPTION IN MARCH. SO, AGAIN, THESE WILL BE INTERIM
3 REGULATIONS.

4 GIVEN THE TIME IT TAKES TO GET REGULATIONS
5 ADOPTED FORMALLY BY THE OFFICE OF ADMINISTRATIVE
6 LAW, AND OUR NEED TO HAVE REGULATIONS IN PLACE TO
7 FUND OUR NEW AWARDS UNDER CIRM 2.0, WE'RE ASKING TO
8 ADOPT INTERIM REGULATIONS. WHAT THAT WILL DO IS
9 ONCE THESE REGULATIONS ARE FULLY ADOPTED, IT WILL
10 PROVIDE CIRM 270 DAYS TO THEN TAKE THE REGULATIONS
11 THROUGH THE FORMAL OAL PROCESS TO GET FORMALLY
12 ADOPTED.

13 SO GENERALLY OUR APPROACH IN ADOPTING
14 THESE INTERIM REGULATIONS ARE TO TAKE ONLY THOSE
15 PARTS OF THE CURRENT GRANTS ADMINISTRATION POLICY
16 THAT ARE ALIGNED WITH OUR NEW PROCESS. SO WE LOOKED
17 AT WHAT OUR CURRENT GAP SAYS AND ONLY BROUGHT THOSE
18 REGULATIONS OVER WHICH MAKE SENSE WITH OUR NEW WAY
19 OF DOING BUSINESS.

20 AND THEN ON TOP OF THAT WE'VE ADDED NEW
21 COMPONENTS THAT SUPPORT THE NEW WAY OF APPLYING,
22 REVIEWING, AND CONTRACTING UNDER CIRM 2.0.

23 NEXT, WE WANTED TO INCLUDE LANGUAGE
24 PREVIOUSLY DEFINED ONLY IN OUR NOTICE OF GRANT
25 AWARDS AND PUT ALL OF THOSE TERMS AND CONDITIONS IN

BARRISTERS' REPORTING SERVICE

1 THE GRANTS ADMINISTRATION POLICY THAT ARE NOT
2 SPECIFIC TO ANY ONE PROJECT AND GET THEM INTO THE
3 GAP SO THAT APPLICANTS KNOW WHAT THEY'RE SIGNING UP
4 FOR WHEN THEY APPLY TO CIRM FOR FUNDING. AND THIS
5 WILL ALSO HELP US THEN CONTRACT QUICKER. ONCE THE
6 BOARD APPROVES, WE'LL HAVE 45 DAYS TO START THESE
7 PROJECTS. WE WANT TO HAVE ALL THOSE TERMS AND
8 CONDITIONS LAID OUT UP FRONT SO THAT WE CAN VERY
9 EFFICIENTLY GET IN CONTRACT WITH OUR APPROVED
10 PROJECTS.

11 FINALLY, WE'RE EDITING ALL THE LANGUAGE
12 FOR CLARITY AND SIMPLICITY.

13 SO TO GO OVER A FEW OF THE MAIN FEATURES
14 OF THE NEW INTERIM REGULATIONS, THE REGULATIONS NOW
15 DEFINE OPERATIONAL MILESTONES. THOSE ARE SIMPLY
16 DEFINED AS AN OBJECTIVE MEASURE OF PROJECT PROGRESS.
17 AND THEN THE REGULATIONS DESCRIBE THE IMPACT ON
18 DISBURSEMENTS AND CONSEQUENCES FOR DELAYS WHEN
19 OPERATIONAL MILESTONES ARE EITHER MET OR NOT MET.
20 SO OUR PLAN IS TO, AS THE PRESIDENT HAS STATED
21 PREVIOUSLY, TO PROVIDE FUNDING, TO PROVIDE A
22 DISBURSEMENT TO ACHIEVE EACH OPERATIONAL MILESTONE;
23 AND THEN UPON ACHIEVEMENT OF THAT OPERATIONAL
24 MILESTONE, TO PROVIDE THE NEXT DISBURSEMENT ALL THE
25 WAY THROUGH THE END OF THE PROJECT.

BARRISTERS' REPORTING SERVICE

1 NEXT, WE DEFINE WHAT A SUSPENSION EVENT IS
2 AND THE CONSEQUENCES FOR THOSE EVENTS OCCURRING. WE
3 ALSO DESCRIBE THE NEW BUDGET REVIEW PROCESS. SO WE
4 DESCRIBE HOW THE APPLICATIONS WILL BE REVIEWED BY
5 EXTERNAL BUDGET PROFESSIONALS AND DESCRIBE WHAT THAT
6 PROCESS IS AND WHAT HAPPENS DURING THAT BUDGET
7 REVIEW PROCESS. IF THOSE APPLICATIONS DON'T PASS
8 THAT BUDGET REVIEW PROCESS, THEY WILL BE ASKED TO
9 RESUBMIT THEIR APPLICATION WITH AN APPROPRIATE
10 BUDGET.

11 NEXT WE DESCRIBE THE 45 DAYS TO INITIATE
12 THE PROJECT. THIS IS ACTUALLY A REQUIREMENT OF
13 SUBMITTING THE APPLICATION TO CIRM. THEY HAVE TO
14 ACTUALLY CONFIRM THAT THEY'RE ABLE TO INITIATE WORK
15 ON THE PROJECT WITHIN 45 DAYS OF BOARD APPROVAL. SO
16 WE WANT TO HAVE THAT SPELLED OUT UP FRONT.

17 NEXT WE DESCRIBE THE CLINICAL ADVISORY
18 PANELS. SO WE WANT THE PROJECT TEAMS TO KNOW THAT
19 WE'LL BE ASSIGNING CLINICAL ADVISORY PANELS TO THEIR
20 PROJECTS TO MONITOR HOW THE PROJECTS ARE GOING.

21 NEXT WE ARE REMOVING PRIOR APPROVAL
22 REQUIREMENTS FOR CARRY-FORWARD, REBUDGETING, AND
23 NO-COST EXTENSIONS. SO THIS IS ACTUALLY A LOT OF
24 WHAT CIRM HAS DETERMINED IS VERY LOW VALUE, VERY
25 TIME-CONSUMING WORK THAT IS ACTUALLY NOT NECESSARY

BARRISTERS' REPORTING SERVICE

1 IN THE NEW WAY OF CONTRACTING. GIVEN HOW WE'RE
2 ACTUALLY DISBURSING FUNDS, WE ACTUALLY DON'T NEED TO
3 ACTUALLY SEE PRIOR APPROVAL REQUESTS FOR
4 CARRY-FORWARD AND REBUDGETING. WE ARE ONLY
5 PROVIDING DISBURSEMENTS TO GET TO THE OPERATIONAL
6 MILESTONES.

7 I JUST WANT TO POINT OUT WE ARE RETAINING
8 PRIOR APPROVAL REQUESTS FOR CHANGE OF RESEARCH SCOPE
9 OR RESEARCH ACTIVITIES. SO ANY SUBSTANTIAL ADDITION
10 OF NEW ACTIVITIES, SUBSTANTIAL DELETIONS, ANY
11 CHANGES IN THE PROTOCOL AMENDMENTS, THOSE KIND OF
12 THINGS WILL STILL ACTUALLY REQUIRE CIRM'S PRIOR
13 APPROVAL.

14 FINALLY, WE DESCRIBE, AS I THINK WAS
15 PREVIOUSLY DISCUSSED THIS MORNING, HOW POSTPROJECT
16 SAVINGS COULD BE USED IN CASES WHERE THEY HAPPEN.
17 WE DON'T EXPECT TOO MANY PROJECTS TO HAVE SAVINGS,
18 BUT WE DO PROVIDE A PROVISION THAT ALLOWS THEM, WITH
19 CIRM'S PRIOR APPROVAL, TO USE ANY POSTPROJECT
20 SAVINGS FOR CIRM MISSION-RELATED ACTIVITIES AND
21 CERTIFY THAT THEY WOULD USE THOSE FUNDS ACCORDING TO
22 OUR REGULATIONS.

23 SO THOSE ARE GENERALLY OUR MAJOR FEATURES.
24 I CAN TAKE QUESTIONS NOW. AGAIN, THESE WILL BE
25 INTERIM REGULATIONS. SO WE CAN CONTINUE TO GET

BARRISTERS' REPORTING SERVICE

1 FEEDBACK, BUT OUR INTENTIONS ARE TO FURTHER REFINE
2 AND BRING BACK TO THE BOARD IN MARCH.

3 CHAIRMAN THOMAS: ANY QUESTIONS OR
4 COMMENTS FROM MEMBERS OF THE BOARD?

5 DR. JUELSGAARD: A COUPLE QUESTIONS. SO
6 IN THE BUDGETING PROCESS WHICH WAS GOING TO BE DONE
7 UP FRONT, YOU TALK ABOUT USING MARKET-BASED
8 DETERMINATIONS OF WHAT'S AN APPROPRIATE PAYMENT FOR
9 ANY PARTICULAR ASPECT OF A PRECLINICAL OR CLINICAL
10 TRIAL. TALK TO ME A LITTLE BIT ABOUT THIS NOTION OF
11 MARKET BASED. AND IN PARTICULAR, GIVEN THAT A LOT
12 OF THIS ACTIVITY IS GOING TO TAKE PLACE IN
13 CALIFORNIA AS OPPOSED TO, LET'S SAY, SOME OTHER
14 STATE WITH A LOT LOWER COST OF LIVING AND LOWER
15 OVERHEAD, ETC., WHAT ARE GOING TO BE -- HOW ARE YOU
16 GOING TO FIGURE OUT WHAT THE MARKET IS THAT YOU ARE
17 GOING TO USE TO DETERMINE MARKET-BASED RATES?

18 MR. THOMPSON: RIGHT. SO WE WILL USE
19 MARKET-BASED RATES WHEN THERE ARE ESTABLISHED
20 MARKET-BASED RATES. WE UNDERSTAND THAT THERE MIGHT
21 BE ACTIVITIES WHERE THERE ISN'T AN ESTABLISHED
22 MARKET-BASED RATE. IN THOSE CASES WE'RE ASKING THE
23 APPLICANT TO PROVIDE AS STRONG JUSTIFICATION AS THEY
24 CAN TO PROVIDE ANY DATA THEY HAVE, INCLUDING QUOTES
25 AND MAYBE OTHER KINDS OF DATA FROM WITHIN THEIR

BARRISTERS' REPORTING SERVICE

1 ORGANIZATIONS THAT SUPPORT THE COSTS THEY'RE ASKING
2 FOR, SO IN THE ABSENCE OF MARKET-BASED RATES.

3 DR. JUELSGAARD: MY QUESTION IS NOT REALLY
4 HOW YOU APPLY THAT STUFF, BUT HOW DO YOU COME UP
5 WITH IT IN THE FIRST INSTANCE. WHAT IS THE MARKET
6 THAT YOU'RE LOOKING AT? FOR ME THAT'S ALWAYS THE
7 FIRST QUESTION. IF WE'RE GOING TO DO SOMETHING
8 BASED ON THE MARKET, WHAT IS THE MARKET?

9 DR. MILLS: SO WHAT WE'VE DONE IS THIS IS
10 SOMETHING WE'VE EXPORTED EXTERNALLY. WHAT WE'VE
11 DONE IS LOOK AT LARGE RESEARCH ORGANIZATIONS THAT
12 HAVE AS PART OF THEIR PRACTICE, THERE'S A CONSULTING
13 PORTION OF THEIR PRACTICE THAT EVALUATES THE SPEND
14 DIFFERENT COMPANIES AND INSTITUTIONS HAVE ON CERTAIN
15 THINGS AND HAVE DATABASES FOR ROUGHLY WHAT THOSE
16 ACTIVITIES ARE. AND SO WE HAVE MULTIPLE VENDORS
17 THAT ARE ABLE TO DO THAT PER PROJECT.

18 SO BASICALLY THE MARKET-BASED RATE AS THEY
19 CONSTRUCT IT IS WHAT CAN THEY GET IT DONE FOR WITHIN
20 THE SAME CONSTRAINTS? SO IF IT HAS TO BE DONE IN
21 CALIFORNIA, WHAT COULD THEY GET IT DONE FOR IN
22 CALIFORNIA? IF WE HAVE TO USE THIS PLACE OR THAT
23 PLACE, WHAT DO THEY DO?

24 I THINK THE IMPORTANT PART OF THIS HERE IS
25 THIS IS -- THE KIND OF REFINEMENT WE'RE TALKING

BARRISTERS' REPORTING SERVICE

1 ABOUT IS WE DON'T WANT TO HAVE A \$20 MILLION
2 APPLICATION FOR A \$13 MILLION PROJECT. WE'RE
3 LOOKING AT BIG STUFF, NOT IS IT 13.1 OR IS IT 13.2.
4 WE'RE REALLY LOOKING AT LARGE-SCALE ITEMS WHERE IN
5 THE PAST WE MAY HAVE BEEN VERY OFF ON NUMBERS.

6 DR. JUELSGAARD: I UNDERSTAND THE GOAL. I
7 JUST THINK IT'S GOING TO BE VERY IMPORTANT THAT THIS
8 ORGANIZATION OR THESE ORGANIZATIONS THAT YOU UTILIZE
9 REALLY DEFINE THE MARKET BECAUSE THE MARKET FOR
10 DOING STUFF IN CALIFORNIA IS DIFFERENT THAN THE
11 MARKET FOR DOING STUFF IN THE UNITED STATES, IS
12 DIFFERENT THAN THE MARKET FOR DOING STUFF GLOBALLY.
13 AND SO IT'S GOT TO BE REALLY TAILORED.

14 DR. MILLS: WE ACTUALLY BROUGHT THEM INTO
15 THE CIRM 2.0 DEVELOPMENT PROCESS VERY EARLY ON. SO
16 THEY'VE BEEN WORKING WITH US AS THEY'VE WATCHED THE
17 ENTIRETY OF IT UNFOLD. SO THEY UNDERSTAND THE ROLE
18 THEY PLAY AND WHERE THEY PLAY IN THE ENTIRE
19 BASICALLY DANCE-OUT OF THIS. SO THEY KNOW THAT A
20 GRANTEE MIGHT NOT HAVE THE OPTION TO GET THE WORK
21 DONE AT THE CHEAPEST PLACE IN THE WORLD OR IN THE
22 UNITED STATES AND MAY HAVE TO USE THE CONSTRAINTS
23 AND OPERATE UNDER THOSE.

24 DR. JUELSGAARD: ANOTHER QUESTION. SO
25 UNDER ALLOWABLE PROJECT COSTS AND ACTIVITIES, THE

BARRISTERS' REPORTING SERVICE

1 SECOND PARAGRAPH STARTS, SALARIES FOR ALL PERSONNEL
2 SHALL NOT EXCEED AN ANNUAL RATE OF \$230,000. IS
3 THAT A CURRENT REQUIREMENT THAT WE HAVE?

4 MR. THOMPSON: THAT IS. THAT'S THE SALARY
5 CAP THAT WE HAVE FOR ALL OF OUR AWARDS.

6 DR. JUELSGAARD: WOW. SO IF YOU WERE
7 GOING TO HAVE SOMEBODY WHO WAS REALLY A FIRST-RATE
8 PI, PRINCIPAL INVESTIGATOR, TO BE THE PRINCIPAL
9 INVESTIGATOR FOR A TRIAL, AND THEY WERE ONLY GOING
10 TO SPEND 10 PERCENT OF THEIR TIME ON IT, BUT IF THAT
11 PERSON MADE ANNUALLY MORE THAN \$230,000, THEY
12 WOULDN'T BE ELIGIBLE TO BE A PI. IS THAT HOW I
13 UNDERSTAND THAT?

14 MR. THOMPSON: NO. THEY'RE ELIGIBLE.
15 THEY COULD ONLY CHARGE CIRM FUNDS FOR 10 PERCENT OF
16 UP TO \$230,000 PER YEAR.

17 DR. JUELSGAARD: OKAY.

18 MR. THOMPSON: IT'S GENERALLY ADOPTED FROM
19 AN NIH SALARY CAP. IT STARTED AT \$200,000 MANY
20 YEARS AGO.

21 DR. JUELSGAARD: I GUESS IT'S THE WAY THAT
22 IT'S WORDED IN THERE. IT LOOKED LIKE A LIMITATION
23 ON THE AMOUNT OF SALARY THEY CAN EARN AS OPPOSED TO
24 HOW IT GETS CHARGED.

25 AND THEN LASTLY, THE NOTION OF CO-FUNDING.

BARRISTERS' REPORTING SERVICE

1 SO HAVING PROJECTS CO-FUNDED WHICH IS PART OF THIS
2 PROCESS, DO WE CURRENTLY REQUIRE THAT?

3 MR. THOMPSON: WE REQUIRE CO-FUNDING FOR
4 CERTAIN ANNOUNCEMENTS.

5 DR. JUELSGAARD: SO YOU'RE PROPOSING THAT
6 IT HAPPEN FOR EVERYBODY, RIGHT?

7 MR. THOMPSON: NO.

8 DR. MILLS: WE'RE TALKING ABOUT PA 1, 2,
9 AND 3. SO THE THREE THAT THIS APPLIES TO, STEVE,
10 ARE THE THREE MOST RECENT PROGRAM ANNOUNCEMENTS WE
11 PUT OUT. THOSE PROGRAM ANNOUNCEMENTS, DEPENDING ON
12 THE STAGE OF DEVELOPMENT, HAVE A SLIDING SCALE OF
13 CO-FUNDING. THEY ALSO DIFFERENTIATE ON WHETHER IT'S
14 INDUSTRY OR NONPROFIT ACADEMIC INSTITUTION. SO
15 NONPROFIT ACADEMIC INSTITUTIONS HAVE NO CO-FUNDING
16 REQUIREMENTS FOR THE PRECLINICAL AWARD AND ANYTHING
17 IN PHASE I. IN PHASE II THEY HAVE TO CO-FUND 40
18 PERCENT, IN PHASE III 50 PERCENT, AND FOR
19 SUPPLEMENTAL ACTIVITIES, 40 PERCENT.

20 INDUSTRY IS A CO-FUNDING REQUIREMENT OF 20
21 PERCENT FOR PRECLINICAL, 30 PERCENT FOR PHASE I, 40
22 PERCENT, AGAIN, FOR PHASE II. THEY LINE UP THERE
23 AND THERE'S INTENT. AND 50 PERCENT OF PHASE III.
24 BOTH OF THE PHASE IIIS HAVE THE RESTRICTION ON IT
25 THAT OUR PORTION WILL NOT EXCEED \$20 MILLION, ADD

BARRISTERS' REPORTING SERVICE

1 THEN 49 PERCENT, AGAIN, FOR SUPPLEMENTAL ACTIVITIES.

2 DR. JUELSGAARD: JUST A QUESTION RELATED
3 TO THAT, MY FINAL QUESTION. SO THE CO-FUNDING BY
4 ACADEMIC INSTITUTIONS, WHICH MAY SHOW UP A LITTLE
5 LATER IN THE PROCESS, IS THAT SOMETHING NEW, OR HAS
6 THAT ALWAYS BEEN AROUND?

7 DR. MILLS: SO THE CO-FUNDING OF VARIOUS
8 KINDS OF REQUIREMENTS COMES AND GOES BASED ON THE
9 SPECIFIC RFA THAT HAPPENS TO BE OUT. WE HAVEN'T HAD
10 A THIS-IS-WHAT-IT-IS-STANDARD AT CIRM. ON THESE
11 THREE PA'S, AGAIN, THESE ARE UP AND OUT AND AWARDED.
12 WE'VE ALREADY TAKEN THIS ACTION. THESE WILL BE WHAT
13 THEY ARE UNTIL THAT PA IS RESCINDED.

14 DR. JUELSGAARD: SO I UNDERSTAND THE
15 PROCESS. THIS DOCUMENT THAT WE WERE PROVIDED PRIOR
16 TO THIS MEETING, WHAT PURPOSE IS IT TO SERVE?

17 MR. HARRISON: SO, STEVE, WE CURRENTLY
18 HAVE AN EXISTING GRANTS ADMINISTRATION POLICY THAT
19 COVERS ALL OF OUR AWARDS. WHEN WE WERE DISCUSSING
20 CIRM 2.0, WE CAME TO THE CONCLUSION THAT WE REALLY
21 NEEDED TO OVERHAUL THE GRANTS ADMINISTRATION POLICY
22 FOR THE PURPOSES OF THE 2.0 AWARDS, THE THREE
23 PROGRAM ANNOUNCEMENTS THAT RANDY MENTIONED AND THAT
24 THE BOARD HAS APPROVED IN CONCEPT. AS A RESULT, WE
25 HAVE TAKEN PIECES OF THE EXISTING GRANTS

BARRISTERS' REPORTING SERVICE

1 ADMINISTRATION POLICY, ADDED NEW COMPONENTS IN ORDER
2 TO IMPLEMENT 2.0, AND PRESENTED IT TO YOU TODAY IN
3 DRAFT FORM AS THE POLICY THAT WILL GOVERN AWARDS
4 ISSUED PURSUANT TO THE THREE 2.0 PROGRAM
5 ANNOUNCEMENTS. AND WE WILL BRING THIS BACK TO YOU,
6 AFTER FINE-TUNING IT SOME MORE AND TALKING TO THE
7 SCIENCE SUBCOMMITTEE, AT THE BOARD'S MARCH MEETING.

8 DR. JUELSGAARD: SO IT'S LARGELY
9 INFORMATIONAL AT THIS POINT?

10 MR. HARRISON: CORRECT. SO WE'RE HAPPY TO
11 RECEIVE ANY AND ALL COMMENTS YOU HAVE.

12 CHAIRMAN THOMAS: ANY OTHER QUESTIONS OR
13 COMMENTS FROM MEMBERS OF THE BOARD? OKAY. SINCE
14 THIS IS INFORMATIONAL, IT DOES NOT REQUIRE A VOTE.

15 WE DO NEED TO GET BACK TO THE PREVIOUS
16 ITEM. MARIA, COULD YOU CALL THE ROLL FOR LAUREN,
17 PLEASE.

18 MS. BONNEVILLE: LAUREN, HOW DO YOU FEEL,
19 LAUREN?

20 MS. MILLER: I'M GREAT. YES.

21 MS. BONNEVILLE: THANK YOU.

22 MR. HARRISON: SO THAT MOTION CARRIES.

23 CHAIRMAN THOMAS: THANK YOU.

24 MR. TORRES: ON BEHALF OF ALL OF US AT
25 CIRM, I'D LIKE TO CONGRATULATE THE VERY PROUD PAPA

BARRISTERS' REPORTING SERVICE

1 JON THOMAS. HIS SON HAS JUST BEEN RECRUITED FOR THE
2 FALL BASEBALL SEASON AT USC IN 2016, ELIZABETH.
3 CONGRATULATIONS.

4 (APPLAUSE.)

5 CHAIRMAN THOMAS: THANK YOU VERY MUCH.
6 I'LL PASS THAT ALONG. HE'S EXCEEDINGLY HAPPY, AS
7 ARE HIS PARENTS. THANK YOU VERY MUCH.

8 WE'LL GO ON TO ITEM NO. 10, CONSIDERATION
9 OF APPROVAL OF NEW APPOINTMENTS TO THE GRANTS
10 WORKING GROUP. DR. SAMBRANO.

11 DR. SAMBRANO: THANK YOU, MR. CHAIRMAN,
12 MEMBERS OF THE BOARD. WE'RE BRINGING FOR YOUR
13 CONSIDERATION TWO NOMINEES FOR INDUCTION INTO THE
14 GRANTS WORKING GROUP. THEIR BRIEF BIOS ARE IN YOUR
15 MATERIALS. THEY ARE DR. WILLARD DERE AND DR. MALIN
16 PARMAR.

17 CHAIRMAN THOMAS: DO I HEAR A MOTION TO
18 APPOINT?

19 MR. TORRES: MOVED.

20 CHAIRMAN THOMAS: MOVED BY SENATOR TORRES.
21 SECONDED BY --

22 DR. JUELSGAARD: SECOND.

23 CHAIRMAN THOMAS: -- MR. JUELSGAARD. ANY
24 DISCUSSION ON THIS?

25 DR. SAMBRANO, JUST OUT OF CURIOSITY, WHAT

BARRISTERS' REPORTING SERVICE

1 IS THE SIZE OF OUR GWG POOL THESE DAYS?

2 DR. SAMBRANO: SO IT'S ABOUT 215.

3 CHAIRMAN THOMAS: THESE ARE EXPERTS FROM
4 ALL OVER THE WORLD OUTSIDE OF CALIFORNIA.

5 DR. SAMBRANO: THEY ARE. AND THEY COVER A
6 VERY BROAD SPECTRUM OF EXPERTISE BECAUSE, AS YOU
7 KNOW, WE'VE GROWN TO HAVE REVIEWS THAT COVER
8 ANYTHING FROM TRAINING, BASIC BIOLOGY, TRANSLATIONAL
9 WORK, CLINICAL WORK, AND EVEN WITHIN THOSE THERE ARE
10 EXPERTISE REQUIREMENTS SUCH AS REGULATORY AFFAIRS,
11 CLINICAL EXPERTISE, AND SO FORTH. AND BEYOND THAT,
12 THERE'S THE SPECIFIC FIELDS, SUCH AS NEUROBIOLOGY,
13 CARDIOVASCULAR DISEASE, ALL THE DIFFERENT TOPICS.
14 SO THAT'S GENERALLY WHAT THESE TRY TO COVER.

15 CHAIRMAN THOMAS: AND PROCESSWISE DO WE
16 SEEK THEM OUT? DO THEY SEEK US OUT? LITTLE BIT OF
17 BOTH?

18 DR. SAMBRANO: TYPICALLY WE SEEK THEM OUT.
19 THERE HAVE BEEN SOME CASES WHERE THEY COME TO US,
20 BUT USUALLY WE ENCOUNTER THEM THROUGH MEETINGS,
21 RECOMMENDATIONS FROM OTHERS, THEIR PUBLICATION
22 RECORDS. AND SO WE LOOK FOR PEOPLE WHO HAVE THE
23 APPROPRIATE EXPERTISE THAT WE THINK WOULD BE IDEAL
24 TO SERVE ON A GRANTS WORKING GROUP.

25 CHAIRMAN THOMAS: FOR THOSE MEMBERS OF THE

BARRISTERS' REPORTING SERVICE

1 BOARD WHO HAVE NOT HAD THE PRIVILEGE OF SITTING IN
2 ON THE GRANTS WORKING GROUP MEETINGS, IT IS
3 SOMETHING TO BEHOLD HOW INCREDIBLY DEDICATED,
4 HARDWORKING, AND FLAT OUT SMART ALL THESE PEOPLE ARE
5 WHO COME TO WORK ON OUR BEHALF AND THE BEHALF OF THE
6 CITIZENS OF CALIFORNIA. IT'S QUITE A PROCESS. AND,
7 OF COURSE, THROUGH THAT PROCESS, AMONG OTHERS, WE
8 FOUND OUR OWN DR. MILLS, WHO WOULD HAVE ALL OF THE
9 QUALITIES I JUST MENTIONED AND THEN SOME. VERY,
10 VERY IMPRESSIVE WITHOUT WHICH WE COULDN'T OPERATE AS
11 AN ENTITY.

12 SO, DR. SAMBRANO, THANK YOU FOR
13 IDENTIFYING THEM. WE KIND OF SKIP THROUGH THIS ITEM
14 WHEN IT COMES TO THE BOARD, BUT IT IS NONTRIVIAL,
15 VERY, VERY IMPORTANT, AND LEADS TO DRAMATIC RESULTS.

16 ANY COMMENTS BY MEMBERS OF THE BOARD?
17 COMMENTS BY MEMBERS OF THE PUBLIC? HEARING NONE,
18 JAMES, WE DON'T NEED A ROLL CALL ON THIS ONE, DO WE?
19 ALL THOSE IN FAVOR PLEASE SAY AYE. OPPOSED?
20 ANYBODY ON THE PHONE?

21 DR. WESTON: AYE.

22 CHAIRMAN THOMAS: THE MOTION PASSES.

23 THANK YOU.

24 SO THAT CONCLUDES THE ACTION ITEM AGENDA.

25 MS. BONNEVILLE: WE SHOULD MOVE INTO

BARRISTERS' REPORTING SERVICE

1 EXECUTIVE SESSION.

2 CHAIRMAN THOMAS: SO WE'RE NOW GOING TO
3 PROCEED TO EXECUTIVE SESSION. JAMES, COULD YOU READ
4 THE APPROPRIATE LANGUAGE? I WILL NOTE THAT WE ARE
5 GOING TO BE MOVING TO ANOTHER ROOM.

6 MS. BONNEVILLE: BAYSIDE ROOM.

7 CHAIRMAN THOMAS: WHICH IS?

8 MS. BONNEVILLE: AMY IS GOING TO LEAD YOU
9 THERE.

10 CHAIRMAN THOMAS: EXCELLENT. JAMES, THE
11 LANGUAGE PLEASE.

12 MR. HARRISON: SO THE BOARD WILL BE
13 CONVENING IN CLOSED SESSION TO DISCUSS PERSONNEL
14 PURSUANT TO GOVERNMENT CODE SECTION 11126(A), HEALTH
15 AND SAFETY CODE SECTION 125290.30(F)(3)(D).

16 CHAIRMAN THOMAS: THAT WAS A PARTICULARLY
17 GOOD ONE, MR. HARRISON. OKAY. WE ARE GOING TO
18 ADJOURN FOR PURPOSES OF THIS CLOSED SESSION AND
19 WE'LL BE BACK TO CONCLUDE OUR MEETING. THANK YOU.

20 (THE BOARD THEN ADJOURNED TO CLOSED
21 SESSION, NOT HEREIN REPORTED NOR HEREIN TRANSCRIBED.
22 AT THE CONCLUSION OF THE CLOSED SESSION, THE
23 FOLLOWING WAS HEARD IN OPEN SESSION:)

24 CHAIRMAN THOMAS: WE'RE GOING TO RESUME.
25 MEMBERS OF THE BOARD, AS YOU KNOW, ONE OF OUR OWN,

BARRISTERS' REPORTING SERVICE

1 DEAN HAWGOOD, HAS ASCENDED TO THE CHANCELLOR
2 POSITION AT UCSF, FOR WHICH WE ARE VERY PROUD. AND
3 HE HAS NOW HIS COLLEAGUE WHO WILL BE ATTENDING THESE
4 MEETINGS IN HIS STEAD DR. BRUCE WINTROUB WHO IS
5 JOINING US TODAY TO MY RIGHT FOR HIS FIRST BOARD
6 MEETING. AND, BRUCE, IF YOU COULD JUST SAY A WORD
7 OR TWO ABOUT YOUR BACKGROUND TO THE FOLKS HERE.

8 DR. WINTROUB: THANK YOU VERY MUCH. THIS
9 IS MY FIRST MEETING. IT'S BEEN INTERESTING. KNEW A
10 LOT ABOUT THE AGENCY, BUT REALLY CERTAINLY HAD NEVER
11 BEEN THIS CLOSE.

12 MY OWN BACKGROUND IS THAT I'M A KID FROM
13 OMAHA, NEBRASKA, AND ENDED UP IN SAN FRANCISCO IN
14 1982. I'M A UCSF LIFER. I'VE BEEN IN MULTIPLE
15 POSITIONS AT UCSF. I'VE BEEN THE CHAIR OF ONE OF
16 THE CLINICAL DEPARTMENTS, DERMATOLOGY, WHICH IS NOT
17 A NATURAL FOR GETTING INTO A POSITION LIKE THIS,
18 SINCE 1985. AND I'VE BEEN AROUND THE DEAN'S OFFICE
19 SINCE 1989 AND BEEN INVOLVED IN ALL OF OUR MERGERS
20 AND VARIOUS ADVENTURES IN SAN FRANCISCO AND OUTSIDE
21 OF SAN FRANCISCO.

22 MY SCIENCE WAS IN IMMUNOLOGY. IT'S BEEN A
23 DECADE PLUS SINCE I'VE BEEN AN ACTIVE SCIENTIST, BUT
24 THE GENES ARE STILL THERE AND THE INSTINCT IS STILL
25 THERE. I FELT IT WAS A PRIVILEGE TO HELP SAM OUT AS

BARRISTERS' REPORTING SERVICE

1 INTERIM DEAN. I'M A SEPTUAGENARIAN, WHICH IS JUST
2 THE REALITY OF LIFE. SO I'LL BE HERE AS LONG AS IT
3 TAKES FOR SAM TO FIND A YOUNGER INDIVIDUAL TO ASSUME
4 THAT ROLE. THANK YOU VERY MUCH.

5 CHAIRMAN THOMAS: THANK YOU AND WELCOME.

6 WE HAVE ONE OTHER ITEM. BEFORE WE GET TO
7 THAT, I KNOW WE HAVE SOME MEMBERS OF THE PUBLIC WHO
8 HAVE TO LEAVE. SO WE'RE GOING TO TAKE A LITTLE OUT
9 OF ORDER AND TAKE PUBLIC COMMENT NOW, IF WE MIGHT.
10 AND THEN WE'LL PROCEED TO KEVIN'S COMMUNICATIONS
11 REPORT FOLLOWING THAT.

12 MR. REDONSKY: GOOD AFTERNOON, ICOC
13 MEMBERS. THANK YOU VERY MUCH FOR WORKING SO HARD
14 FOR OUR BENEFIT. MY NAME IS MICHAEL REDONSKY AND I
15 HAVE PARKINSON'S DISEASE. AND I AM A WANNA-BE
16 PATIENT OF DR. JEANNE LORING WHO IS APPLYING FOR
17 FUNDING WITH YOU. THERE'S A NUMBER OF US HERE
18 TODAY, AND I'D LIKE TO ASK THEM TO STAND IF I COULD.

19 THIS RESEARCH GROUP HEADED BY DR. JEANNE
20 LORING IS DOING SOME WORK WITH INDUCED PLURIPOTENT
21 STEM CELL THERAPY FOR PARKINSON'S DISEASE. AND I
22 HOPE TO RECEIVE THAT TREATMENT FOR THE NEURONS THAT
23 ARE GOING TO HELP ALLEVIATE MY PARKINSON'S SYNDROME.

24 I'M HERE TO REMIND YOU FOLKS THAT WE HAVE
25 A GRANT APPLICATION IN AND WE'RE HOPING THAT YOU'LL

BARRISTERS' REPORTING SERVICE

1 LOOK FAVORABLE ON IT.

2 I ALSO HAVE SOMETHING TO OFFER TO YOU. I
3 WAS LOOKING AT YOUR BROCHURE, AND IT TALKS ABOUT
4 SOME OF YOUR GREAT SUCCESS STORIES, INCLUDING STROKE
5 AND LEUKEMIA AND DIABETES. BUT I NOTICE THERE ISN'T
6 A PARKINSON'S DISEASE SECTION, AND IT DOESN'T SEEM
7 THAT YOU'RE FUNDING PARKINSON'S VERY MUCH. AND I'D
8 LIKE TO OFFER TO YOU MY SERVICES. I WOULD BE GLAD
9 TO STAND FOR A PHOTO OP TO GO INTO THE NEXT YEAR'S
10 BROCHURE. MY FEES ARE REASONABLE. THEY'RE ONLY
11 ABOUT \$4 MILLION. SO ONE WAY OR THE OTHER WE HOPE
12 TO GET THAT MONEY OUT OF YOU. THANK YOU VERY MUCH.

13 (APPLAUSE.)

14 CHAIRMAN THOMAS: THANK YOU FOR THAT
15 COMMENT AND OFFER, GENEROUS AS IT WAS.

16 MS. DEKOZAN: I AM A PERSON WITH
17 PARKINSON'S. I'M A LITTLE CLUMSY SOMETIMES. MY
18 NAME IS SUZANNE DEKOZAN. I'M A RETIRED PUBLIC
19 ATTORNEY. AND I AM HERE FOR THE FIRST TIME AND
20 WOULD JUST LIKE TO COMPLIMENT YOU ON YOUR WORK. I'M
21 VERY FAVORABLY IMPRESSED. I WAS VERY HAPPY TO HEAR
22 ALL THE DIFFERENT POINTS OF VIEW THAT EMERGE FROM
23 THIS BOARD. AND THAT SUGGESTS TO ME THAT THE SYSTEM
24 IS GENERALLY WORKING.

25 AS A PERSON WITH PARKINSON'S, OF COURSE,

BARRISTERS' REPORTING SERVICE

1 I'M VERY CONCERNED ABOUT YOUR ROLE IN MY DISEASE
2 PROCESS AND MY OUTCOME. YOU CAN BE HELPFUL OR YOU
3 CAN PLAY NO ROLE AT ALL, I SUPPOSE. I HOPE THE
4 PRESENCE OF THESE PEOPLE WITH PARKINSON'S HERE TODAY
5 WILL SHOW YOU THAT WE'RE A MAJOR FORCE.
6 UNFORTUNATELY THERE ARE QUITE A LOT OF US, AND WE
7 ARE HERE INDEPENDENTLY. THERE'S A CONTINGENT FROM
8 SAN DIEGO THAT NEVER MET THE CONTINGENT FROM SANTA
9 ROSA BEFORE. I THANK YOU FOR YOUR TIME AND YOUR
10 AUDIENCE.

11 CHRISTINA: HI, I'M CHRISTINA. I'M A
12 FRIEND OF SUZANNE'S, AND WE'RE IN A SUPPORT GROUP IN
13 SANTA ROSA AREA. I MET DAVID HIGGINS, DR. HIGGINS,
14 AND I'M VERY IMPRESSED BY HIM. HE INVITED ME HERE
15 TODAY, AND I JUST WANTED TO SAY TO EVERYBODY HERE
16 THAT I ECHO WHAT SUZANNE SAYS. AND I HOPE THAT WE
17 CAN GET MORE OF OUR PEOPLE INVOLVED. I'M GOING TO
18 GO TO WASHINGTON, D.C. WITH PARKINSON'S ACTION
19 NETWORK TO GET TRAINED AT THE END OF MARCH TO BE
20 LIKE A LOBBYIST-TYPE ADVOCATE PERSON.

21 SO I JUST -- WE LIVE WITH THIS EVERY DAY,
22 AND WE TRY TO HAVE A SENSE OF HUMOR. AND I THINK
23 THAT RIGHT NOW I'M SHAKING BECAUSE I'M NERVOUS, BUT,
24 YOU KNOW, IT WAS ONE OF THOSE THINGS WHERE IT TOOK
25 ME A LONG TIME TO ACCEPT THAT I HAD IT AND I WAS TOO

BARRISTERS' REPORTING SERVICE

1 AFRAID TO GO TO THE DOCTOR. AND I THINK THERE'S A
2 LOT OF PEOPLE OUT THERE WHO ARE UNDIAGNOSED. AND I
3 REALLY HOPE THAT MORE OF US CAN HAVE A FACE HERE AND
4 YOU CAN PUT A NAME TO US AND REALIZE THAT WE'RE
5 VERY, VERY HELPFUL AND THAT PERHAPS OUR FUTURE LIES
6 IN YOUR HANDS. THANK YOU.

7 CHAIRMAN THOMAS: THANK YOU FOR YOUR
8 COMMENTS. ANY OTHER COMMENTS FROM MEMBERS OF THE
9 PUBLIC? THANK YOU ALL VERY MUCH FOR COMING BACK
10 THERE. WE APPRECIATE VERY MUCH.

11 WE'LL NOW PROCEED TO THE MAJORDOMO OF
12 COMMUNICATIONS, MR. MCCORMACK.

13 MR. MC CORMACK: MAJORDOMO, THAT'S THE
14 FIRST TIME I'VE HAD A MILITARY TITLE. SO THANK YOU,
15 CHAIRMAN THOMAS, MEMBERS OF THE BOARD, MEMBERS OF
16 THE PUBLIC, AND TEAM CIRM. I THINK WE SHOULD
17 ACTUALLY GET T-SHIRTS WITH THAT ON THERE. I LIKE
18 THAT IDEA.

19 COMING UP HERE LAST, I ALWAYS FEEL LIKE
20 IT'S A BIT OF A BLESSING AND A CURSE. A BLESSING
21 BECAUSE WHEN YOU SEE ME, YOU KNOW, GOOD, THIS IS
22 ABOUT TO END AND WE ALL GET TO GO HOME. AND MR.
23 JUELSGAARD IS NODDING VIGOROUSLY. BUT A CURSE
24 BECAUSE ALL THE GOOD MATERIAL HAS ALREADY BEEN USED.
25 I FEEL LIKE ONE OF THOSE LATE, LATE, LATE NIGHT TALK

BARRISTERS' REPORTING SERVICE

1 SHOW HOSTS WHO COMES ON KNOWING THAT ALL THE GOOD
2 JOKES HAVE BEEN USED IN THE MONOLOGUES ALL THE WAY
3 EARLIER. BUT THAT'S NEVER STOPPED ME BEFORE. SO
4 I'LL CARRY ON AND I'LL GIVE YOU MY COMMUNICATIONS
5 UPDATE, ALTHOUGH THIS TIME IT'S MORE OF A MARKETING
6 UPDATE BECAUSE LAST TIME I TALKED ABOUT HOW WE PLAN
7 TO MARKET CIRM 2.0. SO I WANT TO TALK ABOUT A LOT
8 OF THE THINGS THAT WE'VE BEEN DOING IN THE LAST
9 MONTH.

10 AND AS CHAIRMAN THOMAS AND DR. MILLS SAID,
11 IT'S BEEN A REALLY BUSY START TO THE YEAR.
12 LAUNCHING CIRM 2.0 HAS BEEN A LOT OF WORK, BUT IT'S
13 ALSO BEEN A LOT OF FUN. IT'S GREAT TO GO INTO A
14 ROOM AND START TO TALK TO SOMEONE. WHEN YOU FIRST
15 START TO TALK TO THEM, THEIR REACTION IS, "OH,
16 REALLY?" AND THEN AS YOU TALK ABOUT THE CHANGES
17 THAT CIRM 2.0 IS GOING TO INTRODUCE, HOW IT'S GOING
18 TO MAKE THINGS FASTER AND EASIER, THEY START TO PERK
19 UP, AND THEY GO, "REALLY." AND SO BY THE TIME YOU
20 FINISH TALKING ABOUT ALL THE ADVANTAGES, BENEFITS,
21 HOW IT CAN REALLY HELP SPEED UP WHAT WE'RE TRYING TO
22 DO HERE AND ACCELERATE THE DEVELOPMENT OF THERAPIES
23 FOR PATIENTS, THE REACTION IS, "WOW, REALLY?" SO
24 IT'S FUN TO KIND OF BE ABLE TO GO OUT AND TALK ABOUT
25 SOMETHING LIKE THAT PEOPLE REALLY GET EXCITED ABOUT

BARRISTERS' REPORTING SERVICE

1 AND ARE INTERESTED IN AND GENUINELY FEEL THAT IT'S
2 GOING TO MAKE A DIFFERENCE.

3 SO FOR THE LAST MONTH THAT'S PRETTY MUCH
4 WHAT A LOT OF US HAVE BEEN DOING IS TALKING TO
5 PEOPLE ABOUT CIRM 2.0. AS CHAIRMAN THOMAS AND DR.
6 MILLS TALKED ABOUT, THEY'VE BEEN DOING IT AT EVERY
7 OPPORTUNITY.

8 DR. MILLS GAVE A PRESENTATION, A PANEL
9 DISCUSSION, AT THE ARM STATE OF THE INDUSTRY
10 BRIEFING. AND ALTHOUGH THE SAID HE DOESN'T ENJOY
11 DOING IT, HE'S ACTUALLY VERY GOOD AT DOING THAT. HE
12 WAS REALLY AN INTERESTING PANEL DISCUSSION. AND HE
13 COMMANDEERED THE FIRST 15 OR 20 MINUTES, MUCH TO THE
14 SHOCK OF THE FOLKS AT ARM, JUST TO TALK ABOUT CIRM
15 2.0 AND WHAT IT MEANT. IT WAS A PERFECT AUDIENCE
16 BECAUSE THIS IS THE BIOTECH INDUSTRY. THEY'RE
17 REALLY INTERESTED IN WHAT WE HAVE. SO FOR THEM THIS
18 WAS A MESSAGE, I THINK, THAT WAS WORTH HEARING.

19 AFTER THAT IT WAS THE BEGINNING OF J.P.
20 MORGAN WEEK. AND, AGAIN, HE WENT AROUND AND TALKED
21 TO AS MANY PEOPLE AS HE COULD COLLAR. AND LOTS OF
22 PEOPLE WERE TRYING TO COLLAR HIM AS WELL BECAUSE
23 WHENEVER YOU TALK ABOUT MAKING MILLIONS OF DOLLARS
24 AVAILABLE IN A HURRY, THERE'S LOTS OF PEOPLE WHO ARE
25 VERY INTERESTED AND PERKED UP A LOT OF EARS.

BARRISTERS' REPORTING SERVICE

1 TO SPARE HIS VOICE A LITTLE AND HAVE HIM
2 KIND OF SIT DOWN FOR A FEW MINUTES, WE HELD A
3 WEBINAR SO HE COULD REACH OUT TO A MUCH WIDER
4 AUDIENCE. WE HELD THIS IN MID-JANUARY WHERE HE WENT
5 OVER IN SOME DETAIL WHAT CIRM 2.0 IS, WHO IT APPLIES
6 TO, WHO CAN APPLY. AND WE HAD SOME 200 PEOPLE
7 LISTENING IN ON THAT AND ASKING SOME GREAT QUESTIONS
8 AFTERWARDS, INCLUDING JEANNE LORING. AND THAT
9 WEBINAR IS NOW AVAILABLE ON OUR WEBSITE SO THAT
10 PEOPLE WHO WEREN'T ABLE TO LISTEN TO IT WERE ABLE TO
11 DO SO NOW.

12 FINALLY, IF YOU DIDN'T GET ENOUGH OF
13 HEARING HIM TALKING, YOU COULD SEE HIM TALKING
14 BECAUSE PARTNERING 360 TV DID AN INTERVIEW WITH HIM.
15 AND IT'S AN ONLINE NETWORK OF SOME 14,000 EXECUTIVES
16 IN THE LIFE SCIENCE INDUSTRY. SO, AGAIN, THIS IS A
17 WONDERFUL AUDIENCE FOR WHAT WE'RE TALKING ABOUT.

18 NOT JUST FOR THIS CURRENT PHASE II OF 2.0
19 WHICH DEALS WITH CLINICAL AND LATE STAGE PRECLINICAL
20 WORK, BUT ALSO FOR THE DISCOVERY AND TRANSLATIONAL
21 PHASES WHICH WE'RE GOING TO BE ROLLING OUT LATER IN
22 THE YEAR.

23 BECAUSE THERE'S ONLY SO MUCH THAT ONE MAN,
24 EVEN DR. MILLS, CAN DO, WE'VE ALL BEEN KIND OF
25 PITCHING IN. AND NEIL LITTMAN, OUR BUSINESS

BARRISTERS' REPORTING SERVICE

1 DEVELOPMENT GURU, HAS BEEN DOING A GREAT JOB GOING
2 AROUND. AT J.P. MORGAN HE HAD MEETINGS WITH MORE
3 THAN 20 COMPANIES TALKING TO THEM ABOUT CIRM 2.0,
4 AND THERE'S A LOT OF INTEREST THERE. HE'S BEEN
5 DOING THAT. AFTER THAT NEIL WENT A WHOLE BUNCH OF
6 CONFERENCES, SOME I'VE NEVER HEARD OF AND HAVE NO
7 IDEA WHAT THEY ARE, INCLUDING THE REDEFINING EARLY
8 STAGE INVESTOR CONFERENCE WHERE HE MODERATED A
9 PANEL. AND THEN WENT TO THE PHACILITATE CONFERENCE
10 IN WASHINGTON, D.C. -- AND, YES, THAT IS HOW YOU
11 SPELL PHACILITATE -- WHERE HE BOTH CHAIRED THE
12 SESSION AND TOOK PART IN ANOTHER PANEL DISCUSSION
13 ABOUT CIRM 2.0.

14 AGAIN, THESE ARE WONDERFUL AUDIENCES FOR
15 US TO BE ABLE TO REACH OUT TO BECAUSE THESE ARE THE
16 PEOPLE WHO ARE GOING TO BE APPLYING OR INTERESTED IN
17 APPLYING FOR FUNDING. SO THIS WAS KIND OF A GREAT
18 WAY OF REACHING THEM AND TALKING TO THEM FIRSTHAND.

19 IN THE FUTURE, IN THE NEXT COMING MONTHS,
20 WE'RE GOING TO BE DOING AN AWFUL LOT MORE OF THIS
21 WHERE WE HAVE CONFERENCES WHERE BOTH NEIL AND/OR DR.
22 MILLS ARE GOING TO BE GOING AND TALKING ABOUT WHAT
23 WE'RE UP TO.

24 AND, FINALLY, WE'VE PITCHED SOME STORIES
25 TO THE KIND OF TRADITIONAL MEDIA, BUT THIS IS MUCH

BARRISTERS' REPORTING SERVICE

1 MORE OF A BUSINESS MEDIA EVENT, CIRM 2.0. THEY'RE
2 MUCH MORE INTERESTED IN IT. SO WE'VE WORKING WITH
3 THEM. BUT ANOTHER TOOL WE'VE BEEN USING IS THE
4 WEBSITE. DR. HOLDEN, OUR WEBSITE MANAGER, IS BUSY
5 WORKING ON A REFRESHED AND REDESIGNED WEBSITE, ONE
6 THAT HAS A NEW, CLEANER LOOK. IT'S VISUALLY MORE
7 APPEALING, WHICH IS OBVIOUSLY VERY IMPORTANT IN
8 TERMS OF GETTING PEOPLE TO PAY ATTENTION TO IT AND
9 STAY ON THE SITE, BUT IT'S ALSO EASIER TO NAVIGATE.

10 ONE OF THE THINGS WE HEARD WAS THAT
11 COMPANIES WHO WERE INTERESTED IN FINDING OUT MORE
12 ABOUT US FOUND IT A LITTLE DIFFICULT TO FIND THEIR
13 WAY AROUND OUR CURRENT WEBSITE. SO THIS IS DESIGNED
14 IN A WAY THAT IT'S REALLY EASY ONCE YOU GET TO THE
15 LANDING PAGE TO GO EXACTLY WHERE YOU WANT TO GO,
16 FIND WHAT YOU NEED, AND GET THE INFORMATION YOU
17 NEED. AND THAT WILL APPLY TO WHETHER YOU'RE A
18 RESEARCHER, A COMPANY, OR JUST A MEMBER OF THE
19 PUBLIC INTERESTED IN FINDING OUT MORE ABOUT THESE
20 DIFFERENT DISEASES OR FUNDING OPPORTUNITIES.

21 HOPEFULLY WE'LL BE ABLE TO ROLL THAT OUT
22 AT THE NEXT MEETING. AND DR. HOLDEN WILL GIVE A
23 PRESENTATION THEN. WITH THAT, I'M HAPPY TO TAKE ANY
24 QUESTIONS.

25 CHAIRMAN THOMAS: QUESTIONS OR COMMENTS?

BARRISTERS' REPORTING SERVICE

1 KEVIN, JUST WANT TO SAY I THINK YOU'VE DONE
2 EXCELLENT WORK PUTTING TOGETHER THIS MATERIAL AND
3 WORKING WITH RANDY AND OTHERS TO GET THE MESSAGE OUT
4 IN ITS NEW, REFRESHING FORMAT, LITTLE BIT DIFFERENT,
5 LITTLE BIT MORE EYE CATCHING. I THINK ALL THE WORK
6 THAT'S GONE INTO SPEAKING TO PEOPLE THAT RANDY HAS
7 DONE, THAT NEIL HAS DONE AS WELL BEEN DOING A VERY
8 GOOD JOB OF GETTING THE WORD OUT ON THIS. THERE'S
9 MORE WORK TO BE DONE OBVIOUSLY BECAUSE, AS RANDY
10 SAID, HE'S SURPRISED SOMETIMES HOW PEOPLE DON'T KNOW
11 ENOUGH ABOUT CIRM TO REALLY TAKE ADVANTAGE OF IT. I
12 THINK THIS WHOLE CAMPAIGN IS SOMETHING THAT'S GOING
13 TO INCREASE THAT. SO WORK WELL DONE. THANK YOU.

14 MR. MC CORMACK: THANK YOU. THIS IS VERY
15 MUCH THE BEGINNING OF WHAT WE'RE GOING TO DO. WE'VE
16 JUST LAUNCHED 2.0, AND WE OBVIOUSLY HAVE TO KEEP THE
17 MOMENTUM GOING. SO WE'RE GOING TO BE WORKING TO DO
18 THAT IN THE COMING MONTHS AND YEARS. SO IF ANY ONE
19 OF YOU HAS ANY IDEAS ABOUT HOW WE CAN DO THAT, WHO
20 WE CAN TALK TO, IF YOU NEED SOMEONE TO COME DOWN AND
21 TALK TO A GROUP, WE'RE ALWAYS HAPPY TO DO THAT, SO
22 JUST REACH OUT TO ME AND WE'LL BE HAPPY TO OBLIGE.
23 THANK YOU.

24 CHAIRMAN THOMAS: OKAY. I THINK THAT IS A
25 WRAP ON THIS SESSION. WE'VE HAD OUR PUBLIC COMMENT.

BARRISTERS' REPORTING SERVICE

1 WE'VE GOTTEN THROUGH EVERYTHING. JAMES, MARIA,
2 ANYTHING ELSE WE NEED TO COVER? GOOD. I'D LIKE TO
3 THANK EVERYBODY FOR COMING TO THIS MORNING'S, DAY'S
4 SESSION AS ALWAYS, AND WE WILL SEE YOU FOLKS IN
5 PERSON NEXT IN MARCH WITH THE APPLICATION REVIEW
6 SUBCOMMITTEE MEETING IN FEBRUARY -- NO, NOT MEETING
7 IN FEBRUARY. OKAY -- MEETING IN APRIL. OKAY.
8 THANK YOU. ALL RIGHT. SO MEETING IS ADJOURNED.
9 THANK YOU.

10 (THE MEETING WAS THEN CONCLUDED AT
11 02:20 P.M.)

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BARRISTERS' REPORTING SERVICE

REPORTER'S CERTIFICATE

I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE PROCEEDINGS BEFORE THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD AT THE LOCATION INDICATED BELOW

HYATT REGENCY SAN FRANCISCO AIRPORT
1333 BAYSHORE HIGHWAY
BURLINGAME, CALIFORNIA

ON

JANUARY 29, 2015

WAS HELD AS HEREIN APPEARS AND THAT THIS IS THE ORIGINAL TRANSCRIPT THEREOF AND THAT THE STATEMENTS THAT APPEAR IN THIS TRANSCRIPT WERE REPORTED STENOGRAPHICALLY BY ME AND TRANSCRIBED BY ME. I ALSO CERTIFY THAT THIS TRANSCRIPT IS A TRUE AND ACCURATE RECORD OF THE PROCEEDING.

BETH C. DRAIN, CSR 7152
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