

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

LOCATION: SHERATON SAN DIEGO
1380 HARBOR ISLAND DRIVE
MARINA TOWER, HARBOR ISLAND I
SAN DIEGO, CALIFORNIA

DATE: TUESDAY, JUNE 22, 2010
10 A.M.

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

BRS FILE NO.: 85131

BARRISTERS' REPORTING SERVICE

I N D E X

| ITEM DESCRIPTION | PAGE NO. |
|--|----------|
| 1. CALL TO ORDER. | 4 |
| 2. PLEDGE OF ALLEGIANCE. | 6 |
| 3. ROLL CALL. | 6, 9 |
| REPORTS | |
| 4. CHAIRMAN'S REPORT. | |
| 5. PRESIDENT'S REPORT. | |
| CONSENT CALENDAR | |
| 6. CONSIDERATION OF MINUTES FROM 4/28-9/10 BOARD MEETING. | |
| CLOSED SESSION | 9 |
| PUBLIC REPORT OF ANY ACTION TAKEN DURING CLOSED SESSION. | NONE |
| ACTION ITEMS | |
| 8. CONSIDERATION OF RECOMMENDATIONS FROM GRANTS WORKING GROUP REGARDING APPLICATIONS SUBMITTED IN RESPONSE TO RFA 09-03 CIRM STEM CELL TRANSPLANTATION IMMUNOLOGY RESEARCH AWARDS. | 12 |
| A) EXTRAORDINARY PETITION FOR APPLICATION RM1-01705 | 46 |
| B) EXTRAORDINARY PETITION FOR APPLICATION RM1-01717 | 34 |
| C) EXTRAORDINARY PETITION FOR APPLICATION RM1-01721 | 65 |
| D) EXTRAORDINARY PETITION FOR APPLICATION RM1-01731 | 73 |
| I) EXTRAORDINARY PETITION FOR APPLICATION RM1-01733 LATE | 59 |

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| CLOSED SESSION | 24 |
| PUBLIC REPORT OF ANY ACTION TAKEN DURING CLOSED SESSION. | NONE |

ACTION ITEMS

| | |
|--|-----|
| 10. CONSIDERATION OF CIRM BUDGET FOR FISCAL YEAR 2010-2011. | |
| 11. CONSIDERATION OF PROPOSED NEW MEMBER FOR STANDARDS WORKING GROUP. | 87 |
| 12. CONSIDERATION OF PROPOSED NEW SCIENTIFIC MEMBERS FOR GRANTS WORKING GROUP. | 88 |
| 13. CONSIDERATION OF CONCEPT PROPOSAL FOR BASIC BIOLOGY III AWARDS. | 90 |
| 14. CONSIDERATION OF TECHNICAL AMENDMENT TO COMPENSATION PROGRAM. | 110 |

ADDENDUM

15. CONSIDERATION OF UPDATE REGARDING SB 1064 (ALQUIST)

DISCUSSION ITEMS

16. DISCUSSION OF DEVELOPMENT CANDIDATE PORTFOLIO REVIEW.

17. REVIEW OF STRATEGIC FINANCIAL PROJECTIONS.

18. PUBLIC COMMENT

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1 SAN DIEGO, CALIFORNIA; TUESDAY, JUNE 22, 2010

2 10:24 AM

3
4 CHAIRMAN KLEIN: I'D LIKE TO BEGIN THE
5 MEETING. WE CAN BEGIN THE MEETING WITHOUT A QUORUM.
6 WE HAVE A NUMBER OF MEMBERS OF THE BOARD THAT ARE IN
7 PROCESS OF TRANSITING TO SAN DIEGO. THEY DON'T YET
8 KNOW WHAT A BEAUTIFUL DAY THEY'RE MISSING HERE. I
9 THINK THIS IS GOD'S COUNTRY.

10 WELCOME EVERYONE TO BEAUTIFUL SAN DIEGO.
11 WE HAVE AN IMPORTANT SET OF GRANT APPLICATIONS TO
12 CONSIDER FOR STEM CELL TRANSPLANTATION IMMUNOLOGY
13 AWARDS AND A NUMBER OF OTHER VERY IMPORTANT ITEMS.
14 THE FIRST PART OF OUR AGENDA, HOWEVER, WILL BE AN
15 EXECUTIVE SESSION IN PART OF OUR REVIEW PROCESS FOR
16 BOARD LEADERSHIP AND WILL CONTINUE ON TO THE AGENCY
17 LEADERSHIP. SO IT IS SPECIFICALLY SET AS A TIME FOR
18 THE SCIENTIFIC STAFF AND FOR THE SUPPORT PERSONNEL
19 TO BE HERE AT 2 O'CLOCK TO BEGIN THAT PART OF THE
20 SESSION.

21 AT THAT POINT THE EXECUTIVE SESSION OF THE
22 BOARD AND THE BOARD'S LUNCH SHOULD HAVE BEEN
23 CONCLUDED HOPEFULLY WITH TIME FOR A SHORT BREAK OF
24 SIGNIFICANCE. SO IF YOU HAVE ANY CALLS, THAT WOULD
25 BE A GOOD TIME PERIOD POTENTIALLY BETWEEN ONE AND

BARRISTERS' REPORTING SERVICE

1 TWO TO MAKE THOSE CALLS.

2 I'D LIKE TO, BEFORE I HAVE OUR FORMAL CALL
3 TO ORDER, JUST TO THANK JENNIFER PRYNE, AMY CHUNG,
4 NICK WARSHAW, AND MELISSA KING FOR THE NORMAL
5 HEROISM IN BRINGING THIS ALL TOGETHER WITH THE
6 LOGISTICS, AND INTERN SIENNA LOFTON AND DANIELLE
7 WOLFSON, WHO HAVE PARTICIPATED IN BRINGING US TO
8 THIS MEETING. LYNN HARWELL, ALTHOUGH AWAY ON
9 PREGNANCY LEAVE, PARTICIPATED WITH AMY CHUNG IN
10 ARRANGING OUR SPOTLIGHT ON ALS FOR TOMORROW MORNING.
11 WE HAVE A NUMBER OF DISTINGUISHED SPEAKERS TOMORROW
12 MORNING. I WOULD HOPE THAT WE'D HAVE A GREAT
13 ATTENDANCE. AND THAT TIME, MELISSA, WILL BE?

14 MS. KING: 8:30.

15 CHAIRMAN KLEIN: 8:30 A.M. IN THIS
16 BUILDING, IN THIS BUILDING. IT SHOULD BE AN
17 EXTRAORDINARILY POIGNANT SPOTLIGHT ON ALS. SO
18 PLEASE TRY AND ARRANGE YOUR SCHEDULES TO BE HERE FOR
19 THAT PORTION OF THE PROGRAM.

20 WE WILL HAVE BOARD MEMBERS JOINING US BY
21 PHONE BOTH DAYS FOR OUR QUORUM. WE HAVE SOME
22 LAST-MINUTE CHANGES THAT HAVE AFFECTED CALENDARS OF
23 BOARD MEMBERS WHO WERE PLANNING TO BE HERE. SO WE
24 WILL HAVE OUR QUORUM SUPPLEMENTED BY MEMBERS JOINING
25 BY PHONE WITH SOME ADDITIONAL MEMBERS JOINING TO

BARRISTERS' REPORTING SERVICE

1 MAKE SURE WE MAINTAIN OUR QUORUM.

2 I'D LIKE TO, THEREFORE, BEGIN THE FORMAL
3 MEETING BY ASKING MELISSA KING TO LEAD US IN THE
4 FLAG SALUTE AND THE ROLL CALL.

5 MS. KING: PLEASE STAND IF YOU ARE ABLE.

6 (THE PLEDGE OF ALLEGIANCE.)

7 MS. KING: DONALD DAFOE FOR RICARDO AZZIZ.

8 ROBERT PRICE FOR ROBERT BIRGENEAU.

9 DR. PRICE: HERE.

10 MS. KING: FLOYD BLOOM.

11 DR. BLOOM: HERE.

12 MS. KING: DAVID BRENNER.

13 DR. BRENNER: HERE.

14 MS. KING: WILLIAM BRODY.

15 DR. BRODY: HERE.

16 MS. KING: SUSAN BRYANT.

17 DR. BRYANT: HERE.

18 MS. KING: MARCY FEIT. MICHAEL FRIEDMAN.

19 LEEZA GIBBONS. MICHAEL GOLDBERG. SAM HAWGOOD. BOB
20 KLEIN.

21 CHAIRMAN KLEIN: HERE.

22 MS. KING: SHERRY LANSING. GERALD LEVEY.

23 DR. LEVEY: HERE.

24 MS. KING: TED LOVE. ED PENHOET. PHIL

25 PIZZO. CLAIRE POMEROY. FRANCISCO PRIETO.

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1 DR. PRIETO: HERE.

2 MS. KING: CARMEN PULIAFITO. ROBERT
3 QUINT. JOHN REED.

4 DR. REED: HERE.

5 MS. KING: DUANE ROTH.

6 MR. ROTH: HERE.

7 MS. KING: JOAN SAMUELSON. DAVID
8 SERRANO-SEWELL. JEFF SHEEHY. JONATHAN SHESTACK.
9 OSWALD STEWARD.

10 DR. STEWARD: HERE.

11 MS. KING: ART TORRES.

12 MR. TORRES: HERE.

13 MS. KING: WE DON'T YET HAVE A QUORUM, BUT
14 WE HAVE SEVERAL MEMBERS THAT WILL BE JOINING US AS
15 SOON AS THEIR FLIGHTS ARE IN.

16 CHAIRMAN KLEIN: AND I KNOW THAT JOAN
17 SAMUELSON CAME IN LAST NIGHT. SHE'S WORKING ON
18 FUNCTIONALLY BEING ABLE TO JOIN US IN PERSON. IT'S
19 A GREAT EFFORT FOR JOAN, WHICH WE APPRECIATE
20 SINCERELY.

21 THE CHAIR'S REPORT AND THE PRESIDENT'S
22 REPORT WILL BE DEFERRED UNTIL A LATER PORTION OF THE
23 MEETING. WE'RE NOT GOING TO CONSIDER THE MINUTES
24 UNTIL WE HAVE A QUORUM. AND SO ITEM 7 IS OUR FIRST
25 ITEM OF THE DAY. IT'S DISCUSSION OF PERSONNEL,

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1 EVALUATION OF THE BOARD CHAIR UNDER GOVERNMENT CODE
2 SECTION 11126(A), HEALTH AND SAFETY CODE SECTION
3 125290.30(D)(3)(D).

4 AND, COUNSEL, WOULD YOU LIKE TO ADD ANY
5 SPECIFIC REFERENCES?

6 MR. HARRISON: NO.

7 CHAIRMAN KLEIN: ALL RIGHT. WE ARE SET
8 THEN TO ADJOURN. AND THOSE MEMBERS OF THE PUBLIC
9 THAT ARE HERE, FOR YOUR PREDICTABILITY OF SCHEDULE,
10 I'D COUNT ON 2 O'CLOCK. AND MY UNDERSTANDING IS WE
11 WILL NOT HAVE STAFF HERE, SO WE COULDN'T EVEN, IF WE
12 WERE ABLE TO COMPLETE EARLY, COMMENCE THAT PORTION
13 PRIOR TO; IS THAT CORRECT?

14 MS. KING: IF WE HAD A QUORUM AND WE WERE
15 BACK IN OPEN SESSION BEFORE 2 P.M., THERE ARE SOME
16 ITEMS ON THE AGENDA THAT WE COULD DO WITHOUT
17 ADDITIONAL STAFF MEMBERS HERE.

18 CHAIRMAN KLEIN: RIGHT. OKAY. SO WITH
19 THAT SAID, FOR EFFICIENCY WE'LL TRY AND SEE IF WE
20 CAN POTENTIALLY RECONVENE SLIGHTLY BEFORE TWO, MAYBE
21 1:30, DEPENDS ON THE EXECUTIVE SESSION, AND THE
22 BOARD HAS MANAGEMENT OF THAT TIME. SO WE'LL SEE HOW
23 THAT WORKS OUT. BUT BE AVAILABLE IN CASE WE ARE
24 RECONVENING EARLY, BUT THANK YOU VERY MUCH. AND
25 WE'RE GOING TO ADJOURN NOW TO EXECUTIVE SESSION. IN

BARRISTERS' REPORTING SERVICE

1 WHICH ROOM? WE'RE GOING TO FOLLOW MELISSA KING.

2 (THE BOARD THEN CONVENED IN EXECUTIVE
3 SESSION AT 10:31 A.M., NOT REPORTED NOR HEREIN
4 TRANSCRIBED. THE BOARD THEN RECONVENED IN OPEN
5 SESSION AT 2 P.M. AS FOLLOWS:)

6 CHAIRMAN KLEIN: ALL RIGHT. IT IS 2
7 O'CLOCK AND WE ARE GOING TO BEGIN THE MEETING
8 RECONVENING AT THIS POINT. PREVIOUSLY WE CALLED
9 ROLL AND WENT THROUGH THE PLEDGE OF ALLEGIANCE, BUT
10 WE WILL BEGIN TODAY WITH AN UPDATE TO THE ROLL CALL
11 BY MELISSA KING, AND THEN WE'RE GOING TO MOVE
12 DIRECTLY INTO THE DISCUSSION OF THE STEM CELL
13 TRANSPLANTATION IMMUNOLOGY RESEARCH AWARDS.

14 WE HAVE A QUORUM PRESENT, AND WE WANT TO
15 MAKE CERTAIN THAT WE OPTIMIZE THE TIME WE HAVE WITH
16 THAT QUORUM FOCUSED ON THESE AWARDS, PARTICULARLY
17 GIVEN THAT WE HAVE A NUMBER OF EXTRAORDINARY
18 PETITIONS WHICH NEED TO BE CONSIDERED ALONG WITH THE
19 AWARDS THEMSELVES. WE'LL BEGIN THAT SESSION
20 IMMEDIATELY AFTER THE ROLL CALL, AGAIN, WITH A
21 GENERAL DISCUSSION OF THE CRITERIA FOR THIS SESSION
22 AND GENERAL CONSIDERATIONS OF THE GRANT ROUND.
23 MELISSA KING.

24 MS. KING: DONALD DAFOE FOR RICARDO AZZIZ.

25 DR. DAFOE: HERE.

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1 MS. KING: ROBERT PRICE FOR ROBERT
2 BIRGENEAU.
3 DR. PRICE: HERE.
4 MS. KING: FLOYD BLOOM.
5 DR. BLOOM: HERE.
6 MS. KING: DAVID BRENNER.
7 DR. BRENNER: HERE.
8 MS. KING: WILLIAM BRODY.
9 DR. BRODY: HERE.
10 MS. KING: SUSAN BRYANT.
11 DR. BRYANT: HERE.
12 MS. KING: MARCY FEIT. MICHAEL FRIEDMAN.
13 DR. FRIEDMAN IS JOINING US BY THE PHONE. I DON'T
14 KNOW IF WE'RE UP YET, BUT WE WILL BE SHORTLY.
15 LEEZA GIBBONS. MICHAEL GOLDBERG. SAM
16 HAWGOOD. BOB KLEIN.
17 CHAIRMAN KLEIN: HERE.
18 MS. KING: SHERRY LANSING. GERALD LEVEY.
19 DR. LEVEY: HERE.
20 MS. KING: TED LOVE. ED PENHOET. PHIL
21 PIZZO. CLAIRE POMEROY. FRANCISCO PRIETO.
22 DR. PRIETO: HERE.
23 MS. KING: CARMEN PULIAFITO. ROBERT
24 QUINT.
25 DR. QUINT: PRESENT.

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1 MS. KING: JOHN REED.
2 DR. REED: HERE.
3 MS. KING: DUANE ROTH.
4 MR. ROTH: HERE.
5 MS. KING: JOAN SAMUELSON.
6 MS. SAMUELSON: PRESENT.
7 MS. KING: DAVID SERRANO-SEWELL.
8 MR. SERRANO-SEWELL: HERE.
9 MS. KING: JEFF SHEEHY.
10 MR. SHEEHY: HERE.
11 MS. KING: JON SHESTACK. OSWALD STEWARD.
12 DR. STEWARD: HERE.
13 MS. KING: ART TORRES.
14 MR. TORRES: HERE.
15 MS. KING: AND I KNOW THAT DR. PULIAFITO
16 IS HERE. HE JUST HASN'T YET RETURNED TO THE
17 MEETING. WHEN HE JOINS US AND DR. FRIEDMAN JOINS
18 US, WE WILL HAVE A QUORUM.
19 CHAIRMAN KLEIN: ALL RIGHT. IF STAFF
20 COULD ASK DR. PULIAFITO TO JOIN US. JENNA, MAYBE
21 YOU OR -- IT LOOKS LIKE AMY IS GOING TO TRY AND
22 ACCOMPLISH THAT TASK.
23 SO, DR. TROUNSON, COULD WE HAVE A
24 SCIENTIFIC OVERVIEW. AND I APPRECIATE VERY MUCH THE
25 FACT THAT YOU HAVE THIS TREMENDOUS PRESIDENT'S

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1 REPORT WITH A LOT OF GREAT SCIENCE IN IT AND A
2 REPORT ON THE ISSCR WHICH YOU'RE GOING TO PRESENT
3 IMMEDIATELY AFTER WE GET THROUGH THE GRANTS PROCESS
4 ITSELF.

5 DR. TROUNSON: DR. TALIB WILL LEAD THIS,
6 CHAIR. IF IT HELPS EVERYONE ON THE BOARD, SOHEL
7 TALIB IS AN IMMUNOLOGIST AND A VERY GOOD YOUNG
8 IMMUNOLOGIST WHO'S JOINED US SOME TIME AGO NOW, A
9 YEAR OR MORE AGO, BUT HE IS VERY WELL VERSED IN THIS
10 AREA.

11 DR. TALIB: THANK YOU, DR. TROUNSON. MR.
12 CHAIRMAN, MEMBERS OF THE BOARD, I'D LIKE TO PRESENT
13 FOR YOUR CONSIDERATION RECOMMENDATIONS FROM THE
14 GRANTS WORKING GROUP ON TRANSPLANTATION IMMUNOLOGY
15 AWARDS. IT IS ITEM 8 IN YOUR FOLDERS.

16 SO IN TERMS OF THE SCIENTIFIC RATIONALE
17 FOR THESE AWARDS, IT'S BEEN RECOGNIZED THAT ONE OF
18 THE GREATEST HURDLES IN TRANSLATING STEM CELL
19 RESEARCH TO THE CLINIC IS THE ISSUE OF
20 HISTOCOMPATIBILITY AND GRAFT REJECTION BY THE
21 RECIPIENT'S IMMUNE SYSTEM. MOREOVER, MANY PATIENTS
22 FOR WHICH THESE THERAPIES ARE BEING TARGETED WILL
23 NOT TOLERATE MULTIDRUG IMMUNOSUPPRESSION.
24 THEREFORE, THERE IS A NEED FOR NEW CELL-BASED IMMUNE
25 TOLERANCE STRATEGIES.

BARRISTERS' REPORTING SERVICE

1 SO THE PURPOSE OF THESE AWARDS IS TO
2 SUPPORT TRANSFORMATIVE RESEARCH WHICH WILL LEAD TO
3 THE DEVELOPMENT OF IMMUNE TOLERANCE OF PLURIPOTENT
4 STEM CELL DERIVATIVES AND POTENTIAL CORRECTION OF
5 AUTOIMMUNITY.

6 SPECIFICALLY THESE AWARDS WILL SUPPORT
7 FOLLOWING AREAS OF IMMUNOLOGY RESEARCH. THAT IS,
8 REPROGRAMMING OF THE HOST IMMUNE SYSTEM, ENGINEERING
9 THE STEM CELL DERIVATIVES FOR THE ENGRAFTMENT IN
10 ALLOGENEIC HOST, DEVELOPMENT OF PREDICTIVE ANIMAL
11 MODELS OF HUMAN IMMUNE RESPONSE TO STEM CELL
12 TRANSPLANTATION, TOLERANCE INDUCTION VIA MIXED
13 CHIMERISM, ASSESSMENT OF THE DENDRITIC CELLS AND
14 TOLEROGENIC T-CELLS TO INDUCE TOLERANCE INDUCTION,
15 AND THE DEVELOPMENT OF ASSAYS FOR MONITORING OR
16 PREDICTING GRAFT ACCEPTANCE OR REJECTION.

17 IN TERMS OF THE PROGRAM FEATURES WHICH YOU
18 APPROVED EARLIER THIS YEAR INCLUDES UP TO 20 AWARDS.
19 THESE ARE THREE-YEAR AWARDS WITH A DIRECT PROJECT
20 COST OF UP TO 300,000 PER YEAR AND ESTIMATED TOTAL
21 COST FOR THESE RFA'S, \$30 MILLION.

22 IN TERMS OF THE REVIEW CRITERIA WHICH WAS
23 USED BY THE GRANTS WORKING GROUP TO REVIEW THESE
24 APPLICATIONS, INCLUDES INNOVATION AND IMPACT.
25 BECAUSE WE ARE INTERESTED IN TRANSFORMATIVE

BARRISTERS' REPORTING SERVICE

1 RESEARCH, THE GRANTS WORKING GROUP WERE INSTRUCTED
2 TO PAY ATTENTION TO THOSE APPLICATIONS WHICH HAVE
3 INNOVATION AND HAVE A STRONG SCIENTIFIC RATIONALE.

4 FEASIBILITY AND EXPERIMENTAL DESIGN WAS
5 ALSO AN IMPORTANT REVIEW CRITERIA. AND SINCE THESE
6 AWARDS IN THIS PARTICULAR AREA IS MULTIDISCIPLINARY,
7 WE SPECIFICALLY ASKED THAT THE APPLICANTS SHOULD
8 HAVE EXPERTISE BOTH IN TRANSPLANTATION IMMUNOLOGY
9 AND STEM CELL RESEARCH.

10 THIS SLIDE SHOWS THE SCORE DISTRIBUTION.
11 FOR THESE AWARDS WE RECEIVED TOTAL OF 44
12 APPLICATIONS, AND ALL 44 APPLICATIONS WERE REVIEWED
13 BY THE GRANTS WORKING GROUP. AND I SHOULD POINT OUT
14 AT THE BEGINNING OF THE GRANTS WORKING GROUP, WE
15 MADE THEM AWARE OF THE FACT THAT HISTORICALLY A
16 SCORE OF 75 OR ABOVE IS CONSIDERED -- IS THE AREA
17 WHICH IS APPROVED OR WHICH IS RECOMMENDED FOR
18 FUNDING.

19 IN THIS CASE INITIALLY WHEN THESE GRANTS
20 WERE REVIEWED BY THE GRANTS WORKING GROUP, THEY PUT
21 APPLICATIONS WHICH RECEIVED A SCORE OF 72 OR ABOVE
22 IN THE TIER I CATEGORY; THAT IS, THE CATEGORY
23 RECOMMENDED FOR FUNDING. AND THOSE APPLICATIONS
24 WHICH RECEIVED A SCORE OF LESS THAN 59 WERE PLACED
25 IN A CATEGORY OF TIER III; THAT IS, NOT RECOMMENDED

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1 FOR FUNDING. AND IN BETWEEN WERE THE APPLICATIONS
2 WERE THOSE IN TIER II. SO INITIALLY THEY APPROVED
3 TEN APPLICATIONS ON THE BASIS OF SCIENTIFIC MERIT.

4 FOLLOWING PROGRAMMATIC DISCUSSION, FIVE
5 OTHER ADDITIONAL APPLICATIONS WERE MOVED TO TIER I.
6 SO AT THE END OF THE GRANTS WORKING GROUP
7 RECOMMENDATION, TOTAL OF 15 APPLICATIONS WERE
8 RECOMMENDED BY THE GRANTS WORKING GROUP FOR FUNDING.

9 AND THIS IS SUMMARIZING THIS TABLE. ON
10 LEFT-HAND SIDE IS THE GRANTS WORKING GROUP
11 RECOMMENDATION; THAT IS, TOTAL NUMBER OF APPROVED --
12 TOTAL NUMBER OF APPLICATIONS THAT WERE RECOMMENDED
13 FOR FUNDING IS 15 WITH A TOTAL ESTIMATED COST FOR
14 THESE AWARDS TO ABOUT \$20.3 MILLION. ON THE
15 RIGHT-HAND SIDE COLUMN IS THE ICOC TARGET WHICH YOU
16 APPROVED EARLIER THIS YEAR; THAT IS, A TOTAL OF 20
17 AWARDS WITH AN ESTIMATED COST UP TO \$30 MILLION.

18 IN THE LAST SLIDE I HAVE SUMMARIZED AREAS
19 WHICH WERE OF IMMUNE TOLERANCE STRATEGIES WHICH ARE
20 INVOLVED IN THESE APPLICATIONS OR WHICH ARE PROPOSED
21 IN THESE 15 APPLICATIONS WHICH WERE RECOMMENDED FOR
22 FUNDING. AS YOU SEE HERE, THESE STRATEGIES WHICH
23 ARE PROPOSED AND WHICH WERE ASKED IN OUR APPLICATION
24 THAT WE HAVE APPLICATIONS WHICH ARE COVERING
25 REGULATORY T-CELLS AS AN IMMUNE STRATEGY TO IMMUNE

BARRISTERS' REPORTING SERVICE

1 TOLERANCE, THYMIC EPITHELIAL CELLS, INNATE IMMUNITY
2 AND NK CELLS, IN UTERO TRANSPLANTATION, AND IMMUNE
3 MONITORING AND OTHERS. SO THERE'S A BROAD
4 DISTRIBUTION IN TERMS OF THE AREAS OR THE CATEGORIES
5 WHICH ARE COVERED IN THESE 15 APPLICATIONS WHICH ARE
6 RECOMMENDED FOR FUNDING BY THE GRANTS WORKING GROUP.

7 MR. CHAIRMAN, THIS CONCLUDES MY
8 PRESENTATION, AND I'LL BE HAPPY TO TAKE ANY
9 QUESTIONS YOU HAVE.

10 CHAIRMAN KLEIN: THANK YOU VERY MUCH.
11 JEFF SHEEHY, WOULD YOU LIKE TO SAY SOMETHING AT THIS
12 POINT?

13 MR. SHEEHY: WELL, JUST A COUPLE OF
14 GENERAL COMMENTS. I WANTED TO COMMEND STAFF FOR THE
15 EXTRAORDINARY INDIVIDUALS THAT THEY BROUGHT IN TO
16 REVIEW THESE APPLICATIONS. I THINK, WHAT, YOU HAD
17 ALMOST A THIRD OF THE GROUP FROM OUT OF COUNTRY THIS
18 TIME. AND THEY WERE REALLY EXCEPTIONAL
19 IMMUNOLOGISTS, AND IT WAS AN EXCEPTIONAL ROUND.

20 I DO THINK, THOUGH, THAT ONE UNIQUE
21 FEATURE OF THIS ROUND THAT WE SHOULD CONSIDER AS WE
22 LOOK AT THESE GRANTS AND WE LISTEN TO THE APPEALS
23 THAT HAVE BEEN BROUGHT FORWARD IS TO RECOGNIZE THAT,
24 AT LEAST WHEN I TALK TO REVIEWERS, THIS IS ONE OF
25 THE -- THE FIRST TIME, IF NOT THE FIRST TIME, THAT

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1 STEM CELL SCIENTISTS HAVE BEEN THRUST INTO
2 PARTNERSHIP WITH TRANSPLANT IMMUNOLOGISTS AND
3 BASICALLY FORCED TO COME UP WITH A PROJECT TOGETHER,
4 I MEAN IN SUCH A SYSTEMATIC WAY.

5 THESE TEAMS, PUTTING THESE TEAMS TOGETHER
6 AND GETTING THEM TO WORK TOGETHER ON SOME OF THESE
7 PROBLEMS, I THINK, HAS SIGNIFICANT VALUE IN AND OF
8 ITSELF, TO HAVE SOME OF THE WORLD'S LEADING STEM
9 CELL SCIENTISTS BEING PART OF A TEAM WITH SOME OF
10 THE WORLD'S LEADING IMMUNOLOGISTS. JUST EVEN IF
11 SOME OF THESE THINGS AREN'T QUITE HITTING THE MARK,
12 I THINK IT'S EXTRAORDINARY THAT WE'VE GOT THESE
13 TEAMS TOGETHER. AND ANYTHING THAT WE CAN ENCOURAGE
14 THEM TO DO TO KEEP ON WORKING TOGETHER I THINK WILL
15 HELP US OVERCOME. THIS IS PROBABLY ONE OF THE TWO
16 OR THREE MOST SIGNIFICANT ROADBLOCKS TO CELL THERAPY
17 IS IMMUNE REJECTION.

18 SO I THINK THAT'S -- I THINK IF YOU WANT
19 GO STRAIGHT TO THE GRANTS OR WHATEVER YOU WANT TO DO
20 NEXT, BOB, THAT'S MY GENERAL. I THOUGHT THEY WERE
21 WELL REVIEWED. I THINK THAT THERE'S A NUMBER OF
22 MINORITY REPORTS, SO THERE WERE SOME DIFFERENCES OF
23 OPINION. AND THERE WAS A LIVELY PROGRAMMATIC
24 REVIEW. AND I HOPE FOLKS WILL USE THEIR JUDGMENT
25 AND LOOK AT THE MINORITY REPORTS AND LOOK AT THE

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1 BALANCE. WE DON'T COVER EVERY ASPECT OF THE IMMUNE
2 SYSTEM THROUGH THE STRATEGIES WE HAVE UP THERE. SO
3 THERE MAY BE OTHER ASPECTS OF THE IMMUNE SYSTEM THAT
4 WERE NOT INCLUDED FOR WHICH THERE WAS A MINORITY
5 REPORT. AND I JUST THINK WE SHOULD APPROACH THIS
6 WITH A DUE DEGREE OF DELIBERATION.

7 THIS ROUND WILL NOT BE REPEATED AT LEAST
8 IN THE NEAR TERM, SO I THINK IT'S IMPORTANT FOR US
9 TO CONSIDER THAT AND WE ARE UNDER BUDGET.

10 CHAIRMAN KLEIN: ADDITIONAL COMMENTS FROM
11 THE BOARD?

12 DR. REED: I HAD A QUESTION. IT MAY BE
13 FOR CIRM STAFF. THAT IS, TO PUT THESE APPLICATIONS,
14 THIS NUMBER AND THE AMOUNT OF FUNDING INTO
15 PERSPECTIVE, DO WE HAVE DATA ON NIH FUNDING FOR
16 SIMILAR TYPES OF RESEARCH? ROUGHLY WHAT IS THE NIH
17 FUNDING ANNUALLY ACROSS THE COUNTRY FOR WORK ON
18 IMMUNE TOLERANCE THAT WOULD BE DIRECTLY APPLICABLE
19 TO OUR GOALS HERE?

20 DR. TALIB: IN TERMS OF IMMUNE TOLERANCE,
21 THERE IS IMMUNE TOLERANCE NETWORK WHICH IS FUNDING
22 RESEARCH IN IMMUNE TOLERANCE AREA, BUT THOSE ARE
23 MOSTLY WORKING ON SOLID ORGAN TRANSPLANT OR IN ADULT
24 STEM CELL AREA, BUT NOT SPECIFICALLY DEALING WITH
25 THE ISSUES RELATED TO EMBRYONIC STEM CELL-DERIVED

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1 CELLS AND TISSUES.

2 DR. REED: THANK YOU.

3 CHAIRMAN KLEIN: SO I THINK THE POINT OF
4 THIS COMMENT IS THAT THIS PORTFOLIO IS OUR ONLY
5 PORTFOLIO IN THE IMMUNOLOGY AREA FOCUSED ON STEM
6 CELL AND CELLULAR TRANSPLANTS. IF WE ARE GOING TO
7 MAKE A CONTRIBUTION HERE, THERE'S NOT A LOT OF
8 REDUNDANCY IN THE NATIONAL FUNDING SYSTEM. THIS IS
9 A UNIQUE CONTRIBUTION OF GREAT IMPORTANCE TO OUR
10 ENTIRE PORTFOLIO, AND I'D LIKE TO SEE US WHERE
11 THERE'S REAL QUALITY SCIENCE, EVEN IF IT'S HIGH RISK
12 AND HIGH REWARD, THAT WE TAKE A VERY CLOSE LOOK AT
13 THOSE OPPORTUNITIES BECAUSE WE WON'T SEE THIS ROUND
14 AGAIN FOR QUITE A WHILE.

15 I'D LIKE TO KNOW DOWN THROUGH SCORE NO. 64
16 WHAT THE HIGH, LOW, AND MEDIAN AND STANDARD
17 DEVIATIONS ARE IF I COULD. IF OTHER MEMBERS WANT
18 ADDITIONAL -- THE INFORMATION ON THE ADDITIONAL
19 SCORES, CERTAINLY WE WILL DO THAT, BUT IF WE COULD
20 HAVE THOSE FOR THE BOARD, THAT WOULD BE HELPFUL.

21 DR. SAMBRANO: IF I CAN JUST PROVIDE A
22 LITTLE ORIENTATION ON THIS SPREADSHEET. THIS SCORE
23 IS WHAT YOU ALL TYPICALLY KNOW AS THE AVERAGE SCORE
24 THAT WE'VE TYPICALLY PRESENTED BEFORE. IN ADDITION,
25 THERE ARE COLUMNS THAT ARE SHOWING THE STANDARD

BARRISTERS' REPORTING SERVICE

1 DEVIATION, THE MEDIAN, THE LOWEST, AND THEN THE
2 HIGHEST SCORE GIVEN BY THE INDIVIDUALS FOR THAT
3 PARTICULAR APPLICATION.

4 ALSO, YOU SHOULD NOTE THAT THEY ARE RANKED
5 BY THE SCORE, WHICH IS THE AVERAGE. IF YOU RANK
6 THEM BY MEDIAN, FOR EXAMPLE, ALL THOSE IN TIER I
7 REMAIN IN TIER I.

8 DR. REED: ANOTHER QUESTION. THE LENGTH
9 OF TIME OF THE FUNDING IS HOW MANY YEARS?

10 DR. OLSON: THREE.

11 DR. TROUNSON: IF I COULD JUST ADD
12 INFORMATION TO JOHN'S QUESTION, IN 2009 THERE WAS
13 230 MILLION FUNDED IN TRANSPLANTATION RIGHT ACROSS
14 THE BOARD. AND THERE WAS 586 IN AUTOIMMUNE DISEASE.
15 THEY'RE CLOSELY RELATED.

16 DR. REED: THANK YOU.

17 CHAIRMAN KLEIN: ADDITIONAL QUESTIONS BY
18 THE BOARD? AND WOULD THE BOARD LIKE TO HAVE THE
19 PRESENTATIONS ON THE EXTRAORDINARY PETITIONS AS
20 WE'VE DONE IT BEFORE AFTER OUR EXECUTIVE SESSION SO
21 WE CAN FOCUS ON THOSE THE BOARD IS INTERESTED IN, OR
22 WOULD THE BOARD LIKE ANY PRESENTATIONS ON
23 EXTRAORDINARY PETITIONS BEFORE WE GO INTO EXECUTIVE
24 SESSION? WHAT IS THE PLEASURE OF THE BOARD? IS THE
25 EXISTING PROTOCOL ACCEPTABLE? ALL RIGHT.

BARRISTERS' REPORTING SERVICE

1 ARE THERE SPECIFIC COMMENTS BY THE PUBLIC
2 BEFORE WE GO INTO EXECUTIVE SESSION? APPEARS THE
3 PUBLIC WOULD LIKE TO RESERVE THEIR COMMENTS UNTIL
4 AFTER EXECUTIVE SESSION. SO, DR. TROUNSON, UNLESS
5 THE SCIENTIFIC STAFF HAS ANY COMMENTS, I THINK WE
6 WILL GO INTO --

7 MR. SHEEHY: COULD WE GET A PRINTOUT OF
8 THIS ACTUALLY TO TAKE IN EXECUTIVE SESSION, HAVING
9 THE MEAN AND THE HIGH AND THE LOW AND THE STANDARD
10 DEVIATION, OR WE COULD HAVE A COPY AVAILABLE?

11 CHAIRMAN KLEIN: ARE WE GOING TO DO
12 EXECUTIVE SESSION IN WHICH ROOM?

13 MS. KING: THE SAME ROOM YOU WERE BEFORE.

14 MR. SHEEHY: THAT'S HELPFUL. THAT WILL
15 IMPACT WHICH ONES I MAY WANT TO HAVE ADDITIONAL
16 INFORMATION ON.

17 MS. KING: WE CAN. IT WILL TAKE US FIVE
18 MINUTES, MAYBE TEN MINUTES TO GET THE COPIES MADE
19 AND BROUGHT TO THE ROOM.

20 MR. TORRES: WHAT'S THE PROBLEM WITH
21 HAVING THE EXECUTIVE SESSION HERE? INSTEAD OF US
22 MOVING, OTHER PEOPLE MOVE.

23 MS. KING: SENATOR TORRES RAISES A FINE
24 POINT. MEMBERS OF THE PUBLIC AND STAFF THAT ARE NOT
25 STAYING IN THE CLOSED SESSION TO LEAVE THIS ROOM AND

BARRISTERS' REPORTING SERVICE

1 ENJOY THE SUNSHINE.

2 DR. TROUNSON: YOU NEED SMALLER TABLES, I
3 THINK, CHAIR, IF YOU'RE GOING TO HAVE IT IN THE SAME
4 KIND OF FORMAT THAT YOU USED, SO WE WOULD HAVE TO
5 REARRANGE THE ROOM.

6 DR. PRIETO: IF WE STAY HERE, WE CAN LEAVE
7 THIS UP ON THE SCREEN.

8 CHAIRMAN KLEIN: I THINK THAT THE
9 PRESIDENT'S POINT IS THAT IN ISOLATING GROUPS TO
10 LOOK AT SUBJECT APPLICATIONS AND SEGREGATING OUT
11 CONFLICTS --

12 DR. TROUNSON: WE CAN GET THIS PRINTED.
13 IT TAKES ABOUT SIX MINUTES. OTHERWISE THE CONFLICTS
14 OF INTEREST ISSUES JUST BECOME DIFFICULT.

15 MR. SHEEHY: THE CONFLICTS OF INTEREST
16 ISSUES ARE RESOLVED BY HAVING PEOPLE LEAVE THE ROOM,
17 AND WE HAVE MORE SPACE TO SPREAD OUT IN HERE THAN WE
18 DO IN A SMALL ROOM WHERE WE'RE ON TOP OF EACH OTHER.
19 AND WE CAN PUT ONE IN THAT CORNER OF THE SEATS, ONE
20 IN THAT CORNER OF THE SEATS.

21 CHAIRMAN KLEIN: SO LET'S DO THIS. IT
22 APPEARS THAT WHILE WE CAN GET IT PRINTED OUT, THAT
23 THE SENSE OF THE BOARD IS THAT THEY WOULD LIKE TO
24 TRY AND MEET IN THIS ROOM. SO I'D ASK THE PUBLIC
25 AND THE SCIENTIFIC STAFF THAT IS NOT INVOLVED IN THE

BARRISTERS' REPORTING SERVICE

1 EXECUTIVE SESSION TO GIVE US THE BENEFIT OF THIS
2 ROOM.

3 NOW, I THINK MOST, IF NOT ALL, THE
4 SCIENTIFIC STAFF IS ACTUALLY GOING TO BE INVOLVED IN
5 THE REVIEW, SO THERE'S A LIMITED NUMBER OF PEOPLE
6 THAT WILL NEED TO LEAVE THE ROOM IN THE FIRST PLACE.
7 BUT OUR WONDERFUL, DEDICATED TRANSCRIPTIONIST WILL
8 NEED TO ADJOURN.

9 MR. HARRISON, COULD YOU CITE THE SECTION
10 FOR EXECUTIVE SESSION FOR INTELLECTUAL PROPERTY AND
11 PEER REVIEW PROPRIETARY DISCUSSIONS.

12 MR. HARRISON: YES. THE BOARD WILL BE
13 CONVENING IN CLOSED SESSION TO DISCUSS CONFIDENTIAL
14 INTELLECTUAL PROPERTY OR OTHER WORK PRODUCT AND
15 PREPUBLICATION AND CONFIDENTIAL SCIENTIFIC RESEARCH
16 OR DATA RELATING TO APPLICATIONS FOR CIRM STEM CELL
17 TRANSPLANTATION IMMUNOLOGY RESEARCH AWARDS PURSUANT
18 TO HEALTH AND SAFETY CODE SECTION 125290.30(D)(3)(B)
19 AND (C).

20 CHAIRMAN KLEIN: WHOSE COMPUTER IS THIS
21 CHART ON?

22 MS. KING: MINE. I'M STAYING.

23 CHAIRMAN KLEIN: SO WITH THAT, WE WILL GO
24 INTO EXECUTIVE SESSION. AND WE THANK THE MEMBERS OF
25 THE STAFF AND PUBLIC WHO CANNOT ATTEND THE EXECUTIVE

BARRISTERS' REPORTING SERVICE

1 SESSION FOR THEIR COOPERATION.

2 (THE BOARD WHEN RECONVENED IN CLOSED
3 SESSION AT 02:21 PM, NOT REPORTED NOR HEREIN
4 TRANSCRIBED. FOLLOWING THE CLOSED SESSION, THE
5 BOARD THEN RECONVENED IN OPEN SESSION AND WERE HEARD
6 AS FOLLOWS:)

7 CHAIRMAN KLEIN: OKAY. THANK YOU. WE'RE
8 JUST WAITING FOR THE PUBLIC TO REJOIN US HERE. IF
9 STAFF WOULD GO OUT TO THE VERY FRONT, AND I KNOW
10 THERE'S A COUPLE MEMBERS OF THE PUBLIC MIGHT BE IN
11 THE GENERAL LOUNGE.

12 DR. FRIEDMAN: BOB, WE'RE ALL SET HERE AT
13 THE CITY OF HOPE. THANK YOU.

14 CHAIRMAN KLEIN: THANK YOU SO MUCH.

15 DISCUSSING LOGISTICS HERE, GIVEN THAT WE
16 DON'T HAVE AN EXCEEDINGLY LARGE NUMBER, I WOULD
17 SUGGEST WE GO THROUGH THESE ONE AT A TIME. JEFF, IS
18 THAT ACCEPTABLE TO YOU?

19 MR. SHEEHY: SOUNDS LIKE A GREAT IDEA.

20 CHAIRMAN KLEIN: ALL RIGHT. WHILE WE'RE
21 WAITING FOR THE PUBLIC, WE'RE BACK IN PUBLIC
22 SESSION, DR. REED.

23 DR. REED: I HAD TWO, ONE QUESTION AND ONE
24 COMMENT. QUESTION IS WITH RESPECT TO THE PETITIONS
25 THAT WERE FILED, WERE ALL OF THE PETITIONS THAT

BARRISTERS' REPORTING SERVICE

1 WE'RE CONSIDERING RECEIVED BY THE TIME OF THE CIRM
2 DEADLINE? I BELIEVE THERE WAS A DEADLINE POSTED.

3 DR. TROUNSON: NO, THEY WEREN'T, JOHN.
4 GIL WILL GIVE YOU THE DETAILS, BUT THERE WERE ONLY
5 THREE OF THEM RECEIVED IN TIME.

6 DR. REED: WHY ARE WE CONSIDERING THE
7 OTHERS THEN?

8 CHAIRMAN KLEIN: I'D LIKE TO SAY THAT, DR.
9 REED, WHILE WE REALLY WANT TO ENCOURAGE PEOPLE VERY
10 STRONGLY TO RESPOND TO THE DEADLINE, WE HAD A VERY
11 UNIQUE SITUATION HERE THAT WE HAD ISSCR IN THE WEEK
12 BEFORE THIS MEETING. AND THE SCIENTISTS THAT WE
13 WERE WANTING TO GET -- MANY OF THE SCIENTISTS WHO
14 HAD GRANTS BEFORE US WERE AT ISSCR WITH OBLIGATIONS
15 THERE AT THE IDENTICAL TIME, SO WE KIND OF HAD
16 EXTRAORDINARY PRESSURES ON INDIVIDUALS.

17 I WOULD ALSO SAY SECONDARILY THAT BECAUSE
18 THIS IS A NONRECURRING ROUND AND BECAUSE IT'S A
19 UNIQUE ROUND IN IMMUNOLOGY, THERE'S A DIFFERENT
20 IMPACT OF FORCING SOMEONE OUT OF THIS ROUND FOR A
21 LACK OF A PETITION IN TIME THAN THERE WOULD BE A
22 RECURRING ROUND.

23 DR. REED: JUST FOR CLARIFICATION, SO WHAT
24 WAS THE DURATION FROM THE TIME THAT SCORES WERE
25 RECEIVED AND CANDIDATES WERE GIVEN SOME INKLING OR

BARRISTERS' REPORTING SERVICE

1 SOME SORT OF INDICATION THAT PERHAPS THEY WERE NOT
2 GOING TO BE WITHIN THE FUNDABLE RANGE AND THE TIME
3 THAT THEY WERE THEN ASKED TO PROVIDE SOME SORT OF A
4 RESPONSE IF THEY CHOSE TO?

5 DR. TROUNSON: SO GIL OR REBECCA, CAN YOU
6 GIVE US THAT TIMEFRAME?

7 DR. SAMBRANO: RIGHT. SO BETWEEN THE TIME
8 THAT THEY WERE SENT THEIR SUMMARY, WHICH WAS BY
9 E-MAIL, WAS APPROXIMATELY EIGHT TO TEN DAYS BEFORE
10 THE DEADLINE.

11 DR. REED: OKAY. I THINK GIVEN THE
12 RELATIVELY SHORT AMOUNT OF TIME, THAT IT WOULD MAKE
13 SENSE TO CONSIDER ALL THE RESPONSES, BUT THANKS FOR
14 THAT CLARIFICATION.

15 CHAIRMAN KLEIN: MR. SHEEHY.

16 MR. SHEEHY: WELL, I JUST WANT TO MAKE A
17 POINT ABOUT THE EXTRAORDINARY PETITIONS. WHETHER
18 THEY'RE RECEIVED ON TIME OR LATE, WE DON'T HAVE TO
19 CONSIDER THEM AT ALL. AND WHETHER THEY'RE RECEIVED
20 ON TIME OR LATE, THEY HAVE TO BE GIVEN TO US BECAUSE
21 WE'RE A PUBLIC BODY. UNDER BAGLEY-KEENE PEOPLE CAN
22 COME AND GIVE US LETTERS AND THEY CAN COME AND SPEAK
23 TO US WHEN MATTERS ARE UNDER CONSIDERATION.

24 IT WOULD BE HELPFUL, I THINK, AS A BODY IF
25 WE STARTED THINKING ABOUT ONLY LOOKING AT

BARRISTERS' REPORTING SERVICE

1 EXTRAORDINARY PETITIONS, WHETHER LATE OR EARLY, THAT
2 HAD SOME VALUE AND DIDN'T PAY ANY ATTENTION TO THOSE
3 THAT DIDN'T HAVE ANY MERIT OR VALUE. THAT SHOULD BE
4 THE METRIC WE USE. OTHERWISE WE'RE INVITING
5 EVERYBODY TO GIVE US EXTRAORDINARY PETITIONS, WHICH
6 IS BASICALLY WHAT HAPPENED THIS TIME. WE CANNOT
7 MECHANICALLY CONTROL IT GIVEN THE PUBLIC MEETING
8 LAWS WHICH GOVERN THE OPERATION OF THIS BOARD. THE
9 WAY WE CONTROL IT IS TO EXERCISE DISCIPLINE. AND IF
10 SOMEONE GIVES AN EXTRAORDINARY PETITION AND NO ONE
11 ON THIS BOARD FINDS ANY MERIT IN IT, WE JUST DON'T
12 DISCUSS IT. WE DON'T BRING IT UP. AND PERHAPS THAT
13 COULD BE PERSUASIVE TO FOLKS THAT THIS IS NOT
14 NECESSARILY ALWAYS THE BEST USE OF THEIR TIME.

15 CHAIRMAN KLEIN: SO I THINK AS WE GO
16 THROUGH HERE TODAY, WE MAY FIND THAT NOT ALL OF
17 THESE ARE PICKED UP FOR DISCUSSION BY MEMBERS OR THE
18 SCIENTIFIC STAFF. AND THAT WILL HOPEFULLY SEND A
19 STRONG MESSAGE THAT THERE'S GOT TO BE SOME STRONG
20 MERIT.

21 IT APPEARS THAT WE HAVE A COUPLE OF
22 MEMBERS OF THE PUBLIC THAT WERE HERE BEFORE THAT ARE
23 STILL NOT BACK.

24 MS. KING: WE'RE WORKING ON GETTING THEM
25 BACK. WE KNOW WHERE THEY WERE SITTING A WHILE AGO

BARRISTERS' REPORTING SERVICE

1 AND WE'RE HONING IN ON THEM.

2 CHAIRMAN KLEIN: OKAY. SO I'D LIKE TO
3 START WITH NO. 1743. AND IF WE COULD HAVE THE
4 SCIENTIFIC STAFF ADDRESS 1743, PLEASE.

5 MR. SHEEHY: BOB, THE WAY WE TYPICALLY
6 HAVE DONE THIS IS IF YOU WANT TO MOVE DOWN THE LIST,
7 YOU SHOULD ASK FOR A MOTION. IF THERE'S NO MOTION,
8 WE DON'T NEED TO TALK ABOUT IT. LET'S EITHER HAVE A
9 MOTION -- IF THERE'S NO MOTION TO MOVE IT INTO
10 FUNDING --

11 CHAIRMAN KLEIN: POINT WELL TAKEN. THIS
12 WAS AN ITEM BROUGHT UP BEFORE. IS THERE A MOTION
13 FOR FUNDING OF 1743?

14 DR. REED: QUESTION BEFORE WE DO THAT.
15 WHAT ABOUT THE GRANTS THAT WERE CLEARLY RECOMMENDED
16 FOR FUNDING?

17 CHAIRMAN KLEIN: WE'RE GOING TO COME BACK
18 AFTER WE'VE MOVED GRANTS FROM THESE CATEGORIES UP,
19 IF WE MOVE ANY OF THEM UP, AND TAKE A VOTE. WE
20 COULD ALSO, IF YOU WOULD PREFER, IF YOU'D LIKE TO
21 MOVE SOMETHING DOWN OUT OF THE CATEGORY, OUT OF THE
22 PRIOR CATEGORY, OUT OF THE FUNDING, WE COULD ADDRESS
23 THAT BEFORE WE GO TO ANYTHING IN THOSE CATEGORIES.

24 DR. REED: I WAS GOING TO MOVE THAT WE
25 FUND ALL THOSE IN THE TOP TIER RANGE THAT WERE

BARRISTERS' REPORTING SERVICE

1 RECOMMENDED FOR FUNDING AND WE GET THAT ESTABLISHED
2 AND THEN MOVE INTO ANY OTHER OTHERS THAT WE WISH TO
3 CONSIDER LATER IN THE MEETING.

4 CHAIRMAN KLEIN: WELL, WE WILL HAVE A
5 MOTION LATER, MR. HARRISON, THAT WILL ADDRESS
6 FUNDING EVERYTHING THAT IS IN THAT CATEGORY NOW AND
7 HAS BEEN MOVED INTO THAT CATEGORY WHERE INDIVIDUALS
8 WILL HAVE TO VOTE YEA OR NAY EXCEPT FOR THOSE FOR
9 WHICH THEY HAVE A CONFLICT. AND SO, JOHN, I THINK
10 WE'LL TAKE CARE OF THAT, DR. REED, AFTER WE'VE BEEN
11 ABLE TO MOVE -- DECIDE WHETHER WE'RE MOVING ANYTHING
12 INTO THAT CATEGORY.

13 MR. SHEEHY: SO I MOVE TO MOVE 1743 INTO
14 THE FUNDING CATEGORY. THE MEDIAN IS WITHIN THE
15 RANGE OF WHAT WE FUNDED, AND IT LOOKS LIKE AN
16 INTERESTING APPROACH, AND IT'S A GOOD TEAM. AND IT
17 DOESN'T -- I DON'T READ IN THE REVIEW TERRIBLE
18 THINGS ABOUT IT. AND I THINK IT'S VERY IMPORTANT
19 THAT WE GET THESE TEAMS WORKING. IT'S AN INCREDIBLY
20 IMPORTANT OBSTACLE TO THE FURTHERANCE OF STEM CELL
21 RESEARCH.

22 DR. BRYANT: SECONDED.

23 CHAIRMAN KLEIN: SECOND BY DR. BRYANT.
24 I'D LIKE TO JUST ADD TO THAT THERE WAS QUITE A BIT
25 OF SUPPORT AMONG THE PEER REVIEW GROUP. THERE'S

BARRISTERS' REPORTING SERVICE

1 OBVIOUSLY A COUPLE OF -- THERE'S A VERY LOW SCORE
2 WITH RECUSALS STATISTICALLY. JUST ONE SCORE THAT'S
3 AT A 50 CAN REDUCE THE AVERAGE SCORE SIGNIFICANTLY.
4 AND AS JEFF SAID, THE MEDIAN CLEARLY IS IN THE RANGE
5 WE FUNDED. AND A LOT OF VERY POSITIVE THINGS WERE
6 SAID IN THE REVIEW ABOUT THE QUALITY OF THE TEAM.

7 ANY ADDITIONAL COMMENTS ON THIS ONE? IS
8 THERE ANY ADDITIONAL PUBLIC COMMENT? DR. FRIEDMAN,
9 DO YOU HAVE ANY COMMENT?

10 DR. FRIEDMAN: I HAVE NO COMMENT. THANK
11 YOU.

12 CHAIRMAN KLEIN: DOES YOUR PUBLIC THERE
13 HAVE ANY COMMENT?

14 UNIDENTIFIED PUBLIC: I HAVE NO COMMENT.

15 CHAIRMAN KLEIN: THANK YOU. I THINK IF WE
16 COULD REMIND EVERYONE ABOUT THE CONFLICTS ON THIS,
17 PLEASE. I WANT TO REMIND PEOPLE OF THE CONFLICTS.

18 MS. KING: WE HAVE ACTUALLY A MORE
19 IMPORTANT --

20 MR. SHEEHY: WE GENERALLY CALL THE ROLL
21 WITHOUT CALLING THE CONFLICTS.

22 CHAIRMAN KLEIN: PROCEDURALLY WE WILL
23 AVOID THOSE THAT HAVE A CONFLICT. PLEASE, I'D JUST
24 LIKE TO REMIND YOU YOU SHOULD HAVE A LIST WITH YOU
25 OF YOUR CONFLICTS.

BARRISTERS' REPORTING SERVICE

1 MR. HARRISON: UNFORTUNATELY BECAUSE OF
2 THE PRESENT QUORUM WE HAVE CONSTITUTED NOW, WE'RE
3 GOING TO HAVE TO DEFER ACTION ON THIS ITEM BECAUSE
4 WE DON'T PRESENTLY HAVE ENOUGH MEMBERS TO ADDRESS
5 IT. SO AT 5:30, WHEN WE EXPECT DR. HAWGOOD TO
6 ARRIVE, WE CAN RETURN TO THIS PARTICULAR ITEM.

7 CHAIRMAN KLEIN: FOR THE BENEFIT OF THE
8 AUDIENCE, COULD YOU PLEASE EXPLAIN THE MATH TO THIS,
9 PLEASE.

10 MR. HARRISON: IT'S A LITTLE BIT
11 COMPLICATED, BUT YES. MEMBERS WHO ARE IN CONFLICT
12 DON'T COUNT FOR PURPOSES OF ESTABLISHING A QUORUM.
13 AND WHEN THE BALANCE OF MEMBERS WHO ARE PRESENT AND
14 THOSE WHO ARE ABSENT INCLUDES A HIGH NUMBER OF THOSE
15 WHO HAVE CONFLICTS AND A RELATIVELY LOWER NUMBER OF
16 THOSE WITHOUT, WE CAN'T ACHIEVE A QUORUM IN ORDER TO
17 TAKE ACTION. IN THIS PARTICULAR CASE WE'RE ONE
18 MEMBER SHORT WITHOUT A CONFLICT IN ORDER TO TAKE
19 ACTION.

20 CHAIRMAN KLEIN: AND WE EXPECT TO HAVE
21 THAT MEMBER JOINING US.

22 MS. KING: IF EVERYBODY THAT'S HERE RIGHT
23 NOW AND ON THE PHONE STAYS WITH US UNTIL DR. HAWGOOD
24 GETS HERE, WHICH WILL HOPEFULLY BE AT 5:30, THEN WE
25 CAN TAKE ACTION ON THIS. IF WE LOSE ANYBODY, WE

BARRISTERS' REPORTING SERVICE

1 MIGHT NOT BE ABLE TO.

2 MR. SHEEHY: I MEAN JUST TO MAINTAIN THE
3 QUALITY OF THE DISCOURSE AND THE CONTINUITY, COULD
4 WE JUST LEAVE THIS OPEN BECAUSE WE'VE DONE THAT
5 BEFORE?

6 MR. HARRISON: SURE.

7 MR. SHEEHY: AND I THINK THAT MIGHT BE A
8 LITTLE BIT EASIER. BECAUSE THIS IS FRESH, WE'VE
9 JUST BEEN DISCUSSING IT. AND DR. HAWGOOD, WHEN HE
10 COMES, CAN LOOK AT THE ITEM AND REGISTER HIS VOTE IN
11 WHATEVER WAY HE FEELS APPROPRIATE.

12 CHAIRMAN KLEIN: ALL RIGHT. WITHOUT
13 OPPOSITION. WOULD YOU CALL THE ROLL OF THOSE WHO
14 ARE NOT IN CONFLICT.

15 MS. KING: DONALD DAFOE.

16 CHAIRMAN KLEIN: YOU ARE NOT IN CONFLICT
17 AND ARE YOU IN FAVOR OF MOVING THIS INTO THE FUNDING
18 CATEGORY?

19 DR. DAFOE: YES.

20 MS. KING: ROBERT PRICE.

21 DR. PRICE: YES.

22 MS. KING: FLOYD BLOOM.

23 DR. BLOOM: YES.

24 MS. KING: WILLIAM BRODY.

25 DR. BRODY: YES.

BARRISTERS' REPORTING SERVICE

1 MS. KING: SUSAN BRYANT.
2 DR. BRYANT: YES.
3 MS. KING: MICHAEL FRIEDMAN.
4 DR. FRIEDMAN: YES.
5 MS. KING: BOB KLEIN.
6 CHAIRMAN KLEIN: YES.
7 MS. KING: GERALD LEVEY.
8 DR. LEVEY: YES.
9 MS. KING: FRANCISCO PRIETO.
10 DR. PRIETO: YES.
11 MS. KING: ROBERT QUINT. DUANE ROTH.
12 MR. ROTH: YES.
13 MS. KING: JOAN SAMUELSON.
14 MS. SAMUELSON: YES.
15 MS. KING: DAVID SERRANO-SEWELL.
16 MR. SERRANO-SEWELL: YES.
17 MS. KING: JEFF SHEEHY.
18 MR. SHEEHY: YES.
19 MS. KING: OSWALD STEWARD.
20 DR. STEWARD: YES.
21 MS. KING: ART TORRES.
22 MR. TORRES: AYE.
23 MS. KING: WE WILL NEED TO COME BACK TO
24 DR. HAWGOOD AND DR. QUINT. IF SOMEONE COULD GET
25 DR. QUINT, THAT WOULD BE HELPFUL.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: FOR THE RECORD, EVEN IF
2 WE ARE IMMEDIATELY ABLE TO LOG IN DR. QUINT'S VOTE,
3 WE'LL LEAVE THIS OPEN PENDING DR. HAWGOOD'S ARRIVAL.

4 ALL RIGHT. THE NEXT ITEM IS 1717. IS
5 THERE A MOTION TO MOVE 1717 INTO FUNDING OR LEAVE IT
6 WHERE IT IS?

7 DR. QUINT, ON 1743 THERE'S BEEN A MOTION
8 BY JEFF SHEEHY, THERE'S SUPPORT BY DR. SUSAN BRYANT,
9 THERE HAVE BEEN INDIVIDUALS WHO HAVE SPOKEN IN
10 FAVOR, NO ONE HAS SPOKEN OPPOSED. WE'VE HAD A VOTE.
11 THE VOTE IS OPEN. YOUR VOTE WILL NOT DETERMINE THE
12 OUTCOME, BUT WE DO NEED IT FOR PURPOSES OF A QUORUM.
13 QUESTION IS ARE YOU -- CAN HE ABSTAIN? HE CAN
14 ABSTAIN.

15 DR. QUINT: ABSTAIN.

16 CHAIRMAN KLEIN: ALL RIGHT. SO 1717, IS
17 THERE ANYONE THAT WOULD MAKE A MOTION ON THIS ITEM?

18 MR. SHEEHY: YES. I WOULD MOVE TO MOVE
19 1717 INTO THE FUNDABLE CATEGORY, BOTH ON THE BASIS
20 OF THE MINORITY REPORT, WHICH NOTES ITS
21 PROGRAMMATICALLY IMPORTANT, UNIQUE USE OF ETHNICALLY
22 DIVERSE CELL LINES AND BECAUSE OF THE KEY EXPERTISE
23 IN THE AREA OF THYMIC DEVELOPMENT, WHICH IS ALSO
24 NOTED. AND THE ELEMENT THAT WE IDENTIFIED WITH THE
25 MISMARKED PRELIMINARY DATA, THE MISMATCH BETWEEN THE

BARRISTERS' REPORTING SERVICE

1 MARKING BETWEEN THE PRELIMINARY DATA AND THE DATA
2 THAT WAS USED IN THE PROPOSAL, I THINK THAT THAT HAS
3 BEEN IDENTIFIED AND RECOGNIZED THAT THAT WAS PART OF
4 THE REASON WHY ITS SCORE WAS DIMINISHED.

5 CHAIRMAN KLEIN: SO TO BE CLEAR, MR.
6 SHEEHY, MY UNDERSTANDING IS THAT IN THE INTRODUCTION
7 TO THE GRANT, IT DESCRIBED THE CELL TYPE. WHEN IT
8 CAME TO THE DATA CHARTS, THE TOP OF THE DATA CHART
9 INDICATED A DIFFERENT CELL TYPE. THAT WAS, IN FACT,
10 AN ERROR, AND THE EXTRAORDINARY PETITION IDENTIFIED,
11 IN FACT, THE ERROR IN LABELING OF THE CHART. IS
12 THAT A CORRECT STATEMENT?

13 MR. SHEEHY: YES.

14 CHAIRMAN KLEIN: THANK YOU. SO THERE'S A
15 MOTION. IS THERE A SECOND? DID I HEAR A SECOND?

16 MR. TORRES: SECOND.

17 CHAIRMAN KLEIN: SECOND BY SENATOR TORRES.
18 ADDITIONAL DISCUSSION BY THE MEMBERS?

19 DR. REED: QUESTION. THEN TO THE EXTENT
20 THAT --

21 CHAIRMAN KLEIN: HOLD ON, DR. REED. LET'S
22 CONFIRM THE CONFLICTS.

23 DR. REED: I DON'T KNOW IF I HAVE A
24 CONFLICT ON THIS OR NOT.

25 MR. HARRISON: YOU DO.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: YOU DO HAVE A CONFLICT.

2 DR. REED: I DO HAVE ONE. WELL, I SHALL
3 SAY NOTHING THEN.

4 CHAIRMAN KLEIN: YES. MR. HARRISON, THE
5 PROTOCOL YOU'D LIKE TO FOLLOW HERE, SINCE WE HAVEN'T
6 OTHERWISE IDENTIFIED THE CONFLICTS, FOR PURPOSES OF
7 THE MEMBERS KNOWING WHETHER THEY ARE IN CONFLICT AND
8 CAN VOTE.

9 MR. HARRISON: MEMBERS SHOULD ALL HAVE A
10 LIST IN FRONT OF THEM ITEMIZED WITH THE NUMBERS OF
11 THE APPLICATIONS IN WHICH THEY HAVE A CONFLICT. SO
12 IF MEMBERS COULD CONSULT THEIR LISTS BEFORE
13 SPEAKING, THAT WOULD PROBABLY BE THE BEST WAY TO
14 ADDRESS IT.

15 CHAIRMAN KLEIN: I'D PREFER A DOUBLE
16 FIREWALL HERE. AND WHEN I CALL ON SOMEONE, IF
17 THEY'D JUST HESITATE A MOMENT BEFORE THEY SPEAK SO
18 THAT MR. HARRISON AND SCOTT TOCHER CAN BOTH CHECK
19 THEIR CONFLICTS LIST.

20 MR. HARRISON: WE WILL DOUBLE-CHECK AND
21 ADMONISH ANYONE WHO TRIES TO SPEAK.

22 CHAIRMAN KLEIN: SO IS THERE ANYONE ELSE
23 WHO WOULD LIKE TO SPEAK TO 1717?

24 DR. TROUNSON: I CAN'T SPEAK, BUT A MEMBER
25 OF STAFF WOULD LIKE TO.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: ALL RIGHT. STAFF.

2 DOCTOR, YOU'RE RECOGNIZED.

3 DR. COLLINS: JUST TO CLARIFY 1717, THE
4 CONFUSION ABOUT THE CELL TYPES. REVIEWERS WERE
5 CONCERNED THAT THE CHOICE OF CELL TYPE TO BE USED IN
6 THE STUDIES WAS NOT OPTIMAL. AND THERE WAS ALSO --
7 AND THAT'S BECAUSE THAT CELL TYPE TENDS TO EITHER
8 NOT DIFFERENTIATE OR POTENTIALLY DIFFERENTIATE INTO
9 ASTROCYTES, WHICH IS NOT THE THERAPEUTIC EFFECT THAT
10 THEY WERE AFTER.

11 AND THE OTHER CONCERN WITH THE CELLS WAS
12 THAT THE PRELIMINARY DATA SAID THAT THEY HAD SHOWN
13 EFFICACY WITH OLIGODENDROCYTE PRECURSOR CELLS, WHICH
14 WOULD BE THE MORE TYPICAL CELL TYPE TO USE IN THIS
15 DISEASE MODEL. WHAT CAME OUT IN THE DISCUSSION AND
16 IN THE PETITION WAS THAT ACTUALLY THAT WAS NOT
17 OLIGODENDROCYTE PRECURSOR CELLS IN THE PRELIMINARY
18 DATA. IT WAS, INDEED, NEURAL STEM CELLS, WHICH IS
19 WHAT WAS PROPOSED IN THE RESEARCH PLAN AND WAS A
20 SOURCE OF A LITTLE BIT OF DISSATISFACTION TO THE
21 REVIEWERS BECAUSE THEY FELT THAT PERHAPS OPC WAS
22 INDEED A BETTER CELL TYPE TO USE. SO DOES THAT
23 CLARIFY?

24 CHAIRMAN KLEIN: THANK YOU. BUT THERE WAS
25 A MISLABELING OF THE DATA CHART; IS THAT CORRECT?

BARRISTERS' REPORTING SERVICE

1 DR. COLLINS: YES. THE DATA WAS ACTUALLY
2 MISLABELED. AND SO THE PROPOSAL HAS PRELIMINARY
3 DATA WITH NEURAL STEM CELLS AND IS PROPOSING TO USE
4 NEURAL STEM CELLS, AND THE REVIEWER CONCERN WAS THAT
5 OLIGODENDROCYTE PRECURSOR CELLS MIGHT HAVE BEEN AN
6 IDEAL CHOICE.

7 CHAIRMAN KLEIN: OKAY. IS THERE PUBLIC
8 INPUT ON THIS ITEM?

9 DR. FRIEDMAN: NONE FROM CITY OF HOPE.

10 CHAIRMAN KLEIN: WE DO HAVE DR. LORING
11 HERE FROM SCRIPPS WHO HAS A COMMENT.

12 DR. LORING: ACTUALLY I'M REALLY HERE JUST
13 TO ANSWER QUESTIONS BECAUSE THIS IS MY GRANT. I WAS
14 THE PI. I'M A STEM CELL RESEARCHER, AND THIS WAS AN
15 OPPORTUNITY FOR ME TO BE ABLE TO BE FORCED, SO TO
16 SPEAK, TO WORK WITH AN IMMUNOLOGIST. I'VE BEEN
17 DYING TO WORK WITH AN IMMUNOLOGIST FOR YEARS. AND I
18 FOUND A PAIR OF IMMUNOLOGISTS THAT ARE REALLY
19 EXCEPTIONAL AND WHO ARE VERY INTERESTED IN THE
20 PROJECT THAT WE HAVE PROPOSED.

21 I THINK THE MAJOR ISSUES HERE WERE THE
22 ETHNIC DIVERSITY OR THE HLA ETHNIC DIVERSITY OF THE
23 CELLS THAT WE ARE GOING TO PROVIDE, AND THEN THERE
24 WAS THE MISLABELING IN THE IMMUNOLOGY SECTION, WHICH
25 I CONFESS I DID NOT CATCH. ONE OF MY COLLEAGUES HAD

BARRISTERS' REPORTING SERVICE

1 USED A FIGURE FROM ANOTHER APPLICATION. AND WE DO
2 INDEED INTEND TO USE NEURAL STEM CELLS. ALL OF TOM
3 LANE'S RESEARCH INDICATES THAT NEURAL STEM CELLS ARE
4 THE APPROPRIATE CELL TYPE.

5 SO WITH THAT, I'M HAPPY TO ANSWER ANY
6 OTHER QUESTIONS THAT MAY HAVE ARISEN.

7 CHAIRMAN KLEIN: IT'S MY UNDERSTANDING ON
8 THIS GRANT THAT YOU'RE USING AN OUTSTANDING
9 IMMUNOLOGIST.

10 DR. LORING: EXTRAORDINARY, I THINK, YEAH.

11 CHAIRMAN KLEIN: FROM THAT VIEWPOINT. DO
12 YOU WANT TO COMMENT AT ALL ON THE QUALIFICATIONS OF
13 THAT IMMUNOLOGIST?

14 DR. LORING: YEAH. THE TEAM IN MELBOURNE
15 IS RICHARD BOYD AND HIS COLLEAGUE DR. TOH. AND THEY
16 ARE, I UNDERSTAND, SOME OF THE WORLD'S BEST IN THIS
17 THYMIC REEDUCATION SORT OF APPROACH TO ADAPTING THE
18 IMMUNE SYSTEM TO ACCEPT EXOGENOUS CELLS.

19 I HAVE TALKED TO RICHARD A GREAT DEAL.
20 JUST MET WITH HIM AT THE ISSCR MEETING. I AM ON
21 ANOTHER PROJECT WITH RICHARD AS WELL, AN ALZHEIMER'S
22 PROJECT. AND I'VE BEEN VERY IMPRESSED WITH THE
23 PROGRESS THAT HE'S MADE TOWARDS THE GOALS, WHICH ARE
24 ESSENTIALLY SIMILAR, TO MAKE THE IMMUNE SYSTEM OF
25 THE HOST ACCEPT OTHER CELLS AS THEIR OWN. I THINK

BARRISTERS' REPORTING SERVICE

1 IT'S ONE OF THE MOST PROMISING APPROACHES THAT I'VE
2 EVER HEARD OF.

3 NOW, AGAIN, I'M NOT AN IMMUNOLOGIST, BUT I
4 WAS QUITE CONVINCED BY THE DATA THAT I SAW THAT THIS
5 WOULD BE THE KIND OF APPROACH I WANTED TO BE
6 INVOLVED IN.

7 CHAIRMAN KLEIN: JEFF SHEEHY.

8 MR. SHEEHY: YOU HAVE A DISEASE TARGET?

9 DR. LORING: MS.

10 MR. SHEEHY: AND YOU PROPOSE TO? WHAT DO
11 YOU PROPOSE?

12 DR. LORING: REMYELINATION WITH NEURAL
13 STEM CELLS. I THOUGHT IT WAS KIND OF -- IT'S TOM
14 LANE'S MODEL. HE'S AT UC IRVINE. HE'S THE OTHER
15 MEMBER OF OUR TEAM. AND I THOUGHT THAT IT WAS A
16 PARTICULARLY AMENABLE MODEL FOR TESTING OUR HLA CELL
17 TYPES.

18 CHAIRMAN KLEIN: ALL RIGHT. AND I THINK
19 THAT THERE'S VERY STRONG SUPPORT, AS I SAID, FOR THE
20 IMMUNOLOGISTS. AND I WOULD SAY THE THYMUS IS ONE OF
21 OUR BASIC APPROACHES TO IMMUNOLOGY, ONE OF THE KEY
22 OPTIONS. AND THE TEAM, IN TERMS OF HAVING ACCESS TO
23 EXPERTISE IN THE THYMUS, WAS REVIEWED VERY HIGHLY.

24 ANY ADDITIONAL BOARD COMMENT ON THIS? I
25 BELIEVE THAT WE HAVE A MOTION AND A SECOND. WE'VE

BARRISTERS' REPORTING SERVICE

1 HEARD ALL PUBLIC COMMENT. COULD WE HAVE A ROLL
2 CALL, PLEASE.

3 MS. KING: DONALD DAFOE.

4 DR. DAFOE: YES.

5 MS. KING: ROBERT PRICE.

6 DR. PRICE: YES.

7 MS. KING: WILLIAM BRODY.

8 DR. BRODY: YES.

9 MS. KING: MICHAEL FRIEDMAN.

10 DR. FRIEDMAN: YES.

11 MS. KING: BOB KLEIN.

12 CHAIRMAN KLEIN: YES.

13 MS. KING: GERALD LEVEY.

14 DR. LEVEY: YES.

15 MS. KING: FRANCISCO PRIETO.

16 DR. PRIETO: YES.

17 MS. KING: CARMEN PULIAFITO.

18 DR. PULIAFITO: YES.

19 MS. KING: ROBERT QUINT.

20 DR. QUINT: YES.

21 MS. KING: DUANE ROTH.

22 MR. ROTH: YES.

23 MS. KING: JOAN SAMUELSON.

24 MS. SAMUELSON: YES.

25 MS. KING: DAVID SERRANO-SEWELL.

BARRISTERS' REPORTING SERVICE

1 MR. SERRANO-SEWELL: YES.

2 MS. KING: JEFF SHEEHY.

3 MR. SHEEHY: YES.

4 MS. KING: ART TORRES.

5 MR. TORRES: AYE.

6 MS. KING: I BELIEVE, COUNSEL, WE ACTUALLY
7 EVEN HAD A VOTING QUORUM FOR THIS ONE. WE'LL HAVE
8 COUNSEL TELL US WHETHER OR NOT THAT MOTION CARRIES.

9 CHAIRMAN KLEIN: WHILE THE COUNSEL IS
10 MAKING SURE THAT THE EXACT MATHEMATICS WITH THE
11 NONVOTING MEMBERS WORKS, WE WILL GO ON AND ASK ON
12 1745, IS THERE A MOTION TO FUND 1745? OKAY.

13 I DON'T SEE A MOTION FROM ANY MEMBER OF
14 THE BOARD. IS THERE ANY PUBLIC MEMBER TO SPEAK? I
15 SEE NO PUBLIC MEMBER.

16 I'M GOING TO GO ON TO 1710. 1710, IS
17 THERE A MOTION TO FUND ON 1710? MR. SHEEHY.

18 MR. SHEEHY: YES. I WOULD MOVE TO FUND
19 1710. WE HAVE NO DENDRITIC CELL APPLICATION, SO
20 PROGRAMMATICALLY IN TIER I. AND I THINK THAT WE
21 SHOULD INCLUDE THOSE APPROACHES PROGRAMMATICALLY FOR
22 BALANCE.

23 I THINK THIS IS -- THERE WAS A PROGRAM --
24 SO I JUST HAVE TO REFRESH MYSELF FOR EACH OF THESE.
25 I THINK THAT THERE WAS WITHIN SOME MEMBERS OF THE

BARRISTERS' REPORTING SERVICE

1 WORKING GROUP, ESPECIALLY DENDRITIC CELL EXPERT,
2 THERE WAS SIGNIFICANT ENTHUSIASM FOR THIS
3 APPLICATION.

4 CHAIRMAN KLEIN: IS THERE A SECOND?

5 DR. REED: I WAS WONDERING IF I COULD --
6 DO I HAVE TO SECOND OR COULD I OFFER A FRIENDLY
7 AMENDMENT?

8 CHAIRMAN KLEIN: YOU CAN OFFER AMENDMENT
9 AND SEE IF THE -- ACTUALLY YOU CAN OFFER AN
10 AMENDMENT JUST TO BE EXPEDITIOUS HERE AND SEE IF THE
11 MAKER WOULD LIKE TO ACCEPT YOUR AMENDMENT.

12 DR. REED: MOVE FOR FUNDING AT TWO RATHER
13 THAN THREE YEARS TO ALLOW THE FEASIBILITY OF THE USE
14 OF THE FIXED CELLS APPROACH TO BE TESTED.

15 MR. SHEEHY: IF I CAN GET YOUR SECOND TO
16 THAT, I WOULD BE HAPPY TO TAKE THAT FRIENDLY
17 AMENDMENT.

18 CHAIRMAN KLEIN: OKAY. IT SOUNDS LIKE WE
19 HAVE A MOTION AND A SECOND. ARE THERE ADDITIONAL
20 COMMENTS ON THIS GRANT FROM ANYONE?

21 DR. REED: CALL FOR THE QUESTION.

22 CHAIRMAN KLEIN: ALL RIGHT. ANY PUBLIC
23 COMMENT ON THIS ITEM? DR. FRIEDMAN, DO WE HAVE ANY
24 PUBLIC COMMENT FROM YOUR LOCATION?

25 DR. FRIEDMAN: NO.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: ALL RIGHT. I WOULD LIKE
2 TO THEN CALL FOR A ROLL CALL, PLEASE.

3 MS. KING: ROBERT PRICE.

4 DR. PRICE: YES.

5 MS. KING: FLOYD BLOOM.

6 DR. BLOOM: YES.

7 MS. KING: DAVID BRENNER.

8 DR. BRENNER: YES.

9 MS. KING: SUSAN BRYANT.

10 DR. BRYANT: YES.

11 MS. KING: MICHAEL FRIEDMAN.

12 DR. FRIEDMAN: YES.

13 MS. KING: BOB KLEIN.

14 CHAIRMAN KLEIN: YES.

15 MS. KING: GERALD LEVEY.

16 DR. LEVEY: YES.

17 MS. KING: FRANCISCO PRIETO.

18 DR. PRIETO: YES.

19 MS. KING: CARMEN PULIAFITO.

20 DR. PULIAFITO: YES.

21 MS. KING: ROBERT QUINT.

22 DR. QUINT: YES.

23 MS. KING: JOHN REED.

24 DR. REED: YES.

25 MS. KING: DUANE ROTH.

BARRISTERS' REPORTING SERVICE

1 MR. ROTH: YES.
2 MS. KING: JOAN SAMUELSON.
3 MS. SAMUELSON: YES.
4 MS. KING: DAVID SERRANO-SEWELL.
5 MR. SERRANO-SEWELL: YES.
6 MS. KING: JEFF SHEEHY.
7 MR. SHEEHY: YES.
8 MS. KING: OSWALD STEWARD.
9 DR. STEWARD: YES.
10 MS. KING: ART TORRES.
11 MR. TORRES: AYE.
12 CHAIRMAN KLEIN: THANK YOU. THE NEXT ITEM
13 IS 1705. REQUEST FOR A BREATHER FOR COUNSEL.
14 MR. HARRISON: THAT MOTION CARRIED. THE
15 SECOND MOTION TO MOVE 1717 TO TIER I, WE NEED TO
16 HOLD OPEN FOR DR. HAWGOOD'S ARRIVAL.
17 CHAIRMAN KLEIN: WE WILL ACCEPT COUNSEL'S
18 RECOMMENDATION. THE CHAIR WILL HOLD OPEN -- THAT
19 WAS 1717 WILL REMAIN OPEN FOR DR. HAWGOOD TO FIND
20 OUT HIS VOTE WHEN HE ARRIVES.
21 MS. KING: AS DOES 1743.
22 CHAIRMAN KLEIN: WE PREVIOUSLY NOTED 1743.
23 OKAY. ARE WE OTHERWISE, SCOTT, PREPARED TO MOVE
24 FORWARD?
25 MR. TOCHER: YEP.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: 1705, IS THERE ANYONE TO
2 MAKE A MOTION FOR FUNDING OF 1705?

3 MR. SHEEHY: I WOULD MAKE THE MOTION TO
4 FUND 1705. AGAIN, THAT'S A DENDRITIC CELL APPROACH.
5 THIS IS A GOOD TEAM. AND SO JUST TO BALANCE OUT OUR
6 PORTFOLIO, I'D LIKE TO HAVE A COUPLE OF THESE
7 APPROACHES IN OUR PORTFOLIO.

8 CHAIRMAN KLEIN: ANY ADDITIONAL COMMENT ON
9 1705?

10 DR. REED: WOULD YOU RECOMMEND FUNDING OF
11 ALL THREE YEARS?

12 MR. SHEEHY: IF YOU WOULD SECOND WITH THE
13 SAME MOTION, I WOULD ACCEPT.

14 DR. REED: DELIGHTED TO.

15 CHAIRMAN KLEIN: MY UNDERSTANDING IS THE
16 MOTION IS TO MOVE TO FUND, BUT FUND ONLY FOR TWO OF
17 THE THREE YEARS. THIS IS 1705 FOR IMMUNE TOLERANCE
18 BY ES CELL-DERIVED DENDRITIC CELL.

19 DR. PRICE: QUESTION. THE PREVIOUS VOTE,
20 THE PREVIOUS MOTION OR MODIFIED MOTION, THERE WAS AN
21 EXPLANATION FOR WHY TWO YEARS MADE SENSE RATHER THAN
22 THREE BECAUSE YOU SAID THERE WAS A PARTICULAR PROOF
23 OF PRINCIPLE, I GUESS. WHAT'S THE RATIONALE HERE?

24 DR. REED: PART OF MY RATIONALE WOULD BE,
25 ONE, THAT THE APPROACHES ARE INNOVATIVE, BUT BECAUSE

BARRISTERS' REPORTING SERVICE

1 OF THAT, THEY'RE HIGH RISK. AND IF ONE CAN GIVE AT
2 LEAST SOME PARTIAL FUNDING TO TRY TO GET FURTHER TO
3 POINTS OF FEASIBILITY, I THINK IT WILL HELP MOVE THE
4 PROJECT ALONG, BUT WON'T NECESSARILY COMMIT US TO
5 FULL FUNDING OF SOMETHING THAT IN THE END MAY PROVE
6 TO BE UNSUCCESSFUL. SO THAT'S MY MAIN RATIONALE FOR
7 THINKING WHY THESE APPLICATIONS WITH DENDRITIC CELL
8 EFFORTS, WHICH ARE EXCITING, BUT UNPROVEN, SHOULD BE
9 GIVEN AT LEAST SOME CHANCE TO DEMONSTRATE
10 FEASIBILITY, BUT NOT MAYBE A FULL FUNDING.

11 CHAIRMAN KLEIN: THANK YOU VERY MUCH.
12 ADDITIONAL BOARD COMMENT?

13 DR. STEWARD: IN LOOKING OVER THE REVIEW
14 SUMMARY, IT SEEMS TO ME PRETTY UN, WHATEVER,
15 EXCITING. REVIEWERS DID NOT FIND THIS PROPOSAL TO
16 BE PARTICULARLY INNOVATIVE. REVIEWERS CITED A
17 NUMBER OF WEAKNESSES IN THE RESEARCH PLAN. OTHER
18 THAN THE FACT THAT IT'S DENDRITIC CELLS, WHAT'S THE
19 STRENGTH OF THIS THAT WE'RE RECOMMENDING?

20 CHAIRMAN KLEIN: IF WE COULD SEE THE
21 SCREEN AGAIN ON THOSE SCORES. THIS IS 1705. I
22 BELIEVE IT HAS A MEDIAN SCORE OF 70, WHICH IS
23 INTERESTING BECAUSE --

24 DR. STEWARD: YEAH, IT IS.

25 CHAIRMAN KLEIN: -- IT MEANS THERE WAS A

BARRISTERS' REPORTING SERVICE

1 SIGNIFICANT NUMBER WHO WERE REALLY SUPPORTIVE OF
2 THIS GIVEN A COUPLE OF VERY LOW SCORES WE'RE AWARE
3 OF.

4 DR. STEWARD: THE REVIEW DOESN'T MATCH UP
5 WITH THE SCORES.

6 CHAIRMAN KLEIN: EXACTLY. MR. SHEEHY.

7 MR. SHEEHY: I THINK, DR. STEWARD, THERE
8 WERE A COUPLE OF REVIEWERS THAT WERE NOTABLY
9 UNENTHUSIASTIC ABOUT THE FEASIBILITY OF DC
10 APPROACHES, DENDRITIC CELL APPROACHES. NOW,
11 DENDRITIC CELLS COULD BE A GOOD APPROACH, AND THAT'S
12 WHY I THINK -- YOU KNOW, EVERY NOW AND THEN WE'VE
13 GOT TO THROW A LONG PASS, SO TO SPEAK, TO USE A
14 FOOTBALL METAPHOR. I THINK THAT'S WHY I ACCEPTED
15 DR. REED'S AMENDMENT. WE'RE NOT IN THIS SPACE, AND
16 JUST BECAUSE PEOPLE DON'T THINK WE'LL SUCCEED WITH
17 THIS DOESN'T MEAN -- THIS IS A VERY POSSIBLE WAY IN
18 WHICH TO INDUCE IMMUNE TOLERANCE USING DENDRITIC
19 CELLS. PEOPLE HAVE TRIED TO USE THIS IN CANCER. WE
20 TRIED THIS IN HIV. PEOPLE TRIED TO DO STUFF WITH
21 DENDRITIC CELLS. MOST OF THE TIME IT DOESN'T WORK.
22 BECAUSE IT DOESN'T WORK DOESN'T MEAN YOU SHOULDN'T
23 TRY.

24 I THINK IF WE'RE GOING TO TRY TO INDUCE
25 IMMUNE TOLERANCE FOR STEM CELL GRAFTS, WHY SHOULD WE

BARRISTERS' REPORTING SERVICE

1 NEGLECT THIS APPROACH JUST BECAUSE NO ONE HAS HAD
2 MUCH SUCCESS WITH IT IN PRIOR ATTEMPTS? AND GIVEN
3 THE UNIQUE TEAMS THAT WE'RE FORMING COMBINING
4 IMMUNOLOGISTS AND STEM CELL SCIENTISTS AND WHAT MAY
5 BE UNIQUE PROPERTIES TO EMBRYONIC STEM CELLS TO
6 PLURIPOTENT CELLS IN TERMS OF HOW THEY GET
7 TOLERATED, YOU KNOW, WHY NOT? IT SEEMS REASONABLE
8 TO ME TO MAKE THAT INVESTMENT.

9 CHAIRMAN KLEIN: I'D ALSO LIKE TO SAY THAT
10 THE REVIEWERS DID PRAISE THE PRINCIPAL INVESTIGATOR
11 AND ASSEMBLED RESEARCH TEAM, AND THEY BROUGHT TO OUR
12 ATTENTION THE OUTSTANDING RECORD OF PUBLICATION IN
13 MANY HIGH PROFILE PUBLICATIONS AND NOTED THAT THERE
14 WERE THREE EXCELLENT RESEARCH GROUPS AT THE
15 APPLICABLE INSTITUTION THAT HAVE BEEN BROUGHT
16 TOGETHER. SO WITH A HIGH RISK APPROACH, AT LEAST
17 THE TEAMS THAT THEY'VE MARSHALLED APPEAR TO BE
18 PRETTY STRONG.

19 ANY ADDITIONAL COMMENTS?

20 DR. TROUNSON: I THINK YOU NEED TO BE
21 PRETTY CERTAIN ABOUT THIS BECAUSE THE MOUSE MODEL
22 HERE IS GOING TO BE VERY DIFFICULT TO GET ACROSS TO
23 THE HUMAN. AND THE MIXED CHIMERISM BY THIS METHOD
24 AS DISTINCT FROM ONE OF THE OTHER PROJECTS THAT'S
25 THERE, THIS IS REALLY, REALLY GOING TO BE

BARRISTERS' REPORTING SERVICE

1 CHALLENGING. AND EVEN IF IT DOES WORK IN THE MOUSE,
2 I THINK YOU ARE GOING TO BE REALLY FLAT OUT TO EVEN
3 TRIAL IT OUT ON THE HUMAN.

4 MY FEELING IS THE FEASIBILITY HERE IS
5 REALLY A GENUINE ISSUE. AND I THINK YOU JUST NEED
6 TO TAKE THAT ON BOARD BECAUSE I THINK THIS IS -- OUR
7 AIM IS TO GET TOLERANCE IN THE HUMAN, NOT TOLERANCE
8 IN THE MOUSE. THAT'S A REALLY, REALLY DIFFICULT
9 THOUGHT HERE. NONE OF THE IMMUNOLOGISTS THOUGHT
10 THAT WAS REALLY GOING TO TRANSLATE. SO IT'S JUST A
11 WORD OF CAUTION HERE FOR YOU.

12 CHAIRMAN KLEIN: OKAY. THANK YOU FOR THAT
13 VERY IMPORTANT POINT.

14 DR. BRODY: YOU KNOW, I HAVE A GENERAL
15 PROBLEM WITH ALL OF THESE CONTESTING OF THE -- WE
16 HAVE A SCIENTIFIC GROUP OF EXPERTS FROM AROUND THE
17 WORLD TO REVIEW THESE. AND THERE ARE CERTAIN
18 SITUATIONS WHERE ONE WOULD UNDERTAKE A SECOND LOOK.
19 SOMETHING, FOR EXAMPLE, WHEN THERE'S A LARGE
20 DISCORDANCE IN THE REVIEW, ONE REVIEWER SAYS THIS IS
21 THE GREATEST THING SINCE SLICED BREAD AND THE OTHER
22 SAYS IT'S NOT, OR THEY SAY, WELL, THIS IS REALLY
23 HIGH RISK, BUT IF IT PAID OFF, IT WOULD BE REALLY
24 GREAT EVEN THOUGH WE'RE NOT SURE IT'S GOING TO WORK.

25 I MEAN THIS IS AN EXAMPLE OF AN

BARRISTERS' REPORTING SERVICE

1 APPLICATION THAT HAS EXPERT REVIEW WHICH SAYS THERE
2 ARE SERIOUS LIMITATIONS TO THIS SCIENTIFIC
3 METHODOLOGY, AND IT'S NOT SOMETHING THAT HAS
4 POTENTIALLY ENORMOUS PAYOFF BECAUSE THERE ARE
5 PROBLEMS, EVEN IF IT WORKS, FIGURING HOW YOU GET
6 THIS IN HUMANS. I THINK THIS IS EMBLEMATIC THAT
7 WE'RE ASKED TO LOOK AT IT WITH A LIMITED VIEW, AND
8 MOST OF THESE ARE BEING APPROVED. I JUST DON'T
9 THINK IT'S APPROPRIATE.

10 CHAIRMAN KLEIN: SO ON MANY OF THESE BEING
11 APPROVED, 75 PERCENT OR 65 PERCENT OF THE PEER
12 REVIEW GROUP IS IN THE SCORING RANGE, AND THERE ARE
13 SOME VERY LOW SCORES, 50 OR 60. AND IF WE WERE TO
14 ACCEPT THE VERY LOW SCORES, THEY WOULD ESSENTIALLY
15 AMOUNT TO VETOES ON THE MAJORITY OF THE GROUP.

16 IN THIS PARTICULAR ONE, THE MEDIAN IS 70,
17 BUT I THINK IN CONCEPT I WOULD AGREE WITH YOUR
18 POINT. THERE HAS TO BE A STRONG SCIENTIFIC POINT --

19 DR. BRODY: LET ME MAKE --

20 CHAIRMAN KLEIN: DR. TROUNSON'S POINT HERE
21 IS A VERY IMPORTANT ONE FOR ME, THAT IN THIS
22 PARTICULAR CASE, HE'S REMINDED ME THAT THERE WAS AN
23 ISSUE OF THE TRANSFERRAL OF THIS TECHNOLOGY FROM
24 MOUSE TO HUMAN, WHICH I THINK WAS A VERY MEANINGFUL
25 POINT. DIDN'T CONVINC --

BARRISTERS' REPORTING SERVICE

1 DR. BRODY: MR. CHAIRMAN, MAY I HAVE A
2 WORD, PLEASE? IF YOU ARE ASKING US TO SIT HERE WITH
3 SOME EXPERTISE AND LOOK AT THIS, I'M TELLING YOU AS
4 A SCIENTIST MY ABILITY TO MAKE JUDGMENTS ON THESE
5 GRANTS IS VERY LIMITED IN THIS SITUATION UNLESS I
6 WAS INVOLVED IN THE DETAILED REVIEW. AND ALSO SO
7 THAT THERE ARE ONLY CERTAIN SITUATIONS WHERE I THINK
8 I WOULD FEEL COMFORTABLE OVERRULING AN EXPERT
9 SCIENTIFIC PANEL. AND THIS IS NOT ONE OF THEM.
10 MANY OF THESE IN MY VIEW ARE NOT IN THAT CATEGORY.

11 SO I ASK OURSELVES WHAT DO WE THINK WE'RE
12 DOING? ARE WE REALLY ADDING VALUE, OR ARE WE GOING
13 TO FUND BAD SCIENCE? THERE'S ONLY SO MANY GOOD
14 IDEAS. AND THE EXTENT TO WHICH WE FUND MORE, I
15 DON'T THINK WE ARE SPENDING OUR MONEY IN THE MOST
16 EFFICACIOUS WAY. AND I FEEL VERY STRONGLY ABOUT
17 THAT. AND IT SEEMS LIKE WE'RE GETTING MORE AND MORE
18 APPLICATIONS IN THE MARGIN THAT WE'RE VIEWING. IF
19 SO, WE OUGHT TO JUST DROP THE PERCENTAGE WHERE WE'RE
20 FUNDING THEM BECAUSE I JUST DON'T THINK THAT WE HAVE
21 THE ABILITY TO ADD VALUE TO THE PROCESS. I GUESS
22 THAT'S MY POINT.

23 CHAIRMAN KLEIN: IT'S A VERY LEGITIMATE
24 PERSPECTIVE OBVIOUSLY, DR. BRODY. YOU NOTICE THAT
25 WE HAVE SKIPPED OVER SOME THAT NO MOTION HAS BEEN

BARRISTERS' REPORTING SERVICE

1 MADE ON THOSE. I THINK THIS GROUP VERY SELECTIVELY
2 IS ADDRESSING THESE AND READING THE BACKGROUND
3 MATERIALS WITH A GREAT DEAL OF DEPTH.

4 ADDITIONALLY, A NUMBER OF US SAT THROUGH
5 TWO DAYS OF REVIEWS LISTENING TO DIFFERENT
6 SCIENTISTS WHO DISAGREED ON SOME OF THESE QUITE
7 SIGNIFICANTLY, AS YOU JUST DESCRIBED, WHERE THERE
8 WAS REAL POLARIZATION. SO ON A SELECTIVE BASIS, I
9 HOPE WE'RE ONLY FUNDING GOOD SCIENCE, BUT I
10 ABSOLUTELY RESPECT AND HOPEFULLY IDENTIFY WITH YOUR
11 POSITION THAT WE'RE ONLY FUNDING GOOD SCIENCE, WHICH
12 IS WHAT WE SHOULD BE DOING.

13 DR. PRICE: WOULD IT BE APPROPRIATE TO ASK
14 WHAT THE TALLY OF DOLLARS THAT WE'RE COMMITTING AT
15 THIS POINT? WE HAD A CEILING. I JUST WONDER IF
16 WE'VE ALREADY BREACHED THAT.

17 CHAIRMAN KLEIN: WE'LL TRY AND GET THAT
18 FOR YOU RIGHT NOW.

19 DR. FRIEDMAN: WHILE YOU ARE DOING THAT
20 CALCULATION, I'M SORT OF CONTRASTING THE REVIEW OF
21 THE PREVIOUS GRANT WITH THIS GRANT. AND ALTHOUGH
22 THERE WERE CONCERNS RAISED IN BOTH, THERE SEEMED TO
23 BE MORE ENTHUSIASM AND MORE SCIENTIFIC BASIS FOR
24 SUPPORT OF THE PREVIOUS GRANT. I TAKE JEFF'S
25 COMMENT VERY SERIOUSLY ABOUT TAKING SOME SCIENTIFIC

BARRISTERS' REPORTING SERVICE

1 RISKS IN ORDER TO HAVE A BIG PAYOFF. AS I READ
2 THIS, THOUGH, AND THAT'S WHY I NEED ADVICE FROM YOU
3 ALL IN TERMS OF WHO ARE ACTUALLY THERE, THE
4 OVERWHELMING SENSE I GET FROM THE WRITTEN REVIEW IS
5 NOT THAT THIS WAS HIGH RISK, BUT THAT IT WAS NOT
6 NOVEL AND BROAD.

7 AND IF I'M MISINTERPRETING IT, I'D LIKE
8 YOU TO PLEASE HELP ME BECAUSE I HAVE -- I JUST THINK
9 THERE'S AN INTERESTING CONTRAST BETWEEN THE PREVIOUS
10 DENDRITIC APPROACH AND THIS ONE. THANK YOU.

11 CHAIRMAN KLEIN: JEFF, WOULD YOU LIKE TO
12 RESPOND TO THAT? JOAN?

13 MS. SAMUELSON: SURE. I'M LOOKING AT THE
14 CRITIQUE, AND ONE OF THE REVIEWERS WAS VERY
15 ENTHUSIASTIC, GAVE IT A 78. HE THOUGHT IT WAS A
16 CONSIDERABLE AMOUNT OF INNOVATION, SCIENTIFIC
17 RATIONALE IS LOGICAL, THERE'S STRONG EVIDENCE TO
18 SUPPORT THE PRESENCE OF TOLEROGENIC DC'S. RESEARCH
19 TEAM HAS A TRACK RECORD OF PUBLICATIONS.
20 PRELIMINARY DATA SHOWS THE RESEARCH TEAM IS ABLE TO
21 GENERATE DC'S FOR MOUSE AND HUMAN ESC AND THEY CAN
22 BE GENETICALLY MANIPULATED.

23 SO IT SOUNDS LIKE THERE WAS A DIFFERENCE
24 OF OPINION IN THE WORKING GROUP. I ALSO REMEMBER
25 THAT THE CHAIR WAS VERY ACTIVELY INVOLVED IN THE

BARRISTERS' REPORTING SERVICE

1 DISCUSSION. I DON'T REMEMBER THE DISCUSSION IN THIS
2 PARTICULAR CASE. BUT IT LOOKS LIKES THERE WAS AT
3 LEAST A DIFFERENCE OF OPINION AND SOME WERE
4 ENTHUSIASTIC.

5 CHAIRMAN KLEIN: THANK YOU. CAN WE GET
6 WHAT THE RUNNING TOTAL IS?

7 MS. KING: IT'S ACTUALLY ON THE SCREEN AT
8 THE TOP OF THE SCREEN. I DON'T KNOW IF YOU CAN SEE
9 IT. \$25,523,573.

10 MR. HARRISON: THAT'S ASSUMING THE
11 APPLICATION THAT'S PENDING IS APPROVED.

12 CHAIRMAN KLEIN: OKAY.

13 DR. STEWARD: ON THE OTHER ONE THERE WAS A
14 MINORITY REPORT INDICATING SOME DEGREE OF ENTHUSIASM
15 BY 35 PERCENT OF THE PANEL. WAS THERE ANY
16 DISCUSSION OF A MINORITY REPORT OR, FOR THAT MATTER,
17 DISCUSSION OF MOVING THIS FORWARD INTO THE TOP TIER?

18 CHAIRMAN KLEIN: THERE WASN'T, BUT ONE OF
19 THE PROBLEMS HERE IS THAT, AS PREVIOUSLY BEEN
20 DISCUSSED IN THE SCIENTIFIC PEER REVIEW GROUP, AS A
21 POTENTIAL ENHANCEMENT OF OUR PEER REVIEW IS THAT
22 CURRENTLY WE'RE NOT REPORTING WITHIN PEER REVIEW THE
23 MEDIAN SCORE. SO IT'S NOT CLEAR TO THE PEER
24 REVIEWERS HOW MANY ARE, IN FACT, IN FAVOR AND HOW
25 MANY ARE OPPOSED.

BARRISTERS' REPORTING SERVICE

1 THERE'S ALSO A RELUCTANCE TO STAND
2 AGAINST -- IN SOME CASES TO STAND AGAINST OTHER
3 REVIEWERS DEPENDING UPON WHO THE PERSON IS WHO'S THE
4 CHAMPION. IF THERE'S A STRONG CHAMPION, THEY'LL
5 STAND UP AND DEFEND IT. AND IF THERE ISN'T, IT
6 DOESN'T NECESSARILY MEAN THERE WILL BE A MINORITY
7 REPORT.

8 DR. TROUNSON: BOB, I'M NOT SURE THAT
9 THAT'S REASONABLE TO SAY THAT THE SCIENTISTS --

10 CHAIRMAN KLEIN: I JUST HAVE -- LET ME
11 STATE THAT AS STRONG PERSONAL OPINION FROM
12 OBSERVATION.

13 DR. TROUNSON: OKAY. SO I THINK THAT
14 WOULD BE FAIR ENOUGH. THESE SCIENTISTS DON'T BACK
15 BACK VERY FAR AT ALL. THERE'S A ROBUST DISCUSSION
16 GOING ON THERE. I DON'T THINK -- I THINK IT'S
17 REALLY THE MERIT OF THE DISCUSSIONS, TO BE HONEST.
18 AND THAT'S WHAT THEY GET TO. IT'S THE MERIT OF THE
19 ARGUMENTS.

20 MR. SHEEHY: SO, DR. STEWARD, IT'S PRETTY
21 MUCH AS I DESCRIBED IT WHEN I INTRODUCED IT. THERE
22 WAS -- THIS ONE WAS NOT MOVED UP, WAS NOT OFFERED UP
23 IN PROGRAMMATIC. IN FACT, THE DENDRITIC CELL
24 EXPERT, NOTICING THE LACK OF DENDRITIC CELLS, I
25 BELIEVE, MOVED THE OTHER ONE UP AS BEING THE BEST OF

BARRISTERS' REPORTING SERVICE

1 THE LOT. AND I THINK THIS IS -- THERE'S JUST NOT A
2 LOT OF ENTHUSIASM FOR IT. THIS IS NOT -- PEOPLE ARE
3 NOT WIDELY OPTIMISTIC ABOUT THIS APPROACH. BUT THIS
4 COULD BE A BREAKTHROUGH APPROACH.

5 SO, AGAIN, AND I UNDERSTAND PEOPLE'S
6 TREPIDATION, AND WHETHER OR NOT THEY WANT TO DO THIS
7 OR NOT IS FINE. I PERSONALLY WOULD GO AHEAD AND DO
8 IT. IF OTHERS HAVE DIFFERENT OPINIONS, THAT'S WHY
9 WE VOTE. I DON'T EXPECT TO WIN EVERY ONE.

10 CHAIRMAN KLEIN: I WOULD, HOWEVER, LIKE TO
11 SAY THAT I THINK DR. TROUNSON'S POINT THAT HE
12 REMINDS US OF IS A VERY IMPORTANT POINT IN THIS
13 DISCUSSION THAT'S AT LEAST VERY POIGNANT FOR ME.

14 DR. REED: I WAS GOING TO MAKE THE POINT,
15 SINCE I SECONDED THE MOTION, THAT DR. TROUNSON'S
16 COMMENT MEANS A LOT TO ME AS WELL IN TERMS OF THE
17 FEASIBILITY.

18 I DID HAVE A CLARIFICATION THOUGH AS WELL,
19 AND THAT IS WHEN THIS FUNDING WAS INTRODUCED, I
20 BELIEVE WE WERE PRESENTED THE NUMBERS THAT THE TOP
21 TIER COMING OUT OF THE STUDY SECTION WAS ABOUT \$15
22 MILLION WORTH OF GRANTS, THAT CIRM HAD TARGETED TO
23 FUND AROUND 20 MILLION.

24 CHAIRMAN KLEIN: 30.

25 DR. REED: 30 MILLION. I MISUNDERSTOOD

BARRISTERS' REPORTING SERVICE

1 THAT.

2 MR. SHEEHY: IT WAS ABOUT 20 COMING OUT OF
3 THE WORKING GROUP.

4 CHAIRMAN KLEIN: 20 COMING OUT OF THE
5 WORKING GROUP. WE HAD TARGETED 30, BUT WE ONLY WANT
6 TO FUND GOOD SCIENCE.

7 DR. REED: GOT YOU. THANK YOU FOR THAT
8 CLARIFICATION.

9 CHAIRMAN KLEIN: I THINK WE'VE HAD SOME
10 VERY GOOD DISCUSSION, ROBUST DISCUSSION, WHICH IS
11 VERY VALUABLE HERE. ANY PUBLIC COMMENT ON THIS ONE?
12 LIKE TO CALL THE QUESTION ON THIS.

13 MS. KING: ROBERT PRICE.

14 DR. PRICE: NO.

15 MS. KING: FLOYD BLOOM.

16 DR. BLOOM: NO.

17 MS. KING: DAVID BRENNER.

18 DR. BRENNER: NO.

19 MS. KING: WILLIAM BRODY.

20 DR. BRODY: NO.

21 MS. KING: SUSAN BRYANT.

22 DR. BRYANT: NO.

23 MS. KING: MICHAEL FRIEDMAN.

24 DR. FRIEDMAN: NO.

25 MS. KING: BOB KLEIN.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: NO.
2 MS. KING: FRANCISCO PRIETO.
3 DR. PRIETO: NO.
4 MS. KING: CARMEN PULIAFITO.
5 DR. PULIAFITO: NO.
6 MS. KING: ROBERT QUINT.
7 DR. QUINT: NO.
8 MS. KING: JOHN REED.
9 DR. REED: NO.
10 MS. KING: DUANE ROTH.
11 MR. ROTH: NO.
12 MS. KING: JOAN SAMUELSON.
13 MS. SAMUELSON: NO.
14 MS. KING: DAVID SERRANO-SEWELL.
15 MR. SERRANO-SEWELL: YES.
16 MS. KING: JEFF SHEEHY.
17 MR. SHEEHY: YES.
18 MS. KING: OSWALD STEWARD.
19 DR. STEWARD: NO.
20 MS. KING: ART TORRES.
21 MR. TORRES: NO.
22 CHAIRMAN KLEIN: OKAY. THANK YOU. COULD
23 WE SEE IS THERE ANY MOTION ON 1733?
24 DR. PRIETO: I MOVE THAT BE MOVED UP INTO
25 THE FUNDABLE CATEGORY.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: OKAY. IS THERE A SECOND?

2 DR. PULIAFITO: SECOND.

3 CHAIRMAN KLEIN: SECOND DR. PULIAFITO.

4 IS THERE DISCUSSION BY MEMBERS OF THE
5 BOARD ON THE REASONS FOR MOVING IT UP?

6 DR. PRIETO: I'LL RESPOND TO THAT. THERE
7 WERE A COUPLE OF APPARENT FACTUAL ERRORS MADE BY THE
8 REVIEWERS IN THIS REVIEW THAT CAME OUT LATER. ONE,
9 THERE'S A COMMENT BY A REVIEWER THAT, QUOTE, THE
10 PROPOSAL FAILS TO ACKNOWLEDGE THE PURIFIED CD34+
11 CELLS HAVE BEEN USED IN THE ALLOGENEIC SETTING WITH
12 NO GRAFT VERSUS HOST DISEASE DEVELOPMENT, AND
13 APPARENTLY THAT ACTUALLY IS CONTRADICTED BY THE
14 LITERATURE.

15 THE OTHER WAS AN ASSERTION THAT THE THIRD
16 AND FOURTH AIMS WERE NOT NOVEL AND HAD BEEN
17 PERFORMED IN ANOTHER STUDY DONE IN BRAZIL BY
18 DR. RICHARD BURT. BOB HAS SPOKEN TO DR. BURT AND IS
19 FAMILIAR WITH THAT WORK. IN FACT, IT APPEARS THAT
20 HE IS OF THE OPINION THAT THIS IS NOT WORK THAT
21 DUPLICATES WHAT WAS DONE IN THE BRAZIL STUDY.

22 SO I THINK THERE WERE A COUPLE OF JUST
23 FACTUAL MISTAKES THAT BROUGHT THIS DOWN A FEW
24 POINTS, WHICH WOULD HAVE PUT IT IN THE FUNDABLE
25 CATEGORY.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: ANY ADDITIONAL BOARD
2 COMMENTS? DR. PULIAFITO, DID YOU HAVE ANY COMMENTS?

3 DR. PULIAFITO: I THINK THE KEY FACTORS
4 FOR ME IS THAT THERE WERE INDEED THESE FACTUAL
5 ERRORS, THAT IF HAD BEEN RECOGNIZED, THIS GRANT
6 WOULD HAVE PROBABLY BEEN IN THE FUNDABLE RANGE.

7 CHAIRMAN KLEIN: DR. PRICE.

8 DR. PRICE: CAN I ASK A QUESTION OF THE
9 FOLKS WHO WERE PRESENT FOR THE REVIEW, SUCH AS JEFF?
10 WERE THESE ISSUES PARAMOUNT OR PROMINENT IN THE
11 DISCUSSION, THESE FACTUAL MATTERS?

12 CHAIRMAN KLEIN: CAN I ASK THIS QUESTION?
13 DR. TROUNSON WAS PRESENT AS WELL.

14 DR. PRICE: SURE.

15 CHAIRMAN KLEIN: DR. TROUNSON, DO YOU WANT
16 TO SAY IF EITHER OF THESE WAS IMPORTANT IN THIS
17 DISCUSSION?

18 DR. TROUNSON: WELL, I THINK THEY WERE.
19 THERE'S AN INTERESTING HISTORY WITH THIS WORK, THAT
20 THE REALLY PURIFIED HEMATOPOIETIC STEM CELLS
21 THEMSELVES DO NOT CAUSE ANY GRAFT VERSUS HOST
22 DISEASE; WHEREAS, THE CD34 CELL, IF YOU JUST SELECT
23 SIMPLY FOR THAT AND YOU TRANSPLANT IT IN AN
24 ALLOGENEIC WAY, YOU WILL GET GRAFT VERSUS HOST
25 DISEASE VERY FREQUENTLY. THAT WAS WRONG. THAT

BARRISTERS' REPORTING SERVICE

1 WASN'T RIGHT.

2 SO THE WHOLE SORT OF SETTING WAS THEN
3 CHANGED BECAUSE WHAT THEY WOULD LIKE TO DO IS USE
4 THESE TWO ANTIBODIES CKIT AND CD47 TO TAKE DOWN THE
5 T-CELLS AND THE NK NATURAL KILLER CELLS, WHICH ARE
6 THE ONES THAT ARE REALLY CAUSING THE DAMAGE WHEN YOU
7 TRANSPLANT ACROSS A BARRIER.

8 SO USING THE PURIFIED HEMATOPOIETIC CELL
9 TAKING DOWN THOSE TWO SETS OF DANGEROUS CELLS FOR
10 REJECTION AND THEN HAVING A MILD ABLATIVE THERAPY
11 THAT DOESN'T -- THAT'S NOT A COMPLETE ABLATIVE
12 THERAPY THAT YOU WOULD NORMALLY DO, THE PATIENTS ARE
13 VERY MILD TREATMENT ACROSS THAT. AND I THINK
14 FRANCISCO WOULD COMPLEMENT THAT. IF YOU CAN GET
15 THAT ABLATIVE THERAPY MILD, THE PATIENTS CAN --
16 THERE'S A MUCH BETTER RESPONSE IN THE PATIENTS.

17 SO IT SEEMS LIKE THIS KIND OF APPROACH,
18 ALTHOUGH I'D SAY A LITTLE CHALLENGING BECAUSE YOU
19 GOT TO USE MULTIPLE ANTIBODIES WHEN YOU GO TO THE
20 HUMAN, I THINK IT'S VERY REALISTIC. SO IT SITS IN
21 THAT BRACKET, AND I THINK SOME OF THOSE COMMENTS
22 PROBABLY UNHINGED THAT DISCUSSION A LITTLE, TO BE
23 HONEST. SO I WENT OFF TO READ ABOUT IT BECAUSE I
24 THOUGHT I WAS A BIT DIFFERENT IN MY PERSPECTIVE
25 BECAUSE I DON'T REALLY TALK MUCH AT THE GRANTS

BARRISTERS' REPORTING SERVICE

1 REVIEW UNLESS PEOPLE ASK ME TO. IN REVIEWING THIS,
2 I THINK I SEE IT MUCH MORE ON THE 70 SIDE OF LIFE
3 THAN I DO ON THE 60 SIDE OF LIFE, AND I THINK THOSE
4 COUPLE OF ERRORS WOULD PROBABLY POSSIBLY CHANGE A
5 FEW OTHERS.

6 FRANCISCO, DO YOU THINK THAT'S FAIR
7 ENOUGH?

8 DR. PRIETO: I THINK THAT'S FAIR. I WAS
9 ALSO THERE FOR THIS REVIEW.

10 CHAIRMAN KLEIN: OKAY. ADDITIONAL BOARD
11 COMMENTS? PUBLIC COMMENTS? DR. FRIEDMAN, ANY
12 PUBLIC COMMENTS FROM YOU?

13 DR. FRIEDMAN: NO PUBLIC COMMENTS FROM ME
14 OR FROM THE PEOPLE SITTING HERE.

15 CHAIRMAN KLEIN: OKAY. THANK YOU. CALL
16 THE QUESTION.

17 MS. KING: ROBERT PRICE.

18 DR. PRICE: YES.

19 MS. KING: FLOYD BLOOM.

20 DR. BLOOM: YES.

21 MS. KING: DAVID BRENNER.

22 DR. BRENNER: YES.

23 MS. KING: SUSAN BRYANT.

24 DR. BRYANT: YES.

25 MS. KING: MICHAEL FRIEDMAN.

BARRISTERS' REPORTING SERVICE

1 DR. FRIEDMAN: YES.
2 MS. KING: BOB KLEIN.
3 CHAIRMAN KLEIN: YES.
4 MS. KING: GERALD LEVEY.
5 DR. LEVEY: YES.
6 MS. KING: FRANCISCO PRIETO.
7 DR. PRIETO: YES.
8 MS. KING: CARMEN PULIAFITO.
9 DR. PULIAFITO: YES.
10 MS. KING: ROBERT QUINT.
11 DR. QUINT: NO.
12 MS. KING: JOHN REED.
13 DR. REED: YES.
14 MS. KING: DUANE ROTH.
15 MR. ROTH: YES.
16 MS. KING: JOAN SAMUELSON.
17 MS. SAMUELSON: YES.
18 MS. KING: DAVID SERRANO-SEWELL.
19 MR. SERRANO-SEWELL: YES.
20 MS. KING: JEFF SHEEHY.
21 MR. SHEEHY: YES.
22 MS. KING: OSWALD STEWARD.
23 DR. STEWARD: YES.
24 MS. KING: ART TORRES.
25 MR. TORRES: AYE.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: THANK YOU.
2 1740, ANY MEMBER WANTS TO MAKE A MOTION ON
3 THAT ITEM?

4 MS. KING: FOR THE RECORD, THAT MOTION
5 CARRIES.

6 CHAIRMAN KLEIN: MELISSA KING REPORTED
7 THAT 1733 CARRIED.

8 ANYONE WANT TO MAKE A MOTION ON 1740? DR.
9 PRIETO HAS ASKED TO READ IT FOR A MINUTE, SO I'M
10 GOING TO PASS OVER IT FOR A MOMENT. ANYONE IS
11 INTERESTED IN 1721?

12 MR. TORRES: I'M NOT GOING TO MAKE A
13 MOTION ON THIS, BUT I WANTED TO RAISE IT BECAUSE IT
14 RAISED AN ISSUE FOR ME. AS MANY OF YOU KNOW, I SIT
15 ON AN ORGAN TRANSPLANT BOARD CALLED ONE LEGACY OUT
16 OF SOUTHERN CALIFORNIA. AND LIVER DISEASE IS VERY
17 MUCH AN ISSUE, NOT ONLY FOR AMERICA, BUT AT LEAST 20
18 PERCENT OF THE ORGAN TRANSPLANTS, AS YOU INDICATE
19 HERE, ARE WAITING ON WAITING LISTS HERE IN
20 CALIFORNIA.

21 I THINK THE OTHER ISSUE THAT'S RAISED BY
22 THIS PROPOSAL IS THE DIVERSITY ISSUE RAISED BY DR.
23 MARTINEZ. I DON'T WANT TO ADDRESS THAT OTHER THAN
24 TO SAY THAT THIS IS A MAJOR CHALLENGE WE'RE GOING TO
25 HAVE FACE, AS DR. TROUNSON WELL KNOWS. IN OUR WORK

BARRISTERS' REPORTING SERVICE

1 WITH DREW UNIVERSITY AND OTHER AREAS, PERHAPS THE
2 SCIENCE MAY NOT WORK IN THIS APPLICATION, BUT THAT'S
3 ALWAYS SOMETHING I HOLD PARAMOUNT. AT THE SAME TIME
4 I JUST WANTED TO RAISE THIS ISSUE OF DIVERSITY
5 BECAUSE WE'RE GOING TO HAVE TO START FIGURING OUT
6 JUST WHERE WE'RE GOING TO GET SOME OF THESE CELLS
7 THAT WILL BE UTILIZED FOR LIVER DISEASE ESPECIALLY
8 IN LATINOS IN CALIFORNIA. THAT'S ALL.

9 CHAIRMAN KLEIN: THANK YOU.

10 DR. TROUNSON: I'M VERY SUPPORTIVE OF WHAT
11 ART TORRES JUST SAID. AND WE HAVE TO FIND A WAY TO
12 DO THESE THINGS. I THINK I'M A LITTLE BIT NOT
13 INCLINED SORT ON THE SCIENCE SIDE OF THIS PROJECT
14 BECAUSE THE REVIEWERS WERE THERE, BUT WE HAVE TO
15 WORK OUT A WAY AND I'M TRYING TO DO THAT. WE'RE
16 GOING TO TRY AND SORT OF NARROW SOME MARGINS TO
17 ENABLE, SO WE'RE WORKING ON THAT. AND I THINK WE
18 NEED TO GET THERE. AND HOPEFULLY THE NEXT TIME WE
19 CAN INCORPORATE THIS SORT OF SCIENTIST BECAUSE I
20 THINK OBVIOUSLY A VERY GOOD PERSON AND MAKES A
21 DIFFERENCE IN THAT COMMUNITY TOO IN TRAINING AND
22 SCIENCE. SO IF YOU DON'T FUND IT, WE WILL NEED TO
23 DO SOMETHING ABOUT IT.

24 MR. TORRES: THANK YOU, ALAN.

25 DR. PRIETO: TO STAY ON THIS ONE FOR A

BARRISTERS' REPORTING SERVICE

1 MOMENT, ACTUALLY I THINK I WOULD LIKE TO MAKE A
2 MOTION ON 1721. IF I COULD JUST GO AHEAD AND MAKE
3 THE ARGUMENTS. BASED ON THE SCIENCE AND THE
4 RESPONSE OF THE INVESTIGATOR IN THE EXTRAORDINARY
5 PETITION, AND I'M NOT SOMEONE WHO IS IN FAVOR OF
6 MOVING -- OF RESPONDING TO ALL OF THESE
7 EXTRAORDINARY PETITIONS, PARTICULARLY THE ONES THAT
8 COME IN LATE, BUT THIS ONE DID COME IN ON TIME. AND
9 I DON'T SPECIFICALLY RECALL THE DETAILS OF THIS
10 DISCUSSION IN THE WORKING GROUP, BUT THE PI DOES
11 DIRECTLY ADDRESS SEVERAL OF THE POINTS THAT WERE
12 CHALLENGED BY SOME OF THE REVIEWERS. I JUST WANT TO
13 GO OVER SOME OF THOSE.

14 THE THIRD POINT, REVIEWERS STATED THAT
15 THEY SHOULD HAVE USED REAL-TIME PCR-BASED ANALYSES
16 FROM LIVER OR KIDNEYS. THE PI POINTS OUT, QUOTE,
17 OUR LAB WAS ONE OF TWO LABS TO SIMULTANEOUSLY
18 PUBLISH THE FIRST INTERGRAFT PCR ANALYSIS 1992,
19 ALMOST 20 YEARS AGO. WE PERFORM REAL-TIME PCR
20 ANALYSES IN OUR ALL TRANSPLANT MODELS AND PLAN TO
21 INCLUDE IT IN THESE STUDIES, BUT DIDN'T EXPAND UPON
22 IT DUE TO SPACE CONSTRAINTS, CONSTRAINTS THAT WE
23 IMPOSE IN OUR RFA'S.

24 ON THE FIFTH POINT, THERE AGAIN APPEARS TO
25 BE A FACTUAL ERROR. THE REVIEWER STATES THE PI

BARRISTERS' REPORTING SERVICE

1 PROPOSES TO USE BALB/C MICE AS RECIPIENTS AND
2 C57BI/6 AS DONORS. AND THE PI STATES, QUOTE, THE
3 REVIEWER IS INCORRECT IN THAT STATEMENT. IN FACT, I
4 INDICATE ON PAGE 5 THAT C57BI/6 MICE ARE THE
5 ALLOGENEIC RECIPIENTS. I ALSO STATE ON PAGE 5 THAT
6 STEM CELL GRANTS ARE DERIVED FROM THE BALB/C MICE,
7 SO THEY ARE THE DONORS, NOT THE RECIPIENTS.

8 HAVING WORKED IN FIELD OF TRANSPLANT
9 IMMUNOLOGY FOR OVER 20 YEARS, I AM WELL AWARE AND
10 GOES ON TO STATE SOME OF THE REASONS WHY THIS, WHICH
11 THE REVIEWER APPARENTLY ALSO KNEW, BUT MISREAD THE
12 APPLICATION.

13 ITEM 6, THE REVIEWER STATES PERFORM FLOW
14 CYTOMETRY OR RECOMMENDS, I GUESS, PERFORM FLOW
15 CYTOMETRY ON LEUKOCYTES ISOLATED FROM LIVER TISSUE
16 AS REGULARLY DONE BY OTHERS. AND THE PI STATES,
17 QUOTE, BECAUSE OF SPACE LIMITATIONS, WE DIDN'T
18 INCLUDE A DESCRIPTION OF POSSIBLE FLOW-BASED
19 ANALYSIS OF GRAFT CELLS, BUT WOULD CERTAINLY INCLUDE
20 THAT IN OUR STUDY. INDEED, OUR LABORATORY OWNS A
21 FLOW CYTOMETER (OPERATED AS A SERVICE CENTER TO THE
22 REST OF THE CAMPUS) AND ROUTINELY PERFORM THIS TYPE
23 OF ANALYSIS IN OUR TRANSPLANT MODELS.

24 I WAS JUST IMPRESSED AT THE WAY IN WHICH
25 THIS PI ADDRESSED THE CRITIQUES, AND I WOULD THINK

BARRISTERS' REPORTING SERVICE

1 THAT'S WORTH A FEW POINTS, WHICH WOULD BRING IT UP
2 TO THE FUNDABLE LINE. ALSO I THINK I MADE THIS
3 POINT BEFORE, THAT REALLY ALTHOUGH WE'RE ARGUING
4 OVER APPLICATIONS THAT ARE A FEW POINTS BELOW THIS
5 SOMEWHAT ARBITRARY FUNDABLE LINE, THERE IS VIRTUALLY
6 NO STATISTICAL DIFFERENCE BETWEEN A 64 AND A 66 OR A
7 68. YOU KNOW, ONE REVIEWER OR TWO AND THAT
8 COMPLETELY GOES IN EITHER DIRECTION FOR ANY OF THESE
9 APPLICATIONS.

10 MR. SHEEHY: I'LL SECOND THE MOTION. AND
11 I WOULD JUST NOTE THAT THERE WAS CONSIDERABLE
12 ENTHUSIASM ON THIS GRANT FROM AN EXTERNAL SPECIALIST
13 WELL ABOVE THE SCORE THAT THIS GRANT RECEIVED.

14 CHAIRMAN KLEIN: ALL RIGHT. WE HAVE A
15 MOTION AND A SECOND.

16 DR. STEWARD: SO I JUST WANT TO REITERATE
17 THE POINT THAT DR. BRODY MADE EARLIER ON. WE ARE
18 REALLY NOT IN A POSITION TO ESSENTIALLY REREVIEW THE
19 GRANT. AND I THINK THAT THE, QUOTE, FACTUAL ERRORS
20 HERE ARE OF THE SORT THAT ARE RELATIVELY MINOR AND
21 PROBABLY WOULDN'T HAVE MOVED THE GRANT IN ONE
22 DIRECTION OR ANOTHER.

23 I THINK IF WE READ THOSE EXTRAORDINARY
24 PETITIONS, ALMOST EVERY ONE CLAIMS SOME FACTUAL
25 ERROR OR ANOTHER. I'M NOT OPPOSED TO CONSIDERING

BARRISTERS' REPORTING SERVICE

1 THIS GRANT, BUT I AM IMPOSED TO CONSIDERING THOSE
2 KINDS OF DETAILS BECAUSE WE JUST SIMPLY CAN'T DRILL
3 DOWN AND ADJUDICATE BETWEEN THE TWO POINTS OF VIEW.

4 CHAIRMAN KLEIN: OKAY. ANY ADDITIONAL
5 BOARD COMMENT?

6 DR. PRIETO: I GUESS I WOULD JUST RESPOND
7 THAT IF WE HAVE A PROCEDURE FOR EXTRAORDINARY
8 PETITIONS, AREN'T WE OBLIGED TO CONSIDER THE POINTS
9 RAISED BY THE PETITIONER?

10 DR. STEWARD: NO.

11 CHAIRMAN KLEIN: WE CAN AT THE DISCRETION
12 OF THE BOARD MEMBERS. AND IF YOU, AS A BOARD
13 MEMBER, WISH TO CONSIDER THOSE POINTS, THEN THEY ARE
14 PROPERLY IN DEBATE.

15 DR. STEWARD: WE'RE NOT REQUIRED TO
16 CONSIDER THOSE POINTS.

17 CHAIRMAN KLEIN: WE'RE NOT REQUIRED TO.

18 DR. PRIETO: THANK YOU.

19 CHAIRMAN KLEIN: APPROPRIATE STATEMENTS
20 FROM BOTH PARTIES.

21 ADDITIONAL COMMENTS FROM THE BOARD?
22 ADDITIONAL COMMENTS FROM THE AUDIENCE? DR.
23 FRIEDMAN, AT YOUR OFFICES?

24 DR. FRIEDMAN: NO, THANK YOU.

25 CHAIRMAN KLEIN: OKAY. CALL THE QUESTION.

BARRISTERS' REPORTING SERVICE

1 MS. KING: ROBERT PRICE.
2 DR. PRICE: NO.
3 MS. KING: FLOYD BLOOM.
4 DR. BLOOM: NO.
5 MS. KING: DAVID BRENNER.
6 DR. BRENNER: NO.
7 MS. KING: SUSAN BRYANT.
8 DR. BRYANT: NO.
9 MS. KING: MICHAEL FRIEDMAN.
10 DR. FRIEDMAN: NO.
11 MS. KING: BOB KLEIN.
12 CHAIRMAN KLEIN: NO.
13 MS. KING: GERALD LEVEY.
14 DR. LEVEY: NO.
15 MS. KING: FRANCISCO PRIETO.
16 DR. PRIETO: YES.
17 MS. KING: CARMEN PULIAFITO.
18 DR. PULIAFITO: NO.
19 MS. KING: ROBERT QUINT.
20 DR. QUINT: NO.
21 MS. KING: JOHN REED.
22 DR. REED: NO.
23 MS. KING: DUANE ROTH.
24 MR. ROTH: NO.
25 MS. KING: JOAN SAMUELSON.

BARRISTERS' REPORTING SERVICE

1 MS. SAMUELSON: YES.

2 MS. KING: DAVID SERRANO-SEWELL.

3 MR. SERRANO-SEWELL: YES.

4 MS. KING: JEFF SHEEHY.

5 MR. SHEEHY: YES.

6 MS. KING: OSWALD STEWARD.

7 DR. STEWARD: NO.

8 MS. KING: ART TORRES.

9 MR. TORRES: WHAT'S THE VOTE?

10 MS. KING: WE HAVE 12 NOES SO FAR, FOUR
11 YESES.

12 MR. TORRES: AYE.

13 CHAIRMAN KLEIN: ALL RIGHT. AT THIS
14 POINT --

15 MS. KING: IF WE COULD JUST HAVE A COMMENT
16 FROM COUNSEL.

17 MR. HARRISON: FOR THE RECORD, THAT MOTION
18 FAILS.

19 CHAIRMAN KLEIN: LET ME ASK AT THIS POINT
20 IS THERE ANYONE THAT WANTS TO MAKE A MOTION ON 1731
21 OR ANY LOWER APPLICATION BY SCORING? ANY MEMBER?
22 IS THERE ANY MEMBER OF THE PUBLIC THAT WOULD LIKE TO
23 MAKE A COMMENT ON 1731 OR ANY OTHER APPLICATION?

24 DR. FRIEDMAN: MR. CHAIRMAN, WE HAVE
25 REPRESENTATIVES HERE WHO WOULD LIKE TO SPEAK TO THAT

BARRISTERS' REPORTING SERVICE

1 APPLICATION.

2 CHAIRMAN KLEIN: PLEASE ASK THEM TO SPEAK.

3 DR. REED: GOOD AFTERNOON, DR. TROUNSON,
4 MR. KLEIN, MEMBERS OF THE ICOC. MY NAME IS ELAINE
5 REED, THE PRINCIPAL INVESTIGATOR ON THIS
6 APPLICATION. I HAVE WITH ME HERE MY
7 CO-INVESTIGATOR, ZORAN GALIC. AND WE APPRECIATE THE
8 OPPORTUNITY TO PROVIDE COMMENT IN REFERENCE TO THIS
9 EXTRAORDINARY PETITION TO REQUEST RECONSIDERATION OF
10 OUR GRANT REVIEW FOR THE PROJECT WHICH WE PROPOSE TO
11 CHARACTERIZE THE ALLOIMMUNE RESPONSE TO HUMAN STEM
12 CELL-DERIVED PANCREATIC LINEAGES IN CELLS.

13 LIKE TO TAKE THIS OPPORTUNITY TO RESPOND
14 TO THE SPECIFIC ISSUES RAISED BY THE REVIEWERS AND
15 CLARIFY SPECIFIC POINTS THAT WE BELIEVE WERE
16 MISUNDERSTOOD BY ONE OR MORE REVIEWERS.

17 FIRST AND FOREMOST, OUR PROPOSAL RESPONDED
18 TO THE RFA REQUEST FOR APPLICATIONS THAT ADDRESS THE
19 DEVELOPMENT AND VERIFICATION OF ANIMAL MODELS TO
20 PREDICT THE HUMAN IMMUNE RESPONSE TO ALLOGENEIC
21 TRANSPLANTATION. AS NOTED BY CIRM, THERE'S A
22 CRITICAL NEED FOR THE DEVELOPMENT OF SUITABLE ANIMAL
23 MODELS TO STUDY RESPONSE TO STEM CELLS AND TO STEM
24 CELL-DERIVED CELL TISSUE.

25 SO THE MAIN OBJECTIVE OF THIS RESEARCH

BARRISTERS' REPORTING SERVICE

1 THAT WE PROPOSED IN THE GRANT WAS TO DEVELOP AN
2 ANIMAL/HUMAN CHIMERIC MODEL. THE BLT MOUSE IS AN IN
3 VIVO SYSTEM TO STUDY REJECTION OF HUMAN EMBRYONIC
4 STEM CELL-DERIVED EMBRYONIC STEM CELLS.

5 AND CLEARLY, ONCE THIS MODEL IS FULLY
6 DEVELOPED, THIS WILL OPEN THE DOOR TO A WHOLE HOST
7 OF ADDITIONAL MECHANISTIC STUDIES.

8 WE BELIEVE THAT THIS RESEARCH IS VERY
9 IMPORTANT BECAUSE RIGHT NOW CURRENTLY THE
10 IMMUNOGENICITY OF EMBRYONIC CELL-DERIVED TISSUE
11 GRAFTS IS NOT WELL UNDERSTOOD AND REQUIRES FURTHER
12 ASSESSMENT BEFORE WE CAN EVEN DREAM OF STRATEGIES
13 AND DEVELOP STRATEGIES FOR TOLERANCE REDUCTION AND
14 TO MAXIMIZE THE POTENTIAL IN-CELL REPLACEMENT IN
15 REGENERATIVE MEDICINE. THEREFORE, WE'VE DEVELOPED A
16 HUMANIZED MOUSE THAT SHOWS LONG-TERM RECONSTITUTION
17 OF A FUNCTIONAL HUMAN IMMUNE SYSTEM. AND WE NOW
18 PROPOSE TO GENERATE EMBRYONIC STEM CELL-DERIVED
19 PANCREATIC LINEAGE CELLS AND GRAFT THEM IN A BLT
20 MOUSE WITH THESE TISSUES AND CHARACTERIZE HOW THEY
21 ADAPT TO THE IMMUNE SYSTEM RESPONSE TO THESE
22 COMPATIBLE TRANSPLANTS OF THESE STEM CELL-DERIVED
23 PANCREATIC LINEAGE CELLS.

24 OUR OVERALL -- IF YOU LOOK AT OUR REVIEW
25 BY THE STUDY SECTION, YOU WILL SEE THAT IT WAS WELL

BARRISTERS' REPORTING SERVICE

1 RECEIVED BY THE REVIEWERS. AND THEY COMMENTED THAT
2 THE COMBINATION OF THE USE OF EMBRYONIC STEM
3 CELL-DERIVED PANCREATIC LINEAGE CELLS AND THE
4 HUMANIZED MOUSE MODEL WERE BOTH NOVEL. THEY ALSO
5 AGREED THAT THE PROJECT WOULD HAVE TRANSLATIONAL
6 IMPACT IF SUCCESSFUL SINCE IT WOULD PROVIDE INSIGHT
7 NOT CURRENTLY ACHIEVABLE IN MAN.

8 THE REVIEWERS DESCRIBED THIS AS A SOLID
9 GRANT APPLICATION WITH A CAREFULLY DEVELOPED
10 EXPERIMENTAL PLAN AND LOGICAL AIM. HOWEVER, THE
11 REVIEWERS WERE SPLIT, AND I WANT TO EMPHASIZE THE
12 REASON WHY WE'RE HERE TO TALK ABOUT THIS IS THAT THE
13 REVIEWERS WERE SPLIT REGARDING ONLY SOME ASPECTS OF
14 THE FEASIBILITY OF THE MODEL.

15 I'D LIKE TO BRIEFLY ADDRESS SOME OF THE
16 REVIEWERS' CONCERNS THAT WERE RAISED SINCE WE
17 BELIEVE THAT CERTAIN POINTS MAY HAVE BEEN
18 MISUNDERSTOOD BY ONE OR MORE OF THE REVIEWERS WHICH
19 HAVE IMPACTED THE IMPRESSION AND OUTCOME OF OUR
20 GRANT.

21 FIRST OF ALL, THE REVIEWERS WERE SPLIT ON
22 THE HUMAN-BLT MOUSE AS A SURROGATE FOR HUMAN IMMUNE
23 RESPONSES TO ES-DERIVED CELL TISSUE. MOUSE-HUMAN
24 CHIMERIC MODELS ARE RELATIVELY NEW, BUT THEY'RE
25 BECOMING MORE HUMANIZED, THEIR USE IS GROWING, THEIR

BARRISTERS' REPORTING SERVICE

1 IMPORTANCE OF THIS MODEL IS BEING RECOGNIZED
2 GLOBALLY. THE BLT MODEL IS THE MOST HUMANIZED
3 SYSTEM TO DATE AND OFFERS ADVANTAGES THAT IN VITRO
4 SYSTEMS CAN CERTAINLY NOT PROVIDE. SO THERE'S THE
5 POTENTIAL TO EXPERIMENTALLY MODEL HUMAN IMMUNE
6 RESPONSE TO TRANSPLANTED CELLS. WHILE THIS SYSTEM
7 TO DATE HAS NOT BEEN USED TO MODEL HUMAN EMBRYONIC
8 STEM CELL-DERIVED PANCREATIC LINEAGE CELL REJECTION,
9 THERE'S SUFFICIENT EVIDENCE BOTH IN OUR OWN
10 PRELIMINARY STUDIES AND IN THE LITERATURE THAT THIS
11 MODEL CAN BE SUCCESSFULLY ADAPTED FOR THIS PURPOSE.

12 ONE CONCERN RAISED BY THE REVIEWER
13 REGARDED OUR ABILITY TO PRODUCE PANCREATIC LINEAGE
14 CELLS IN SUFFICIENT NUMBERS TO CONDUCT THE
15 EXPERIMENT.

16 CHAIRMAN KLEIN: IF THE CANDIDATE COULD
17 TRY AND WIND IT UP, I REALIZE THIS IS VERY
18 IMPORTANT, BUT IF YOU COULD TRY AND WIND IT UP. WE
19 TRY AND STAY FAIRLY CLOSE TO A THREE-MINUTE
20 PRESENTATION, BUT BECAUSE YOU ARE A CANDIDATE
21 APPLICANT, I'M GIVING YOU A LITTLE BIT MORE TIME.

22 DR. REED: I APPRECIATE THAT. THANK YOU.
23 SO I WANT TO SAY THAT WE ROUTINELY OBTAIN THE
24 REQUIRED CELL NUMBERS TO GIVE THESE STUDIES, IN
25 FACT, OVER A BILLION ES CELLS PRIOR TO

BARRISTERS' REPORTING SERVICE

1 DIFFERENTIATION FOR EACH STUDY.

2 WE HAVE NO -- WE HAVE SEVERAL APPROACHES
3 FOR USING REPORTER EXPRESSION, AND THAT WE BELIEVE
4 THAT THE CONCERNS RAISED BY THE REVIEWERS WILL BE
5 OVERCOME BY THE MODELS WE PROPOSE AND THE
6 ALTERNATIVE STRATEGIES. IN THE UNLIKELY EVENT THAT
7 THE REPORTERS DO NOT MAINTAIN EXPRESSION, WE HAVE
8 PROPOSED THE USE OF OTHER PROMOTERS, AS I SAID, OR
9 WE CAN STILL PERFORM OUR ANALYSIS OF THESE
10 PANCREATIC LINEAGE CELLS BY LOOKING AT OTHER
11 FUNCTIONAL ASSAYS OF THE CELLS.

12 THERE WAS A CONCERN RAISED ABOUT THE
13 SURVIVAL OF THE CELLS, AND WHAT WE WANT TO SAY IS
14 IT'S ALREADY DOCUMENTED IN THE LITERATURE THAT THESE
15 PANCREATIC LINEAGE CELLS CAN ENGRAFT AND SURVIVE
16 OVER 100 DAYS IN ANIMAL MODELS.

17 THE ONE REVIEWER WAS CONCERNED THAT THE
18 HUMAN-MOUSE MODEL WAS NOT VALIDATED AS BEING TRULY
19 HUMAN, AND WE DISAGREE SINCE THE NOD-SCID COMMON
20 CHAIN NEGATIVE MICE CANNOT MOUNT MURINE RESPONSES AS
21 THEY'RE TRULY IMMUNODEFICIENT.

22 IN THE RESPONSE TO AIM 2, THE REVIEWERS
23 STATED THAT IT WAS NOT HYPOTHESIS-DRIVEN, BUT WE
24 BELIEVE THAT THEY OVERLOOKED THE HYPOTHESIS WHICH
25 WAS ON PAGE 4 OF THE GRANT APPLICATION, WHICH STATES

BARRISTERS' REPORTING SERVICE

1 THAT WE BELIEVE THAT THESE BLT MICE WILL INDUCE
2 HUMORAL ACTIVATION BY INDIRECT ALLORECOGNITION
3 PATHWAY.

4 CHAIRMAN KLEIN: SO IS THAT -- WE DO HAVE
5 THE BENEFIT, OF COURSE, OF THE PETITION. WE
6 APPRECIATE YOUR PERSONAL PRESENTATION. I WOULD JUST
7 ASK THE MEMBERS ARE THERE ANY QUESTIONS OF THE
8 PRESENTER? I THINK WE WOULD HOPE THAT YOU WOULD
9 APPLY. I DON'T SEE A MOTION ON THIS ITEM. IS THERE
10 ANOTHER PRESENTER THERE ADDRESSING THIS ITEM?

11 DR. FRIEDMAN: THERE IS HER COLLEAGUE AND
12 COLLABORATOR ON THIS, MR. CHAIRMAN.

13 DR. GALIC: GOOD AFTERNOON. MY NAME IS
14 ZORAN GALIC, AND I'M CO-INVESTIGATOR ON THIS
15 PROPOSAL.

16 CHAIRMAN KLEIN: IN YOUR COMMENTS, IF YOU
17 COULD, SINCE WE HAVE THE BENEFIT OF THE PRESENTATION
18 WE'VE JUST HEARD AND THE EXTRAORDINARY PETITION, IF
19 YOU COULD TRY AND KEEP THESE COMMENTS ON THREE
20 MINUTES WORTH OF HIGHLIGHTS THAT YOU COULD ADDRESS.

21 DR. GALIC: (UNINTELLIGIBLE.)

22 CHAIRMAN KLEIN: IF YOU COULD SPEAK MORE
23 SLOWLY PLEASE BECAUSE THE TRANSCRIPTION, WE'RE NOT
24 ABLE TO MAKE A TRANSCRIBED COPY OF IT BECAUSE YOU
25 NEED TO SLOW DOWN FOR THE REPORTER.

BARRISTERS' REPORTING SERVICE

1 DR. GALIC: OF COURSE. WHAT I WAS SAYING
2 IS THAT HERE WE ARE TRYING TO UTILIZE THE BEST
3 HUMANIZED MOUSE MODEL TO ANSWER A VERY IMPORTANT
4 QUESTION. AND IT SEEMS THAT SOME OR MOST REVIEWERS
5 UNDERSTOOD THAT FULLY AND PRAISED OUR GRANT FOR
6 THAT. HOWEVER, SOME REVIEWERS DID NOT SEEM TO
7 UNDERSTAND THAT THE POINT OF THIS GRANT IS REALLY TO
8 DEVELOP A NOVEL MODEL. AND, THEREFORE, THEY
9 CRITICIZED CERTAIN THINGS THAT ARE ALREADY
10 ESTABLISHED IN LITERATURE THAT STILL HAS TO BE
11 DISCOVERED USING THIS MODEL.

12 SO, THEREFORE, OUR MAIN CONCERN IS THAT
13 SOME DATA OF THESE GRANTS ARE MISINTERPRETED. AS
14 MENTIONED, IT'S A QUESTION IF YOU CAN PROVIDE
15 SUFFICIENT NUMBER OF CELLS -- THE RETRIEVAL OF THESE
16 NUMBERS OF CELLS. DATA THAT WAS ALREADY PUBLISHED
17 AND CLEARLY CITED IN THE GRANT HE OVERLOOKED, AND
18 THAT'S ANOTHER REASON WHY WE QUESTIONED A REVIEWER'S
19 COMMENT. THERE ARE CERTAIN ISSUE THAT WE RECOGNIZE
20 AND MENTION IN THE GRANT AND OFFERED ALTERNATIVE
21 APPROACHES THAT WERE ALSO OVERLOOKED, AND WE FELT
22 THAT THAT WAS A CERTAIN POINT AFFECTED THE FINAL
23 SCORE. AND THAT WOULD PRETTY MUCH BE THE COMMENT I
24 WANTED TO MAKE. THANK YOU.

25 CHAIRMAN KLEIN: THANK YOU VERY MUCH. FOR

BARRISTERS' REPORTING SERVICE

1 THE APPLICANT, I'D LIKE TO POINT OUT THAT WHILE WE
2 HAVE ADDRESSED SOME APPLICATIONS AND APPROVED MOVING
3 THEM UP WHERE THERE WAS A SPLIT IN THE REVIEW, THE
4 SCORES THAT ARE POSTED PUBLICLY HERE SHOW THAT THE
5 SPLITS ARE MUCH GREATER THAN IN THE SUBJECT GRANT IN
6 THIS CASE. THE SCORES ON THOSE WE'VE MOVED UP HAVE
7 BEEN BETWEEN A 50 AND 75, A REAL VERY SUBSTANTIAL
8 SPLIT WITHIN THE PEER REVIEW GROUP. AND IN THIS
9 CASE THE HIGH SCORE IS ABOUT A 65. SO IT'S
10 IMPORTANT FOR YOU TO NOTE THAT THERE IS A DIFFERENCE
11 IN THE DEGREE OF THE SPLIT WITHIN THE REVIEW GROUP,
12 AND THE HIGH SCORE HERE IS BELOW THE SCORING LINE.

13 BUT WE HAVE TREMENDOUS RESPECT FOR YOUR
14 WORK AND WOULD HOPE THAT YOU REMAIN COMMITTED TO
15 THIS FIELD AND WORK TO COME BACK TO US ON ANOTHER
16 ROUND WHERE THIS MIGHT BE APPLICABLE BECAUSE I DO
17 NOT SEE A MOTION HERE AMONG THE MEMBERS.

18 ARE THERE OTHER MOTIONS ON ANY OTHER ITEM
19 IN THE LIST OF APPLICATIONS? ANY OTHER PUBLIC
20 COMMENT? ALL RIGHT.

21 WITH THAT, COUNSEL, WE HAVE TWO ITEMS THAT
22 ARE STILL OPEN WAITING FOR A TECHNICAL QUORUM,
23 ALTHOUGH WE HAVE A QUORUM PRESENT. BECAUSE OF
24 RECUSALS, WE DON'T HAVE A QUORUM FOR THOSE TWO
25 ITEMS. OTHER THAN THOSE ITEMS, COUNSEL, COULD WE

BARRISTERS' REPORTING SERVICE

1 MOVE ALL OF THE OTHER ITEMS FOR FUNDING?

2 MR. HARRISON: THERE ARE TWO OTHER
3 APPLICATIONS IN TIER I FOR WHICH WE NEED DR.
4 HAWGOOD'S VOTE AS WELL. SO DR. HAWGOOD, I BELIEVE,
5 IS DUE TO ARRIVE AT 5:30. WE COULD POSTPONE AN
6 OMNIBUS MOTION UNTIL THAT POINT, AND HOPEFULLY WE
7 COULD THEN -- WE CAN DO THAT AS WELL.

8 CHAIRMAN KLEIN: SENATOR TORRES HAS
9 SUGGESTED THAT WE TAKE THE ROLL ON THE MOTIONS AND
10 PUT A CALL ON THE ROLL. WHAT IS THE PLEASURE OF THE
11 BOARD?

12 DR. FRIEDMAN: MR. CHAIRMAN, I WOULD
13 PREFER THAT. I'M CONCERNED THAT I'M GOING TO HAVE
14 TO LEAVE IN A BIT, AND I DON'T WANT TO RUN US A VOTE
15 SHORT.

16 CHAIRMAN KLEIN: OKAY. WITH THAT, I THINK
17 I WILL FOLLOW THE SUGGESTION OF SENATOR TORRES.
18 WITHOUT OBJECTION.

19 SO, COUNSEL, WOULD WE LIKE TO TAKE A
20 SECOND. WHILE COUNSEL IS CONSOLIDATING THESE
21 RESULTS FOR A VOTE, I'M GOING TO GIVE A TWO-MINUTE
22 BREAK FOR THE STAFF AND THE MEMBERS.

23 (A RECESS WAS TAKEN.)

24 CHAIRMAN KLEIN: IN THE ROOM I'D LIKE TO
25 SAY TO EVERYONE BEFORE WE END TONIGHT, SINCE THIS

BARRISTERS' REPORTING SERVICE

1 WILL BE DR. LEVEY'S LAST MEETING, I'D LIKE TO HAVE A
2 STANDING OVATION FOR HIM, BUT LET'S KEEP THAT TO THE
3 END. AND THE PLAN WOULD BE TONIGHT TO BREAK BETWEEN
4 6:30 AND A QUARTER OF SEVEN, NOT COME BACK TONIGHT.
5 I THINK WE CAN GET ENOUGH ACCOMPLISHED AND GO TO
6 DINNER. AND THERE IS A GROUP DINNER THAT'S PROVIDED
7 FOR EVERYONE IN THE SAME ROOM WHERE WE HAD LUNCH.

8 ALL RIGHT. IF COUNSEL CAN GIVE US SOME
9 INSTRUCTIONS ON WHAT THE RECOMMENDED PROTOCOL WOULD
10 BE.

11 MR. HARRISON: WE HAVE A MOTION FROM
12 SENATOR TORRES, WHICH, IF I UNDERSTAND IT CORRECTLY,
13 IS TO FUND ALL THE APPLICATIONS IN TIER I, SECONDED
14 BY DAVID SERRANO-SEWELL. I MIGHT RECOMMEND, TO
15 SIMPLIFY THINGS, THAT SENATOR TORRES CONSIDER
16 INCORPORATING INTO THAT MOTION AN ADDITIONAL
17 ELEMENT, WHICH WOULD BE NOT TO FUND THE REMAINING
18 APPLICATIONS, SO THAT WE CAN COMPLETE IT ALL IN ONE
19 MOTION.

20 MR. TORRES: THAT WOULD BE MY TOTAL
21 MOTION.

22 CHAIRMAN KLEIN: ALL RIGHT. WE WOULD DO
23 THEM AS A GROUP; BUT WHEN YOU VOTE, YOU WILL VOTE
24 YEA OR NAY FOR ALL THOSE FOR WHICH YOU ARE IN FAVOR
25 OR OPPOSED EXCEPT FOR THE ONES WITH WHICH YOU HAVE A

BARRISTERS' REPORTING SERVICE

1 CONFLICT. MAKE SURE THE STATEMENT IS MADE EXCEPT
2 FOR ONES FOR WHICH YOU HAVE A CONFLICT. AND WE ARE
3 GOING TO HOLD THE ROLL OPEN FOR FOUR APPLICATIONS.
4 AND WOULD YOU PLEASE, FOR THE RECORD, CITE THOSE
5 FOUR APPLICATIONS?

6 MR. HARRISON: THERE ARE ACTUALLY MORE
7 THAN FOUR. THERE WERE JUST TWO ADDITIONAL ONES IN
8 TIER I THAT I HAD IDENTIFIED, BUT THERE ARE
9 ADDITIONAL ONES IN TIER III.

10 CHAIRMAN KLEIN: FOR THE RECORD, IF YOU
11 PLEASE CITE THOSE.

12 MR. HARRISON: SURE. 1739, 1709, 1743,
13 1717, 1744, 1742, 1712, 1723, AND 1741.

14 CHAIRMAN KLEIN: ALL RIGHT. SCOTT TOCHER,
15 YOU AGREE WITH THAT?

16 MR. TOCHER: YES.

17 CHAIRMAN KLEIN: OKAY. SO WE'RE GOING TO
18 GIVE AN AWARD TO DR. HAWGOOD WHEN HE ARRIVES. DR.
19 LEVEY HAS RETURNED. DR. PULIAFITO HAS RETURNED. I
20 BELIEVE WE HAVE THE MEMBERS PRESENT; IS THAT
21 CORRECT?

22 DR. FRIEDMAN: MR. CHAIRMAN, I'M ON THE
23 CALL AS WELL.

24 CHAIRMAN KLEIN: DR. FRIEDMAN IS ON THE
25 CALL.

BARRISTERS' REPORTING SERVICE

1 DR. FRIEDMAN: THANK YOU.

2 CHAIRMAN KLEIN: COULD WE TURN DOWN THE
3 VOLUME JUST A BIT?

4 MS. KING: JOAN WILL BE REJOINING
5 MOMENTARILY.

6 CHAIRMAN KLEIN: AMY, COULD YOU SEE HOW
7 JOAN IS DOING, PLEASE? ALL RIGHT. IF JOAN IS NOT
8 IN IN TIME BY THE TIME WE FINISH THE ROLL CALL, WE
9 WILL HOLD IT OPEN FOR HER. SO WOULD YOU PLEASE CALL
10 THE ROLL, MELISSA KING.

11 MS. KING: DONALD DAFOE.

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

14 MS. KING: ROBERT PRICE.

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

17 MS. KING: FLOYD BLOOM.

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

20 MS. KING: DAVID BRENNER.

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

23 MS. KING: WILLIAM BRODY.

24 DR. BRODY: YES, EXCEPT FOR THOSE FOR
25 WHICH I HAVE A CONFLICT.

BARRISTERS' REPORTING SERVICE

1 MS. KING: SUSAN BRYANT.

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

4 MS. KING: MICHAEL FRIEDMAN.

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

7 MS. KING: BOB KLEIN.

8 CHAIRMAN KLEIN: YES.

9 MS. KING: GERALD LEVEY.

10 DR. LEVEY: YES, EXCEPT FOR THOSE FOR
11 WHICH I HAVE A CONFLICT.

12 MS. KING: FRANCISCO PRIETO.

13 DR. PRIETO: YES, EXCEPT FOR THOSE FOR
14 WHICH I HAVE A CONFLICT.

15 MS. KING: CARMEN PULIAFITO.

16 DR. PULIAFITO: YES, EXCEPT FOR THOSE FOR
17 WHICH I HAVE A CONFLICT.

18 MS. KING: ROBERT QUINT.

19 DR. QUINT: YES, AND I HAVE NO CONFLICT.

20 MS. KING: JOHN REED.

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

23 MS. KING: DUANE ROTH.

24 MR. ROTH: YES.

25 MS. KING: JOAN SAMUELSON.

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: JOAN, THE MOTION AND THE
2 SECOND ARE TO APPROVE ALL OF THOSE ON WHICH WE HAVE
3 PREVIOUSLY VOTED APPROVAL INDIVIDUALLY. IN ADDITION
4 THAT STARTED IN TIER I, WE ARE HOLDING THE ROLL
5 OPEN --

6 MS. KING: AND ALSO TO NOT FUND THOSE IN
7 TIER III.

8 CHAIRMAN KLEIN: WE ARE HOLDING THE ROLL
9 OPEN FOR DR. HAWGOOD, BUT WE'RE RECORDING THE VOTES
10 OF EVERYONE ELSE WHO WOULD SUPPORT THE PRIOR ACTIONS
11 AND THE ONES IN TIER I AS ORIGINALLY RECOMMENDED
12 WHILE VOTING NOT TO FUND ANYTHING THAT HAS NOT
13 PREVIOUSLY BEEN RECOMMENDED AND APPROVED BY THIS
14 BOARD FOR FUNDING.

15 MS. SAMUELSON: THANK YOU, MR. CHAIRMAN.
16 I VOTE YES.

17 MS. KING: DAVID SERRANO-SEWELL.

18 MR. SERRANO-SEWELL: YES.

19 MS. KING: JEFF SHEEHY.

20 MR. SHEEHY: YES, EXCEPT FOR THOSE FOR
21 WHICH I HAVE A CONFLICT.

22 MS. KING: OSWALD STEWARD.

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

25 MS. KING: ART TORRES.

BARRISTERS' REPORTING SERVICE

1 MR. TORRES: AYE.

2 CHAIRMAN KLEIN: DID YOU CALL DR. REED?

3 MS. KING: I DID, YES.

4 CHAIRMAN KLEIN: MR. PRESIDENT, DR.

5 TROUNSON, WHAT I'D LIKE TO DO IS ADDRESS A COUPLE OF
6 ITEMS VERY QUICKLY THAT I THINK WE CAN MOVE ON
7 EXPEDITIOUSLY, ITEM NO. 11 AND ITEM 12, WHICH ARE
8 VERY IMPORTANT ITEMS FOR FUNCTION OF THE STANDARDS
9 AND THE GRANTS WORKING GROUP. IF COULD I ASK WHO
10 YOU WOULD LIKE TO PRESENT ITEM 11?

11 MS. KING: GIL SAMBRANO WILL BE PRESENTING
12 THAT, GEOFF LOMAX NOT BEING PRESENT.

13 DR. SAMBRANO: SO I THINK DR. LOMAX WANTED
14 TO BE HERE TO BE ABLE TO SAY A FEW WORDS ABOUT
15 DR. KAMP. SO IN LIGHT OF THE FACT THAT HE IS NOT
16 PRESENT, HE ASKED ME JUST TO PRESENT THIS SLIDE TO
17 YOU AND LET YOU KNOW THAT THIS IS A NEW CANDIDATE
18 FOR THE STANDARDS WORKING GROUP, A SCIENTIST AND
19 CLINICIAN WHO IS WELL RECOGNIZED AND KNOWN IN THE
20 FIELD. AND I BELIEVE MEMBERS OF THE STANDARDS
21 WORKING GROUP HAVE IN GENERAL AGREED THAT THIS IS
22 SOMEBODY THEY WOULD LIKE TO SEE BE ADDED AS A
23 SCIENTIFIC MEMBER OF THIS GROUP.

24 CHAIRMAN KLEIN: I'D LIKE TO POINT OUT
25 THAT DR. KAMP IS EXTREMELY WELL RECOGNIZED FOR HIS

BARRISTERS' REPORTING SERVICE

1 WORK WITH CARDIOMYOCYTES AND WAS RECENTLY AT THE
2 ISSCR WHERE THE STATE OF WISCONSIN BROUGHT HIM
3 FORWARD IN A PRESS CONFERENCE WITH THE GOVERNOR OF
4 WISCONSIN, WHO RECOGNIZED HIM AS ONE OF THE LEADING
5 RESEARCHERS FROM THEIR STATE. SO WE'RE VERY
6 PRIVILEGED TO HAVE DR. TIMOTHY KAMP AS A CANDIDATE.

7 ANY ADDITIONAL BOARD COMMENT?

8 MR. ROTH: MOTION TO APPROVE.

9 CHAIRMAN KLEIN: MOTION FROM DUANE ROTH TO
10 APPROVE. IS THERE A SECOND?

11 DR. PRIETO: SECOND.

12 CHAIRMAN KLEIN: SECOND FROM DR. PRIETO.
13 DISCUSSION? DISCUSSION FROM THE PUBLIC? ALL IN
14 FAVOR?

15 (CHORUS OF AYES.)

16 CHAIRMAN KLEIN: OPPOSED?

17 (NO RESPONSE.)

18 CHAIRMAN KLEIN: THANK YOU.

19 MS. KING: FOR THE RECORD, THE VOTE FROM
20 DR. FRIEDMAN ON THE PHONE WAS AYE.

21 CHAIRMAN KLEIN: ITEM NO. 12.

22 DR. SAMBRANO: SO TAB 12.

23 CHAIRMAN KLEIN: FOR THE AUDIENCE ON THE
24 PHONE, DR. SAMBRANO IS DOING THE PRESENTATION.

25 DR. SAMBRANO: WE ARE BRINGING FOR YOUR

BARRISTERS' REPORTING SERVICE

1 CONSIDERATION EIGHT NOMINEES FOR ALTERNATE GRANTS
2 WORKING GROUP MEMBERS. AND AS USUAL, I WOULD REMIND
3 YOU THAT THESE GRANTS WORKING GROUP MEMBERS MAY BE
4 CALLED UPON TO PARTICIPATE IN A GRANTS WORKING GROUP
5 MEETING AS AN AD HOC REVIEWER OR ASKED TO BECOME A
6 REGULAR MEMBER OF THE WORKING GROUP TO REPLACE
7 CURRENT MEMBERS AS NECESSARY.

8 THESE NEW MEMBERS WOULD BE SUBJECT TO AND
9 MUST AGREE TO ABIDE BY THE SAME CONFLICT OF INTEREST
10 AND FINANCIAL DISCLOSURE POLICY AS REGULAR WORKING
11 GROUP MEMBERS.

12 THE NOMINEES INCLUDE DR. PATRICK BRUNDIN,
13 DR. MARC DIAMOND, DR. FRANZ HEFTI, DR. DAVID
14 MCKENNA, DR. SEAN PALECEK, DR. DAVID SACHS, DR. G.
15 SITTA SITTAMPALAM, AND DR. BARBARA WIROSTKO.

16 SO CIRM REQUESTS YOUR APPROVAL AND
17 APPOINTMENT OF THESE NOMINEES AS ALTERNATE MEMBERS
18 OF THE WORKING GROUP.

19 CHAIRMAN KLEIN: I THINK WE HAVE THE BIOS
20 AS BEEN STATED. IS THERE COMMENTS FROM ANY MEMBERS
21 OF THE BOARD? CERTAINLY THESE ARE VERY
22 DISTINGUISHED INDIVIDUALS. WE ARE VERY PRIVILEGED
23 TO THEM HAVE AS MEMBERS OF THE GRANTS WORKING GROUP.
24 ANY MEMBERS FROM THE PUBLIC WITH COMMENT? IS THERE
25 A MOTION TO APPROVE?

BARRISTERS' REPORTING SERVICE

1 MR. ROTH: SO MOVED.

2 DR. BRENNER: SECOND.

3 CHAIRMAN KLEIN: THANK YOU. FURTHER
4 DISCUSSION? ALL IN FAVOR?

5 (CHORUS OF AYES.)

6 CHAIRMAN KLEIN: OPPOSED?

7 (NO RESPONSE.)

8 CHAIRMAN KLEIN: DR. FRIEDMAN, YOUR VOTE?

9 DR. FRIEDMAN: AYE.

10 CHAIRMAN KLEIN: AND THE BASIC BIOLOGY
11 AWARDS III, DR. TROUNSON.

12 DR. TROUNSON: SO WHO'S GOING TO PRESENT
13 THAT? DR. KELLY SHEPHERD. I THINK THIS IS PERHAPS
14 THE FIRST TIME SHE'S PRESENTED TO THE BOARD, SO
15 PLEASE BE KIND TO HER.

16 CHAIRMAN KLEIN: WE'LL ALSO BE DULY
17 IMPRESSED, DR. SHEPHERD.

18 DR. SHEPHERD: MR. CHAIRMAN, MEMBERS OF
19 THE BOARD, AND AUDIENCE, IT IS MY PLEASURE TO
20 PRESENT FOR YOUR CONSIDERATION THE CONCEPT PROPOSAL
21 FOR RFA 10-04, THE BASIC BIOLOGY AWARDS III. THIS
22 IS AGENDA ITEM NO. 13 IN YOUR BINDER.

23 THE FIELD OF STEM CELL BIOLOGY CONTINUES
24 TO MOVE AT A RAPID PACE, YET THERE ARE STILL
25 FUNDAMENTAL ISSUES RELATED TO THE CONTROL OF STEM

BARRISTERS' REPORTING SERVICE

1 CELL FATE THAT REQUIRE FURTHER EXPLORATION BEFORE
2 THEIR FULL TRANSLATIONAL POTENTIAL CAN BE REALIZED.
3 THE PURPOSE OF CIRM'S BASIC BIOLOGY PROGRAM IS TO
4 CAPITALIZE ON THE EXISTING MOMENTUM IN THE FIELD AND
5 FOSTER INNOVATIVE, CUTTING-EDGE RESEARCH TOWARDS
6 ADVANCING OUR BASIC UNDERSTANDING OF HUMAN STEM CELL
7 BIOLOGY THEREBY EXPANDING THE KNOWLEDGE BASE THAT
8 BOTH FUELS AND FACILITATES CLINICAL ADVANCE.

9 IN ORDER TO MOST EFFICIENTLY AND
10 EFFECTIVELY REALIZE THESE GOALS, THE BASIC BIOLOGY
11 III PROGRAM WILL BE TARGETED TOWARDS ADDRESSING
12 SIGNIFICANT UNRESOLVED ISSUES PERTINENT TO THE
13 UNDERSTANDING OF HUMAN STEM CELL BIOLOGY THAT HAVE
14 THE POTENTIAL TO SUBSTANTIALLY ADVANCE THE FIELD.
15 TO THIS END, CIRM HAS IDENTIFIED PRIORITY AREAS FOR
16 FUNDING, WHICH ARE LISTED IN THE CONCEPT PROPOSAL
17 DOCUMENT WITHIN YOUR BINDERS. I'LL JUST GIVE YOU A
18 COUPLE OF EXAMPLES OF SOME OF THOSE AREAS.

19 ONE AREA IS UNDERSTANDING THE BIOLOGY OF
20 HUMAN PLURIPOTENT STEM CELLS THAT INCLUDES EMBRYONIC
21 STEM CELLS, INDUCED PLURIPOTENT STEM CELLS,
22 ELUCIDATING MECHANISMS THAT CONTROL CELL FATE AND
23 THEIR DEVELOPMENTAL POTENTIAL, AND THE MOLECULAR
24 BASIS OF LINEAGE SPECIFICATION IN TISSUE IDENTITY.

25 WITH CIRM'S OVERALL MISSION IN MIND, THE

BARRISTERS' REPORTING SERVICE

1 BASIC BIOLOGY III AWARDS WILL CONTINUE TO BE
2 PRIORITIZED TOWARDS THOSE STUDIES FOCUSED ON AND
3 UTILIZING HUMAN CELLS, AND ONLY IN EXCEPTIONALLY
4 GROUNDBREAKING CASES WILL USE OF OTHER MAMMALIAN
5 SYSTEMS BE CONSIDERED.

6 WHILE VERY SIMILAR TO THE CONCEPT YOU'VE
7 PREVIOUSLY APPROVED FOR BASIC BIOLOGY I AND II, THE
8 SCOPE OF BASIC BIOLOGY III HAS BEEN EXPANDED
9 SOMEWHAT TO INCLUDE COMPELLING STUDIES WHERE THE
10 UNIQUE PROPERTIES OF HUMAN STEM CELLS COULD BE
11 EXPLOITED IN VITRO TO STUDY THE MOLECULAR BASIS OF
12 DISEASE.

13 SO THE ELIGIBILITY CRITERIA FOR PRINCIPAL
14 INVESTIGATORS ARE THE SAME AS THOSE THAT YOU HAVE
15 APPROVED PREVIOUSLY AND USED IN CIRM'S OTHER RFA'S.
16 BRIEFLY, THE PROGRAM WILL BE OPEN TO PRINCIPAL
17 INVESTIGATORS WITH PH.D., M.D., OR EQUIVALENT
18 DEGREES WHO ARE AUTHORIZED BY THE APPLICANT
19 INSTITUTION TO CONDUCT THE PROPOSED RESEARCH.

20 DUE TO THE URGENCY OF CIRM'S MISSION, THIS
21 INITIATIVE WILL REQUIRE A 20-PERCENT MINIMUM EFFORT
22 COMMITMENT BY THE PRINCIPAL INVESTIGATOR. NOW,
23 UNLIKE THE PREVIOUS BASIC BIOLOGY ROUNDS, THERE WILL
24 BE NO RESTRICTIONS ON HOLDERS OF CIRM NEW FACULTY OR
25 COMPREHENSIVE AWARDS. FOR THIS RFA ANY ELIGIBLE PI

BARRISTERS' REPORTING SERVICE

1 MAY APPLY REGARDLESS OF WHAT OTHER GRANTS ARE HELD
2 AS LONG AS THE MINIMUM 20-PERCENT EFFORT REQUIREMENT
3 CAN BE MET. IN TERMS OF INSTITUTIONAL ELIGIBILITY,
4 BOTH NONPROFIT AND FOR-PROFIT INSTITUTIONS WILL BE
5 ELIGIBLE TO APPLY.

6 THE DETAILS OF THE BASIC BIOLOGY III
7 AWARDS ARE THE FOLLOWING: CIRM PROPOSES TO FUND UP
8 TO 30 AWARDS FOR UP TO THREE YEARS IN DURATION WITH
9 JUSTIFIABLE DIRECT PROJECT COSTS UP TO 300,000 PER
10 YEAR, FOR A TOTAL PROGRAM COST OF UP TO \$45 MILLION.

11 THE BASIC BIOLOGY III AWARDS WOULD MAKE
12 USE OF THE PREAPPLICATION MECHANISM WITH NO
13 INSTITUTIONAL LIMITS. WE ANTICIPATE AN EVEN GREATER
14 RESPONSE TO THIS CALLING FOR FUNDING THAN THE
15 PREVIOUS ITERATION OF BASIC BIOLOGY AWARDS IN WHICH
16 WE RECEIVED 289 PREAPPLICATIONS, EACH FROM A
17 DIFFERENT PRINCIPAL INVESTIGATOR. FURTHERMORE, WITH
18 THE REMOVAL OF ELIGIBILITY RESTRICTIONS ON
19 INVESTIGATORS AND THE POTENTIAL INFLUX OF NEW
20 INVESTIGATORS AND SPIN-OFF RESEARCH IN THE STATE OF
21 CALIFORNIA, WE EXPECT THE RESPONSE THIS TIME TO BE
22 EVEN GREATER.

23 THE PREAPPLICATION REVIEW PROCESS
24 SCIENTIFIC REVIEW CRITERIA WILL BE USED TO SELECT
25 THE 50 TO 60 MOST PROMISING COMPETITIVE AND

BARRISTERS' REPORTING SERVICE

1 RESPONSIVE PREAPPLICATIONS TO BE INVITED TO SUBMIT
2 FULL APPLICATIONS WHICH SUBSEQUENTLY WILL BE
3 REVIEWED BY THE GRANTS WORKING GROUP.

4 CIRM HAS ESTABLISHED A PROVISIONAL
5 TIMETABLE FOR THIS INITIATIVE. WE ANTICIPATE THAT
6 RFA 10-01 WOULD BE RELEASED IN EARLY AUGUST OF THIS
7 YEAR WITH PREAPPLICATIONS DUE THE FOLLOWING
8 SEPTEMBER. FULL APPLICATIONS WOULD BE DUE IN
9 DECEMBER AFTER WHICH THEY WILL BE ASSIGNED TO
10 EXPERTS FROM THE GRANTS WORKING GROUP FOR REVIEW AND
11 DISCUSSION AT THE FEBRUARY 2011 MEETING. THE
12 RESULTING RECOMMENDATIONS WOULD BE BROUGHT BEFORE
13 THIS BOARD IN APRIL OF 2011.

14 IN SUMMARY, WE'RE REQUESTING APPROVAL FOR
15 THE CONCEPT PLAN FOR BASIC BIOLOGY AWARDS III, WHICH
16 INCLUDES A PREAPPLICATION PROCESS, A BUDGET OF UP TO
17 \$45 MILLION TO FUND UP TO 30 AWARDS TOTAL FOR THREE
18 YEARS IN DURATION, \$300,000 A YEAR DIRECT PROJECT
19 COST, AND NO LIMITATIONS ON ELIGIBLE PRINCIPAL
20 INVESTIGATORS WHO COMMIT AT LEAST 20-PERCENT EFFORT.

21 AND WITH THAT, I'D BE HAPPY TO TAKE ANY
22 QUESTIONS.

23 CHAIRMAN KLEIN: QUESTIONS FROM THE BOARD?

24 DR. REED: I JUST WANTED TO DISCUSS THE
25 20-PERCENT EFFORT REQUIREMENT INASMUCH AS THE

BARRISTERS' REPORTING SERVICE

1 APPLICATIONS ARE UP TO 300,000 AND SOME MIGHT APPLY
2 FOR LESS. COULD IT BE PERMISSIBLE TO PROVIDE LESS
3 EFFORT IF ONE MIGHT BE APPLYING FOR LESS FUNDS?

4 DR. SHEPHERD: WE EXPECT THE PRINCIPAL
5 INVESTIGATORS TO SHOW A REAL COMMITMENT TO THESE
6 PROJECTS EVEN IF THEIR GRANT MAY BE LESS EXPENSIVE
7 OR THERE MIGHT BE -- THERE ARE EXCEPTIONS TO THIS.
8 THE DISCRETION OF THE PRESIDENT OF CIRM IF THERE'S
9 AN EXCEPTIONAL CIRCUMSTANCE WHERE HE FEELS A
10 PRINCIPAL INVESTIGATOR MIGHT BE ABLE TO MAKE A
11 SIGNIFICANT CONTRIBUTION WITHOUT THAT 20-PERCENT
12 EFFORT, BUT IN GENERAL THAT'S THE MINIMUM
13 REQUIREMENT. AND THAT HAS BEEN THE WAY IT IS IN THE
14 PAST BASIC BIOLOGY ROUNDS AS WELL.

15 CHAIRMAN KLEIN: I THINK THAT IT'S VERY
16 HELPFUL, DR. TROUNSON, IF YOU COULD EXPAND ON WHAT
17 THOSE EXCEPTIONS ARE FOR THE DELEGATED AUTHORITY TO
18 THE PRESIDENT TO MAKE DETERMINATIONS ON EXCEPTION.

19 DR. TROUNSON: THANKS, CHAIR. AND WE
20 DON'T OFTEN DO IT, WHICH IS ONE THING BECAUSE WE'RE
21 NOT OFTEN REQUESTED TO DO IT, WHICH IS MAYBE A BIT
22 SURPRISING. BUT IT'S REALLY WHERE THERE IS A SENIOR
23 INVESTIGATOR AND THEIR ROLE IN THAT PROJECT IS
24 REALLY SORT OF AN ORGANIZATIONAL COMPONENT THAT
25 WITHOUT THEM, THE REVIEWERS WOULD FEEL THAT THE TEAM

BARRISTERS' REPORTING SERVICE

1 WOULD BE NOT QUITE THE SAME OR NOT WELL BALANCED.
2 SO IN SOME OF THOSE CASES WITH SENIOR INVESTIGATORS,
3 WE'VE RECOGNIZED THAT REDUCING THEIR PERCENTAGE
4 COMMITMENT CAN BE ENABLING FOR THEM TO BE INVOLVED
5 IN SOME OTHER THINGS, WHICH ARE ALSO IMPORTANT TO US
6 FREQUENTLY.

7 SO I THINK THE 20 PERCENT IS INDICATIVE OF
8 WANTING TO HAVE A VERY STRONG COMMITMENT FROM THEM,
9 FROM THE PI IN EACH AND EVERY CASE. BUT I THINK IN
10 SOME CIRCUMSTANCES AND DEPENDING UPON THE GRANT AND
11 THEIR INVOLVEMENT IN IT, THE ADJUSTMENTS CAN BE
12 SUITABLY MADE, AND WE HAVE DONE THAT IN THE PAST.

13 DR. REED: SO I WONDER IF IT MIGHT BE
14 SIMPLER TO SET A 20 PERCENT AS A GUIDELINE RATHER
15 THAN A REQUIREMENT, SAYING THAT, IN GENERAL, WE'RE
16 LOOKING FOR A COMMITMENT IN THE RANGE OF 20 PERCENT
17 AND THAT ONE'S EFFORT SHOULD BE WELL JUSTIFIED AND
18 ALLOWING EACH INVESTIGATOR TO SORT OF STAND ON THEIR
19 OWN MERITS AND THEIR OWN JUSTIFICATION THAT THIS
20 STUDY SECTION CAN THEN REVIEW AND DECIDE WHETHER
21 THEY FIND COMPELLING OR NOT.

22 DR. TROUNSON: I THINK THAT THAT'S
23 DEFINITELY AN OPTION THAT WOULD BE AVAILABLE. ONE
24 THING I WOULD SAY IS THAT THE REVIEW PANELS DO LOOK
25 AT THESE PERCENTAGE ALLOCATIONS AND AWARD IN FAVOR

BARRISTERS' REPORTING SERVICE

1 OF THOSE WHO ARE GIVING THE BIGGER COMMITMENTS,
2 PARTICULARLY IN SOME AREAS THEY RECOGNIZE THAT
3 HAVING THAT MUCH OF A ROLE -- THAT MUCH PERCENTAGE
4 ALLOCATION IS VERY MEANINGFUL. SO THE ONLY RISK IS
5 THAT YOU MIGHT BE SITTING DOWN -- YOU MIGHT BE
6 PENALIZED, IF YOU LIKE, IF YOU WENT DOWN BELOW 10
7 PERCENT, AND THEY THOUGHT, WELL, IT'S NOT SUCH A
8 MEANINGFUL IMPORT INTO THE PROJECT, AND DOES THE
9 REST OF THE TIME REALLY MAKE UP FOR THAT. I THINK
10 THIS IS A LITTLE BIT TO DO ABOUT HOW YOU FASHION
11 YOUR GRANT.

12 AND MORE THAN ANYTHING, I THINK THIS IS AN
13 INDICATOR BECAUSE IF YOU ACTUALLY GO TO THE
14 UNIVERSITIES, THERE'S A VERY VARIABLE DETERMINATION
15 OF HOW THAT PERCENTAGE IS MADE UP ANYWAY. SO IT'S
16 NOT A KIND OF ROCK SOLID FIGURE AT THE BEST OF
17 TIMES. SO I THINK THE WAY WE'VE GOT IT IS A BIT
18 INDICATIVE, BUT WE CAN MAKE THAT MORE INDICATIVE IN
19 A FORMAL SENSE.

20 CHAIRMAN KLEIN: MR. SHEEHY.

21 MR. SHEEHY: FIRST, THANK YOU FOR YOUR
22 PRESENTATION, DR. SHEPHERD. MY QUESTION IS ACTUALLY
23 I GUESS I'M TRYING TO UNDERSTAND HOW WE'RE ROLLING
24 OUT OUR GRANTS. SO I HAVE BASIC BIOLOGY SCHEDULED
25 FOR JULY/SEPTEMBER 2011 ON AGENDA ITEM 17, AND WE

BARRISTERS' REPORTING SERVICE

1 DON'T DO DISEASE TEAM II UNTIL DECEMBER OF 2011, SO
2 WE'RE NOT GOING TO COME BACK AND DO THE NEXT DISEASE
3 TEAM FOR ANOTHER YEAR?

4 CHAIRMAN KLEIN: DR. TROUNSON.

5 DR. TROUNSON: I NEED TO GET MAYBE PAT
6 OLSON TO BE MORE SPECIFIC ABOUT THOSE DATES. WE ARE
7 SUFFERING A BIT ON THE GROUND WITH RESPECT TO BEING
8 ABLE TO DELIVER ON THESE PROGRAMS. IT'S TAKEN MUCH
9 MORE OF OUR TIME THAN WE EVER THOUGHT IT WOULD TO
10 GET THE DISEASE TEAMS PROPERLY SCOPED UP AND GOING.
11 SO THE SENSE OF IT IS THAT WE ARE REALLY STRUGGLING
12 FROM THE SCIENCE CAPACITY AT THE MOMENT TO DELIVER.

13 I THINK THE PROGRAM, PAT, HAVE YOU GOT THE
14 ACTUAL PROGRAM FOR THE DISEASE TEAMS? I THINK
15 JEFF'S ASKING THAT PARTICULAR QUESTION.

16 CHAIRMAN KLEIN: AND I THINK WE HAD -- THE
17 REASON FOR THE QUESTION I THINK, JEFF, IS THAT WE
18 HAD AN EARLIER SCHEDULE FOR DISEASE TEAM THAT'S ALSO
19 BEEN DISCUSSED AT THE BOARD. DR. OLSON, IF YOU
20 COULD HELP US.

21 DR. OLSON: I JUST WANT TO COMMENT THAT
22 THE ROLLOUT SCHEDULE IN ITEM 17 REFLECTS THE TIMING
23 OF FUNDS TO BE PAID OUT AS OPPOSED TO WHEN THEY
24 WOULD BE REVIEWED BY THIS BOARD. SO IT'S BASED ON
25 ESTIMATES OF THAT AS OPPOSED TO. SO THIS IS THAT --

BARRISTERS' REPORTING SERVICE

1 OH, NEXT ICOC DECISION. THIS ONE -- I'M SORRY. I
2 NEED TO LOOK AT THIS. THE BASIC BIOLOGY, YEAH,
3 APRIL. THAT'S WHAT WE SAID.

4 DR. SHEPHERD: THAT'S WHEN IT'S PRESENTED
5 TO YOU.

6 DR. OLSON: DISEASE TEAMS IS JUNE OF 2011.
7 THOSE ARE CORRECT DATES ACTUALLY FOR THE BOARD
8 REVIEW. IT ACTUALLY IS JUNE, I BELIEVE, OF 2011,
9 BUT IT WOULD NOT BE PAID OUT UNTIL MUCH LATER.

10 MR. SHEEHY: I'M LOOKING UNDER ITEM 17,
11 APPENDIX 1, THE LIST OF RFA'S. I DON'T KNOW.
12 THAT'S JUST WHAT -- PAGE 9.

13 DR. TROUNSON: WHAT ARE YOU ACTUALLY
14 LOOKING AT, JEFF?

15 DR. OLSON: HE'S LOOKING AT THE FINANCIAL
16 PROJECTION SHEET. AND SO --

17 CHAIRMAN KLEIN: THERE'S ALSO A SCHEDULE
18 ON ITEM 17 ON PAGE 2, JEFF, THAT HAS NEXT ICOC
19 DECISION, AND IT ACTUALLY HAS DISEASE TEAMS AUGUST
20 2011 FOR A FINAL DECISION. SO I THINK DR. OLSON WAS
21 THINKING IT MIGHT HAVE BEEN JUNE. COULD BE --

22 DR. OLSON: I'M JUST SAYING DEPENDING ON
23 WHAT SCHEDULE. THE CURRENT SCHEDULE THAT I HAVE FOR
24 DISEASE TEAMS AS BEING --

25 MR. SHEEHY: WE CAN GO AHEAD. I'M HAPPY

BARRISTERS' REPORTING SERVICE

1 TO APPROVE THIS. IT'D JUST BE GREAT IF WE COULD GET
2 SOME CONSISTENCY IN DOCUMENTATION, AND WE COULD HAVE
3 SOME SENSE.

4 DR. OLSON: REVIEWED IN JUNE AND APPROVED
5 IN AUGUST.

6 CHAIRMAN KLEIN: I THINK SOME OF THESE
7 SCHEDULES HAVE BEEN MOVING AS THEY'VE BROUGHT
8 FORWARD A CLINICAL TRIALS RFA. AND MAYBE AT THE
9 NEXT MEETING, WE CAN HAVE AN OVERVIEW.

10 MR. SHEEHY: YEAH.

11 DR. OLSON: SO THE DATES ARE CONSISTENT.
12 THE BOARD APPROVAL DATE IS IN TABLE 1. THAT'S THE
13 CURRENT SCHEDULE. AND THEN IN TABLE 1 OF AGENDA
14 ITEM 17, PAGE 2, AND THEN APPARENTLY JOHN WAS SAYING
15 THAT YOU WERE LOOKING AT ANOTHER TABLE, WHICH WOULD
16 BE THE FUNDING START DATE, WHICH IS OBVIOUSLY
17 DELAYED BECAUSE YOU HAVE TO GO THROUGH THE
18 ASSURANCES AND ALL THE ESSENTIALLY PREFUNDING
19 ADMINISTRATIVE REVIEW.

20 MR. SHEEHY: I'M LOOKING AT PAGE 9,
21 APPENDIX 1.

22 CHAIRMAN KLEIN: SO WE'RE GOING TO GET A
23 FULL UPDATE AT THE NEXT BOARD MEETING, BUT IMPORTANT
24 FOR EVERYONE TO REMEMBER IS THAT, I BELIEVE, DR.
25 TROUNSON, WE'RE STILL UNDER A POLICY WHERE YOU CAN

BARRISTERS' REPORTING SERVICE

1 INCLUDE IN YOUR COST WORK THAT'S DONE WITHIN 90 DAYS
2 OF THE DATE.

3 DR. TROUNSON: WELL, THAT'S CORRECT.

4 CHAIRMAN KLEIN: COULD YOU EXPLAIN THAT
5 POSITION SO THAT THEY UNDERSTAND THAT THE WORK CAN
6 BEGIN AT AN EARLIER DATE?

7 DR. TROUNSON: YOU CAN BEGIN WORK UP TO 90
8 DAYS, AS BOB SAID, PRIOR TO THE ISSUE OF THE
9 CONTRACT FOR DOING THE WORK PROVIDING YOU ACCEPT
10 THAT IF SOMETHING GOES WRONG, THAT WE WOULDN'T BE
11 CHARGED. SO THE INTENT IS TO ENABLE THE PROJECTS TO
12 GO FORWARD THREE MONTHS, AT LEAST THREE MONTHS PRIOR
13 TO THE ACTUAL ISSUE OF THE AWARD.

14 I THINK WHAT JEFF IS LOOKING AT HERE IS
15 THE PRESENTATION FROM JOHN ROBSON, WHICH IS
16 LOOKING -- WE'VE BEEN USING A WHOLE LOT OF DIFFERENT
17 DATA TO WORK OUR WAY THROUGH THE FINANCIAL
18 PROJECTIONS. SO I THINK THE INFORMATION ON THE
19 ACTUAL RELEASE OF ALL THE RFA'S IS REALLY VERY MUCH
20 IN PAT OLSON'S PORTFOLIO, SO THERE ARE SLIGHT
21 DIFFERENCES IN THAT REGARD.

22 CHAIRMAN KLEIN: THANK YOU. SO WE'LL LOOK
23 FORWARD FOR JUST AN OVERALL TIME PATTERN REVIEW OF
24 THIS SCHEDULE FOR THE NEXT MEETING.

25 MR. SHEEHY: IT WOULD BE HELPFUL IF WE HAD

BARRISTERS' REPORTING SERVICE

1 A SCHEDULE AND THEN SOME SENSE STRATEGICALLY. I
2 KNOW WE'RE GOING TO LOOK AT THE PORTFOLIO, THE
3 DEVELOPMENTAL PIPELINE PORTFOLIO, BUT I'D LIKE TO
4 HAVE SOME SENSE OF WHERE WE'RE GOING, HOW IT'S
5 ROLLING OUT. I THINK THE BOARD --

6 CHAIRMAN KLEIN: SO THERE HAVE BEEN SOME
7 REAL-TIME ADJUSTMENTS OF STAFF BASED ON OTHER
8 CONSTRAINTS.

9 DR. STEWARD, DID YOU HAVE A COMMENT?

10 DR. STEWARD: QUESTION WHENEVER.

11 DR. TROUNSON: JUST TO FINISH OFF THAT, IF
12 YOU COULD HOLD IT, OS. I THINK THERE'S A DISCUSSION
13 THAT WE NEEDED TO HAVE EITHER WITH THE SCIENCE
14 SUBCOMMITTEE OR WITH THE BOARD OR WITH THE EXECUTIVE
15 WHICH WE HAVEN'T HAD, WHICH RELOOKS AT HOW WE DO THE
16 DISEASE TEAMS. SO WE'VE HAD INDEPENDENT
17 CONVERSATIONS WHICH WE REALLY NEED TO FIGURE OUT, SO
18 THEY MIGHT MAKE SOME CHANGES. PAT OLSON WAS GOING
19 TO GET YOU THAT INFORMATION IF YOU RECALL A
20 CONVERSATION WE JUST HAD A FEW DAYS AGO.

21 CHAIRMAN KLEIN: ABSOLUTELY. I BELIEVE
22 THERE'S A SCIENTIFIC COMMITTEE MEETING BEFORE THE
23 NEXT BOARD MEETING SO THAT THESE COULD BE INTEGRATED
24 IN TERMS OF A FLOW OF INFORMATION.

25 DR. TROUNSON: THE OTHER THING IS THAT WE

BARRISTERS' REPORTING SERVICE

1 ARE STRUGGLING FOR STAFF AT THE MOMENT. SO THAT IS
2 ANOTHER REAL EFFECT OF US AT THE MOMENT OF BEING
3 ABLE TO DELIVER THE PROGRAM APPROPRIATELY. SO THAT
4 IS REALLY -- WE REALLY ARE STRUGGLING, SO I WANT YOU
5 TO RECOGNIZE HOW HARD THEY'RE WORKING TO DELIVER THE
6 CURRENT THING. SO WE MAKE ADJUSTMENTS TO ENABLE US
7 TO DO IT PROPERLY.

8 CHAIRMAN KLEIN: ALL RIGHT. THANK YOU,
9 DR. TROUNSON. VERY GOOD PRESENTATION. THANK YOU.
10 ADDITIONAL QUESTIONS?

11 DR. STEWARD: SO THE AREAS THAT YOU DEFINE
12 HERE, ARE THEY MEANT TO DEFINE THE SCOPE OF THE
13 AWARDS, OR ARE THEY MEANT TO BE EXAMPLES? AND I'M
14 ASKING REALLY HOW MUCH FLEXIBILITY WILL THERE BE IF
15 SOMETHING COMES IN THAT'S BASIC BIOLOGY, BUT DOESN'T
16 QUITE FIT INTO ONE OF THESE LITTLE NOOKS.

17 DR. SHEPHERD: THOSE ARE THE AREAS OF
18 PRIORITY THAT WE TARGETED. IF THERE'S AN
19 EXCEPTIONALLY GROUNDBREAKING CASE, WE'RE TRYING TO
20 LEAVE A WINDOW OF SOMETHING THAT WE FEEL IS
21 PERTINENT. IT HAS TO BE MECHANISTIC AND IT HAS TO
22 BE RELATED TO STEM CELL BIOLOGY, HUMAN STEM CELL
23 BIOLOGY, AND WE DON'T WANT TO CLOSE THE DOOR ON
24 SOMETHING THAT WE MIGHT NOT BE EXPECTING. IN
25 GENERAL, WE WANT TO SEE APPLICATIONS FOCUSED IN

BARRISTERS' REPORTING SERVICE

1 THOSE AREAS WHICH HAVE BEEN IDENTIFIED BY CIRM STAFF
2 AND TALKING TO EXPERTS IN THE FIELD OF WHAT DO WE
3 THINK ARE THE AREAS THAT COULD HAVE THE MOST
4 IMMEDIATE NEAR TERM IMPACT, HIGH PRIORITY IMPACT IN
5 THE AREAS THAT WE FEEL ARE IMPORTANT FOR ADVANCING
6 CIRM'S MISSION.

7 DR. STEWARD: THAT'S GREAT. I JUST WOULD
8 ENCOURAGE SOME LANGUAGE TO THAT EFFECT IN THE RFA SO
9 THAT RESEARCHERS ARE CLEAR THAT THEY CAN COME IN
10 WITH THINGS THAT ARE A BIT OUT OF THE BOX. AND ALSO
11 BECAUSE THIS ONE IS GOING TO BE ANOTHER TRIAGE
12 APPROACH, THAT THERE'S A VERY CLEAR EFFORT BY THE
13 TRIAGERS TO RECOGNIZE THOSE OUT-OF-THE-BOX PROPOSALS
14 AND NOT LIMIT THEM ON THE BASIS OF THESE DEFINITIONS
15 THAT ARE CONSIDERED FOR WHATEVER REASON A PRIORI TO
16 BE HIGH PRIORITY. SO THOSE TWO THINGS GOING
17 FORWARD.

18 DR. TROUNSON: OS, I'M VERY DETERMINED TO
19 MAKE SURE WE DON'T MISS SOME OF THOSE REALLY
20 IMPORTANT THINGS, WHETHER THEY COME FROM AXOTALS OR
21 DROSOPHILA OR WHERE, BECAUSE I THINK THE FIELD IS
22 SUCH A HIGH ROTATION OF NEW BLOCKBUSTER
23 DEVELOPMENTS, WE HAVE TO KEEP OUR EYE ON THAT. SO
24 ABSOLUTELY. I'VE INSTRUCTED THE SCIENCE OFFICE TO
25 ENSURE IN THE LANGUAGE THAT THAT IS APPROPRIATELY

BARRISTERS' REPORTING SERVICE

1 ENCOURAGED, NO. 1. AND IF WE FIND IT, NURTURE IT AS
2 BEST WE CAN THROUGH THE PROCESS BECAUSE IT'S OFTEN
3 THOSE THINGS, THOSE THAT WILL CHANGE THE WHOLE
4 FIELD, OF COURSE. SO I WANT PEOPLE TO FEEL THAT
5 THEY CAN COME TO US IN THE BASIC BIOLOGY WITH SOME
6 REAL OUT-OF-THE-BOX STUFF. AND I HOPE THAT'S THE
7 FLAVOR OF WHAT WE DO, THAT WE DO ENCOURAGE THAT.

8 ON THE OTHER HAND, WE HAVE A HARD RUN TO
9 DELIVER ON OUR MISSION. AND LOT OF THAT HAS TO DO
10 WITH HUMAN EMBRYONIC STEM CELLS, SO WE UNDERSTAND WE
11 ARE THE KEY -- STILL THE KEY FUNDER IN THAT AREA.
12 SO WE'RE TRYING TO MAKE SURE THAT IF YOU CAN GO TO
13 THE HUMAN WITH YOUR HYPOTHESIS AND YOUR GRANT, WILL
14 YOU THINK ABOUT IT FIRST UP?

15 CHAIRMAN KLEIN: ADDITIONAL BOARD
16 QUESTIONS OR COMMENTS?

17 MS. SAMUELSON: I'VE GOT A QUESTION. IN
18 THAT SAME VEIN, I'M WONDERING ABOUT THE PRIORITY
19 ATTENTION GIVEN TO USING HUMAN CELLS. IN THIRD
20 PARAGRAPH OF THE CONCEPT PROPOSAL, IT TALKS ABOUT
21 DOING THAT. EXCEPT FOR GROUNDBREAKING AND HIGHLY
22 INNOVATIVE STUDIES, IF THOSE ARE THE ONES THAT WOULD
23 BE MORE LIKELY TO NEED TO START WITH AN ANIMAL
24 MODEL, LET'S SAY, DOESN'T THIS RISK DISCOURAGING
25 THOSE APPLICANTS FROM DESIGNING THE PROPOSAL IN THE

BARRISTERS' REPORTING SERVICE

1 MOST SUCCESSFUL WAY FROM THE STANDPOINT OF THEIR
2 OBJECTIVE AS OPPOSED TO THE OBJECTIVE TO USE HUMAN
3 CELLS?

4 DR. SHEPHERD: THE PREVIOUS ITERATIONS
5 HAVE OF BASIC BIOLOGY I AND II WERE LIMITED TO HUMAN
6 STEM CELLS EXCEPT IN GROUNDBREAKING CASES, AND THAT
7 DID NOT DISCOURAGE PEOPLE FROM APPLYING WITH OTHER
8 IDEAS. THE REASON WE WANT TO GIVE A HIGH PRIORITY
9 TO THE HUMAN STUDIES IS BECAUSE THE HUMAN EMBRYONIC
10 CELLS AND PLURIPOTENT STEM CELLS IN GENERAL ARE MUCH
11 MORE DIFFICULT TO WORK WITH, AND PEOPLE OFTEN GO TO
12 AN ANIMAL MODEL BECAUSE THEY'RE FASTER, THEY CAN USE
13 GENETIC MODELS, THEY'RE EASIER TO WORK WITH, AND
14 CERTAINLY THERE'S A LOT OF FUNDING AVAILABLE TO
15 PURSUE THOSE THROUGH OTHER AGENCIES. WE FEEL LIKE
16 WE NEED TO GIVE A LITTLE BIT OF A COMPETITIVE EDGE
17 TO THOSE WHO ARE WILLING TO DO THE HARD WORK THAT
18 MIGHT NOT HAVE THE NEARER TERM PAYOFF OF A
19 PUBLICATION, BUT SOMETHING THAT CAN DO SOMETHING
20 IMPORTANT AND SIGNIFICANT THAT COULD ADVANCE HUMAN
21 EMBRYONIC STEM CELL BIOLOGY.

22 AND A TRULY GROUNDBREAKING DISCOVERY IN
23 ANOTHER ORGANISM WHERE THAT ORGANISM MIGHT BE
24 NECESSARY TO MAKE THAT DISCOVERY CAN CERTAINLY BE
25 VERY IMPORTANT AND INFORM STUDIES; BUT TO BE

BARRISTERS' REPORTING SERVICE

1 RELEVANT TO HUMAN BIOLOGY, IT'S STILL GOING TO HAVE
2 TO TRANSLATE BACK INTO THE PIPELINE OF THE HUMAN
3 TRACK TO MOVE TO THE CLINIC.

4 SO WE WANT TO RECOGNIZE THOSE CASES WHERE
5 SOMETHING TRULY EXCEPTIONAL MIGHT BE DISCOVERED
6 WHERE YOU WOULDN'T BE ABLE TO DISCOVER THAT USING A
7 HUMAN. FOR EXAMPLE, WHEN MELTON DISCOVERED THE
8 TRANSDIFFERENTIATION OF THE CELLS IN THE IN VIVO
9 MOUSE MODEL. SO WE WOULDN'T WANT TO RULE OUT AN
10 IMPORTANT DISCOVERY LIKE THAT; HOWEVER, WE FEEL THAT
11 WE DO HAVE TO GIVE A SPACE WHERE THE PEOPLE WHO ARE
12 WILLING TO PUT IN THE EFFORT AND DO THE HIGH IMPACT
13 RESEARCH IN THE HUMAN SYSTEM, WHICH MAY BE MORE
14 DIFFICULT, HAVE A PLACE WHERE THEY CAN COME AND GET
15 THEIR FUNDING LOOKED AT SERIOUSLY.

16 AND WE ARE ALREADY BROADENING THE SCOPE
17 JUST A TOUCH. THE PREVIOUS ROUNDS OF BASIC BIOLOGY
18 WERE PRETTY MUCH LIMITED TO STUDIES IN STEM CELL
19 BIOLOGY LOOKING AT THOSE MECHANISMS OF NORMAL STEM
20 CELLS AND HOW THEY BEHAVE. WHEREAS, THIS TIME WE
21 ARE OPENING THE DOOR A BIT TO ALLOW STUDY OF DISEASE
22 MECHANISMS, NOT DISEASE THERAPIES, BUT DISEASE
23 MECHANISMS WHERE THE STEM CELLS ARE THE KEY TO BEING
24 ABLE TO STUDY THEM. SO IN A WAY THAT'S USING THE
25 HUMAN STEM CELL AS A TOOL, BUT ONLY IN AS SUCH AS IT

BARRISTERS' REPORTING SERVICE

1 COULD BE USED TO STUDY THE MOLECULAR BASIS OF
2 DISEASE IN AN IN VITRO MODEL.

3 SO WITH THE HUGE RESPONSE WE HAD TO THE
4 FIRST ITERATION OF BASIC BIOLOGY, WE DO THINK THAT
5 WE'RE GOING TO GET AN EXCEPTIONAL RESPONSE TO THIS
6 ONE, AND WE'RE A LITTLE BIT CONCERNED THAT
7 SCIENTISTS WHO HAVE EXCITING PROJECTS IN OTHER
8 ORGANISMS WILL CONSIDER THEIR WORK GROUNDBREAKING.
9 AND BECAUSE THEY CAN DO THEM QUICKLY AND MORE EASILY
10 IN A MOUSE, FOR EXAMPLE, THEY MIGHT FEEL WELCOME TO
11 APPLY FOR THIS AWARD, AND WE'RE GOING TO HAVE A HUGE
12 RESPONSE. AND WE WANT TO BE ABLE TO HAVE A WAY TO
13 SEPARATE THE ONES THAT ARE TRULY SIGNIFICANT AND
14 PERTINENT TO ADVANCING HUMAN STEM CELL BIOLOGY FROM
15 THOSE. SO WE WANT TO BE ABLE TO HAVE REVIEWERS MAKE
16 A JUDGMENT ON WHAT MIGHT BE THE GROUNDBREAKING
17 CASES, BUT WE DO WANT TO HAVE A PRIORITY SO THAT
18 THOSE HUMAN STEM CELL BIOLOGIES DON'T GET LOST
19 BECAUSE THOSE PROJECTS MIGHT BE MORE DIFFICULT TO
20 PURSUE THAN SOMETHING THAT COULD BE DONE IN ANOTHER
21 MODEL.

22 CHAIRMAN KLEIN: SO I THOUGHT THAT WAS A
23 REALLY EXCELLENT SUMMARY, DR. SHEPHERD. AND I WOULD
24 HOPE WE COULD ACCELERATE THE TRANSCRIPT OF WHAT
25 SHE'S PRESENTED AND ACTUALLY POST THAT BECAUSE I

BARRISTERS' REPORTING SERVICE

1 THINK IT PROVIDES VERY GOOD INSIGHT TO THE
2 RESEARCHERS OF THIS WHOLE FOCUS AND THE
3 JUSTIFICATION FOR THIS FOCUS. SO THANK YOU.

4 ADDITIONAL POINTS? PUBLIC COMMENT?
5 HEARING NONE, I'D LIKE TO -- IS THERE A MOTION?

6 MR. SHEEHY: I THOUGHT THAT'S WHAT WE WERE
7 MISSING. I WAS GOING TO MOTION TO APPROVE THE
8 CONCEPT.

9 DR. PRIETO: I'LL SECOND.

10 CHAIRMAN KLEIN: I'D LIKE TO CALL THE
11 QUESTION. ALL IN FAVOR?

12 (CHORUS OF AYES.)

13 CHAIRMAN KLEIN: OPPOSED?

14 (NO RESPONSE.)

15 CHAIRMAN KLEIN: THANK YOU VERY MUCH,
16 DR. SHEPHERD.

17 DR. SHEPHERD: YOU'RE WELCOME. THANK YOU.

18 MS. KING: FOR THE RECORD, DR. FRIEDMAN'S
19 VOTE ON THE PHONE WAS AYE.

20 CHAIRMAN KLEIN: ITEM 14, DR. TROUNSON, WE
21 HAVE A TECHNICAL AMENDMENT WE NEEDED TO GET
22 APPROVED, ITEM 14. I THINK DR. ROBSON IS THE
23 PRESENTER.

24 DR. TROUNSON: DR. ROBSON WHO WILL DO
25 THAT.

BARRISTERS' REPORTING SERVICE

1 DR. ROBSON: THANK YOU, CHAIRMAN KLEIN.
2 I'M HERE TO REQUEST WHAT IS REALLY A MINOR
3 ADJUSTMENT TO THE COMPENSATION PROGRAM THAT WAS FOR
4 CIRM STAFF THAT WAS LAST ADJUSTED BY YOU IN 2008.
5 YOU HAVE A DOCUMENT IN YOUR BINDER ABOUT THIS, BUT
6 THIS SLIDE ILLUSTRATES WHAT WE'RE TRYING TO DO.
7 WE'RE JUST TRYING TO BRING INTO ALIGNMENT THE COST
8 OF LIVING INDEX THAT'S USED FOR THESE TWO ITEMS.

9 ONE IS THE COST OF LIVING ADJUSTMENT FOR
10 STAFF, WHICH IS CURRENTLY IN THE POLICY BASED ON THE
11 CONSUMER PRICE INDEX FOR THE SAN FRANCISCO AREA, FOR
12 THE BAY AREA, WHERE MOST EVERYONE LIVES WHO WORKS ON
13 THE STAFF.

14 THERE'S ALSO ON THE NEXT PAGE A SECTION
15 THAT DEALS WITH ADJUSTMENT OF THE SALARY RANGES, AND
16 THAT'S BASED ON THE CONSUMER PRICE INDEX FOR THE
17 ENTIRE STATE. ALL WE'RE ASKING IS THAT WE JUST
18 BRING THAT IN ALIGNMENT AND MAKE THAT THE CONSUMER
19 PRICE INDEX FOR THE BAY AREA BECAUSE, AGAIN, THESE
20 SALARY CATEGORIES ARE FOR THE STAFF WHO LIVE IN THE
21 BAY AREA.

22 I WANT TO REMIND YOU THAT IF THIS IS
23 APPROVED, THIS ADJUSTMENT AND THE CURRENT POLICY,
24 THERE'S NO AUTOMATIC COST OF LIVING INCREASE THAT
25 GOES ALONG WITH EITHER OF THESE. THAT'S A DECISION

BARRISTERS' REPORTING SERVICE

1 THAT'S MADE BY THE PRESIDENT. SO WE'RE JUST ASKING
2 FOR THIS ONE CHANGE IN THIS ONE PHRASE.

3 MR. ROTH: ANY COMMENTS FROM THE BOARD?
4 QUESTIONS?

5 MR. SHEEHY: WHAT IS THE PRACTICE AT OTHER
6 STATE AGENCIES IN TERMS OF SETTING? DO THEY USE THE
7 LOCAL AREA TO SET THEIR -- I KNOW AS A UC EMPLOYEE,
8 THIS IS NOT -- OUR SALARY RANGES ARE SET, I BELIEVE,
9 STATEWIDE, NOT BASED -- THE RANGES ARE THE SAME AT
10 UC DAVIS AS THEY ARE AT UCSF. SO I WOULD JUST LIKE
11 US TO BE CONSISTENT WITH STATE PRACTICE. I WOULD
12 NOT LIKE US TO BE THE ONLY AGENCY.

13 DR. ROBSON: I THINK IAN SWEEDLER CAN
14 SPEAK TO THAT.

15 MR. SWEEDLER: MOST STATE AGENCIES ARE
16 CIVIL SERVICE, AND ALL OF THAT'S DONE BY NEGOTIATION
17 WITH THE UNION. SO THERE AREN'T AUTOMATIC CPI-BASED
18 SALARY INCREASES OR CHANGES TO WAGES. IT'S ALL DONE
19 THROUGH COLLECTIVE BARGAINING AND CHANGING. SO
20 THEY'LL HAVE A CONTRACT THAT SAYS THERE WILL BE
21 THESE ADJUSTMENTS OVER THE NEXT SEVERAL YEARS, AND
22 IT'S DIFFERENT FOR EVERY UNION.

23 MR. SHEEHY: BUT NONEXEMPT EMPLOYEES GET
24 THEIR RANGES ADJUSTED. I'M NOT THE ONLY UC PERSON
25 HERE. THAT'S THE ONLY BENCHMARK I HAVE. BUT

BARRISTERS' REPORTING SERVICE

1 PROFESSIONAL STAFF GETS THEIR RANGES ADJUSTED. I
2 DON'T KNOW IF IT WOULD BE USEFUL TO READ IN THE
3 *SACRAMENTO BEE* THAT WE'RE DOING SOMETHING THAT IS
4 RADICALLY DIFFERENT FROM THE PRACTICE OF EVERY OTHER
5 STATE AGENCY. WE'RE NOT UNIONIZED, SO THERE MUST
6 BE -- I JUST WANT US TO BE CONSISTENT WITH EVERYBODY
7 ELSE IN THE STATE IS ALL I'M ASKING.

8 MR. SWEEDLER: IT MIGHT HELP TO HAVE A
9 LITTLE BACKGROUND ABOUT WHAT WAS PROBABLY JUST A
10 DRAFTING ERROR. THERE'S ONE REFERENCE IN THERE.
11 FOR SALARIES, IT REFERS TO USING THE LOCAL CPI. FOR
12 BOARD MEMBERS, FOR THE PER DIEM, BOARD MEMBERS COME
13 FROM ALL OVER THE STATE, IT USES THE STATEWIDE CPI.
14 WHEN THE PROVISION WAS PUT IN ABOUT ADJUSTING THE
15 RANGES, IT INCORPORATED THE BOARD PROVISION BY
16 REFERENCE. AND IT WAS ONLY RECENTLY RECOGNIZED THAT
17 THOSE AREN'T THE SAME. AND SO WE HAVE AN
18 INCONSISTENCY. THIS IS CORRECTING AN INCONSISTENCY
19 IN HOW WE'RE HANDLING THESE THINGS FOR THE STAFF.

20 I DON'T THINK THAT THERE WAS AN INTENTION
21 TO HAVE PART OF STAFF ADJUSTMENTS BASED ON BAY AREA
22 AND PART OF IT BASED ON STATEWIDE.

23 NOW, IN THE AGENCIES THAT I'M FAMILIAR
24 WITH, I USED TO BE AT THE DEPARTMENT OF JUSTICE,
25 THEY HAD -- WHAT THEY HAD WAS, FOR EXAMPLE, FOR THE

BARRISTERS' REPORTING SERVICE

1 LEGAL -- THE CLERICAL SPECIALIZATIONS, THEY HAD A
2 DIFFERENTIAL FOR THE HIGHER COST OF LIVING AREAS.
3 SO THERE WAS A CERTAIN FIXED INCREMENT THAT PEOPLE
4 GOT IF THEY WERE WORKING IN BAY AREA COUNTIES AS
5 OPPOSED TO SACRAMENTO. SO THAT'S ONE WAY THAT THEY
6 DEALT WITH THINGS LIKE THAT.

7 CIRM IS UNUSUAL IN BEING SUCH A SMALL
8 AGENCY, THAT ITS EMPLOYEES ARE ALL IN ONE REGION.

9 MR. SHEEHY: I APPRECIATE THAT. I JUST
10 DIDN'T WANT US TO BE THE OUTLIER. I WAS JUST
11 LOOKING FOR SOME PRECEDENT. THE EXAMPLE YOU
12 CITED -- I LIVE IN THE BAY AREA. I KNOW THAT THAT
13 CAN BE PROHIBITIVE. AND SO I'M NOT -- BUT JUST IN
14 TERMS OF OUR PUBLIC IMAGE, I WANT TO MAKE SURE THAT
15 WE'RE NOT DOING SOMETHING THAT SOMEONE WILL SAY IS
16 UNIQUE AND FURTHER --

17 MR. SWEEDLER: JUST TO ADD TO THAT, THIS
18 IS ABOUT THE CHANGE IN COST OF LIVING. SO EVEN
19 THOUGH THE COST OF LIVING IS HIGHER IN THE BAY AREA,
20 WE LOOKED AT SOME RECENT YEARS THAT THE CHANGE IS
21 NOT NECESSARILY GREATER IN ANY GIVEN YEAR IN THE BAY
22 AREA. IN FACT, IN SOME RECENT YEARS, IT'S ACTUALLY
23 BEEN LESS THAN STATEWIDE.

24 CHAIRMAN KLEIN: THANK YOU VERY MUCH.
25 JOAN SAMUELSON.

BARRISTERS' REPORTING SERVICE

1 MS. SAMUELSON: ON THAT SAME NOTE, JUST A
2 QUESTION. THE REFERENCES TO SALARY LEVELS 1 AND 6
3 AND 9, COULD YOU GIVE EXAMPLES OF JUST WHAT THOSE
4 THREE SALARY LEVELS ARE?

5 DR. ROBSON: EXAMPLES.

6 MS. SAMUELSON: THOSE ARE THE THREE SALARY
7 LEVELS THAT ARE MENTIONED.

8 DR. ROBSON: OKAY. SO SALARY LEVEL 6, THE
9 RANGE IS -- WELL, THERE'S SUBCATEGORIES OF IT, BUT
10 IT'S ESSENTIALLY 102,000 TO ABOUT 165,000 FOR 6. SO
11 A SCIENCE OFFICER, FOR EXAMPLE, IT WOULD BE 110 TO
12 165.

13 CATEGORY 1, ADMINISTRATIVE COORDINATOR,
14 THAT'S 41 TO 61,700. WHAT WAS THE OTHER ONE YOU
15 ASKED FOR, 3?

16 MS. SAMUELSON: NINE.

17 DR. ROBSON: NINE. CATEGORY 9 IS -- WELL,
18 HERE WE HAVE CHIEF SCIENTIFIC OFFICER, VICE
19 PRESIDENT OPERATIONS, 180 TO 332.

20 MS. SAMUELSON: 180 TO WHAT?

21 DR. ROBSON: 332.

22 MS. SAMUELSON: THANK YOU.

23 CHAIRMAN KLEIN: THANK YOU. ADDITIONAL
24 QUESTIONS FROM THE BOARD?

25 MR. SERRANO-SEWELL: CAN YOU JUST

BARRISTERS' REPORTING SERVICE

1 BASICALLY REAL QUICK, THE PERFORMANCE AWARD AND THE
2 SPOT AWARD, CAN YOU TALK TO ME ABOUT THOSE? I'M
3 LOOKING AT IT RIGHT HERE, PERFORMANCE AWARDS.

4 DR. ROBSON: PERFORMANCE AWARDS, THAT'S A
5 CATEGORY FOR PEOPLE IN SALARY RANGES 1 THROUGH 6.
6 AND THESE ARE SMALL AWARDS THAT ARE MADE ANNUALLY
7 BASED ON PEOPLE'S OUTSTANDING PERFORMANCE.

8 MR. SERRANO-SEWELL: HOW MANY SPOT AWARDS
9 DID THE OFFICE OF THE PRESIDENT ADMINISTER LAST
10 YEAR?

11 DR. ROBSON: I'M NOT AWARE THAT WE'VE
12 GIVEN ANY SPOT AWARDS SINCE I'VE BEEN HERE.

13 MR. SERRANO-SEWELL: OKAY.

14 CHAIRMAN KLEIN: THANK YOU. ADDITIONAL
15 QUESTIONS? IS THERE A MOTION FOR APPROVAL?

16 DR. PULIAFITO: SO MOVED.

17 DR. BLOOM: SECOND.

18 CHAIRMAN KLEIN: DR. PULIAFITO AND SECOND
19 BY DR. BLOOM. ADDITIONAL DISCUSSION? SEEING NONE,
20 IS THERE PUBLIC DISCUSSION? SEEING NONE, CALL THE
21 QUESTION. ALL IN FAVOR?

22 (CHORUS OF AYES.)

23 CHAIRMAN KLEIN: OPPOSED?

24 (NO RESPONSE.)

25 CHAIRMAN KLEIN: THANK YOU VERY MUCH.

BARRISTERS' REPORTING SERVICE

1 MS. KING: DR. FRIEDMAN'S VOTE ON THE
2 PHONE WAS AYE. DR. HAWGOOD HAS ARRIVED.

3 CHAIRMAN KLEIN: DR. HAWGOOD.

4 (APPLAUSE.)

5 CHAIRMAN KLEIN: SO, DR. HAWGOOD, THE
6 REASON FOR THE CELEBRATION IS THAT UNDER THE
7 TECHNICAL RULES FOR GRANTS THAT WE JUST VOTED ON, WE
8 HAD TO LEAVE A NUMBER OF ITEMS OPEN FOR YOUR VOTE,
9 NOT BECAUSE THE VOTE WOULD BE DETERMINATIVE BECAUSE
10 NONE OF THESE VOTES THAT PASSED WERE VERY CLOSE, BUT
11 BECAUSE WE TECHNICALLY DID NOT HAVE A QUORUM ON
12 THESE ITEMS WITHOUT YOU PRESENT BECAUSE OF RECUSALS
13 FOR CONFLICTS. THERE'S ONLY THREE ITEMS. OKAY. IS
14 MR. HARRISON GOING TO ADDRESS THOSE ITEMS?

15 MR. HARRISON: YES. THE FIRST MOTION IS
16 TO MOVE APPLICATION 1743 INTO TIER I. THESE ARE, OF
17 COURSE, THE STEM CELL TRANSPLANTATION IMMUNOLOGY
18 AWARDS.

19 CHAIRMAN KLEIN: MR. HARRISON, I THINK
20 EVEN THOUGH DR. HAWGOOD HAS THE BINDERS AND THE
21 PRESENTATIONS ON THE AWARDS, COULD YOU LET DR.
22 HAWGOOD KNOW THE VOTE THUS FAR AND THE TITLE OF THE
23 ITEM? WHICH ITEM WAS IT?

24 MR. HARRISON: 1743. THUS FAR THERE
25 ARE --

BARRISTERS' REPORTING SERVICE

1 CHAIRMAN KLEIN: THIS IS INDUCTION OF
2 IMMUNE TOLERANCE TO HUMAN EMBRYONIC STEM
3 CELL-DERIVED ALLOGRAFTS.

4 MS. KING: DR. HAWGOOD, ALSO YOU CAN LOOK
5 AT THE SCREEN AND YOU CAN SEE NEXT TO THE
6 APPLICATION NUMBER VARIOUS DATA POINTS THAT MAY BE
7 OF INTEREST TO YOU AS WELL.

8 CHAIRMAN KLEIN: I THINK IT'S IMPORTANT TO
9 NOTE THAT THERE WAS A SIGNIFICANT STANDARD
10 DEVIATION. IT WAS NOTED THAT THERE WAS A SPLIT IN
11 THE VOTE ON THIS ITEM.

12 DR. REED: I HAD A QUESTION. IN TERMS OF
13 MR. HAWGOOD'S POTENTIAL RESPONSES, IS ABSTAIN AN
14 OPTION, AND THAT WOULD STILL PERMIT OUR QUORUM? I
15 THOUGHT SO. I JUST WANTED TO NOTE THAT FOR THE
16 RECORD.

17 CHAIRMAN KLEIN: IF THERE'S A QUESTION FOR
18 YOU, AMONG THE MATERIALS YOU'VE ALREADY LOOKED AT,
19 IF THERE'S A QUESTION IN YOUR MIND, YOU COULD
20 CERTAINLY ABSTAIN AND STILL SUSTAIN THE VOTE, THE
21 QUORUM IN THE VOTE. SO DO YOU HAVE A POSITION?
22 WHAT IS THE VOTE ON THAT ITEM?

23 MR. HARRISON: FIFTEEN YES VOTES, ONE
24 ABSTENTION THUS FAR.

25 CHAIRMAN KLEIN: DR. HAWGOOD, THIS IS ITEM

BARRISTERS' REPORTING SERVICE

1 1743. IT WAS THE FIRST ONE BELOW THE FUNDING LINE.
2 DO YOU HAVE A POSITION ON THAT ITEM?

3 DR. HAWGOOD: GIVEN THAT I MISSED THE
4 DISCUSSION, I THINK I WILL ABSTAIN.

5 CHAIRMAN KLEIN: WHAT IS THE NEXT ITEM?

6 MR. HARRISON: FOR THE RECORD, THAT MOTION
7 CARRIES.

8 MS. KING: THE NEXT ONE WILL BE 1717.

9 CHAIRMAN KLEIN: 1717 IS THE SECOND ITEM
10 BELOW THE FUNDING LINE. IT IS THYMUS-BASED
11 TOLERANCE TO STEM CELL THERAPIES. AND WHAT WAS THE
12 PRIOR VOTE ON THAT ITEM?

13 MR. HARRISON: FOURTEEN YES VOTES.

14 CHAIRMAN KLEIN: DR. HAWGOOD.

15 DR. HAWGOOD: ABSTAIN.

16 CHAIRMAN KLEIN: WHAT IS THE THIRD ITEM?

17 MR. HARRISON: FOR THE RECORD THAT MOTION
18 CARRIES.

19 THE THIRD ITEM IS AN OMNIBUS MOTION TO
20 APPROVE ALL OF THE APPLICATIONS IN TIER I INCLUDING
21 SEVERAL THAT WERE MOVED INTO TIER I AND NOT TO FUND
22 APPLICATIONS -- THE REMAINING APPLICATIONS. SO THE
23 APPLICATIONS THAT WERE MOVED INTO TIER I INCLUDE THE
24 TWO THAT WERE JUST IDENTIFIED, 1743, 1717, 1710,
25 1733, AND THAT'S IT. AND THIS IS A MOTION FOR WHICH

BARRISTERS' REPORTING SERVICE

1 YOU SHOULD VOTE YES, NO, OR AN ABSTENTION EXCEPT
2 WITH RESPECT TO THOSE APPLICATIONS FOR WHICH YOU
3 HAVE A CONFLICT.

4 DR. HAWGOOD: APPROVE EXCEPT FOR THOSE
5 APPLICATIONS FOR WHICH I HAVE A CONFLICT.

6 CHAIRMAN KLEIN: ALL RIGHT. THANK YOU
7 VERY MUCH.

8 MS. KING: THAT MOTION CARRIES.

9 CHAIRMAN KLEIN: THAT MOTION CARRIES.

10 AND I'D LIKE TO TAKE A MOMENT HERE TO
11 THANK THE STAFF FOR THEIR TREMENDOUS INVESTMENT OF
12 TIME AND ENERGY IN A UNIQUE ROUND. THERE'S
13 EXTRAORDINARY EFFORT THAT WAS PUT INTO THIS. IT
14 BROUGHT, AS JEFF SAID, FOR THE FIRST TIME WE'RE
15 AWARE REALLY IMMUNOLOGISTS TOGETHER WITH STEM CELL
16 RESEARCHERS IN TEAMS. IT PROVIDES A PORTFOLIO BASE
17 FOR A CRITICAL LINK IN THE TECHNOLOGIES. WE NEED TO
18 HAVE CELLULAR THERAPIES BE ACCEPTED BY THE BODY
19 RATHER THAN REJECTED. AND I THINK WE OWE A HUGE
20 ROUND OF APPLAUSE TO THE SCIENTIFIC STAFF AND DR.
21 TROUNSON AND DR. OLSON IN LEADERSHIP.

22 (APPLAUSE.)

23 CHAIRMAN KLEIN: AND WITH THE PREROGATIVE
24 OF THE CHAIR, I'D LIKE TO TAKE THE REMAINING MINUTES
25 WE HAVE HERE TONIGHT TO RECOGNIZE A MEMBER OF THE

BARRISTERS' REPORTING SERVICE

1 BOARD WHO IS AT HIS LAST MEETING. DR. LEVEY HAS
2 BEEN WITH US FROM THE VERY BEGINNING, AND GRACIOUSLY
3 AGREED AFTER HE CHANGED HIS POSITION AS DEAN AT UCLA
4 TO REMAIN WITH THIS BOARD THROUGH THIS MEETING.

5 FROM THE BEGINNINGS OF THIS AGENCY AND THE
6 SEEDS THAT WERE SOWN THROUGH THE NATIONAL ACADEMY
7 MEETING AT IRVINE, I THOUGHT IT WAS EXTRAORDINARY TO
8 SEE THE DEAN DEEPLY INVESTED IN THIS PROCESS. HE
9 WENT TO THAT FIRST TWO-DAY PUBLIC SESSION THE
10 NATIONAL ACADEMY PUT ON AT IRVINE EVEN BEFORE THIS
11 BOARD WAS FORMED AND THEN IMMEDIATELY BECAME A PART
12 OF THE LEADERSHIP OF THIS BOARD, COMMITTING MASSIVE
13 NUMBERS OF HOURS IN THE INITIAL SEARCH COMMITTEES OF
14 THIS BOARD TO PUT TOGETHER THE PEER REVIEW
15 COMMITTEES AND THE STAFFS OF THE VARIOUS WORKING
16 GROUPS, AS WELL AS THE PRINCIPAL MEMBERS OF THOSE
17 WORKING GROUPS FROM OUTSIDE OF CALIFORNIA.

18 IT WAS AN EXTRAORDINARY EFFORT THAT DR.
19 LEVEY, IN FACT, TODAY TOLD ME AT ONE POINT WAS
20 CONSUMING 25 PERCENT OF ALL OF HIS TIME, A
21 REMARKABLE, REMARKABLE COMMITMENT IN THE FIRST YEAR
22 TO THIS GREAT VENTURE. AND THE KIND OF SEASONED
23 LEADERSHIP, KIND OF REALLY ELEGANT INSIGHTS TO
24 POTENTIAL PROBLEMS AND SOLUTIONS THAT DR. LEVEY
25 BROUGHT WITH HIM, THE VERY REASSURING SENSE OF

BARRISTERS' REPORTING SERVICE

1 BALANCE DURING TIMES OF GREAT CHALLENGE WERE REALLY
2 A REMARKABLE CONTRIBUTION TO THIS JOURNEY. AND I
3 THINK A MAJOR REASON THAT WE'VE ACHIEVED SO MUCH
4 WHILE KEEPING THE BOARD TOGETHER WITH VERY VIBRANT,
5 ROBUST DISCUSSIONS THAT WERE OFTEN PULLED TOGETHER
6 BY HIS COMMENTS INTO A DECISIVE ACTION.

7 IT IS A REMARKABLE PERIOD WHEN DR. LEVEY
8 AT UCLA SAW THE DEVELOPMENT OF TWO STEM CELL
9 BUILDINGS, NOT ONE, A GREAT EFFORT THAT HE LAUNCHED
10 ACTUALLY, I THINK, ON A BUILDING EVEN AS THE
11 PROPOSITION WAS BEING PASSED AND THEN A SECOND
12 EFFORT TO BUILD A STEM CELL BUILDING THROUGH OUR
13 COMPETITION WHILE REBUILDING A TREMENDOUS NEW
14 HOSPITAL FOR UCLA. SO THIS WAS A TIME OF TRIAL ON
15 EVERY SIDE AND A TIME OF GREAT ACHIEVEMENT FROM DR.
16 LEVEY WHERE HE UNSTINTINGLY GAVE THIS AGENCY HIS
17 PERSONAL CONTRIBUTIONS CONSTANTLY THROUGH THIS
18 PERIOD FAR BEYOND THE FIRST YEAR THROUGH THIS
19 PROCESS AND EVEN THROUGH CHAIRING THE EVALUATION
20 SUBCOMMITTEE THAT HE JUST FINISHED TODAY.

21 SO I WOULD LIKE TO OPEN THIS TO OTHER
22 BOARD COMMENTS FOR, I'M SURE, WHAT WE FEEL IS ONE OF
23 THE ABSOLUTELY CRITICAL CONTRIBUTIONS TO THE HISTORY
24 OF THIS MIRACULOUS AGENCY THAT NO ONE THOUGHT WOULD
25 EVER REALLY PASS IN THE BEGINNING, BUT HAS ACCRUED A

BARRISTERS' REPORTING SERVICE

1 TREMENDOUS RECORD DUE TO THE DEDICATION OF THE BOARD
2 AND THE STAFF. ADDITIONAL BOARD COMMENTS?

3 MR. SERRANO-SEWELL: WELL, YOU ALWAYS LOOK
4 FOR GENUINE PARTNERSHIPS AND WHEN SOMEONE IS GOING
5 TO STAND SHOULDER TO SHOULDER WITH YOU. AND GERALD
6 HAS DONE THAT. WE GOT THE LAWSUIT, WE HAD A VARIETY
7 OF CHALLENGES, AND NOT ONLY AS AN INDIVIDUAL, BUT
8 THE INSTITUTION PUT ITS NAME AND SAID YOU KNOW WHAT.
9 THIS IS THE RIGHT THING TO DO. WE'RE GOING TO MOVE
10 THE BALL FORWARD.

11 AND INTERACTING WITH HIM, HE'S ALWAYS BEEN
12 A CLASS ACT OBVIOUSLY, BUT HE'S ACTIVELY SOUGHT THE
13 OPINION OF, YOU KNOW, THE PATIENT ADVOCATES ON THE
14 BOARD. AND THAT'S ALWAYS NICE. IT'S NOT SOMETHING
15 THAT'S ASKED FOR OR EXPECTED, BUT HE'S DONE THAT.
16 AND I'LL MISS HIS ECUMENICAL APPROACH TO PROBLEM
17 SOLVING. WHOEVER SUCCEEDS HIM, THEY'LL BE BIG SHOES
18 TO FILL, BUT BE GREATLY MISSED.

19 CHAIRMAN KLEIN: ADDITIONAL COMMENTS?

20 MR. TORRES: I HAVE ALWAYS ADMIRERED JERRY
21 FROM AFAR, BUT NEVER HAD THE EXTRAORDINARY
22 OPPORTUNITY TO WORK WITH HIM IN THIS INSTITUTE AND
23 TO SHARE THE LOVE THAT SHERRY LANSING AND I HAVE FOR
24 HIM AND ALSO THE TREMENDOUS WORK THAT HE AND DR.
25 PRIETO ESPECIALLY HAD WORKED SO HARD ON THIS

BARRISTERS' REPORTING SERVICE

1 EVALUATION SUBCOMMITTEE. I JUST WANT TO SAY IT'S
2 BEEN AN HONOR TO SERVE WITH YOU, BUT EVEN MORE FUN
3 TO SIT NEXT TO YOU.

4 CHAIRMAN KLEIN: IN JUST A MINUTE. WE
5 NEED TO TAKE IN ALL THE PRAISE HERE FOR A MOMENT.

6 MR. ROTH: I WOULD LIKE TO JUST THANK DR.
7 LEVEY FOR HIS STABILITY THAT HE BROUGHT TO THE
8 BOARD. AND I THINK, JERRY, WHEN I RECALL THE
9 MEETINGS THAT WE'VE ATTENDED, YOU SAID VERY LITTLE;
10 BUT WHEN YOU DID SAY SOMETHING, WE ALL LISTENED. SO
11 WE'LL MISS THAT GREATLY. THANK YOU.

12 CHAIRMAN KLEIN: ARE THERE ADDITIONAL
13 BOARD MEMBERS THAT WOULD LIKE TO COMMENT BEFORE I
14 CALL ON DR. LEVEY? JOAN SAMUELSON AND THEN I'M
15 GOING TO CALL ON DR. PULIAFITO AND DR. TROUNSON, AND
16 MR. HARRISON WOULD LIKE TO SPEAK, YES.

17 MS. SAMUELSON: IT'S TOO BAD THAT SHERRY
18 LANSING ISN'T HERE BECAUSE I KNOW SHE WOULD HAVE A
19 LOT TO SAY. AND I HAVE TO SAY THAT IT WAS CLEAR
20 FROM THE BEGINNING THAT THERE WAS A DYNAMIC DUO
21 OPERATING IN THE L.A. AREA BEING SHERRY AND DR.
22 LEVEY. I NOTICED THAT BEFORE I REALLY GOT TO KNOW
23 YOU INITIALLY FROM AFAR AND LATER HAVING
24 CONVERSATIONS WITH YOU. AND SO I KNEW YOU MUST BE
25 SOMEONE PRETTY SPECIAL, AND I DISCOVERED THAT TO BE

BARRISTERS' REPORTING SERVICE

1 TRUE. AND I'M GRATEFUL FOR WORKING WITH YOU, AND
2 THANK YOU FOR YOUR SERVICE TO THE BOARD, THE BOARD
3 AND OUR JOINT ENTERPRISE.

4 CHAIRMAN KLEIN: THANK YOU. AND DR.
5 PULIAFITO AND THEN DR. TROUNSON.

6 DR. PULIAFITO: ON BEHALF OF USC, I WOULD
7 LIKE TO SAY THAT I AND MY PREDECESSOR ON THIS BOARD
8 ARE BOTH GRATEFUL FOR THE GREAT COLLEGIALITY OF DR.
9 LEVEY AND THE TREMENDOUS MENTORSHIP THAT HE SHOWED
10 ME AS I BECAME A MEMBER OF THE BOARD. THANK YOU
11 VERY MUCH, GERRY. WE'LL MISS YOU A LOT.

12 DR. TROUNSON: GERRY, ONE OF THE REAL
13 PLEASURES OF THIS BOARD IS TO HAVE KNOWN YOU AND TO
14 BE ABLE TO TALK TO YOU AND SEEK YOUR GUIDANCE. SO
15 FOR ME IT'S A REAL LOSS. I'LL BE SORRY THAT I CAN'T
16 DO THAT OR I MIGHT DO THAT, BUT IT WON'T BE IN A
17 FORMAL WAY. IN THE PARLANCES OF CAMBRIDGE
18 UNIVERSITY, YOU'RE A SCHOLAR AND A GENTLEMAN,
19 MILORD. AND I'VE BEEN VERY PLEASED TO KNOW YOU, AND
20 I KNOW ALL THE STAFF THINK THE SAME WAY, THAT GERRY
21 LEVEY IS A REALLY GOOD PERSON.

22 AND I THINK WHAT'S HAPPENED AT UCLA WITH
23 THE STRENGTHS OF THE STEM CELL CENTER CLEARLY IS
24 SOME OF YOUR INFLUENCE IN THAT OF APPOINTING REALLY,
25 REALLY TOP-LINE PEOPLE. AND SO WE THINK YOU'VE DONE

BARRISTERS' REPORTING SERVICE

1 A FANTASTIC JOB, GERRY.

2 MR. HARRISON: I'D JUST LIKE TO ADD FROM A
3 STAFF PERSPECTIVE FOR THOSE OF US ON THE STAFF
4 WHO'VE HAD AN OPPORTUNITY TO WORK WITH DR. LEVEY
5 CLOSELY, IT HAS JUST BEEN A REAL PLEASURE. HE'S A
6 VERY KIND AND GENEROUS PERSON. AND I KNOW I SPEAK
7 FOR ALL OF THE STAFF WHEN I SAY THANK YOU VERY MUCH
8 FOR EVERYTHING YOU'VE DONE.

9 CHAIRMAN KLEIN: AND, DR. LEVEY, YOU HAVE
10 THE FLOOR.

11 DR. LEVEY: WELL, I'LL KEEP DUANE'S
12 STANDARDS HERE FOR ME, SO I WON'T SAY MUCH. FIRST
13 OF ALL, I DO WANT TO THANK EVERYONE. THIS HAS BEEN
14 A GREAT EXPERIENCE FOR ME. BOB AND I HAVE HAD
15 SEVERAL CONVERSATIONS LATELY. IT'S BEEN AN HONOR
16 FOR ME TO SERVE ON THIS BOARD UNDER YOUR LEADERSHIP.
17 YOU'RE AN EXTRAORDINARY PERSON. THE THINGS THAT
18 HAVE HAPPENED HERE WOULDN'T HAVE HAPPENED WITHOUT
19 YOU. YOU ARE THE FOUNDER OF EVERYTHING THAT WE HOLD
20 SO DEAR NOW WITH REGARD TO STEM CELL RESEARCH, AND
21 I'M VERY GRATEFUL FOR THE OPPORTUNITY.

22 THE BOARD HAS BEEN AN AMAZING EXPERIENCE
23 FOR ME. I'VE GOTTEN TO MEET, I GUESS, ABOUT A DOZEN
24 AND A HALF, COUPLE DOZEN PEOPLE WHO I NEVER KNEW
25 BEFORE. AND IT'S JUST AMAZING THE TALENT THAT HAS

BARRISTERS' REPORTING SERVICE

1 COME THROUGH HERE. IT'S AN EXTRAORDINARY GROUP THAT
2 HAS DONE THE IMPOSSIBLE ACTUALLY AT THE WORST
3 POSSIBLE TIME FOR CALIFORNIA. A GROUP OF SEVERAL
4 DOZEN PEOPLE ACTUALLY MANAGED TO PUT TOGETHER
5 SOMETHING THAT FUNCTIONS, THAT'S STUCK WITHIN ITS
6 BUDGET, AND IS NOW AN INTERNATIONAL FORCE IN STEM
7 CELL RESEARCH. AND THE STATE SHOULD BE VERY PROUD
8 OF THAT. THE CITIZENRY SHOULD. AND I HOPE THAT
9 SOMEDAY EVERYBODY WILL GET TO RECOGNIZE WHAT WE'VE
10 DONE.

11 SO TO MY COLLEAGUES ON THIS BOARD PAST AND
12 PRESENT, THANK YOU FOR LETTING ME BE PART OF THIS
13 BECAUSE IT'S BEEN A GREAT RUN FOR ALL OF US. AND,
14 YOU KNOW, I'LL MISS EVERYONE, BUT AFTER 16 YEARS OF
15 BEING THE DEAN AND THE VICE CHANCELLOR DOWN AT UCLA
16 AND ALL THAT HAD TO GET DONE THERE AT THAT SCHOOL,
17 I'M TIRED. BUT IT'S BEEN A GREAT EXPERIENCE, AND
18 THANK YOU FOR TOLERATING ME ON THIS BOARD FOR THIS
19 PAST ALMOST SIX YEARS.

20 (STANDING OVATION.)

21 CHAIRMAN KLEIN: WITH THAT, WHAT I'D LIKE
22 TO DO IS ADJOURN THE MEETING TODAY. WE'RE GOING TO
23 HAVE A SHORT MEETING TOMORROW. WE'RE GOING TO HAVE
24 A WONDERFUL, SPECTACULAR ALS SPOTLIGHT IN THE
25 MORNING. PLEASE, THERE'S TREMENDOUS EFFORT THAT'S

BARRISTERS' REPORTING SERVICE

1 BEEN PUT INTO THIS BY THE ALS COMMUNITY AND THE
2 RESEARCH LEADERSHIP. 8:30 IN THE MORNING. DO YOU
3 KNOW WHICH ROOM WE'RE GOING TO BE IN? RIGHT HERE IN
4 THIS ROOM.

5 I ALSO WOULD INDICATE TO YOU THAT, AS I
6 WILL INDICATE TO THE PEOPLE PRESENT TOMORROW,
7 THERE'S A GREAT NPR PROGRAM ON ALS AND THE RESEARCH
8 DONE WITH DR. CLEVELAND THAT AMY CHUNG CAN GIVE YOU
9 A REFERENCE TO, INCLUDING A PATIENT WHO IS AN
10 EXTREMELY GOOD SPEAKER IN PRESENTING THE TERRIBLE
11 TOLL OF THAT DISEASE. SO GREAT SCIENTISTS TOMORROW
12 EARLY AT 8:30 FOLLOWED BY THE BUDGET, SO YOU ARE
13 GOING TO GET INSPIRED, AND THEN YOU ARE GOING TO
14 DEAL WITH THE HARD REALITIES OF BUDGETING. IT'S A
15 REWARD TO START THE DAY TO COME TO THE SESSION AT
16 8:30.

17 AND WITH THAT, I'D LIKE TO ADJOURN FOR
18 THIS EVENING. WE HAVE A DINNER WHERE?

19 MS. KING: SAME ROOM WHERE YOU HAD YOUR
20 CLOSED SESSION.

21 CHAIRMAN KLEIN: SAME ROOM WHERE WE HAD
22 LUNCH. AND FOR THOSE THAT CAME LATE, THAT'S PART OF
23 THE DINING ROOM, BUT TO THE FAR LEFT. IT'S A
24 PRIVATE ROOM ON THE FAR LEFT. STAFF AND BOARD
25 MEMBERS. STAFF AND BOARD MEMBERS.

BARRISTERS' REPORTING SERVICE

1 AND WHAT I WOULD LIKE TO DO AS WELL, WE'RE
2 GOING TO GO STRAIGHT OVER TO DINNER. AND WHAT I'D
3 LIKE TO ALSO DO IS SAY THAT THE ADMINISTRATIVE STAFF
4 PUT A LOT OF WORK INTO THIS MEETING. MR. HARRISON
5 PUT A LOT OF WORK INTO THE EVALUATION IN PARTICULAR.
6 I'M VERY GRATEFUL FOR HIS PARTICIPATION AND MELISSA
7 KING AND SCOTT TOCHER'S CONTRIBUTIONS TO THAT
8 PROCESS. AND I'D LIKE TO GET A HAND FOR THE
9 ADMINISTRATIVE STAFF OF THE AGENCY, INCLUDING THE
10 PRESIDENT'S STAFF AND MY STAFF, WHO REALLY HAVE PUT
11 A LOT OF WORK BOTH INTO THE PROGRAMS YOU'VE SEEN
12 BEFORE YOU TODAY AND THE PROGRAM TOMORROW MORNING.
13 AND BEFORE THINGS GET TOUGH, LET'S GIVE EVERYONE A
14 ROUND OF APPLAUSE.

15 (APPLAUSE.)

16 CHAIRMAN KLEIN: MELISSA.

17 MS. KING: BEFORE EVERYBODY LEAVES, WE NOW
18 HAVE OUR ILLUSTRIOUS PHOTOGRAPHER HERE. WE'D LIKE
19 TO TAKE A PHOTO WITH DR. LEVEY IN THE MIDDLE WITH
20 THE BOARD MEMBERS, PLEASE.

21 CHAIRMAN KLEIN: YOU'D LIKE US TO STAND
22 WHERE?

23 (THE MEETING WAS THEN ADJOURNED AT
24 06:19 P.M. TO RECONVENE AT 9:30 A.M. ON WEDNESDAY,
25 JUNE 23, 2010.)

BARRISTERS' REPORTING SERVICE

REPORTER'S CERTIFICATE

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

SHERATON SAN DIEGO
1380 HARBOR ISLAND DRIVE
MARINA TOWER, HARBOR ISLAND I
SAN DIEGO, CALIFORNIA
ON
TUESDAY, JUNE 22, 2010

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

BETH C. DRAIN, CSR 7152
BARRISTER'S REPORTING SERVICE
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