BEFORE THE APPLICATION REVIEW SUBCOMMITTEE OF 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: VIA ZOOM

DATE: MAY 30. 2024

9 A.M.

REPORTER: BETH C. DRAIN, CA CSR

CSR. NO. 7152

FILE NO.: 2024-25

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IT	EM DESCRIPTION	PAGE	NO
OP	EN SESSION		
1.	CALL TO ORDER	3	
2.	ROLL CALL	3	
SU	CONSIDERATION OF APPLICATIONS BMITTED IN RESPONSE TO CLINICAL TRIAL AGE PROJECTS PROGRAM ANNOUNCEMENTS (CLIN 1	4 1 OR 2	
4. SU	CONSIDERATION OF APPLICATIONS BMITTED IN RESPONSE TO TRANSLATIONAL OJECTS PROGRAM ANNOUNCEMENT (TRAN 1, 2, 3	18	
5.	CLOSED SESSION	NONE	
WO IN DA AP &	SCUSSION OF CONFIDENTIAL INTELLECTUAL PROPORT PRODUCT, PREPUBLICATION DATA, FINANCIAL FORMATION, CONFIDENTIAL SCIENTIFIC RESEARS TA, AND OTHER PROPRIETARY INFORMATION RELAPLICATIONS SUBMITTED IN RESPONSE TO AGENDAY ABOVE. (HEALTH & SAFETY CODE 125290.30(FOR AND (C)).	L CH OR ATING A ITEM	то
OP	EN SESSION		
6.	GENERAL COMMENTS ON ARS PROCESS	NONE	
7.	PUBLIC COMMENT	NONE	
8.	ADJOURNMENT	68	

1	MAY 30, 2024; 9 A.M.
2	
3	CHAIRMAN IMBASCIANI: THANK YOU VERY MUCH.
4	GOOD MORNING TO ALL MEMBERS OF THE BOARD. THIS IS
5	THE MAY 30 MEETING OF THE APPLICATION REVIEW
6	SUBCOMMITTEE OF THE BOARD, OF THE CIRM GOVERNING
7	BOARD. I WANT TO WELCOME ALL THE BOARD MEMBERS TO
8	THIS MEETING AND TO ALL THE MEMBERS OF THE PUBLIC
9	WHO ARE EITHER LISTENING IN OR WHO HAVE GRACED US
10	WITH THEIR PRESENCE HERE TODAY IN THE BOARDROOM.
11	GOOD MORNING.
12	SO WE'RE GOING TO START THE MEETING WITH A
13	CALL TO ORDER AND THE ROLL CALL.
14	MR. HUANG: DAN BERNAL. MARIA BONNEVILLE.
15	VICE CHAIR BONNEVILLE: PRESENT.
16	MR. HUANG: JUDY CHOU.
17	DR. CHOU: PRESENT.
18	MR. HUANG: LEONDRA CLARK-HARVEY.
19	ANNE-MARIE DULIEGE. YSABEL DURON.
20	MS. DURON: HERE.
21	MR. HUANG: MARK FISCHER-COLBRIE.
22	DR. FISCHER-COLBRIE: HERE.
23	MR. HUANG: FRED FISHER.
24	DR. FISHER: HERE.
25	MR. HUANG: ELENA FLOWERS.
	3

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	DETH G. DRAIN, GA GSK NO. 7 132
1	DR. FLOWERS: PRESENT.
2	MR. HUANG: DAVID HIGGINS.
3	DR. HIGGINS: PRESENT.
4	MR. HUANG: VITO IMBASCIANI.
5	CHAIRMAN IMBASCIANI: HERE.
6	MR. HUANG: STEVE JUELSGAARD.
7	MR. JUELSGAARD: PRESENT.
8	MR. HUANG: RICH LAJARA.
9	MR. LAJARA: HERE.
10	MR. HUANG: LAUREN MILLER-ROGEN. ADRIANA
11	PADILLA.
12	DR. PADILLA: HERE.
13	MR. HUANG: JOE PANETTA.
14	MR. PANETTA: HERE.
15	MR. HUANG: MARVIN SOUTHARD.
16	DR. SOUTHARD: HERE.
17	MR. HUANG: KAROL WATSON. KEVIN XU.
18	DR. XU: HERE.
19	MR. HUANG: WE HAVE QUORUM.
20	CHAIRMAN IMBASCIANI: WE HAVE A QUORUM.
21	GREAT. THANK YOU.
22	WE CAN START WHAT'S GOING TO BE A FULL
23	WE'RE GOING TO USE ALL THE TIME ALLOTTED TO US
24	TODAY. THERE ARE MANY MEMBERS OF THE PUBLIC WHO
25	HAVE STATED THEIR DESIRE TO SPEAK. I'M PROBABLY
	4

1	GOING TO HAVE TO ASK THEM TO LIMIT THEMSELVES TO TWO
2	MINUTES BECAUSE WE ABSOLUTELY HAVE TO COMPLETE OUR
3	AGENDA BY THE TIME THIS MEETING IS SCHEDULED TO END
4	AT 11 O'CLOCK THIS MORNING.
5	WE HAVE TWO SETS OF APPLICATIONS, CLINICAL
6	AND TRANSLATIONAL, AND WE'RE GOING TO START THE NEXT
7	ORDER OF BUSINESS AS CONSIDERATION OF THOSE
8	APPLICATIONS THAT HAVE BEEN SUBMITTED IN RESPONSE TO
9	THE CLINICAL TRIAL STAGE PROJECTS PROGRAM
10	ANNOUNCEMENT. THESE ARE CLIN 1 OR CLIN 2 IN THE
11	PARLANCE OF CIRM. FOR THIS I'M GOING TO CEDE THE
12	MICROPHONE TO HAYLEY LAM WHERE ARE YOU,
13	HAYLEY? TO MAKE THE PRESENTATION. THANK YOU.
14	GOOD MORNING.
15	DR. LAM: GOOD MORNING. THANK YOU, VITO.
16	ALL RIGHT. CAN EVERYONE SEE THAT?
17	CHAIRMAN IMBASCIANI: YES.
18	DR. LAM: THANK YOU. ALL RIGHT. SO I'LL
19	TAKE YOU THROUGH THE CLINICAL APPLICATIONS UP FOR
20	DISCUSSION TODAY.
21	AS ALWAYS, WE BEGIN WITH OUR MISSION,
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1	ACCELERATING WORLD-CLASS SCIENCE TO DELIVER
2	TRANSFORMATIVE REGENERATIVE MEDICINE TREATMENTS IN
3	AN EQUITABLE MANNER TO A DIVERSE CALIFORNIA AND
4	WORLD.
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1	THE CURRENT STATE OF THE CLINICAL BUDGET
2	IS AS FOLLOWS: JUST UNDER 200 MILLION HAS BEEN
3	ALLOCATED BY THIS GROUP. WE HAVE 12 MILLION IN
4	AWARDS THAT'S UP FOR DISCUSSION TODAY, AND THAT
5	GIVES A REMAINDER OF ABOUT 40 MILLION ON THE FISCAL
6	YEAR.
7	THE SCIENTIFIC SCORING SYSTEM FOR THE
8	CLINICAL PROGRAM SHOULD BE FAMILIAR TO EVERYONE
9	HERE. IT'S SCORES OF 1, 2, AND 3. A 1 IS A
10	RECOMMENDATION FOR FUNDING. A 2 OR 3 IS A DO NOT
11	RECOMMEND AT THIS TIME, A 2 ALLOWS THE APPLICANT TO
12	RETURN FOR A RESUBMISSION WITHIN THE NEXT SIX
13	MONTHS. A SCORE OF 3 IS A DO NOT RECOMMEND AND THE
14	SAME PROJECT CANNOT BE RESUBMITTED FOR AT LEAST SIX
15	MONTHS. AND ALL THE APPLICATIONS ARE SCORED BY THE
16	SCIENTIFIC MEMBERS OF THE PANEL WITH NO CONFLICT.
17	AND THEY WILL BE SCORING OR THEY HAVE
18	SCORED, RATHER, ACROSS THESE FIVE SCIENTIFIC REVIEW
19	CRITERIA. FIRST ONE BEING DOES THE PROJECT HOLD THE
20	NECESSARY SIGNIFICANCE AND POTENTIAL FOR IMPACT?
21	TWO, IS THE RATIONALE SOUND? THREE, IS THE PROJECT
22	WELL PLANNED AND DESIGNED? FOUR, IS THE PROJECT
23	FEASIBLE? AND FIVE, DOES THE PROJECT UPHOLD THE
24	PRINCIPLES OF DIVERSITY, EQUITY, AND INCLUSION?
25	THERE IS ALSO FOR THE CLINICAL PROGRAM A
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1	SEPARATE DIVERSITY, EQUITY, AND INCLUSION SCORING.
2	AND THESE ARE SCORED BY ALL GRANTS WORKING GROUP
3	BOARD MEMBERS WITH NO CONFLICT. AND THE SCALE IS
4	DIFFERENT HERE. IT'S A ZERO TO TEN WITH A TEN BEING
5	THE BEST RESPONSE. AND THEY'RE SCORED ACCORDING TO
6	THE RUBRIC HERE WHICH IS LINKED ON OUR WEBSITE.
7	AND JUST TO SUMMARIZE, THE COMPOSITION AND
8	ROLES OF THE FOLKS WHO EVALUATE THESE CLINICAL
9	APPLICATION ARE AS FOLLOWS. WE HAVE UP TO 15
10	SCIENTIFIC GRANTS WORKING GROUP MEMBERS WHO PROVIDE
11	THE SCIENTIFIC SCORE ON ALL APPLICATIONS. WE HAVE
12	OUR GRANTS WORKING GROUP BOARD MEMBERS. THESE ARE
13	THE PATIENT ADVOCATES AND NURSES THAT PROVIDE A DEI
14	SCORE ON ALL APPLICATIONS AND PROVIDE A SUGGESTED
15	SCIENTIFIC SCORE. AND WE HAVE AD HOC SPECIALISTS
16	THAT COME IN TO PROVIDE SCIENTIFIC EVALUATION ACROSS
17	AREAS OF EXPERTISE THAT ARE NEEDED FOR SPECIFIC
18	APPLICATIONS.
19	WITH THAT, I'LL TRANSITION TO THE
20	APPLICATIONS UNDER CONSIDERATION TODAY. JUST A
21	NOTE, THAT THE FOLLOWING APPLICATION, CLIN1-14770,
22	HAS THREE MEMBERS OF THE BOARD WITH CONFLICTS OF
23	INTEREST AS FOLLOWS: MARIA BONNEVILLE, YSABEL
24	DURON, AND STEVE JUELSGAARD.
25	SO CLIN1-14770, THE TITLE OF THIS

1	APPLICATION IS "AUTOLOGOUS GENE CORRECTED SINUS
2	BASAL CELLS TO TREAT SERIOUS CYSTIC FIBROSIS SINUS
3	DISEASE." THE THERAPY ITSELF IS GENE-CORRECTED
4	BASAL STEM CELLS FROM PATIENTS WITH CYSTIC FIBROSIS.
5	AND THE INDICATION IS CHRONIC SINUSITIS IN CYSTIC
6	FIBROSIS. AND THE GOAL OF THIS PROJECT IS AN IND
7	FILING. THE FUNDS REQUESTED ARE JUST EXACTLY AT 6
8	MILLION WITH NO CO-FUNDING WHICH NONE IS REQUIRED.
9	AND AN ADDITIONAL NOTE THAT WE'VE ADDED FOR THESE
10	CLINICAL AWARDS AT THE PRIOR ARS, THIS IS A
11	CALIFORNIA ORGANIZATION THAT HAS APPLIED.
12	A BIT OF BACKGROUND ON THIS APPLICATION.
13	SO CYSTIC FIBROSIS IS A GENETIC DISEASE AND CAN
14	CAUSE LUNG DAMAGE, CHRONIC INFECTIONS, AND
15	ULTIMATELY CAN LEAD TO LUNG FAILURE IN ADDITION TO
16	OTHER COMPLICATIONS. THERE ARE SOME DRUGS THAT CAN
17	PROVIDE BENEFIT, BUT THEY DON'T WORK FOR ALL
18	PATIENTS. AND MANY OF THE NONRESPONDERS ARE ETHNIC
19	MINORITIES.
20	SO THE PROPOSED THERAPY, HOW COULD IT
21	IMPROVE THINGS? SO THE TREATMENT COULD PROVIDE
22	STABLE RESTORATION OF THE CYSTIC FIBROSIS GENE IN
23	THE AIRWAY, AND THIS COULD POTENTIALLY IMPROVE THE
24	QUALITY OF LIFE FOR PEOPLE WITH CYSTIC FIBROSIS.
25	AND HOW IT'S RELEVANT TO CIRM, THIS THERAPY ITSELF

1	IS COMPOSED OF AUTOLOGOUS GENE-CORRECTED STEM CELLS.
2	CIRM PORTFOLIO PROJECTS, SO CIRM DOES NOT
3	CURRENTLY HAVE ANY ACTIVE TRANSLATIONAL OR CLINICAL
4	AWARDS ADDRESSING CYSTIC FIBROSIS.
5	FUNDING TO THE APPLICANT TEAM. SO THE
6	APPLICANT TEAM HAS RECEIVED SEVERAL CIRM AWARDS
7	PRIOR. IT HAS RECEIVED ONE DISCOVERY STAGE AWARD
8	THAT IS DIRECTLY RELATED TO THE CURRENT APPLICATION
9	UNDER CONSIDERATION. AND THEY ALSO HAVE TWO ACTIVE
10	CLINICAL TRIAL AWARDS AND AN ACTIVE ALPHA STEM CELL
11	CLINIC AWARD.
12	SO WITH THAT, TO SUMMARIZE, THE GRANTS
13	WORKING GROUP HAS RECOMMENDED THIS APPLICATION
14	UNANIMOUSLY FOR FUNDING WITH A SCIENTIFIC SCORE OF
15	1. AND THE BOARD MEMBERS HAVE GIVEN THIS
16	APPLICATION A DEI SCORE OF 9. AND THE CIRM TEAM
17	CONCURS WITH THE GWG RECOMMENDATION TO FUND THIS
18	APPLICATION FOR THE TOTAL AMOUNT OF 6 MILLION.
19	ALL RIGHT. BACK TO YOU, VITO.
20	CHAIRMAN IMBASCIANI: THANKS, HAYLEY. WE
21	WERE ON MUTE. THANKS FOR THE PRESENTATION AND FOR
22	THE REVIEW OF THIS APPLICATION.
23	I WOULD NEED A MOTION FROM A BOARD MEMBER
24	FOR DISCUSSION ON THIS.
25	DR. SOUTHARD: MARV SOUTHARD MOVES
	10
	10

	DETH G. DIAMIN, CA CON NO. 7 132
1	DISCUSSION.
2	CHAIRMAN IMBASCIANI: THANK YOU, MARV.
3	DR. CLARK-HARVEY: LEONDRA CLARK-HARVEY,
4	SECOND.
5	CHAIRMAN IMBASCIANI: MARV, THAT'S A
6	MOTION TO APPROVE IT FOR FUNDING, CORRECT?
7	DR. SOUTHARD: CORRECT.
8	CHAIRMAN IMBASCIANI: OKAY. COMMENTS FROM
9	BOARD MEMBERS ON THIS APPLICATION PLEASE.
10	MS. MORALEZ: THERE'S NO HANDS RAISED.
11	CHAIRMAN IMBASCIANI: NO HANDS ARE RAISED.
12	OKAY. GREAT. THANK YOU. ARE THERE ANY MEMBERS OF
13	THE PUBLIC WHO WANT TO COMMENT ON THIS APPLICATION?
14	MS. MORALEZ: THERE ARE NO HANDS RAISED.
15	CHAIRMAN IMBASCIANI: OKAY. THEN I THINK
16	WE'RE FREE TO PROCEED TO THE ROLL CALL VOTE. THANK
17	YOU.
18	MR. HUANG: DAN BERNAL.
19	MR. BERNAL: AYE.
20	MR. HUANG: JUDY CHOU.
21	DR. CHOU: AYE.
22	MR. HUANG: LEONDRA CLARK-HARVEY.
23	DR. CLARK-HARVEY: AYE.
24	MR. HUANG: ANNE-MARIE DULIEGE. MARK
25	FISCHER-COLBRIE.
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1	MR. FISCHER-COLBRIE: YES.
2	MR. HUANG: FRED FISHER.
3	DR. FISHER: YES.
4	MR. HUANG: ELENA FLOWERS.
5	DR. FLOWERS: YES.
6	MR. HUANG: DAVID HIGGINS.
7	DR. HIGGINS: YES.
8	MR. HUANG: VITO IMBASCIANI.
9	CHAIRMAN IMBASCIANI: YES.
10	MR. HUANG: RICH LAJARA.
11	MR. LAJARA: YES.
12	MR. HUANG: LAUREN MILLER-ROGEN.
13	MS. MILLER-ROGEN: YES.
14	MR. HUANG: ADRIANA PADILLA.
15	DR. PADILLA: YES.
16	MR. HUANG: JOE PANETTA.
17	MR. PANETTA: YES.
18	MR. HUANG: MARVIN SOUTHARD.
19	DR. SOUTHARD: YES.
20	MR. HUANG: KAROL WATSON. KEVIN XU.
21	DR. XU: YES.
22	MR. HUANG: THE MOTION PASSES.
23	CHAIRMAN IMBASCIANI: THANK YOU, BEN.
24	HAYLEY, I'LL CEDE BACK TO YOU FOR
25	PRESENTATION OF THE NEXT APPLICATION.
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1	DR. LAM: SURE. THANK YOU. SO THE NEXT
2	APPLICATION HAS A CONFLICT WITH KAROL WATSON FOR
3	CLIN1-15399. SO THE TITLE OF THIS APPLICATION IS
4	"DEVELOPMENT OF A THERAPEUTIC MONOCLONAL ANTIBODY
5	FOR THE TREATMENT OF MYOCARDIAL INFARCTION IN HEART
6	FAILURE."
7	SO THE THERAPY IS A MONOCLONAL ANTIBODY
8	FOR HEART DISEASE. AND THE GOAL OF THIS PROJECT IS
9	AN IND FILING. THE FUNDS REQUESTED ARE JUST UNDER 6
10	MILLION WITH NO CO-FUNDING, AND NONE IS REQUIRED FOR
11	THIS APPLICATION. AND, AGAIN, THIS IS ALSO A
12	CALIFORNIA ORGANIZATION.
13	A LITTLE BIT ABOUT THIS PROJECT. SO HEART
14	DISEASE IS THE LEADING CAUSE OF DEATH GLOBALLY.
15	AFTER THE HEART ATTACK, THE BODY TRIES TO REPAIR THE
16	DAMAGED AREA, BUT WITH SCAR TISSUE. AND THE SCAR
17	TISSUE STRESSES THE REMAINING HEART MUSCLE WHICH
18	OVER TIME CAN LEAD TO HEART FAILURE. SO THE CURRENT
19	STANDARDS OF CARE FOR HEART DISEASE DOES NOT ADDRESS
20	THE COMPLICATIONS OF THE SCAR TISSUE OR ENHANCE ANY
21	OF THE CARDIAC REPAIR.
22	SO THE PROPOSITION OF THIS PROPOSED
23	THERAPY IS A ONE-TIME TREATMENT OF A DRUG THAT COULD
24	POTENTIALLY ENHANCE THE REPAIR AND/OR DECREASE THE
25	FIBROSIS OR, RATHER, THE SCAR TISSUE THAT FORMS

1	AFTER A HEART ATTACK AND WOULD POTENTIALLY BE A
2	SIGNIFICANT ADVANCEMENT OVER THE STANDARD OF CARE.
3	AND HOW THIS PROJECT IS RELEVANT TO CIRM
4	IS THAT THE THERAPY TARGETS THE SCAR FORMING
5	PROGENITOR CELLS.
6	SIMILAR CIRM PORTFOLIO PROJECTS, THERE'S
7	ANOTHER CLIN1 THAT IS ACTIVE RIGHT NOW USING A
8	DIFFERENT TYPE OF CANDIDATE. SO THESE ARE THE
9	VESICLES DERIVED FROM CARDIAC-DERIVED CELLS. AND
10	THE SECOND PROJECT, I JUST NOTICED THIS, BY THE WAY.
11	I APOLOGIZE. THIS IS A TYPO. THE SECOND PROJECT IN
12	OUR PORTFOLIO IS A CLIN2. THIS A CLINICAL TRIAL
13	PHASE PROJECT ALSO FOR HEART FAILURE, BUT USING
14	HUMAN EMBRYONIC STEM CELL-DERIVED CARDIOMYOCYTES.
15	PRIOR FUNDING TO THE APPLICANT TEAM. SO
16	THIS APPLICANT TEAM HAS RECEIVED TWO PRIOR AWARDS
17	THAT ARE DIRECTLY RELATED TO THE CURRENT APPLICATION
18	UNDER DISCUSSION. SO THESE WERE DISCOVERY AND
19	TRANSLATIONAL PROJECTS THAT LED DIRECTLY TO THIS
20	CLIN1 THAT IS BEFORE YOU TODAY.
21	SO FINALLY, THE CLIN1-15399 WAS
22	RECOMMENDED FOR FUNDING BY THE GRANTS WORKING GROUP
23	WITH A UNANIMOUS SCORE OF 1 AND A DEI SCORE OF 10
24	FROM THE BOARD MEMBERS, AND THE CIRM TEAM CONCURS
25	WITH THE ABOVE RECOMMENDATION FOR A TOTAL AWARD

1	AMOUNT OF \$5,999,998. THANK YOU.
2	CHAIRMAN IMBASCIANI: THANK YOU. THANK
3	YOU AGAIN, HAYLEY.
4	I'D LIKE TO HEAR A MOTION TO ACCEPT THE
5	RECOMMENDATION TO FUND.
6	VICE CHAIR BONNEVILLE: SO MOVED.
7	CHAIRMAN IMBASCIANI: THANK YOU, MARIA.
8	DR. SOUTHARD: SECOND.
9	CHAIRMAN IMBASCIANI: THANK YOU, MARV.
10	DISCUSSION FROM BOARD MEMBERS ON THIS
11	APPLICATION.
12	MS. DURON: SORRY. I'M TRYING TO PUT MY
13	HAND UP.
14	CHAIRMAN IMBASCIANI: I CAN HEAR YOU.
15	MS. DURON: MY QUESTION, I DON'T KNOW IF
16	IT'S TO HAYLEY, BUT REMIND ME BECAUSE I POSSIBLY
17	HAVE FORGOTTEN THIS FROM A LONG TIME AGO. WHAT IS
18	THE REQUIREMENT OR HOW DO YOU MEASURE THOSE WHO
19	AREN'T REQUIRED TO HAVE CO-FUNDING AND THOSE WHO DO?
20	IT STRIKES ME IN SOME WAYS THAT PEOPLE WHO BRING
21	CO-FUNDING WITH THEM CAN HELP STRETCH OUR DOLLARS
22	AND SHOWS A REAL COMMITMENT. THAT MAY BE A WRONG
23	QUESTION OR I'M POORLY INFORMED, BUT JUST REMIND ME
24	AGAIN WHY.
25	DR. LAM: SO IT'S DEPENDENT LARGELY ON THE
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	15

1	APPLICANT TYPE. SO NONPROFIT ORGANIZATIONS ARE NOT
2	REQUIRED TO HAVE CO-FUNDING FOR THE CLIN1 STAGE AT
3	THIS TIME. THAT BEING SAID, OBVIOUSLY IT DOESN'T
4	MEAN THAT THEY CAN'T HAVE CO-FUNDING. IT'S JUST NOT
5	REQUIRED.
6	MS. DURON: RIGHT. AND I WOULD ARGUE THAT
7	MOST OF THE NONPROFITS, I THINK, WHO APPLY ARE
8	FAIRLY LARGE AND HAVE THEIR OWN BIG FUNDING. THESE
9	ARE NOT SMALL, LITTLE ORGANIZATIONS. SO IT'S JUST
10	CURIOUS BECAUSE, LIKE I SAID, WE NEED TO STRETCH OUR
11	DOLLARS. AND SO, ANYWAY, IT'S A THOUGHT. AND I
12	DON'T KNOW IF WE HAVE MORE TIME TO HAVE A
13	CONVERSATION AROUND IT AT SOME POINT IN TIME, BUT I
14	LEAVE IT OPEN FOR DISCUSSION MAYBE AT OUR JUNE
15	MEETING. THANK YOU.
16	CHAIRMAN IMBASCIANI: OKAY. I DO NOT SEE
17	ANY OTHER HANDS FROM BOARD MEMBERS. I'M GOING TO
18	OPEN IT UP FOR COMMENT FROM THE MEMBERS OF THE
19	PUBLIC WHO WANT TO DISCUSS OR MAKE A COMMENT ON THIS
20	APPLICATION, 15399. IT'S A HEART FAILURE.
21	MS. MORALEZ: THERE ARE NO HANDS RAISED.
22	CHAIRMAN IMBASCIANI: THERE ARE NO HANDS
23	RAISED. THANK YOU SO MUCH.
24	BEN, IF YOU'D DO THE HONORS.
25	MR. HUANG: YES. THIS IS A MOTION TO

APPROVE CLIN1-15399 FOR FUNDING. DAN BERNAL. MR. BERNAL: AYE.	
3 MR. BERNAL: AYE.	
4 MR. HUANG: MARIA BONNEVILLE.	
5 VICE CHAIR BONNEVILLE: YES.	
6 MR. HUANG: JUDY CHOU.	
7 DR. CHOU: YES.	
8 MR. HUANG: LEONDRA CLARK-HARVEY.	
DR. CLARK-HARVEY: AYE.	
MR. HUANG: ANNE-MARIE DULIEGE. YSABEL	
11 DURON.	
MS. DURON: YES.	
MR. HUANG: MARK FISCHER-COLBRIE.	
MR. FISCHER-COLBRIE: YES.	
MR. HUANG: FRED FISHER.	
DR. FISHER: YES.	
MR. HUANG: ELENA FLOWERS.	
DR. FLOWERS: YES.	
MR. HUANG: DAVID HIGGINS.	
DR. HIGGINS: YES.	
MR. HUANG: VITO IMBASCIANI.	
22 CHAIRMAN IMBASCIANI: YES.	
MR. HUANG: STEVE JUELSGAARD.	
MR. JUELSGAARD: YES.	
MR. HUANG: RICH LAJARA.	
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1	MR. LAJARA: YES.
2	MR. HUANG: LAUREN MILLER-ROGEN.
3	MS. MILLER-ROGEN: YES.
4	MR. HUANG: ADRIANA PADILLA.
5	DR. PADILLA: YES.
6	MR. HUANG: JOE PANETTA.
7	MR. PANETTA: YES.
8	MR. HUANG: MARVIN SOUTHARD.
9	DR. SOUTHARD: YES.
10	MR. HUANG: KEVIN XU.
11	DR. XU: YES.
12	MR. HUANG: THE MOTION PASSES.
13	CHAIRMAN IMBASCIANI: MOTION PASSES.
14	THANK YOU, BEN. OKAY.
15	WE'RE GOING TO MOVE TO THE NEXT ORDER OF
16	BUSINESS. THERE ARE 24 APPLICATIONS BEFORE US
17	SUBMITTED IN CONSIDERATION IN RESPONSE, I'M
18	SORRY, TO THE TRANSLATIONAL PROJECTS PROGRAM
19	ANNOUNCEMENT. THESE ARE APPLICATIONS IN THE TRAN
20	CATEGORY. AND I'M GOING TO ALLOW LET'S SEE.
21	GIL, WHERE ARE YOU? GIL IS GOING
22	DR. SAMBRANO: I'M HERE.
23	CHAIRMAN IMBASCIANI: THANK YOU.
24	DR. SAMBRANO: SO LET ME JUST QUICKLY PUT
25	THIS IN PRESENTATION MODE. GOOD MORNING, EVERYONE.
	18

1	THANK YOU FOR YOUR ATTENTION TO THIS.
2	I'M GOING TO TAKE YOU THROUGH SOME
3	BACKGROUND ON THE TRAN PROGRAM AS WELL AS GIVE YOU
4	AN EXPLANATION OF THE RECOMMENDATION FROM THE GRANTS
5	WORKING GROUP AS WELL AS CIRM ON THESE APPLICATIONS.
6	AS ALWAYS, WE START WITH OUR MISSION,
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1	TO ACCELERATE WORLD-CLASS SCIENCE TO DELIVER
2	TRANSFORMATIVE REGENERATIVE MEDICINE TREATMENTS IN
3	AN EQUITABLE MANNER TO A DIVERSE CALIFORNIA AND
4	WORLD.
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1	AND AS I TYPICALLY MENTION, THIS IS
2	SOMETHING THAT WE CARRY FORWARD IN OUR GRANTS
3	WORKING GROUP MEETINGS AS WELL SO THAT WE ENSURE
4	THAT EVERYONE IS ON THE SAME PAGE AS WE ENGAGE IN
5	THESE DISCUSSIONS.
6	THE TRANSLATION PROGRAM FALLS RIGHT IN
7	BETWEEN DISCOVERY AND CLINICAL PROGRAMS THAT WE
8	SUPPORT. THE IDEA IS TO TAKE SINGLE PRODUCT
9	CANDIDATES THAT ARE DEVELOPED EITHER THROUGH CIRM
10	FUNDING OR OTHER SOURCES, TAKE THEM THROUGH KEY
11	TRANSLATIONAL STUDIES, AND HAVE THEM BE READY TO
12	BEGIN THEIR PRE-IND OR IND-ENABLING WORK.
13	THE PROGRAM SUPPORTS FOUR DIFFERENT
14	PRODUCT TYPES. SO WE CAN HAVE PRODUCTS THAT ARE A
15	THERAPEUTIC, A CELL THERAPY OR GENE THERAPY OR SMALL
16	MOLECULE, FOR EXAMPLE, A DIAGNOSTIC OR A MEDICAL
17	DEVICE OR A TOOL, WHICH CAN BE A RESEARCH TOOL OR A
18	CLINICAL TOOL. EACH OF THESE PRODUCTS HAVE
19	DIFFERENT REQUIREMENTS. AND, THEREFORE, THE TIME
20	ALLOTTED OR ALLOWED FOR THEM TO DEVELOP THEIR
21	TRANSLATIONAL STUDIES VARIES FROM 24 TO 30 MONTHS.
22	AND THE AMOUNT OF FUNDING THAT'S PROVIDED ALSO
23	VARIES BASED ON THE PRODUCT TYPE.
24	THE GOAL BEHIND ALL OF THESE IS TO GET TO
25	A COMPLETED PRE-IND OR OTHER PRESUBMISSION MEETING

1	WITH THE FDA IF THEY FOLLOW A REGULATORY PATH, OR
2	FOR A TOOL TO GET TO A POINT WHERE THEY HAVE THE
3	ABILITY TO TRANSFER THEIR DESIGN TO A MANUFACTURER
4	AND MAKE THEIR TOOL AVAILABLE BROADLY. ALL OF THE
5	PROJECTS THAT COME IN NEED TO BE AT A STATE OF
6	READINESS WHERE THEY HAVE A CLEAR CANDIDATE THAT CAN
7	MOVE THROUGH THESE TRANSLATIONAL STUDIES TO GET TO
8	THAT GOAL.
9	THE SCIENTIFIC REVIEW CRITERIA THAT ARE
10	USED BY THE GRANTS WORKING GROUP TO ASSESS THESE
11	APPLICATIONS ARE SIMILAR TO WHAT HAYLEY PRESENTED
12	WITH THE CLIN PROGRAM. DOES THE PROJECT HOLD THE
13	NECESSARY SIGNIFICANCE AND POTENTIAL FOR IMPACT?
14	DOES IT HAVE A GOOD RATIONALE? IS IT WELL PLANNED
15	AND DESIGNED? IS IT FEASIBLE? AND DOES THE PROJECT
16	UPHOLD THE PRINCIPLES OF DIVERSITY, EQUITY, AND
17	INCLUSION?
18	THE SCORING IS A LITTLE DIFFERENT HERE
19	THOUGH. THE SCORING IS ON A SCALE OF 1 TO 100. IF
20	AN APPLICATION RECEIVES A SCORE OF 85 TO 100, THE
21	APPLICATION IS DEEMED TO HAVE EXCEPTIONAL MERIT AND
22	WARRANTS FUNDING. A SCORE BETWEEN 1 AND 84, THE
23	APPLICATION IS NOT RECOMMENDED FOR FUNDING.
24	HOWEVER, IF IT RECEIVES A SCORE BETWEEN 80 AND 84,
25	THE APPLICATION IS NOT RECOMMENDED FOR FUNDING, BUT
	22

1	MAY SKIP THROUGH THE POSITIVE SELECTION PROCESS.
2	AND WE HAVE ANOTHER TYPO HERE. IT WILL BE ACTUALLY
3	FOR THE NEXT OR FUTURE TRAN COMPETITION. I'LL SPEAK
4	A LITTLE BIT MORE ABOUT POSITIVE SELECTION IN JUST A
5	SECOND.
6	OF COURSE, APPLICATIONS RECEIVING ANY
7	SCORE CAN REVISE AND RESUBMIT IN FUTURE TRAN
8	COMPETITIONS.
9	ONE OF THE OTHER THINGS THAT WE'VE
10	IMPLEMENTED INTO THE TRAN REVIEWS IS THE DEI
11	SCORING. SO IN THE LAST COUPLE OF GRANT CYCLES,
12	WE'VE INCLUDED THE DEI SCORING SIMILAR TO WHAT WE DO
13	WITH THE CLINICAL PROGRAM, USING THE SAME DEI SCORE
14	SCALE OF ZERO TO TEN. AND A VERY SIMILAR RUBRIC
15	THAT WE PROVIDE TO OUR BOARD MEMBERS TO HELP
16	GUIDE
17	MS. MANDAC: WE LOST GIL. WE JUST LOST
18	CONNECTION. LET'S TRY TO GET HIM BACK.
19	(PAUSE IN PROCEEDINGS DUE TO
20	TECHNICAL DIFFICULTY.)
21	MS. MANDAC: HAYLEY, IF YOU'RE
22	COMFORTABLE.
23	DR. LAM: YES. I JUST WANT TO CONFIRM HE
24	WAS ON WHICH SLIDE HE WAS ON.
25	MS. DURON: HE WAS TALKING ON DEI RUBRIC.

1	DR. LAM: THANK YOU. THAT'S WHAT I
2	THOUGHT, BUT I WASN'T A HUNDRED PERCENT SURE. HERE
3	WE GO.
4	MS. DURON: I ALWAYS REMEMBER THAT ONE.
5	DR. LAM: LET'S SEE. HOLD ON.
6	MS. MANDAC: I'LL SEND YOU A SLIDE DECK
7	JUST IN CASE, HAYLEY.
8	DR. LAM: NO. I HAVE IT. I JUST NEED TO
9	GET IT TO FULL SCREEN MODE. HERE WE GO. THANKS FOR
10	YOUR PATIENCE HERE. ALL RIGHT.
11	DEI SCORING. SO HOPEFULLY THIS IS
12	FAMILIAR AND GIL WAS JUST TALKING THROUGH IT. THE
13	SCORING SYSTEM IS A ZERO TO TEN WITH A SIMILAR
14	RUBRIC TO THE CLINICAL PROGRAM. AND THE MEDIAN OF
15	ALL THE SCORES DETERMINES THE FINAL DEI SCORING.
16	AND THE COMPOSITION OF THE GROUP THAT
17	RECOMMENDS THESE APPLICATIONS, AGAIN, IS A GROUP OF
18	UP TO 15 SCIENTIFIC GRANTS WORKING GROUP MEMBERS
19	THAT SCORES ALL THE SCIENTIFIC PROVIDES A
20	SCIENTIFIC SCORE FOR ALL APPLICATIONS, THE BOARD
21	MEMBERS WHO PROVIDE A DEI SCORE ON ALL APPLICATIONS,
22	AND AD HOC SPECIALISTS THAT COME ON AND PROVIDE
23	INITIAL SCORING, BUT NOT FINAL SCORES, IN AREAS OF
24	EXPERTISE AS NEEDED FOR INDIVIDUAL APPLICATIONS.
25	A NOTE ABOUT THE TRANSLATIONAL PROGRAM.

1	SO WHEN WE HAVE MORE APPLICATIONS SUBMITTED THAN WE
2	CAN REVIEW IN A GIVEN PANEL, WE CONDUCT WHAT WE CALL
3	POSITIVE SELECTION. SO IN THIS STAGE ALL OF THE
4	GRANTS WORKING GROUP MEMBERS, INCLUDING THE BOARD
5	MEMBERS, CONDUCT A QUICK PREREVIEW OF THE ENTIRE
6	APPLICANT POOL THAT IS SUBMITTED AND SELECT
7	INDIVIDUAL ONES TO ADVANCE TO THE FULL DISCUSSION
8	AND REVIEW.
9	AFTER THAT HAPPENS, THE CIRM PRESIDENT AND
10	CIRM STAFF WILL ALSO LOOK AT THE REMAINING
11	APPLICATIONS TO DETERMINE IF ANY MERIT A FULL
12	REVIEW, AND THE REMAINDER OF APPLICATIONS ARE NOT
13	CONSIDERED FURTHER.
14	SO IN THIS PARTICULAR ROUND, A TOTAL OF 50
15	APPLICATIONS WERE SUBMITTED, AND A TOTAL OF 29
16	APPLICATIONS ADVANCED TO THE FULL REVIEW STAGE BY
17	THE GRANTS WORKING GROUP.
18	SO TO SUMMARIZE THE GRANTS WORKING GROUP
19	RECOMMENDATIONS, THE TOTAL NUMBER OF APPLICATIONS
20	RECOMMENDED FOR FUNDING WITH A SCORE OF 85 TO 100
21	NUMBERED IN 16 WITH A TOTAL APPLICANT REQUEST OF
22	JUST UNDER 60 OR JUST OVER, RATHER, 69 MILLION WITH
23	42 MILLION IN FUNDS AVAILABLE. AND THERE ARE 11
24	APPLICATIONS THAT WERE NOT RECOMMENDED FOR FUNDING.
25	SO FOR EACH AWARD, THE FINAL AWARD AMOUNT

1	WILL NOT EXCEED THE AMOUNT APPROVED BY THIS GROUP
2	TODAY.
3	A NOTE BASED UNDER PROP 14, WE HAVE
4	SOMETHING CALLED MINORITY REPORTS. SO ANY
5	APPLICATION THAT IS NOT RECOMMENDED FOR FUNDING, BUT
6	HAVE 35 PERCENT OR MORE OF THE PANEL RECOMMEND THAT
7	APPLICATION WILL INCLUDE A MINORITY REPORT. AND
8	THIS IS PART OF THE REVIEW SUMMARIES THAT YOU HAVE
9	BEFORE YOU, AND THIS PROVIDES SORT OF A SYNOPSIS OF
10	THE OPINION OF THE REVIEWERS WHO RECOMMENDED THE
11	APPLICATION FOR FUNDING.
12	SO IN THIS COHORT, THERE WAS ONE
13	APPLICATION WITH A MINORITY REPORT, TRAN1-16158, AND
14	IT ULTIMATELY RECEIVED A SCORE OF 84 WITH REQUESTED
15	FUNDS OF JUST OVER 3 MILLION. AND THE CIRM TEAM IN
16	THIS CASE SUPPORTS THE MAJORITY POSITION TO NOT FUND
17	THIS APPLICATION FOR THIS CYCLE AND RECOMMENDS THE
18	APPLICANT RESUBMIT IN THE NEXT TRANSLATIONAL CYCLE.
19	SO THE BOARD MEMBERS WITH CONFLICTS OF
20	INTEREST FOR THE TRANSLATIONAL APPLICATIONS. SO AS
21	ALL OF THE APPLICATIONS FOR THE TRANSLATIONAL
22	PROGRAM ARE CONSIDERED TOGETHER, ANYBODY WITH A
23	CONFLICT WITH ANY SINGLE APPLICATION IS CONFLICTED.
24	SO THE LIST FOR THIS PARTICULAR GROUP IS MARIA
25	BONNEVILLE, YSABEL DURON, STEVE JUELSGAARD, AND

1	KAROL WATSON.
2	I THINK I NEED TO SHARE THE OTHER FILE
3	WHICH MAY TAKE A MOMENT OR IF SOMEBODY HAS IT READY
4	AND CAN SHARE IT AS WELL. SO THIS IS THE GRID WITH
5	ALL OF THE APPLICATIONS RECOMMENDED IN GREEN.
6	AND SO BECAUSE THE TOTAL NUMBER OF
7	APPLICATIONS IN THIS ROUND THAT WERE RECOMMENDED BY
8	THE GRANTS WORKING GROUP EXCEEDS THE BUDGET THAT IS
9	ALLOCATED FOR THE TRANSLATIONAL AWARDS IN THIS
10	FISCAL YEAR, THE CIRM TEAM HAS MADE THE FOLLOWING
11	RECOMMENDATIONS FOR FUNDING TO THE APPLICATION
12	REVIEW SUBCOMMITTEE. SO AS YOU CAN SEE, THE GREEN
13	ONES ARE THE RECOMMENDATIONS FOR FUNDING. AND
14	ESSENTIALLY IT WAS BASED ON THE FUNDS THAT WE HAD.
15	AND THE LINE WAS DRAWN HERE AT TRAN 16192. AND THEN
16	THE ONLY REMAINING APPLICATION THAT COULD FIT IN THE
17	REMAINING FUNDS AVAILABLE WAS, LET'S SEE, 16091.
18	AND SO WITH THAT, WE WOULD BE ABLE TO FUND
19	THE MOST NUMBER OF APPLICATIONS IN THIS ROUND WITH
20	THE HIGHEST MEDIAN SCORE. SO THAT IS THE
21	RECOMMENDATION THAT THE CIRM TEAM HAS PUT FORTH TO
22	THE APPLICATION REVIEW SUBCOMMITTEE TODAY.
23	DR. SAMBRANO: I'M BACK. I HAVE NO IDEA
24	WHAT HAPPENED. BUT THANKS FOR PRESENTING, HAYLEY.
25	I DON'T KNOW IF YOU TALKED ABOUT THE APPLICATION
	27

1	THAT'S AT THE BOTTOM OF THE LIST, WHICH I THINK IS
2	IMPORTANT TO HIGHLIGHT, WHICH IS 16262. SO THAT ONE
3	IS THE ONLY ONE THAT IS SORT OF OUT OF ORDER IN
4	TERMS OF THE SCIENTIFIC RANKING. THAT ONE RECEIVED
5	A SCORE OF 86; HOWEVER, IT GOT A VERY LOW DEI SCORE
6	OF 5. AND SO TYPICALLY THE BOARD MEMBERS ARE
7	SCORING THE DEI SUCH THAT ANYTHING BELOW A 6 IS
8	STRONGLY FELT TO BE ONE THAT NEEDS TO FIX THEIR DEI
9	AND RESUBMIT. AND SO, THEREFORE, THAT'S WHY WE PUT
10	THAT OUT OF ORDER AND PUT THAT IN THE BOTTOM OF THE
11	STILL OVERALL SCIENTIFICALLY RECOMMENDED
12	APPLICATIONS.
13	THE OTHER THING TO NOTE IS THAT THE BASIS
14	FOR OUR RECOMMENDATION, I THINK HAYLEY PROBABLY
15	ALREADY STATED THIS, IS BASED ON THE SCIENTIFIC RANK
16	OF THE APPLICATIONS. SO IT IS GOING THROUGH THE TOP
17	NINE. ONCE YOU GET TO THE TOP NINE, WE CAN'T FUND
18	ANYTHING ELSE IN ADDITION TO THAT UNTIL YOU SKIP
19	OVER TO THE ONE APPLICATION THAT WAS MENTIONED. AND
20	SO THAT IS THE BASIS FOR THE RECOMMENDATION.
21	THE OTHER THING I WANT TO NOTE IS THAT ALL
22	OF THE APPLICATIONS THAT DON'T GET FUNDED HAVE THE
23	OPPORTUNITY TO SUBMIT AGAIN. SO THE NEXT
24	APPLICATION DEADLINE IS IN JULY, SO IT'S BASICALLY
25	JUST AROUND THE CORNER. SO APPLICATIONS THAT END UP

1	NOT GETTING FUNDED WILL SKIP OVER THE POSITIVE
2	SELECTION PROCESS AND WILL BE ABLE TO IF THEY
3	RECEIVED A FUNDING RECOMMENDATION. SO THE GRANTS
4	WORKING GROUP WILL ALSO, OF COURSE, KNOW THAT THESE
5	WERE PREVIOUSLY RECOMMENDED AND, THEREFORE, HAVE A
6	HIGH LIKELIHOOD OF BEING AMONG THE RECOMMENDED GROUP
7	AGAIN. SO THAT IS IMPORTANT TO KNOW AS YOU GET INTO
8	YOUR DELIBERATION OF THESE APPLICATIONS. SO I THINK
9	THAT IS IT FROM MY END.
10	CHAIRMAN IMBASCIANI: THANK YOU, GIL, AND
11	THANK YOU, HAYLEY, FOR DOING YEOMAN'S SERVICE IN
12	GIL'S ABSENCE. WE ALL BENEFITED FROM THE
13	EXPLANATION OF WHY SOME OF THE APPLICATIONS
14	RECOMMENDED, THERE'S A GAP BETWEEN THE NINE AND THE
15	ONE.
16	SO I'M GOING TO OPEN THE FLOOR. THIS IS
17	WHAT'S GOING TO HAPPEN. I'M GOING TO ASK FOR A
18	MOTION AND FOLLOW THAT BY COMMENT FROM THE BOARD.
19	IT'S OUR USUAL MANNER. AND THEN FOLLOW THAT BY
20	PUBLIC COMMENT. I SAW A HAND THERE. DAVID, WHERE
21	ARE YOU?
22	DR. FISHER: MOTION TO APPROVE THE GREEN
23	FUNDED LIST.
24	CHAIRMAN IMBASCIANI: SORRY, FRED. DAVID,
25	I RECOGNIZED YOU FIRST AND YOU WERE ON MUTE.

1	DR. HIGGINS: YES. I AM OFF MUTE NOW. I
2	DON'T HAVE VIDEO, BUT I HAVE AUDIO. SO MAY I SPEAK?
3	I DON'T WANT TO EDGE ANYBODY OUT.
4	I THINK WHAT I'M WITNESSING HERE IS WE'RE
5	STRUGGLING WITH WE'VE GOT MORE FUNDABLE GRANTS THAN
6	WE'VE GOT MONEY TO FUND THEM FOR THIS PARTICULAR
7	CYCLE. SO WE'RE GOING TO KICK THE CAN DOWN THE ROAD
8	A LITTLE BIT UNTIL JULY.
9	MY FIRST COMMENT IS IS THAT CORRECT? AND
10	THEN I'D LIKE TO FOLLOW UP ON THAT. DID I SAY THAT
11	CORRECTLY?
12	DR. SAMBRANO: SO THE RECOMMENDATION IS TO
13	FUND THE ONES THAT ARE IN THE BRIGHT GREEN BECAUSE,
14	AS YOU SAID AND YOU ARE CORRECT, THAT WE CAN ONLY
15	FUND A LIMITED AMOUNT OF WHAT'S RECOMMENDED BECAUSE
16	OUR BUDGET DOESN'T OTHERWISE ALLOW IT. IN JULY
17	THERE IS ANOTHER APPLICATION DEADLINE. SO THOSE
18	THAT DO NOT GET FUNDED HAVE THE OPPORTUNITY TO COME
19	BACK, MEANING THEY CAN RESUBMIT THEIR APPLICATION.
20	BUT GIVEN WHERE THEY ARE ALREADY, THE GRANTS WORKING
21	GROUP IS AWARE OF THE VALUE OF THESE APPLICATIONS.
22	SO I THINK THEY ARE LIKELY TO SCORE HIGH AGAIN WHERE
23	THEY ARE LIKELY TO BE RECOMMENDED. SO IN JULY THOSE
24	THAT DON'T GET FUNDED CAN RE-APPLY.
25	DR. HIGGINS: SO HAVING SAID THAT, GIL,

1	THANK YOU FOR THIS SUMMARY. AS I OBSERVE IT, I
2	THINK WE'RE DEVIATING A LITTLE BIT FROM OUR NORMAL
3	PATH TO APPROVING GRANTS. AND SO WHAT I'D LIKE TO
4	DO TO KEEP US CLEAN IS CONSIDER A MOTION THAT WOULD
5	SPECIFICALLY STATE THAT WE MOVE TO FUND THE
6	APPLICATIONS THAT HAVE BEEN RECOMMENDED BY CIRM
7	STAFF, BUT THAT WE SPECIFICALLY DON'T FUND THOSE
8	THAT ARE NOT RECOMMENDED BY CIRM STAFF. SO JUST TO
9	MAKE IT PERFECTLY CLEAR AS TO WHAT WE'RE DOING AND
10	WHY WE'RE DOING IT INTENTIONALLY. DOES THAT MAKE
11	SENSE? DOES THAT MATTER? IS THAT REDUNDANT?
12	MR. HUANG: I THINK THAT MAKES SENSE. IT
13	ALSO ALLOWS IF WE DO DAVID'S MOTION, IT ALLOWS
14	FOR ALL THE PUBLIC COMMENTS TO OCCUR AT ONCE BECAUSE
15	EVERY ONE ALL THE APPLICATIONS WOULD FALL UNDER
16	THAT ONE MOTION. SO I DO THINK IT'S SIMPLER
17	PROCESSWISE IF THE BOARD CONCURS.
18	CHAIRMAN IMBASCIANI: GOOD POINT. SO ONCE
19	AGAIN, I'M GOING TO RESTATE YOUR MOTION. I HAVEN'T
20	HEARD A SECOND YET. DAVID HIGGINS PROPOSES THAT WE
21	FUND EVERYTHING THAT THE CIRM INTERNAL TEAM
22	RECOMMENDED TO BE FUNDED AND NOT TO FUND THOSE THAT
23	WERE NOT RECOMMENDED FOR FUNDING BY THE SAME TEAM.
24	DR. FISHER: SECOND.
25	CHAIRMAN IMBASCIANI: FRED FISHER SECONDS.

1	THE FLOOR IS NOW OPEN FOR DISCUSSION ON
2	THE MOTION FROM THE BOARD MEMBERS.
3	MS. MANDAC: JOE HAD HIS HAND RAISED.
4	CHAIRMAN IMBASCIANI: JOE.
5	MR. PANETTA: THANK YOU. I APOLOGIZE FOR
6	ALMOST HAVING LOST MY VOICE HERE. SO I HOPE YOU CAN
7	UNDERSTAND WHAT I'M SAYING.
8	SO JUST FOLLOWING ON TO WHAT DAVID WAS
9	SAYING, WHAT I'M THINKING ABOUT IS THAT IF WE PLACE
10	ALL OF THOSE OTHER APPLICATIONS THAT SCORED HIGH
11	ENOUGH TO BE FUNDED, BUT THAT WE DON'T HAVE THE
12	FUNDS TO BE ABLE TO MOVE ON, WHAT IS THE LIKELIHOOD
13	THAT WE'RE GOING TO END UP IN THE SAME POSITION NEXT
14	TIME AROUND WHERE WE'VE GOT MORE APPLICATIONS THAN
15	WE HAVE THE FUNDS TO BE ABLE TO FUND? DOES THIS
16	JUST CREATE THIS REPETITIVE CYCLE WHERE WE'RE
17	PUSHING THINGS DOWN THE ROAD?
18	DR. SAMBRANO: WELL, WE START A NEW BUDGET
19	YEAR IN JULY. AND TYPICALLY WE HAVE ENOUGH BUDGET
20	FOR TWO CYCLES. IT'S UNCLEAR HOW MANY APPLICATIONS
21	WE'RE GOING TO GET FOR THIS NEXT CYCLE; BUT IF THE
22	TREND CONTINUES, WE COULD BE IN A SIMILAR SITUATION
23	WHERE WE MAY NOT BE ABLE TO FUND EVERYTHING THAT
24	GETS RECOMMENDED.
25	THIS IS THE FIRST TIME THAT WE'VE HAD THIS
	22

1	MANY APPLICATIONS AND ALSO THE FIRST TIME THAT WE'VE
2	HAD TO FACE THIS ISSUE WHERE WE HAVE NOT SUFFICIENT
3	BUDGET TO DO SO. SO IT'S HARD TO KNOW, BUT IT IS
4	POSSIBLE THAT WE MAY FACE THE SAME SITUATION.
5	CHAIRMAN IMBASCIANI: OKAY. THANK YOU.
6	THANK YOU, JOE, AND YOUR BASSO PROFONDO VOICE. IT'S
7	COMING THROUGH PERFECTLY CLEAR.
8	LOOKING FOR OTHER BOARD MEMBER COMMENT ON
9	THE MOTION. HELP ME, LANA. I DON'T SEE THE ENTIRE
10	GALLERY PERHAPS.
11	MS. MANDAC: NO HANDS RAISED.
12	DR. CLARK-HARVEY: THIS IS LEONDRA. I
13	APOLOGIZE. I'M OFF CAMERA FOR THE MOMENT. POINT OF
14	ORDER. WAS THERE ANOTHER MOTION ON THE FLOOR? I
15	UNDERSTAND WE'RE DISCUSSING A PROPOSAL FROM MR.
16	HIGGINS, BUT WAS THERE ALREADY A MOTION ON THE
17	FLOOR? JUST TRYING TO GET CLEAR ON THAT
18	PROCEDURALLY.
19	MR. HUANG: FRED'S MOTION WAS NOT
20	SECONDED. SO
21	CHAIRMAN IMBASCIANI: AND FRED SECONDED
22	DAVID'S MOTION. SO I DEDUCE FROM THAT THAT HIS
23	INTENTION WAS SUBSUMED UNDER DAVID'S.
24	DR. CLARK-HARVEY: THANK YOU FOR THE
25	CLARITY.

1	CHAIRMAN IMBASCIANI: THANKS FOR
2	CLARIFYING WITH YOUR QUESTION, LEONDRA.
3	LISTEN, I'M GOING TO OPEN THE FLOOR NOW TO
4	PUBLIC COMMENT, BUT BOARD MEMBERS, OF COURSE, HAVE
5	THE OPPORTUNITY TO RAISE YOUR HAND AT ANY POINT
6	ALSO.
7	SO BECAUSE OF THE VOLUME OF PUBLIC
8	COMMENT, I'M GOING TO ASK THE MEMBERS OF THE PUBLIC
9	WHEN THEY USE THE MICROPHONE TO LIMIT THEMSELVES TO
10	TWO MINUTES. AND I'M GOING TO RELY ON
11	MR. HUANG: SORRY. SO BECAUSE WE HAVE
12	PEOPLE, WE HAVE PEOPLE ONLINE AND WE HAVE PEOPLE IN
13	PERSON, I THINK WE'RE GOING TO MANAGE PUBLIC COMMENT
14	BY HANDLING THE FOLKS IN PERSON AT THE CIRM
15	HEADQUARTERS, AND THEN WE'LL TRANSITION TO THE
16	ONLINE PUBLIC COMMENTS.
17	SO CLAUDETTE WILL KEEP TIME, AND I'LL CALL
18	JUST IN ORDER OF SIGN-IN. MAX WEISS.
19	MS. MANDAC: MAX, YOU SHOULD SEE A TIMER
20	UP ON THE BOARD, SO IT WILL HELP YOU KEEP THE TIME.
21	LET ME KNOW WHEN YOU'D LIKE TO START.
22	CHAIRMAN IMBASCIANI: DO WE HAVE CAMERA ON
23	OUR SPEAKERS?
24	MS. MANDAC: YES.
25	MASTER WEISS: I CAN START NOW. I WOULD
	34

1	LIKE TO TALK ABOUT THE GRANT FOR THE FUNDING OF
2	GAUCHER. THIS DISEASE HAS AFFECTED ME PERSONALLY.
3	IT'S BEEN A BURDEN ON MY LIFE. EVERY TIME I HAVE TO
4	GO, I AM REMINDED THAT I WILL HAVE TO LIVE WITH THIS
5	FOR THE REST OF MY LIFE, THAT I MAY NOT BE ABLE TO
6	ACCOMPLISH EVERYTHING THAT I WANT TO BECAUSE OF THIS
7	DISEASE.
8	AND THIS CURE, IT'S IN ITS FINAL STAGES,
9	WOULD LIFT THIS BURDEN OFF MY SHOULDERS, ALLOW ME TO
10	DO WHAT I WISH TO DO, TO BE FREE TO ACCOMPLISH MY
11	GOALS, TO HELP THE WORLD.
12	I WOULD REALLY LIKE THIS TO BE FUNDED
13	BECAUSE THIS DISEASE HAS IMPACTED ME PERSONALLY AND
14	MANY OTHERS AS WELL. IF I WAS ABLE TO BE CURED FROM
15	THIS DISEASE, I WOULD BE ABLE TO DO SO MUCH MORE IN
16	MY LIFE THAN WHAT I CAN NOW BEING BURDENED BY MY
17	BIWEEKLY VISITS TO DELAY THE EFFECTS OF THIS
18	DISEASE. THANK YOU.
19	MR. HUANG: THANK YOU, MAX. THAT IS
20	APPLICATION 16026, AND IT IS IN THE FUNDING RANGE.
21	CHAIRMAN IMBASCIANI: THANK YOU FOR THAT.
22	MR. HUANG: NEXT SPEAKER IS DR. GOMEZ.
23	NO. OKAY. MR. WEISS.
24	MR. WEISS: DISTINGUISHED MEMBERS OF THE
25	BOARD, I'M MAX'S FATHER. AND WE HAVE SUFFERED

1	THROUGH GAUCHER ALL OF MAX'S LIFE OBVIOUSLY. IT WAS
2	A DIFFICULT DECISION GIVEN WHAT'S GOING ON. IT WAS
3	A DIFFICULT DECISION TO GO THROUGH AND HAVE MAX.
4	HE'S A WONDER. AND THIS FUNDING OF DR. GOMEZ, SHE'S
5	AT THE LAST STAGE OF THIS PROJECT. THIS GOES TO
6	CLINICAL TRIALS AFTERWARDS. THERE'S NO SENSE GIVING
7	UP ON THIS PROJECT. WE NEED TO COMPLETE IT. THANK
8	YOU VERY MUCH.
9	CHAIRMAN IMBASCIANI: THANK YOU.
10	MR. HUANG: DR. MCMAHON FROM REVIR
11	THERAPEUTICS.
12	DR. MCMAHON: THANK YOU. DEAR COMMITTEE
13	MEMBERS, I'M A DIRECTOR OF BIOLOGY AT REVIR
14	THERAPEUTICS, A CALIFORNIA-BASED COMPANY COMMITTED
15	TO DEVELOPING TREATMENTS FOR HUNTINGTON'S DISEASE.
16	FROM INTERACTIONS WITH HD PATIENTS AND PATIENT
17	FOUNDATIONS, I AM AWARE OF THE HIGH UNMET MEDICAL
18	NEED FOR NEW TREATMENTS FOR HUNTINGTON'S DISEASE AND
19	OF THE SUFFERING AND DEVASTATION HD PATIENTS AND
20	FAMILIES ENDURE.
21	AND TODAY I WOULD LIKE TO READ A LETTER
22	FROM MRS. THERESE CRUTCHER-MARIN, A CALIFORNIA
23	RESIDENT AND PRESIDENT OF THE HUNTINGTON DISEASE
24	SOCIETY OF AMERICA, BAY AREA CHAPTER. SHE'S UNABLE
25	TO ATTEND TODAY AS SHE'S ATTENDING THE ANNUAL

1	CONVENTION, BUT THE LETTER DETAILS HER SUPPORT FOR
2	REVIR THERAPEUTICS' APPLICATION.
3	AND I HOPE FROM HEARING THERESE'S STORY,
4	THAT THE ARS WILL RECONSIDER FUNDING OF OUR
5	PROPOSAL.
6	"I AM PRESIDENT OF THE HUNTINGTON DISEASE
7	SOCIETY OF AMERICA, SAN FRANCISCO BAY AREA CHAPTER,
8	AUTHOR, HUNTINGTON DISEASE ADVOCATE, BLOGGER, AND
9	RETIRED HEALTHCARE PROFESSIONAL. I AM WRITING IN
10	SUPPORT OF REVIR THERAPEUTICS' APPLICATION TO SECURE
11	FUNDING FOR HUNTINGTON'S DISEASE. THE FUNDING FROM
12	CIRM WILL HELP MOVE REVIR IN DEVELOPING A CURE FOR
13	HUNTINGTON'S DISEASE.
14	"MY FAMILY HAVE SUFFERED FIVE
14 15	"MY FAMILY HAVE SUFFERED FIVE GENERATIONS HAVE SUFFERED FROM HUNTINGTON'S DISEASE.
15	GENERATIONS HAVE SUFFERED FROM HUNTINGTON'S DISEASE.
15 16	GENERATIONS HAVE SUFFERED FROM HUNTINGTON'S DISEASE. I WATCH MY THREE SISTER-INLAWS SUFFER AND THE STRESS
15 16 17	GENERATIONS HAVE SUFFERED FROM HUNTINGTON'S DISEASE. I WATCH MY THREE SISTER-INLAWS SUFFER AND THE STRESS MY FAMILY ENDURED FROM MY HUSBAND'S UNKNOWN GENE
15 16 17 18	GENERATIONS HAVE SUFFERED FROM HUNTINGTON'S DISEASE. I WATCH MY THREE SISTER-INLAWS SUFFER AND THE STRESS MY FAMILY ENDURED FROM MY HUSBAND'S UNKNOWN GENE STATUS. THE MOTHER OF THESE FOUR SIBLINGS WAS
15 16 17 18 19	GENERATIONS HAVE SUFFERED FROM HUNTINGTON'S DISEASE. I WATCH MY THREE SISTER-INLAWS SUFFER AND THE STRESS MY FAMILY ENDURED FROM MY HUSBAND'S UNKNOWN GENE STATUS. THE MOTHER OF THESE FOUR SIBLINGS WAS PLACED IN NAMPA STATE HOSPITAL. AND BECAUSE HER
15 16 17 18 19	GENERATIONS HAVE SUFFERED FROM HUNTINGTON'S DISEASE. I WATCH MY THREE SISTER-INLAWS SUFFER AND THE STRESS MY FAMILY ENDURED FROM MY HUSBAND'S UNKNOWN GENE STATUS. THE MOTHER OF THESE FOUR SIBLINGS WAS PLACED IN NAMPA STATE HOSPITAL. AND BECAUSE HER CHOREA WAS UNCONTROLLABLE, SHE WAS RESTRAINED AND
15 16 17 18 19 20	GENERATIONS HAVE SUFFERED FROM HUNTINGTON'S DISEASE. I WATCH MY THREE SISTER-INLAWS SUFFER AND THE STRESS MY FAMILY ENDURED FROM MY HUSBAND'S UNKNOWN GENE STATUS. THE MOTHER OF THESE FOUR SIBLINGS WAS PLACED IN NAMPA STATE HOSPITAL. AND BECAUSE HER CHOREA WAS UNCONTROLLABLE, SHE WAS RESTRAINED AND STRANGLED TO DEATH.
15 16 17 18 19 20 21	GENERATIONS HAVE SUFFERED FROM HUNTINGTON'S DISEASE. I WATCH MY THREE SISTER-INLAWS SUFFER AND THE STRESS MY FAMILY ENDURED FROM MY HUSBAND'S UNKNOWN GENE STATUS. THE MOTHER OF THESE FOUR SIBLINGS WAS PLACED IN NAMPA STATE HOSPITAL. AND BECAUSE HER CHOREA WAS UNCONTROLLABLE, SHE WAS RESTRAINED AND STRANGLED TO DEATH. "FUNDING FROM CIRM IS CRITICAL TO SUPPORT
15 16 17 18 19 20 21 22	GENERATIONS HAVE SUFFERED FROM HUNTINGTON'S DISEASE. I WATCH MY THREE SISTER-INLAWS SUFFER AND THE STRESS MY FAMILY ENDURED FROM MY HUSBAND'S UNKNOWN GENE STATUS. THE MOTHER OF THESE FOUR SIBLINGS WAS PLACED IN NAMPA STATE HOSPITAL. AND BECAUSE HER CHOREA WAS UNCONTROLLABLE, SHE WAS RESTRAINED AND STRANGLED TO DEATH. "FUNDING FROM CIRM IS CRITICAL TO SUPPORT REVIR EFFORT TO ADVANCE THE PROGRAM TO THE CLINIC AS

1	FAMILIES IN CALIFORNIA. THANK YOU."
2	CHAIRMAN IMBASCIANI: THANK YOU VERY MUCH.
3	MR. HUANG: I'M GOING TO SKIP JUST TO KEEP
4	IT ON THE SAME AWARD.
5	DR. YUE: THANK YOU. OUR MANAGER TALK
6	ABOUT REVIR EFFORT TO TREAT HUNTINGTON DISEASE. I
7	WILL KEEP MY SPEECH SIMPLE. I JUST WANT TO REALLY
8	EMPHASIZE THAT REVIR IS A SMALL START-UP, TWO YEARS
9	OLD, CALIFORNIA BASED. AND OUR MISSION REALLY IS TO
10	DEDICATE OUR RESOURCE TO DEVELOP A NOVEL THERAPEUTIC
11	TO TREAT MANY NEURODEGENERATIVE DISEASE, INCLUDING
12	HUNTINGTON. AND FOR HUNTINGTON WE ACTUALLY HAVE A
13	VERY COMPREHENSIVE DISEASE STRATEGY TO TARGET
14	DISEASE CAUSAL MUTATION. AND (UNINTELLIGIBLE)
15	COVERED BY OUR PROPOSAL, TRAN1-160730, IS ONE
16	MOLECULE TO REALLY DOWN REGULATE THE HUNTINGTON
17	MUTANT RNA. AND WE THINK THAT THIS THERAPY AND
18	OTHER THERAPY WE ARE CURRENTLY DEVELOPING WILL HAVE
19	A TRANSFORMING KIND OF IMPACT TO THE HUNTINGTON
20	PATIENT. AND THE SUPPORT FROM CIRM IS REALLY
21	CRITICAL FOR US TO PUSH FORWARD TO DEVELOP OTHER
22	MOLECULE, INCLUDING THIS ONE. AND WE REALLY THANK
23	YOU FOR YOUR KIND OF REVIEW.
24	AND ON THE OTHER HAND, I THINK I
25	UNDERSTAND THE LIMITATIONS ABOUT IT; BUT ON THE

1	OTHER HAND, WE PROBABLY WILLING TO OFFER WE CAN
2	MATCH THE GAP IN TERMS OF THE FUNDING FOR THE
3	PARTICULAR ROUND. THIS IS OPTION FOR THE BOARD TO
4	CONSIDER. THANK YOU.
5	MR. HUANG: DR. SUKOMOTO. OKAY. AND
6	DR. WEISSMAN.
7	DR. WEISSMAN: I'M IRV WEISSMAN, THE
8	PRINCIPAL INVESTIGATOR OF THIS GRANT. IN 1988 WE
9	FOUND HOW TO ISOLATE PURE, THE ONE IN A 100,000
10	CELLS IN THE BLOOD-FORMING BONE MARROW. THAT IS THE
11	STEM CELL. ALL OF THE OTHER CELLS, WHEN YOU
12	TRANSPLANT THEM, HAVE A FINITE LIFESPAN, BUT THE
13	STEM CELL BY SELF-RENEWAL CAN LAST FOR THE LIFE OF
14	THE RECIPIENT. ONE TREATMENT FOR LIFE.
15	IN 1992 WE PUBLISHED THE HUMAN
16	BLOOD-FORMING STEM CELL AT A COMPANY I STARTED
17	CALLED SYSTEMICS. WE DID A CLINICAL TRIAL FOR WOMEN
18	WITH METASTATIC BREAST CANCER. SO THAT MEANS BEYOND
19	THE BREAST, BEYOND THE LYMPH NODES, BUT SOMEPLACE,
20	USUALLY THE BONE. WE GAVE THEM ESSENTIALLY A LETHAL
21	DOSE OF COMBINATION CHEMOTHERAPY AND RESCUED THEM
22	WITH THEIR PURE BLOOD-FORMING STEM CELLS. AND WE
23	VALIDATED THERE WERE NO CANCER CELLS IN IT.
24	ALL OF THE OTHER TRANSPLANTS HAVE BEEN
25	WITH MOBILIZED BLOOD. ALTHOUGH THEY CALL THEM STEM

1	CELL TRANSPLANTS, MOST OF THEM HAVE CANCER CELLS IN
2	THEM.
3	WHAT WE FOUND WHEN WE PUBLISHED IN 2012 IS
4	THAT WE CHANGED THE MEDIAN SURVIVAL OF WOMEN FROM
5	TWO YEARS WITH EITHER PALLIATIVE INTENSE THERAPY OR
6	MOBILIZED BLOOD RESCUE TO TEN YEARS WITH CANCER FREE
7	STEM CELLS. WE CHANGED THE SURVIVAL BEYOND 15
8	YEARS, CANCER FREE SURVIVAL, FROM ZERO WITH
9	PALLIATIVE CARE, ZERO WITH MOBILIZED BLOOD
10	TRANSPLANTS TO 33 PERCENT.
11	NOW AT 26 YEARS LATER, THE PEOPLE WHO WERE
12	CURED BEYOND THE 15 YEAR MADE IT. I WANT TO POINT
13	OUT THAT
14	MS. MANDAC: THANK YOU SO MUCH, DR.
15	WEISSMAN. UNFORTUNATELY THE TIME IS UP.
16	MR. HUANG: THAT'S EVERYBODY ON-SITE.
17	MS. MANDAC: SO WE ARE GOING TO MOVE ON TO
18	THE ZOOM ROOM. WE'LL CONTINUE ON WITH WEISSMAN'S
19	APPLICATION. SO TAL RAVEH, YOU HAVE TWO MINUTES.
20	TAL. YOU WILL HAVE TO UNMUTE.
21	DR. RAVEH: GOOD MORNING. I WOULD LIKE TO
22	ALLOW JOE GANTZ TO START BEFORE ME BECAUSE WE BOTH
23	WANT TO COMMENT ON THE SAME APPLICATION.
24	MS. MANDAC: ALL RIGHT. JOE, YOU HAVE THE
25	FLOOR. YOU'RE SHOWING A WHITEBOARD, JOE.

1	(PAUSE IN PROCEEDINGS.)
2	DR. RAVEH: MAYBE I'LL TRY TO GET STARTED.
3	CHAIRMAN IMBASCIANI: WE CAN GIVE HIM SOME
4	EXTRA TIME TO GET STARTED.
5	DR. RAVEH: I'M READY. I'D LIKE TO SHARE
6	A FILM THAT JOE GANTZ CREATED THAT DESCRIBES THE
7	CLINICAL TRIAL, THE ONLY TIME THAT PURIFIED HUMAN
8	HEMATOPOETIC STEM CELLS WERE TRANSPLANTED TO WOMEN
9	THAT SUFFERED FROM METASTATIC BREAST CANCER AND TO
10	RESCUE THEIR BLOOD FORMATION AFTER HIGH-DOSE CHEMO.
11	(A VIDEO WAS THEN PLAYED, NOT
12	REPORTED NOR HEREIN TRANSCRIBED. THE VIDEO CAN BE
13	VIEWED ON THE FOLLOWING LINK:
14	HTTPS:/VIMEO.COM877689268065B9CF006?SHARE=COPY.)
15	MS. MANDAC: TAL, IT IS TIME. SO THAT WAS
16	TIME. YES, WE DID SEE A PART OF THE VIDEO, JOE.
17	DR. GANTZ: OKAY.
18	(THE ABOVE VIDEO WAS CONTINUED FROM
19	PREVIOUS SPEAKER.)
20	SO THIS CLINICAL TRIAL WAS FOLLOWED IN MY
21	FILM "ENDING DISEASE" WHICH I RELEASED FOUR YEARS
22	AGO. AND IT'S A CLINICAL TRIAL THAT HAS ALREADY
23	TAKEN PLACE AND HAD TREMENDOUS SUCCESS. AND I'M
24	JUST VERY HOPEFUL THAT IRV WILL GET THE CHANCE TO
25	FOLLOW UP WITH THIS AND CONTINUE THIS TRIAL TO SAVE

1	LIVES. AND THANK YOU FOR YOUR TIME.
2	MS. MANDAC: THANK YOU, JOE.
3	NEXT UP WE DO HAVE DR. PAUL AUGUST. TO
4	FOLLOW HIM WILL BE SERGUI PASCA. PAUL, YOU HAVE THE
5	FLOOR.
6	DR. AUGUST: GREAT. THANK YOU VERY MUCH.
7	I APPRECIATE EVERYBODY'S OPPORTUNITY TO SPEAK TODAY.
8	I'M PAUL AUGUST, REVIR THERAPEUTICS CHIEF SCIENTIFIC
9	OFFICER. REVIR IS A CALIFORNIA COMPANY COMMITTED TO
10	DEVELOPING THERAPEUTIC TREATMENTS FOR HUNTINGTON'S
11	DISEASE. AND WE BELIEVE THAT OUR PROPOSAL FITS
12	REALLY WELL WITH THE GOALS OF CIRM'S TRANSLATIONAL
13	PROGRAM.
14	I'D LIKE TO TAKE THE OPPORTUNITY TO
	I'D LIKE TO TAKE THE OPPORTUNITY TO CLARIFY ON SOME POINTS HIGHLIGHTED IN THE UNANIMOUS
14	
14 15	CLARIFY ON SOME POINTS HIGHLIGHTED IN THE UNANIMOUS
14 15 16	CLARIFY ON SOME POINTS HIGHLIGHTED IN THE UNANIMOUS POSITIVE REVIEW OF OUR PROPOSAL BY THE GRANTS
14 15 16 17	CLARIFY ON SOME POINTS HIGHLIGHTED IN THE UNANIMOUS POSITIVE REVIEW OF OUR PROPOSAL BY THE GRANTS WORKING GROUP. ONE IS YOU'VE SEEN IN OUR LETTERS OF
14 15 16 17 18	CLARIFY ON SOME POINTS HIGHLIGHTED IN THE UNANIMOUS POSITIVE REVIEW OF OUR PROPOSAL BY THE GRANTS WORKING GROUP. ONE IS YOU'VE SEEN IN OUR LETTERS OF SUPPORT, WE HAVE UNWAVERING SUPPORT FROM HUNTINGTON
14 15 16 17 18	CLARIFY ON SOME POINTS HIGHLIGHTED IN THE UNANIMOUS POSITIVE REVIEW OF OUR PROPOSAL BY THE GRANTS WORKING GROUP. ONE IS YOU'VE SEEN IN OUR LETTERS OF SUPPORT, WE HAVE UNWAVERING SUPPORT FROM HUNTINGTON DISEASE PATIENT FOUNDATIONS SUCH AS THE HUNTINGTON'S
14 15 16 17 18 19	CLARIFY ON SOME POINTS HIGHLIGHTED IN THE UNANIMOUS POSITIVE REVIEW OF OUR PROPOSAL BY THE GRANTS WORKING GROUP. ONE IS YOU'VE SEEN IN OUR LETTERS OF SUPPORT, WE HAVE UNWAVERING SUPPORT FROM HUNTINGTON DISEASE PATIENT FOUNDATIONS SUCH AS THE HUNTINGTON'S DISEASE SOCIETY OF AMERICA AND CHDI, WHICH YOU'LL
14 15 16 17 18 19 20	CLARIFY ON SOME POINTS HIGHLIGHTED IN THE UNANIMOUS POSITIVE REVIEW OF OUR PROPOSAL BY THE GRANTS WORKING GROUP. ONE IS YOU'VE SEEN IN OUR LETTERS OF SUPPORT, WE HAVE UNWAVERING SUPPORT FROM HUNTINGTON DISEASE PATIENT FOUNDATIONS SUCH AS THE HUNTINGTON'S DISEASE SOCIETY OF AMERICA AND CHDI, WHICH YOU'LL HEAR FROM DOUG MCDONALD SHORTLY.
14 15 16 17 18 19 20 21	CLARIFY ON SOME POINTS HIGHLIGHTED IN THE UNANIMOUS POSITIVE REVIEW OF OUR PROPOSAL BY THE GRANTS WORKING GROUP. ONE IS YOU'VE SEEN IN OUR LETTERS OF SUPPORT, WE HAVE UNWAVERING SUPPORT FROM HUNTINGTON DISEASE PATIENT FOUNDATIONS SUCH AS THE HUNTINGTON'S DISEASE SOCIETY OF AMERICA AND CHDI, WHICH YOU'LL HEAR FROM DOUG MCDONALD SHORTLY. WE UNDERSTAND THAT WE ARE JUST AT THE
14 15 16 17 18 19 20 21 22	CLARIFY ON SOME POINTS HIGHLIGHTED IN THE UNANIMOUS POSITIVE REVIEW OF OUR PROPOSAL BY THE GRANTS WORKING GROUP. ONE IS YOU'VE SEEN IN OUR LETTERS OF SUPPORT, WE HAVE UNWAVERING SUPPORT FROM HUNTINGTON DISEASE PATIENT FOUNDATIONS SUCH AS THE HUNTINGTON'S DISEASE SOCIETY OF AMERICA AND CHDI, WHICH YOU'LL HEAR FROM DOUG MCDONALD SHORTLY. WE UNDERSTAND THAT WE ARE JUST AT THE BORDER OF THE FUNDING CUTOFF. AND WE WOULD LIKE TO

1	SUPPORT FROM PATIENT FOUNDATIONS, AND SOME OF THE
2	CLARIFICATIONS.
3	FIRSTLY, THERE WAS A CONCERN RAISED BY
4	THE ABOUT OUR CANDIDATE'S EFFICACY IN PRECLINICAL
5	MODELS. AND I WANT TO ASSURE THE COMMITTEE THAT WE
6	HAVE CONFIRMED OUR CANDIDATE IS EFFECTIVE IN THE
7	FULLY HUMANIZED BACK HD MOUSE MODEL OF HUNTINGTON'S
8	DISEASE. AND ADDITIONALLY, OUR CANDIDATE HAS SHOWN
9	PROMISING RESULTS IN HUMAN PRECLINICAL MODELS, SUCH
10	AS HUNTINGTON'S DISEASE PATIENT IPSC'S. AND WE WILL
11	STRENGTHEN THAT IN THE FUTURE.
12	SECONDLY, ARTIFICIAL INTELLIGENCE WAS
13	RAISED AS AN OPPORTUNITY TO ANALYZE OUR SPLICING
14	DATA. AND I WANT TO COMMUNICATE THAT WE HAVE A
15	DEDICATED GROUP OF COMPUTATIONAL BIOLOGISTS WHO ARE
16	WORKING TO IDENTIFY THE MOST INFORMATIVE ANIMAL
17	SPECIES FOR OUR TOX STUDIES, ENSURING THE USE OF THE
18	TRANSGENOMICS DATA.
19	IN ADDITION, I WANT TO SAY THAT WE ARE
20	BROADENING OUR CLINICAL TOXICITY ASSESSMENTS AS
21	COMMUNICATED IN THE FEEDBACK. THESE WERE THE ONLY
22	CONCERNS THAT WERE RAISED BY THE REVIEWERS, AND WE
23	WANT THANK YOU FOR YOUR SUPPORT.
24	MS. MANDAC: THANK YOU, DR. AUGUST. SO
25	THIS WAS FOR TRAN1-16070, WHICH WAS PART OF THE
	42

1	APPLICATIONS NOT RECOMMENDED FOR FUNDING BY THE CIRM
2	TEAM. NEXT WILL BE DR. SERGUI PASCA ON TRAN1-16236,
3	ALSO NOT RECOMMENDED FOR FUNDING BY THE CIRM TEAM.
4	TO FOLLOW WILL BE KATJA WEINACHT. SO, DR. PASCA,
5	YOU HAVE THE FLOOR.
6	DR. PASCA: THANK YOU SO MUCH FOR THE
7	OPPORTUNITY TO SPEAK TODAY. I JUST WANT TO TAKE TWO
8	MINUTES TO TELL YOU A LITTLE BIT ABOUT THE RATIONALE
9	AND THE BROADER IMPLICATION FOR OUR TRAN1
10	APPLICATION FOR TIMOTHY SYNDROME. I'M A PROFESSOR
11	OF PSYCHIATRY AT STANFORD. AND I WANT TO POINT OUT
12	THAT ALTHOUGH PSYCHIATRIC DISORDERS AFFECT ONE IN
13	FIVE INDIVIDUALS WORLDWIDE AND CAUSE IMMENSE
14	SUFFERING, THE NUMBER OF APPLICATIONS, TRANSLATIONAL
15	APPLICATIONS, FOR PSYCHIATRIC DISORDERS ON THE
16	RECOMMENDED FUNDING LIST, IT'S VERY, VERY LOW. AND
17	THIS, OF COURSE, IS NOT A SURPRISE AS THESE
18	CONDITIONS ARE INCREDIBLY COMPLEX. AND DEVELOPING
19	THERAPEUTICS FOR PSYCHIATRIC DISORDERS HAS BEEN MORE
20	CHALLENGING THAN DEVELOPING THERAPEUTICS IN ANY
21	OTHER BRANCH OF MEDICINE.
22	BUT AS YOU CAN SEE, OUR PROPOSAL WAS VERY
23	POSITIVELY EVALUATED WITH CONCERNS ABOUT HOW RARE
24	THE CONDITION ACTUALLY IS. I WANT TO EMPHASIZE THAT
25	AUTISM, WHICH TIMOTHY SYNDROME IS RARE FORM OF

1	AUTISM, IS NOT ONE SINGLE DISEASE, BUT A COLLECTION
2	OF INDIVIDUALLY RARE CONDITIONS. AND I DO BELIEVE
3	THAT IF WE WERE TO MAKE PROGRESS IN PSYCHIATRY,
4	WE'RE GOING TO NEED TO FIRST TACKLE THESE RARE
5	CONDITIONS.
6	WE ARE AT A CRITICAL POINT IN PSYCHIATRY.
7	AS FOR THIS CONDITION, FOR TIMOTHY SYNDROME, ONE OF
8	THE HIGHEST PENETRANT FORMS OF AUTISM AND EPILEPSY,
9	WE HAVE NOW GATHERED ENOUGH BIOLOGICAL INFORMATION
10	THROUGH HUMAN STEM CELL MODELS, ORGANOIDS,
11	ASSEMBLOIDS, AND TRANSPLANTATION MODELS, THAT THE
12	THERAPEUTIC OPPORTUNITY JUST BECAME CLEAR. THIS
13	WORK WAS JUST PUBLISHED A COUPLE OF WEEKS AGO ON THE
14	COVER OF NATURE AND DEMONSTRATED FOR THE FIRST TIME
15	A MULTILEVEL APPROACH OF RESTORING DEFECTS IN HUMAN
16	NEURONS.
17	I NOTE THERE'S NOT ENOUGH TIME, BUT THERE
18	IS A TIMELINESS TO OUR PROJECT SINCE CHILDREN WITH
19	TIMOTHY SYNDROME ARE BEING DIAGNOSED MORE READILY,
20	BUT THEY'RE ALSO DYING YOUNG. JUST IN THE LAST 18
21	MONTHS, AS I HAVE TRAVELED TO FIND MOST OF THESE
22	PATIENTS, AT LEAST FIVE HAVE ACTUALLY DIED. SO, IN
23	CONCLUSION, I JUST HOPE THAT THE BOARD WILL
24	RECONSIDER
25	MS. MANDAC: I'M SORRY. THE NEXT IN LINE
	4-5

1	WILL BE DR. KATJA WEINACHT ON TRAN1-16025. TO
2	FOLLOW WILL BE JONATHAN BLUM. SO DR. WEINACHT'S IS
3	ONE OF THE APPLICATIONS NOT CURRENTLY IN THE PILE
4	RECOMMENDED FOR FUNDING. DR. WEINACHT, YOU HAVE THE
5	FLOOR. AND APOLOGIES IF I BUTCHERED YOUR NAME.
6	DR. WEINACHT: NO. NO. NOT AT ALL.
7	THANK YOU VERY MUCH. KATJA WEINACHT. I'M A
8	PEDIATRIC STEM CELL TRANSPLANTER AT STANFORD SCHOOL
9	OF MEDICINE. AND I APOLOGIZE FOR ANY BACKGROUND
10	NOISE. I'M IN VANCOUVER AT THE INTERNATIONAL
11	SOCIETY FOR CELL THERAPY WHERE I JUST PRESENTED THIS
12	WORK.
13	SO MY LABORATORY HAS DEVELOPED AN ENTIRELY
14	NEW STRATEGY FOR A T-CELL IMMUNOTHERAPY. T-CELL
15	IMMUNOTHERAPIES ARE THE MOST POWERFUL
16	IMMUNOTHERAPIES. AND THE TYPE OF T-CELL
17	IMMUNOTHERAPY YOU KNOW ARE THE CAR-T CELLS, THE ONE
18	WHERE YOU ENGINEER T-CELLS IN A DISH. AND IT IS THE
19	EXACT SAME TYPE OF T-CELL THAT YOU ENGINEER. MY
20	LABORATORY HAS TAKEN A DIFFERENT APPROACH. WE USE
21	STEM CELLS TO ENGINEER THE ORGAN THAT MAKES T-CELLS.
22	AND SO WE MAKE T-CELLS THE WAY THE BODY DOES IT,
23	T-CELLS THAT CAN DO ANYTHING THE HUMAN BODY NEEDS.
24	YOU MAY ASK DO I NEED MY T-CELL? WHO IS
25	THIS? WE HAVE PROPOSED IT FOR CHILDREN WITH GENETIC

1	DEFECTS WHO CANNOT MAKE T-CELLS. BUT EVERY
2	IMMUNOCOMPROMISED PATIENT NEEDS THIS. THIS IS A
3	PLATFORM TECHNOLOGY, PATIENTS WITH CANCER, PATIENTS
4	UNDERGOING CHEMOTHERAPY, PATIENTS OF STEM CELL
5	TRANSPLANTS, PATIENTS WITH HIV. AND TRULY AS WE
6	AGE, WE LOSE OUR CAPACITY TO MAKE NEW T-CELLS. SO
7	THIS IS A PLATFORM TECHNOLOGY THAT WILL REALLY
8	BENEFIT ALL OF US.
9	AND TO ESTABLISH SOMETHING ENTIRELY NOVEL,
10	WE NEED FUNDING, THE TYPE OF HIGH RISK FUNDING THAT
11	CIRM SET OUT TO DO TO ADVANCE ENTIRELY NOVEL
12	THERAPIES. SO TODAY I RESPECTFULLY ASK THE ICOC
13	COMMITTEE TO EXAMINE THE PORTFOLIO OF EXISTING
14	T-CELL THERAPIES AND TO MAKE A CONSCIOUS DECISION TO
15	INVEST IN SOMETHING THAT IS ENTIRELY NOVEL. AND
16	THAT IS TRULY A WONDERFUL RETURN ON INVESTMENT. IT
17	CAN BENEFIT ALL OF US. AND I'M CONFIDENT IT CAN
18	WRITE THE NEXT CHAPTER OF IMMUNOTHERAPIES. THANK
19	YOU FOR YOUR ATTENTION.
20	MS. MANDAC: THANK YOU VERY MUCH, DR.
21	WEINACHT. SO NEXT WE WILL HAVE JONATHAN BLUM TO BE
22	FOLLOWED BY SAM ALWORTH. BOTH WILL BE SPEAKING ON
23	TRAN1-16013, AN APPLICATION THAT HAS BEEN
24	RECOMMENDED FOR FUNDING BY THE CIRM TEAM. JONATHAN,
25	YOU HAVE THE FLOOR.

1	DR. BLUM: THANK YOU FOR THIS OPPORTUNITY
2	TO SPEAK. I WAS DIAGNOSED WITH ALS IN 2020, SHORTLY
3	AFTER I RETIRED FROM MY WORK AS AN INFECTIOUS
4	DISEASE PHYSICIAN. I WAS ASKED BY EVERYTHING ALS,
5	AN ADVOCACY GROUP, TO COMMENT ON THIS GRANT
6	SPECIFICALLY REGARDING WHETHER INTRATHECAL THERAPY
7	WOULD BE ACCEPTABLE TO ALS PATIENTS.
8	FIRST, I WANT TO MENTION THAT I'M
9	RECEIVING NO COMPENSATION WHATSOEVER FOR MY
10	APPEARANCE HERE. IN ADDITION, I WAS ASKED TO SPEAK
11	AND I AGREED TO DO SO BEFORE ANYONE KNEW WHAT MY
12	STATEMENT WOULD BE. SO I WAS NOT CHERRYPICKED FOR
13	MY RESPONSE.
14	ALTHOUGH MUCH SCIENTIFIC PROGRESS IS BEING
15	MADE, NEURODEGENERATIVE DISORDERS ARE A TOUGH
16	TARGET. AND OPTIONS FOR ALS WILL REMAIN QUITE
17	LIMITED FOR SOME TIME. IN OTHER WORDS, THERE IS NO
18	MIRACLE PILL ON THE HORIZON. ALTHOUGH THERE IS NO
19	DENYING THAT INTRATHECAL THERAPY IS LESS CONVENIENT
20	THAN PILLS, I BELIEVE THAT IT IS NOT A SUBSTANTIAL
21	OBSTACLE TO USE OF SUCH A THERAPY.
22	THERE ARE SEVERAL GOOD REASONS FOR THIS.
23	FIRST, INTRATHECAL THERAPY IS ALREADY USED FOR OTHER
24	SERIOUS DISEASES SUCH AS LEUKEMIA, SPINAL MUSCULAR
25	ATROPHY, OR IN MY FIELD FUNGAL MENINGITIS.

SECOND, IT ANTISENSE THERAPY IS ALREADY
BEING USED FOR ALS IN THE SMALL GROUP OF PATIENTS
WHO HAVE A MUTATION IN THE SOD1 GENE, AND IT IS THE
FIRST ALS TREATMENT THAT HAS BEEN SHOWN TO REVERSE
THE DISEASE. UPTAKE OF THIS TREATMENT AMONG THOSE
PATIENTS HAS BEEN VERY HIGH.
THIRD, IT THERAPY IS BEING DEVELOPED FOR
TREATMENT OF OTHER NEURODEGENERATIVE DISORDERS SUCH
AS CREYTZFELDT-JAKOB DISEASE AS DESCRIBED IN SCIENCE
MAGAZINE JUST THIS MARCH 22D.
FINALLY, I CAN SPEAK FROM MY OWN
PERSPECTIVE. I'VE PERFORMED MANY LUMBAR PUNCTURES
AND OBSERVED HOW PATIENTS TOLERATED THEM. I AM ALSO
FACING PROGRESSIVE DISABILITY AND CERTAIN DEATH FROM
MY DISEASE. THERE'S NO QUESTION THAT I WOULD BE
WILLING TO ACCEPT INTRATHECAL THERAPY EITHER AS PART
OF A TRIAL OR AS AN APPROVED TREATMENT. FOR A
DISEASE WITH A DISMAL PROGNOSIS AND FEW TREATMENT
OPTIONS, LUMBAR PUNCTURES AND INTRATHECAL THERAPY
ARE ACCEPTABLE TO ME AND OTHER PATIENTS. THANK YOU.
MS. MANDAC: THANK YOU SO MUCH, JONATHAN.
NEXT TO HAVE THE FLOOR WILL BE SAM ALWORTH. AFTER
SAM WILL BE A PHONE NUMBER, (310) 342-5508. SAM,
YOU HAVE THE FLOOR.
DR. ALWORTH: HI. THANK YOU. I'M ALSO
49

1	SPEAKING IN SUPPORT OF TRAN1-16013 FROM ACURASTEM
2	FOR THE DEVELOPMENT OF AN UNC13A TARGETING ANTISENSE
3	OLIGONUCLEOTIDE OR ASO FOR THE TREATMENT OF ALS. I
4	AM THE CO-FOUNDER AND CEO OF ACURASTEM, AND I THANK
5	THE BOARD FOR THIS OPPORTUNITY TO SPEAK.
6	OUR PROPOSAL, AS I MENTIONED, IS CURRENTLY
7	RECOMMENDED FOR FUNDING. BUT GIVEN HOW COMPETITIVE
8	THIS IS, I WANTED TO EDUCATE THE BOARD ON THE IMPACT
9	OF OUR PROPOSAL. AS YOU LIKELY KNOW, ALS IS A
10	HORRIBLE AND RAPIDLY PROGRESSING NEURODEGENERATIVE
11	DISEASE THAT CAUSES DEATH IN PATIENTS WITHIN AROUND
12	THREE YEARS ON AVERAGE.
13	OUR APPLICATION IS IMPORTANT BECAUSE IT
14	TARGETS A BROAD ALS POPULATION. THE THERAPEUTIC
15	MECHANISM OF OUR DRUG CANDIDATE IS RELEVANT FOR
16	NEARLY ALL ALS PATIENTS, WHICH IS VERY DIFFERENT
17	FROM GENETICALLY TARGETED APPROACHES SUCH AS THE
18	RECENTLY APPROVED ASO TREATMENT FOR SOD1 ALS, WHICH
19	IS ABOUT 5 PERCENT OF THE PATIENT POPULATION.
20	WHILE OUR REVIEW WAS OVERWHELMINGLY
21	POSITIVE, I'D LIKE TO ADDRESS ONE REVIEWER'S CONCERN
22	ABOUT THE DURABILITY OF ASO EXPOSURE AND EFFECTS ON
23	PROTEIN LEVELS AND HOW OFTEN THE ASO TREATMENT WOULD
24	NEED TO BE DOSED. THE LAST FEW YEARS HAVE SEEN
25	QUITE A NUMBER OF CLINICAL TRIALS OF INTRATHECALLY

1	ADMINISTERED ASO'S AND ONE RECENT APPROVAL.
2	AS THE FIELD, THE TECHNOLOGY OF ASO'S HAS
3	PROVEN TO GIVE DURABLE SUPPRESSION OF THE TARGET OF
4	INTEREST. AND QUARTERLY DOSING IS NOW THE STANDARD.
5	AND WE EXPECT TO BE ABLE TO ACHIEVE THAT WITH OUR
6	TREATMENT.
7	LASTLY, DR. BLUM JUST KINDLY SPOKE TO THE
8	ACCEPTABILITY OF INTRATHECAL TREATMENTS FOR ALS
9	PATIENTS. AND AS HE SO ELEGANTLY STATED, IT
10	ADMINISTRATION IS WIDELY ACCEPTED BY ALS PATIENTS
11	WITH TOFERSEN AND ALSO NSMA WITH NUSINERSEN. THANK
12	YOU.
13	MS. MANDAC: THANK YOU VERY MUCH, DR.
14	ALWORTH. SO NEXT WILL BE (310) 342-5508. PLEASE
15	MAKE SURE WHEN YOU START THAT YOU INTRODUCE YOURSELF
16	AND THE APPLICATION NUMBER YOU'RE SPEAKING FOR. AND
17	AFTER WILL BE ANA MORENO. SO (310) 342-5508, YOU
18	HAVE THE FLOOR.
19	DR. MCDONALD: YES. GOOD MORNING. CAN
20	YOU HEAR ME?
21	MS. MANDAC: YES.
22	DR. MCDONALD: GREAT. GOOD MORNING,
23	EVERYONE. MY NAME IS DOUG MCDONALD, AND I'M A
24	RESEARCH SCIENTIST AND DIRECTOR OF EXTERNAL
25	PARTNERSHIPS AND A MEMBER OF THE PRECLINICAL

1	LEADERSHIP TEAM AT CHDI FOUNDATION.
2	CHDI IS A PRIVATELY FUNDED NOT-FOR-PROFIT
3	ORGANIZATION EXCLUSIVELY DEDICATED TO ACCELERATING
4	THERAPIES FOR HUNTINGTON'S DISEASE BY
5	COLLABORATIVELY ENABLING HD R & D.
6	WE HAVE THREE OFFICES, AND I'M DIALING IN
7	FROM OUR OFFICE IN LOS ANGELES, CALIFORNIA, WHERE I
8	AM BASED.
9	I'M CALLING TO SUPPORT REVIR THERAPEUTICS'
10	PROJECT APPLICATION ENTITLED "GENETIC THERAPY
11	TARGETING MUTANT HUNTINGTON M-RNA TO TREAT
12	HUNTINGTON'S DISEASE." AND IT'S A PLEASURE TO
13	ADDRESS YOU ALL TODAY.
14	HUNTINGTON'S IS A HORRIBLE AND FATAL
15	DISEASE WITH A TRUE UNMET MEDICAL NEED. UNLIKE MANY
16	OTHER FATAL DISEASES, SUCH AS IN THE ONCOLOGY SPACE,
17	THERE ARE CURRENTLY NO APPROVED DISEASE MODIFYING
18	THERAPIES FOR HUNTINGTON'S. HUNTINGTON'S IS AN
19	AUTOSOMAL DOMINANT MONOGENIC DISEASE WITH 100
20	PERCENT PENETRANCE, AND IT MANIFESTS AS A MOVEMENT,
21	PSYCHIATRIC, AND COGNITIVE DISORDER. CHILDREN OF A
22	PARENT WHO HAS HD HAVE A 50-50 CHANCE OF INHERITING
23	THIS FATAL GENE.
24	REVIR'S INNOVATIVE RNA TARGETING DRUG
25	DISCOVERY PLATFORM HAS ALREADY YIELDED A CANDIDATE

1	THERAPY CALLED RX 038 THAT LOWERS THE LEVELS OF
2	MUTANT HUNTINGTON M-RNA AND PROTEIN BY MODIFYING THE
3	SPLICING OF MUTANT HUNTINGTON M-RNA.
4	THIS SPECIFIC APPROACH TARGETS THE
5	MONOGENIC CAUSE OF THE DISEASE. FURTHERMORE, THEIR
6	PLATFORM IS WELL POSITIONED TO YIELD ADDITIONAL
7	CANDIDATE MOLECULES TO MODULATE OTHER TARGETS OF
8	INTEREST TO HUNTINGTON'S STEMMING FROM THE
9	WELL-VALIDATED HUMAN-BASED GENOMEWIDE ASSOCIATION
10	STUDIES THAT
11	MS. MANDAC: THANK YOU SO MUCH.
12	UNFORTUNATELY YOUR TIME IS UP.
13	DR. MCDONALD: SORRY.
14	MS. MANDAC: NO, I'M SO SORRY. THANK YOU
15	VERY MUCH, DOUG.
16	DR. MCDONALD: I'LL JUST PAUSE BY SAYING
17	THAT THE PRECLINICAL LEADERSHIP SCIENTIFIC
18	MS. MANDAC: SORRY, DOUG. NEXT WILL BE
19	ANA MORENO ON TRAN1-16022, AN APPLICATION THAT'S
20	RECOMMENDED FOR FUNDING BY THE CIRM TEAM. FOLLOWING
21	ANA WILL BE (818) 519-9963. DR. MORENO, YOU HAVE
22	THE FLOOR.
23	DR. MORENO: THANK YOU. GOOD MORNING. MY
24	NAME IS ANA MORENO. I AM THE FOUNDER AND CEO OF
25	NAVEGA THERAPEUTICS, A COMPANY BASED IN SAN DIEGO,

1	CALIFORNIA. I WANT TO THANK THE REVIEWERS FOR
2	GIVING US THE TOP SCORE OF 85 AND FOR UNDERSTANDING
3	THE HUGE NEED THAT MANY OF US IN CALIFORNIA AND
4	AMERICANS IN GENERAL WITH CHRONIC PAIN ARE FACING.
5	I CAN IMAGINE MANY PEOPLE IN THE ROOM HAVE
6	EXPERIENCED OR KNOW SOMEONE THAT'S SUFFERING FROM
7	CHRONIC PAIN AND THE AMOUNT OF DEFICIENCY IN THE
8	QUALITY OF LIFE THAT THESE PATIENTS HAVE. INDEED,
9	17 MILLION AMERICANS SUFFER FROM HIGH IMPACT CHRONIC
10	PAIN, AND OPIATES ARE JUST NOT CUTTING IT WITH ONE
11	IN FOUR PATIENTS PRESCRIBED OPIATES BECOMING
12	ADDICTED TO THEM.
13	BUT YET ONLY LESS THAN 2 PERCENT, 1.7
14	PERCENT, OF INVESTMENT IS DEDICATED TO NOVEL CHRONIC
15	PAIN SOLUTIONS ACCORDING TO BYERS INVESTMENT REPORT
16	IN 2023. SO WE REALLY ARE IN DIRE NEED OF NEW
17	TREATMENTS FOR CHRONIC PAIN.
18	AT NAVEGA WE HAVE DEVELOPED A LONG
19	LASTING, NONADDICTIVE, HIGHLY SPECIFIC EPIGENETIC
20	GENE THERAPY FOR CHRONIC PAIN. WE HAVE SHOWN
21	EFFICACY PRECLINICALLY IN FIVE TYPES OF PAIN,
22	INCLUDING INFLAMMATORY, NEUROPATHIC, VISCERAL, AND
23	ARTHRITIC PAIN, SAFETY IN RODENT AND NONHUMAN
24	PRIMATES WITH NO TOXICITY OBSERVED EVEN AT HIGH
25	DOSES.

1	IMPORTANTLY, WE ARE A LUCKY RECIPIENT OF A
2	DISC2 GRANT THAT ALLOWED US TO TEST OUR GENE
3	THERAPIES AND IPSC'S FROM PATIENTS WITH
4	ERYTHROMELALGIA. AS OTHERS HAVE SHOWN THAT PATIENTS
5	THAT RESPOND TO THE IPSC STAGE IN PAIN RESPOND IN
6	THE CLINICAL TRIAL LARGELY TO THE DERISKING OF
7	THERAPY.
8	AND WE ARE REALLY COMMITTED TO ACTUALLY
9	TREAT PATIENTS. I STARTED THIS JOURNEY IN 2015 AS A
10	PH.D. STUDENT IN THE UNIVERSITY OF CALIFORNIA SAN
11	DIEGO AND STARTED THE COMPANY AFTER SEEING HIGH
12	IMPACT JOURNALS IN TRANSITIONAL MEDICINE. AND THIS
13	JOURNEY IS A DIFFICULT ONE OBVIOUSLY, ESPECIALLY ONE
14	FOCUSED ON CHRONIC PAIN, BUT WE REALLY ARE MOTIVATED
15	BY PATIENTS SUFFERING FROM CHRONIC PAIN THAT HAVE
16	REACHED OUT TO US IN CALIFORNIA, ALSO ABROAD IN
17	AUSTRALIA, ITALY, NETHERLANDS, AND BELGIUM. SO WE
18	REALLY WOULD LIKE TO HAVE YOU ASK TO CONSIDER
19	FUNDING US TO HELP END THE OPIATE ADDICTION AND
20	BRING PATIENTS A TREATMENT FOR CHRONIC PAIN. THANK
21	YOU.
22	MS. MANDAC: THANK YOU SO MUCH, DR.
23	MORENO. NEXT WE WILL HAVE (818) 519-9963 FOLLOWED
24	BY ANOTHER PHONE CALLER, (646) 586-1794. FOR BOTH
25	OF YOU, PLEASE MAKE SURE THAT YOU STATE YOUR NAME,
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1	WHAT APPLICATION YOU'RE SPEAKING TOWARDS. SO (818)
2	519-9963, YOU HAVE THE FLOOR.
3	DR. HOLLIS: HELLO. I AM ROGER HOLLIS,
4	AND I'M THE PI FOR THE TRAN1-16030, WHICH IS USING
5	GENE THERAPY TO TREAT A RARE, NONDEGENERATIVE,
6	NEUROGENETIC CONDITION CALLED ANGELMAN SYNDROME.
7	IN THIS ROUND, ALTHOUGH WE RECEIVED A
8	SCORE THAT SHOULD HAVE BEEN RECOMMENDED FOR FUNDING,
9	WE ARE CURRENTLY NOT RECOMMENDED FOR FUNDING. AND
10	WE REALLY HOPE THAT THE BOARD CAN POSSIBLY CHANGE
11	THEIR MINDS BECAUSE ANGELMAN SYNDROME IS CAUSED
12	BY PARDON ME. I'VE GOT A BAD COLD RIGHT NOW. SO
13	ANGELMAN SYNDROME WOW. I'M MAKING A COMPLETE
14	MESS OF THIS. I'M SUPER EMBARRASSED.
15	SO ANGELMAN SYNDROME IS CAUSED BY
16	EXPRESSION OF A SINGLE GENE CALLED UBE3A WITH HUGE
17	UNIQUE IMPRINTING PHENOMENON THAT THIS DISORDER ONLY
18	IMPACTS NEURONS IN THE CENTRAL NEURON SYSTEM AND NO
19	PERIPHERAL SYMPTOMS.
20	THE PATIENTS LIVING WITH ANGELMAN SYNDROME
21	EXPERIENCE SEVERE DEVELOPMENTAL DELAYS,
22	MULTIDYSFUNCTION, ATAXIA, PROFOUND SLEEP
23	DISTURBANCES, SEIZURES, AND ALMOST UNIVERSAL LACK OF
24	SPEECH, AND UNFORTUNATELY INABILITY TO LIVE AN
25	INDEPENDENT LIFE. IT AFFECTS APPROXIMATELY ONE IN

1	15,000 INDIVIDUALS, WHICH IS ABOUT 2600 PEOPLE IN
2	THE STATE OF CALIFORNIA WHICH TRANSLATES TO ABOUT
3	HALF A MILLION PEOPLE WORLDWIDE. AND SADLY THERE
4	ARE NO APPROVED TREATMENTS CURRENTLY FOR ANGELMAN
5	SYNDROME, WHICH LEAD TO A HUGE UNMET CLINICAL NEED
6	FOR THE INDIVIDUALS AND THEIR FAMILIES.
7	I AM PART THE GENE MEDICINE PROGRAM HERE
8	AT UCLA, AND I'VE BEEN ON THE TEAM THAT HAVE
9	DEVELOPED THERAPIES FOR MULTITUDES OF DISORDERS,
10	INCLUDING BUBBLE BABY DISEASE AND SICKLE CELL
11	ANEMIA. THE PRUDENCE IN GENETICALLY MODIFYING
12	HEMATOPOIETIC STEM CELLS WORK FOR TREATING ANGELMAN
13	SYNDROME BECAUSE HEMATOPOIETIC STEM CELLS GIVE RISE
14	TO AMINE CELLS THAT SET UP RESIDENCE IN THE BRAIN
15	ALSO KNOWN AS RESIDENT AMINE CELLS.
16	THE GENETICALLY MODIFIED RESIDENT AMINE
17	CELLS ARE STILL CAPABLE OF PERFORMING THEIR NORMAL
18	ROLE IN THE BRAIN, BUT NOW HAVE ALSO BEEN ENDOWED
19	WITH THE ABILITY TO TREAT UBE3A ENZYMES WHICH IS
20	MISSING IN THE ANGELMAN SYNDROME PATIENTS,
21	(UNINTELLIGIBLE) PROTEINS THAT ARE ABLE TO
22	CROSS-CORRECT THE ENZYME DEFICIENCY IN THE
23	SURROUNDING NEURONS AND REVERSES THE DEFECT. AND
24	THE REASON WE ARE SO EXCITED
25	MS. MANDAC: THANK YOU SO MUCH, DR.

1	HOLLIS. THAT IS TIME. SO THAT WAS FOR APPLICATION
2	TRAN1-16030, ONE OF THE APPLICATIONS NOT RECOMMENDED
3	FOR FUNDING BY THE CIRM TEAM. NEXT IN THE QUEUE IS
4	(646) 586-1794 TO BE FOLLOWED AFTER BY DR. YUAN. SO
5	(646) 586-1794, YOU HAVE THE FLOOR. PLEASE MAKE
6	SURE TO STATE YOUR NAME AND WHAT APPLICATION YOU'RE
7	SPEAKING TOWARDS.
8	DR. BERENT: HELLO. MY NAME IS ALLYSON
9	BERENT, AND I'M SPEAKING TO TRAN1-16030, "THE
10	EVALUATION OF EX VIVO LENTIVIRAL GENE THERAPY FOR
11	THE TREATMENT OF ANGELMAN SYNDROME."
12	GOOD MORNING, EVERYONE. I'M THE CHIEF
13	SCIENCE OFFICER FOR THE FOUNDATION FOR ANGELMAN
14	SYNDROME THERAPEUTICS WHERE OUR SINGULAR FOCUS IS TO
15	HELP ADVANCE TRANSFORMATIVE TREATMENTS FOR ALL
16	INDIVIDUALS LIVING WITH ANGELMAN SYNDROME.
17	ANGELMAN IS A NONDEGENERATIVE DISORDER
18	AFFECTING A SINGLE GENE CALLED THE UBE3A. ITS
19	DEFICIENCY IS ONLY IN NEURONS OF THE BRAIN. AND
20	SINCE 2008 WE AT THE FOUNDATION HAVE WORKED TO FUND
21	EVERY POSSIBLE THERAPEUTIC STRATEGY WITH SCIENTIFIC
22	MERIT THAT CAN BE ADVANCED TOWARDS HUMAN
23	APPLICATION. THIS INCLUDES AN AAV GENE REPLACEMENT
24	THERAPY, ARTIFICIAL TRANSCRIPTION FACTORS, AND AN
25	ANTISENSE OLIGONUCLEOTIDE, AS WELL AS CRISPR GENE

1	EDITING IN THIS EX VIVO AUTOLOGOUS HEMATOPOIETIC
2	STEM CELL GENE THERAPY.
3	I'M HERE TODAY BECAUSE OF OUR EXCITEMENT
4	OVER THE PROMISE OF THIS SPECIFIC EX VIVO LENTIVIRAL
5	GENE THERAPY FOR ANGELMAN SYNDROME. COMPARED TO ALL
6	OTHER STRATEGIES THAT WE HAVE FUNDED, THIS HSC
7	APPROACH HAS BEEN THE MOST PROFOUND IMPACT IN THE
8	ANIMAL MODEL, FULLY RESCUING THE PHENOTYPE IN
9	SYMPTOMATIC ANIMALS BOTH AT NEWBORN AND IN ADULT
10	MICE, HAVING THE GREATEST BIODISTRIBUTION TO THE
11	BRAIN, SHOWING THE ABILITY FOR THE UBE3 ENZYME TO
12	CROSS-CORRECT. THESE DATA HAVE CHANGED THE WAY WE
13	THINK ABOUT HOW TO BEST ADDRESS THIS DISORDER
14	FOLLOWING IN THE FOOTSTEPS OF THE RECENTLY APPROVED
15	(UNINTELLIGIBLE) FOR MEDICAL LEUKODYSTROPHY AS WELL
16	AS CYSTINOSIS AND (UNINTELLIGIBLE) ATAXIA THANKS TO
17	THE INCREDIBLE FUNDING BY CIRM.
18	WE ARE HONORED TO HELP SUPPORT THE WORK OF
19	DR. HOLLIS AND HIS ACCOMPLISHED TEAM AT UCLA TO BE
20	ABLE TO ADVANCE TO A PRE-IND MEETING FOR THIS
21	CURRENT CRITICAL CANDIDATE. IT HAS BEEN AN
22	INCREDIBLE COLLABORATIVE EFFORT ALWAYS WITH SOUND
23	SCIENCE, PATIENT FOCUS AT THE CORE OF ALL OF OUR
24	WORK. AS I AM THE MOTHER TO A LITTLE GIRL WHO LIVES
25	WITH THE ANGELMAN SYNDROME, AND UNFORTUNATELY SHE IS
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1	NONVERBAL AND SHE'S UNABLE TO BE HERE TODAY TO SPEAK
2	FOR HERSELF. SO I AM THE ONE WHO HAS TO SPEAK FOR
3	HER.
4	WHILE THE SYMPTOMS OF AS PRESENT WITH
5	EXTREME SEVERITY AND SIGNIFICANTLY IMPACT THE
6	DEVELOPMENT AND FUNCTIONING, DATA FROM THE
7	LITERATURE AND THE NATURAL HISTORY STUDY DATING BACK
8	TO 2006 SHOW THAT PATIENTS HAVE A NORMAL LIFESPAN.
9	THERE ARE GLOBAL REGISTRY
10	MS. MANDAC: THANK YOU SO MUCH FOR
11	PROVIDING COMMENT ON THE ANGELMAN SYNDROME
12	APPLICATION, TRAN1-16030. SO THE NEXT AND LAST IN
13	OUR LINE IS DR. YUAN ON TRAN2-16061, ONE OF THE
14	APPLICATIONS RECOMMENDED FOR FUNDING BY THE CIRM
15	TEAM. DR. YUAN, YOU HAVE THE FLOOR.
16	DR. YUAN: THANK YOU SO MUCH. AND I
17	REALLY APPRECIATE THE COMMITTEE FOR THE OPPORTUNITY
18	TO SPEAK. SO I'M A MEDICAL ONCOLOGIST AT
19	CEDARS-SINAI MEDICAL CENTER. SO OUR COLLABORATOR
20	AND MYSELF ARE TRYING TO TACKLE VERY IMPORTANT
21	QUESTION. THE PAST TWO DECADES WE HAVE SEEN
22	TREMENDOUS PROGRESSION OR IMPROVEMENT REGARDING
23	METASTATIC BREAST CANCER TREATMENT. BUT WHEN THEY
24	HAVE GONE BEYOND THE STANDARD OF CARE ARENA, EVERY
25	TIME IN CLINIC WE ARE FACING OUR PATIENTS AND TRYING

1	TO FIGURE OUT WHAT IS THE BEST NEXT TREATMENT, WE
2	OFTEN HAVE NO GUIDANCE.
3	SO WE ARE DEVELOPING THIS ASSAY WHICH IS
4	REALLY A NOVEL PRECISION MEDICINE TOOL FOR USING OUR
5	REAL-TIME PATIENT SPECIMEN, ADMITTING TO THE LAB,
6	AND TRY TO CREATE THIS PERSONALIZED TOOL TO GUIDE
7	THE NEXT TREATMENT. SO WE ARE COLLABORATING WITH
8	TERASAKI INSTITUTE AND WORKING ON THIS DIGITAL
9	PATIENT ORGANOID WITH THE AIM TO BRING THAT ANSWER
10	BACK TO THE CLINIC USING UNIQUE PATIENT'S FRESH
11	TUMOR BIOPSY. AND IT'S CALLED DIGITAL PATIENT
12	ORGANOID.
13	AND WE REALLY APPRECIATE THE OPPORTUNITY
14	FOR THE CONSIDERATION FOR FUNDING. I'LL STOP HERE.
15	THANK YOU.
16	MS. MANDAC: THANK YOU VERY MUCH, DR.
17	YUAN. ALL RIGHT. THAT IS IT FOR THE PUBLIC
18	COMMENT. BACK TO YOU, VITO.
19	CHAIRMAN IMBASCIANI: GREAT. THANK YOU.
20	THANK YOU, CLAUDETTE, FOR MANAGING THAT. WE HAVE A
21	TOTAL OF THIRTY-THREE LETTERS. I DON'T KNOW HOW
22	MANY PEOPLE SPOKE. I WANT TO THANK THE WRITERS OF
23	THE LETTERS WHO SENT INFORMATION TO US. SOME OF THE
24	LETTERS WERE FULL OF GREAT SCIENTIFIC RIGOR. OTHERS
25	WERE MORE A CRI DE COEUR. ALL OF THEM WERE WRITTEN
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1	WITH CARE, AND I WANT TO THANK THE AUTHORS FOR
2	ENLIGHTENING THE MEMBERS OF THIS SUBCOMMITTEE,
3	HELPING US UNDERSTAND BETTER THE HUMAN COST AND THE
4	BURDEN OF DISEASE. WE APPRECIATE THAT IMMENSELY.
5	I THINK WE ARE NOW AT A POINT WHERE WE CAN
6	RETURN TO THE MOTION THAT IS ON THE FLOOR. WE HAVE
7	HAD BOARD COMMENT, PUBLIC COMMENT. IS THERE ANY
8	OTHER COMMENTS FROM BOARD MEMBERS ON BOARD MEMBER
9	HIGGINS' MOTION? DO YOU REMEMBER IT? IT WAS AWHILE
10	AGO. YOU WANT TO RESTATE IT MAYBE?
11	MR. HUANG: WE WILL APPROVE
12	CHAIRMAN IMBASCIANI: AND ALSO I'M
13	SORRY, BEN. EXPLAIN WHAT A YES VOTE AND A NO VOTE
14	MEANS.
15	MR. HUANG: SURE. APPROVE ALL THE
16	APPLICATIONS IN THE RECOMMENDED RANGE, RECOMMENDED
17	BY CIRM, AND NOT FUND THOSE APPLICATIONS NOT IN THE
18	CIRM RECOMMENDED NOT IN THE CIRM
19	RECOMMENDED NOT CIRM RECOMMENDED. SORRY.
20	AND A YES VOTE WOULD JUST MEAN WE THIS
21	MOTION WOULD CLOSE THIS WOULD BE A GLOBAL MOTION
22	FOR ALL THE APPLICATIONS. A YES VOTE WOULD MEAN
23	THAT ALL THE DARK GREEN APPLICATIONS CURRENTLY WOULD
24	BE APPROVED FOR FUNDING. AND A NO VOTE SORRY.
25	ALL THE DARK GREEN APPLICATIONS WILL BE APPROVED FOR

1	FUNDING. AND THE NON-DARK GREEN APPLICATIONS WOULD
2	NOT BE FUNDED. A NO VOTE WOULD INDICATE THAT WE
3	WOULD PROBABLY NEED TO ENTERTAIN A NEW MOTION IF
4	BOARD MEMBERS ARE INTERESTED IN MOVING ANY
5	APPLICATIONS UP OR DOWN.
6	BECAUSE THE BUDGET IS FULL, ANY MOTION TO
7	MOVE AN APPLICATION UP WOULD REQUIRE THAT AN
8	APPLICATION WOULD ALSO HAVE TO BE MOVED DOWN FROM
9	THE DARK GREEN RANGE. HOPEFULLY THAT'S CLEAR
10	ENOUGH.
11	CHAIRMAN IMBASCIANI: IT WAS CLEAR TO ME.
12	THANK YOU, BEN. IT'S VERY IMPORTANT WHAT BEN JUST
13	SAID. AND WE PROBABLY DON'T HAVE TO CLARIFY THAT
14	ANY FURTHER AT THIS POINT. DEPENDS ON THE OUTCOME
15	OF THIS VOTE.
16	MS. MANDAC: ANNE-MARIE HAS HER HAND UP.
17	CHAIRMAN IMBASCIANI: ANNE-MARIE.
18	DR. DULIEGE: YES. I WANT, AGAIN, TO
19	EXPRESS MY GRATITUDE NOT ONLY TO THE PATIENTS,
20	PATIENT'S REPRESENTATIVE, AND SCIENTISTS WHO SENT
21	LETTERS, BUT TO ALL OF YOU WHO HAD THE COURAGE TO
22	COME AND TALK TO US. PARTICULARLY IT'S FRUSTRATING
23	WHEN IT'S ONLY TWO MINUTES AND THE MATTER IS SO
24	IMPORTANT.
25	I DO REALLY APPRECIATE AS A PERSON AND AS

1	A SCIENTIST HOW CHALLENGING IT IS TO HEAR, TO GO
2	THROUGH THIS PROCESS FOR PATIENTS AND PATIENT'S
3	REPRESENTATIVES. FOR SCIENTISTS, CEO'S OF BIOTECH
4	COMPANIES, IT'S VERY CHALLENGING AS WELL, BUT WE ARE
5	USED TO THIS PROCESS OF HAVING A TIME TO GO THROUGH
6	A SCREENING AND EVALUATION PROCESS AND BE REJECTED.
7	FOR PATIENTS, ANY REJECTION IS A PERSONAL MATTER AND
8	IS PROBABLY EXTRAORDINARILY HARD TO HEAR THAT.
9	I'D LIKE TO MAYBE HELP YOU A LITTLE BIT GO
10	THROUGH THAT BY PROVIDING YOU A BETTER UNDERSTANDING
11	OF THE PROCESS WHICH HAS BEEN SO WELL DESCRIBED SO
12	FAR AND WHICH HAVE GONE THROUGH OVER THE PAST 12
13	YEARS PLUS OF BEING ON THAT BOARD. WE DO RELY ON AN
14	EXCELLENT PROCESS, EXTREMELY SELECTIVE, BUT
15	EXCELLENT PROCESS OF THE GRANT WORKING GROUP.
16	THE ROLE OF THE BOARD IS TO REVIEW THIS
17	PROCESS AND POTENTIALLY, WHENEVER APPROPRIATE, TO
18	CHALLENGE IT. BUT GENERALLY I DON'T CHALLENGE IT
19	BECAUSE I WANT TO SUPPORT THE PROCESS OF MAKING THE
20	SELECTION OF THESE APPLICATIONS.
21	WE CAN OFFER TO CHALLENGE IT A LITTLE BIT
22	WHEN WE HAVE SUFFICIENT MONEY POTENTIALLY TO DO SO.
23	IN THAT CASE IT'S A SPECIAL SITUATION WHEREBY
24	FUNDING ONLY THOSE THAT ARE RECOMMENDED, WE WILL
25	HAVE ALREADY MAXED OUT OUR BUDGET. SO WE DON'T HAVE

1	EVEN THAT LUXURY WHICH WE SHOULD VERY RARELY USE. I
2	HOPE THAT HELPS. AND I STILL WANT TO SAY THAT IT'S
3	EXTRAORDINARILY DIFFICULT PARTICULARLY FOR PATIENTS
4	AND PATIENT'S REPRESENTATIVES. OVER.
5	CHAIRMAN IMBASCIANI: THANK YOU,
6	ANNE-MARIE. THAT WAS BEAUTIFULLY PUT. APPRECIATE
7	THAT.
8	ANY FURTHER COMMENT BEFORE WE PROCEED TO A
9	VOTE? DO YOU SEE ANY HANDS? NO.
10	MS. MORALEZ: THERE ARE NO HANDS RAISED.
11	MS. MANDAC: NO HANDS.
12	CHAIRMAN IMBASCIANI: OKAY. ALL RIGHT.
13	THANK YOU. BEN, IT'S ALL YOURS.
14	MR. HUANG: DAN BERNAL.
15	MR. BERNAL: AYE.
16	MR. HUANG: JUDY CHOU.
17	DR. CHOU: YES.
18	MR. HUANG: LEONDRA CLARK-HARVEY.
19	DR. CLARK-HARVEY: AYE.
20	MR. HUANG: ANNE-MARIE DULIEGE.
21	DR. DULIEGE: YES.
22	MR. HUANG: MARK FISCHER-COLBRIE.
23	MR. FISCHER-COLBRIE: YES.
24	MR. HUANG: FRED FISHER.
25	DR. FISHER: YES.
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133 HENNA COURT, SANDPOINT, IDAHO 83864 208-255-5453 208-920-3543 DRAIBE@HOTMAIL.COM

	DETTI G. DIATIN, CA CON NO. 7 132
1	MR. HUANG: ELENA FLOWERS.
2	DR. FLOWERS: YES.
3	MR. HUANG: DAVID HIGGINS.
4	DR. HIGGINS: YES.
5	MR. HUANG: VITO IMBASCIANI.
6	CHAIRMAN IMBASCIANI: YES.
7	MR. HUANG: RICH LAJARA.
8	MR. LAJARA: YES.
9	MR. HUANG: LAUREN MILLER-ROGEN.
10	MS. MILLER-ROGEN: YES.
11	MR. HUANG: ADRIANA PADILLA.
12	DR. PADILLA: YES.
13	MR. HUANG: JOE PANETTA.
14	MR. PANETTA: YES.
15	MR. HUANG: MARVIN SOUTHARD.
16	DR. SOUTHARD: YES.
17	MR. HUANG: KEVIN XU.
18	DR. XU: YES.
19	MR. HUANG: THE MOTION PASSES. THANK YOU.
20	CHAIRMAN IMBASCIANI: THANK YOU. THANK
21	YOU, BOARD MEMBERS AND MEMBERS OF THE PUBLIC, FOR
22	THIS VERY INVIGORATING CONVERSATION.
23	DO WE IS THERE AT THIS POINT IS
24	THERE ANY MEMBERS OF THE PUBLIC WHO WANTS TO RAISE
25	ANY GENERAL ISSUE OR ANY ISSUE NOT ON TODAY'S
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1	AGENDA?
2	MS. MORALEZ: THERE ARE NO HANDS.
3	CHAIRMAN IMBASCIANI: HEARING NONE, I'M
4	GOING TO THANK THE BOARD MEMBERS AGAIN FOR THEIR
5	WONDERFUL PARTICIPATION AND PREPARATION FOR THIS
6	MEETING. AND I'M GOING TO ADJOURN THE MEETING.
7	THANK YOU. SEE YOU NEXT MONTH.
8	MS. MANDAC: THANK YOU VERY MUCH.
9	(THE MEETING WAS THEN CONCLUDED AT 10:28 A.M.)
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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 VIRTUAL PROCEEDINGS BEFORE THE APPLICATION REVIEW SUBCOMMITTEE OF THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD ON MARCH 30, 2024, 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, CA CSR 7152 133 HENNA COURT SANDPOINT, IDAHO (208) 920-3543