

BEFORE THE  
INTELLECTUAL PROPERTY AND INDUSTRY 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: AS INDICATED ON THE AGENDA

DATE: MONDAY, SEPTEMBER 23, 2013  
1 P.M.

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

BRS FILE NO.: 95091

**BARRISTERS' REPORTING SERVICE**

**I N D E X**

<b>ITEM DESCRIPTION</b>	<b>PAGE NO.</b>
CALL TO ORDER AND ROLL CALL	3
CONSIDERATION OF STRATEGIC PARTNERSHIP PROGRAM	4
PUBLIC COMMENT	NONE

**BARRISTERS' REPORTING SERVICE**

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MONDAY, SEPTEMBER 23, 2013

1 P.M.

CHAIRMAN JUELSGAARD: I'M GOING TO CALL THIS MEETING OF THE INTELLECTUAL PROPERTY AND INDUSTRY SUBCOMMITTEE TO ORDER. MARIA, WILL YOU DO A ROLL CALL?

MS. BONNEVILLE: SUE BRYANT.

DR. BRYANT: HERE.

MS. BONNEVILLE: ANNE-MARIE DULIEGE.

DR. DULIEGE: HERE.

MS. BONNEVILLE: MICHAEL GOLDBERG.

MR. GOLDBERG: HERE.

MS. BONNEVILLE: STEVE JUELSGAARD.

CHAIRMAN JUELSGAARD: HERE.

MS. BONNEVILLE: OS STEWARD. JONATHAN THOMAS.

CHAIRMAN THOMAS: HERE.

CHAIRMAN JUELSGAARD: WHY DON'T WE GO AHEAD AND GET STARTED THEN. SO THE PRINCIPAL ITEM FOR BUSINESS IS TO TALK ABOUT, IN ESSENCE, THE PROGRAMS THAT WE HAVE CURRENTLY TO TRY AND ATTRACT INDUSTRY TO THE PROJECTS THAT WE'RE HELPING TO SUPPORT AND ALSO TALK ABOUT SOME OF THE INFORMAL CONTACTS OR DISCUSSIONS WE'VE HAD WITH INDUSTRY, SO

**BARRISTERS' REPORTING SERVICE**

1 TO DISCUSS BOTH SOME OF THE MORE FORMAL PROGRAMS AND  
2 SOME OF THE MORE INFORMAL APPROACHES.

3 SO THIS IS THE ONE THAT WAS PRECIPITATED  
4 AT THE LAST ICOC MEETING, AND THERE WAS A DISCUSSION  
5 THAT ENSUED DURING THE CONSIDERATION OF THE ADOPTION  
6 OF THE COLLABORATIVE AND CO-FUNDING AGREEMENTS, AND  
7 REALLY QUESTIONS WERE ASKED ABOUT THE ATTRACTIVENESS  
8 OF THESE PROGRAMS OR THE EFFECT THAT THEY WERE  
9 HAVING ON INDUSTRY. AND JUST IN THE LARGER SCHEME  
10 OF THINGS, I THINK JEFF SHEEHY WAS THE PERSON WHO  
11 REALLY BROUGHT THAT TO THE TABLE.

12 AND SO WE AGREED THAT WE WOULD HAVE A  
13 MEETING OF THE SUBCOMMITTEE REALLY TO DISCUSS THE  
14 ISSUE OF THE INTERACTION BETWEEN CIRM AND INDUSTRY  
15 AND HEAR WHAT'S GOING ON AND SEE IF THERE ARE ANY  
16 THOUGHTS OR SUGGESTIONS FOR ENHANCING THAT. AND SO  
17 WITH THAT, I'M GOING TO ASK ELONA, SHE'S PUT  
18 TOGETHER A PRESENTATION, TO TALK A LITTLE BIT ABOUT  
19 OUR PROGRAMS AND ALSO EFFORTS WE'VE MADE ON A MORE  
20 INFORMAL BASIS.

21 MS. BAUM: THANKS VERY MUCH. WHAT I  
22 THOUGHT I WOULD DO IS START OFF WITH SOME CONTEXT,  
23 WHICH ALWAYS MAKES SENSE, TO SET THE STAGE AND KNOW  
24 WHERE WE'RE COMING FROM IN TERMS OF ENGAGING IN  
25 THESE ACTIVITIES AND, AS YOU SAID, DESCRIBE THOSE

**BARRISTERS' REPORTING SERVICE**

1 ACTIVITIES AND, IMPORTANTLY, THE OUTCOMES TO DATE.  
2 AND IT'S A TWO-HOUR SUBCOMMITTEE MEETING, AT LEAST  
3 TWO HOURS HAS BEEN ALLOCATED, SO I ANTICIPATE THERE  
4 WILL BE A LOT OF DISCUSSION ON WHAT THE NEXT STEPS  
5 COULD BE AND MAYBE SOME QUESTIONS AND JUST GENERAL  
6 DEBATE.

7 SO I WANT TO REMIND EVERYBODY THAT WHEN WE  
8 PREPARED THE STRATEGIC PLAN, IT SET FORTH THREE  
9 PHASES OF CIRM'S LIFE SPAN.

10 CHAIRMAN JUELSGAARD: DID SOMEBODY JUST  
11 JOIN THE CALL?

12 DR. STEWARD: YES, HI. THIS IS OS.

13 CHAIRMAN JUELSGAARD: WELCOME, OS. WE'RE  
14 JUST GETTING UNDER WAY. ELONA IS JUST STARTING TO  
15 PRESENT BOTH SOME OF THE MORE FORMAL ARRANGEMENTS  
16 THAT WE PUT TOGETHER TO TRY AND ATTRACT INDUSTRY TO  
17 OUR PROGRAMS AND ALSO TALK ABOUT SOME OF THE MORE  
18 INFORMAL APPROACHES. WHEN WE'RE FINISHED WITH THAT,  
19 WE'RE GOING TO HAVE A BROADER DISCUSSION ABOUT WHAT  
20 WE MIGHT DO TO ENHANCE THOSE INTERACTIONS, IF  
21 ANYTHING.

22 MS. BAUM: SO WHERE I WAS IS I WAS  
23 DESCRIBING OUR STRATEGIC PLAN AND THE FACT THAT WE  
24 HAD LOOKED AT OUR LIFE SPAN AT CIRM AS BEING IN  
25 THREE DIFFERENT PHASES, WHICH WE ARE CURRENTLY IN

**BARRISTERS' REPORTING SERVICE**

1 THE SECOND PHASE. AND I JUST HAVE UP ON THE SCREEN  
2 BEFORE US, AND HOPEFULLY THOSE OF YOU WHO CALLED IN  
3 HAVE THE SLIDES BEFORE YOU AS WELL, OUR STRATEGIC  
4 PLAN THAT SHOWS THAT WE ARE IN THE FOCUS PHASE OF  
5 OUR LIFE SPAN. IT INCLUDES EFFORTS TO DEVELOP  
6 PARTNERSHIPS.

7 AND I BELIEVE IT GOT THERE FOR THREE  
8 REASONS. THE FIRST IS THAT WE WILL NOT BE FUNDING  
9 CLINICAL PHASE IIIS AND, THEREFORE, THERE NEEDS TO  
10 BE SOME SOURCE OF FUNDING FOR THAT. I THINK WE  
11 RECOGNIZE THAT HAVING PHARMA AND VC'S ENGAGED WITH  
12 OUR GRANTEES PROVIDES THEM WITH VALUABLE EXPERTISE.  
13 AND THE THIRD REASON IS THAT IF YOU CAN ACTUALLY  
14 DEVELOP A RAPPORT, A RELATIONSHIP EARLY ON WITH THE  
15 GRANTEES AND VC'S OR PHARMAS, YOU ESTABLISH INTERNAL  
16 CHAMPIONS, WHICH OFTEN GOES A LONG WAY WHEN IT COMES  
17 TIME FOR THE NEXT PHASES OF RESEARCH TO PROGRESS AND  
18 THE QUESTION OF WILL THEY FUND OR WILL THEY NOT FUND  
19 OCCURS. SO THAT WAS THE RATIONALE FOR HAVING  
20 PARTNERSHIPS INCLUDED IN THIS FOCUSED PHASE.

21 AND SO WHAT DOES THAT TAKE? HOW DO YOU  
22 GET TO THESE VARIOUS AGREEMENTS? AND THERE'S TWO  
23 DIFFERENT PROBABLY AVENUES THAT YOU CAN GO. YOU CAN  
24 GO FROM THE TOP DOWN AND YOU CAN GO FROM THE BOTTOM  
25 UP. I'M FOCUSING MOSTLY ON THE BOTTOM UP, THE WAY

**BARRISTERS' REPORTING SERVICE**

1 THAT BD OFFICES WOULD DO IT IN YOUR TYPICAL  
2 COMPANIES AND THAT SORT OF APPROACH THAT WE'RE DOING  
3 HERE. THERE'S ALWAYS THE ABILITY TO TRY TO ENGAGE  
4 AT A HIGHER LEVEL AS WELL. BUT ESSENTIALLY WHAT YOU  
5 DO IS YOU MEET A LOT OF THE SCOUTS THAT ARE OUT, AND  
6 YOU HAVE MEETINGS WITH THEM, YOU TELL THEM ABOUT  
7 YOUR PORTFOLIO. HOPEFULLY SOME OF THOSE MEETINGS  
8 TURN INTO DUE DILIGENCE, AND HOPEFULLY THEY TURN  
9 INTO A NEGOTIATION WHICH ENDS UP IN AN AGREEMENT.

10 SO I RECENTLY WENT TO A CNS PARTNERING  
11 EVENT A COUPLE WEEKS AGO. AND I WISH I ACTUALLY HAD  
12 THE SLIDE THAT MERCK SHOWED BECAUSE IT PROVIDED A  
13 LOT OF INFORMATION. BUT LET ME JUST GO OVER SOME OF  
14 THE STATISTICS THAT THEY SHARED. I'LL TRY TO  
15 HIGHLIGHT THE CONTEXT IN WHICH THEY SHARED IT AS  
16 BEST I CAN. I DON'T HAVE THEIR SLIDE YET.

17 THEY SAID THAT IN 2012 THEY HAD 7,002 WHAT  
18 THEY REFERRED TO AS OPPORTUNITIES PRESENTED TO THEM  
19 FOR PARTNERING. OF THOSE THEY CHOSE 586 TO REVIEW.  
20 AND WHEN I SAY REVIEW, THEY SAID IT WAS REVIEWED  
21 INTERNALLY WITH THEIR EXPERTS. OF THOSE, 375 MADE  
22 IT TO A CONFIDENTIALITY DISCLOSURE AGREEMENT WHERE  
23 THEY THOUGHT THAT THE PROJECT WAS INTERESTING ENOUGH  
24 THAT IT WARRANTED A FURTHER LOOK AND INDEED AN  
25 IN-DEPTH DUE DILIGENCE. AND THEN OF THOSE 375, 61

**BARRISTERS' REPORTING SERVICE**

1 ENDED UP IN AGREEMENT. SO THAT'S PRETTY SOMBERING.  
2 AND THE CONTEXT IN WHICH THEY PROVIDED IT IS THAT  
3 THEY ALSO LOOKED AT THESE AGREEMENTS IN THE CONTEXT  
4 OF THE LEVEL OF RISK PRESENTED. AND FOR THE MOST  
5 PART MERCK SEEMED PRETTY RISK AVERSE.

6 I DON'T WANT TO DISCOURAGE EVERYBODY JUST  
7 BY THESE SETS OF NUMBERS. YES, I THINK IT'S QUITE A  
8 NUMBER OF PROJECTS THAT YOU COMPETE WITH. BUT IN  
9 THE BROADER CONTEXT, THERE ARE OTHER COMPANIES THAT  
10 HAVE MADE SOME INVESTMENTS IN EITHER STEM CELL  
11 THERAPIES AND/OR IN REGENERATIVE MEDICINE. SO I  
12 WANT TO BRING YOUR ATTENTION TO CELGENE, WHICH LAST  
13 YEAR OR ACTUALLY THIS YEAR IN MAY JUST APPOINTED  
14 HARRY CARSON AS CEO OF THE CELLULAR THERAPY  
15 THERAPEUTICS PROGRAM THERE AT CELGENE. SO THAT'S  
16 ONE COMPANY THAT'S ENGAGING INTERNALLY IN THIS  
17 PROJECT. BAXTER HAS AN INTERNAL PROJECT. J & J  
18 CORPORATION HAS FOR YEARS DONE SOME INVESTMENTS  
19 INCLUDING INVESTMENTS IN VIACYTE. AT THE TIME IT  
20 WAS NOVOCELL AND MORE RECENTLY VIACYTE AS WELL AS  
21 TENGION AND OTHERS.

22 SO WE NEED TO TAKE THIS WITH A GRAIN OF  
23 SALT, BUT I THINK IT'S IMPORTANT FOR PEOPLE TO  
24 UNDERSTAND THE CONTEXT IN WHICH WE'RE ENGAGING.

25 AND I THINK IT'S IMPORTANT FOR PEOPLE TO



## BARRISTERS' REPORTING SERVICE

1 UNDERSTAND HOW MATURE OUR PRODUCT PIPELINE IS  
2 BASICALLY BECAUSE, AS MERCK SAID, THEY ARE LOOKING  
3 AT RISK IN THE CONTEXT OF WHAT THEY'RE DECIDING TO  
4 INVEST IN. AND AS YOU CAN SEE BY OUR PRODUCT  
5 PIPELINE HERE, WE DON'T HAVE ANY PHASE IIS CURRENTLY  
6 AT THIS STAGE. WE'VE GOT A COUPLE PHASE IS, AND OUR  
7 DISEASE TEAM PROJECTS AND OUR STRATEGIC PARTNERSHIP  
8 PROJECTS ARE IN PRECLINICAL STAGE. SO THAT MEANS  
9 NATURALLY THEY DON'T HAVE THAT MUCH DATA AND,  
10 THEREFORE, THEY'RE CONSIDERED BY SOME A LITTLE MORE  
11 RISKY.

12 THAT SAID, WE HAVE BEEN USING A NUMBER OF  
13 DIFFERENT TOOLS TO ENGAGE THE COMPANIES. AND IT'S  
14 NOT LIKE THEY'RE ALL SHUTTING THE DOOR AND NOT  
15 WILLING TO SPEAK TO US. I THINK WE'VE MADE SOME  
16 GREAT HEADWAY, AND I'LL TALK ABOUT SOME OUTCOMES  
17 SHORTLY. BUT LET ME JUST GO THROUGH THE DIFFERENT  
18 MECHANISMS WE'RE USING BECAUSE THERE WAS SOME  
19 INTEREST IN KNOWING ABOUT THAT.

20 THE FIRST ONE THAT COMES TO MIND AND WORTH  
21 MENTIONING IS, OF COURSE, THE STRATEGIC PARTNERSHIP  
22 FUNDING PROGRAM, AND IT'S SORT OF A WIN-WIN FOR BOTH  
23 OF US, FOR CIRM AND FOR THE FUNDING PARTNER. FOR  
24 THE FUNDING PARTNER, IF THEY SEE A PROGRAM THAT  
25 THEY'RE INTERESTED IN AND IT'S READY TO ENTER INTO A

**BARRISTERS' REPORTING SERVICE**

1 STRATEGIC PARTNERSHIP FUNDING RFA, THE GOOD NEWS IS  
2 THEY DON'T HAVE TO TAKE ON A HUNDRED PERCENT OF THE  
3 COST OF THE PROGRAM. THEY MERELY NEED TO COOPERATE  
4 WITH US AND FIND A WAY TO PROVIDE 50 PERCENT IS WHAT  
5 WE'VE BEEN ASKING FOR LATELY IN THE STRATEGIC  
6 PARTNERSHIP FUNDING ROUNDS. AND WE ASK THAT THAT 50  
7 PERCENT OR WE ALLOW THAT 50 PERCENT TO BE IN THE  
8 FORM OF IN-KIND SERVICES BEGINNING ALL THE WAY BACK  
9 TO ONE OF OUR INITIAL GOALS OF ACCESSING EXPERTISE  
10 AND INTERNAL CHAMPIONS.

11 SO THAT'S ONE VEHICLE WE'RE USING. AND  
12 IT'S REALLY GOOD TO USE WHEN YOU HAVE A PROGRAM  
13 THAT'S JUST SORT OF TOWARDS THE END OF ITS CIRM  
14 FUNDING. SO THE PI'S ARE VERY INTERESTED IN LOOKING  
15 FOR THE NEXT FUNDING SOURCE. AND IF YOU ARE  
16 FORTUNATE ENOUGH TO FIND A POTENTIAL VC OR PHARMA  
17 PARTNER, THEN THIS IS A GREAT TOOL AND WE'VE HAD  
18 SOME SUCCESS WITH IT.

19 IT DOESN'T EVEN HAVE TO BE IN THE CONTEXT  
20 OF A STRATEGIC PARTNERSHIP FUNDING PROGRAM. IT  
21 COULD BE A DISEASE TEAM II WHERE WE REQUIRE THAT  
22 THERE BE A MATCH. IT'S THE SAME SORT OF MECHANISMS  
23 AND INCENTIVES THAT WORK THERE.

24 CHAIRMAN JUELSGAARD: BEFORE YOU MOVE ON,  
25 ELONA, YOU SAID WE'VE HAD SOME SUCCESS WITH THIS

**BARRISTERS' REPORTING SERVICE**

1 PROGRAM. CAN YOU TALK ABOUT THOSE SUCCESSES?

2 MS. BAUM: DO YOU WANT ME TO DO THAT NOW?

3 CHAIRMAN JUELSGAARD: IF YOU WOULD JUST  
4 BACK UP. I JUST PREFER TO DO THIS AS WE GO ALONG.

5 MS. BAUM: SO HERE'S MY SLIDE ON OUTCOMES.  
6 I'VE JUST ADVANCED IT TO PAGE 13 FOR THOSE WHO  
7 AREN'T IN THE ROOM HERE. HERE'S WHAT WE HAVE. WE  
8 HAVE SIX LETTERS OF SUPPORT FROM BIOPHARMAS IN THE  
9 CONTEXT OF OUR STRATEGIC PARTNERSHIP RFA'S AND OUR  
10 DISEASE TEAM III.

11 LET ME EXPLAIN WHAT A LETTER OF SUPPORT  
12 MEANS. I THINK YOU MIGHT ALL RECALL AT THE LAST  
13 MEETING I WAS SAYING WE HAVE SOME DIFFICULTY IN  
14 MAKING SURE THAT THE AGREEMENTS BETWEEN THE PHARMAS  
15 OR THE VC'S, IN PARTICULAR THE PHARMAS, AND OUR  
16 GRANTEES ARE ACTUALLY COMPLETED. WHAT WE HAVE SEEN  
17 IS THAT THEY'RE IN THE DUE DILIGENCE STAGE. THEY  
18 THINK THEY MIGHT BE INTERESTED, BUT THEY HAVEN'T  
19 WORKED OUT THE FULL NEGOTIATIONS. AND RATHER THAN  
20 SAY WAIT SIX MONTHS OR 12 MONTHS FOR THE NEXT RFA,  
21 WE SAY, OKAY, YOU CAN COME INTO THE GRANTS WORKING  
22 GROUP REVIEW IF YOU HAVE AT X DATE A GENERAL LETTER  
23 OF SUPPORT. THAT'S USUALLY OFTEN JUST THE LOI  
24 STAGE. BY Y DATE, IF YOU HAVE BEEN MAKING PROGRESS  
25 IN YOUR NEGOTIATIONS, YOU CAN COME IN AND BE

**BARRISTERS' REPORTING SERVICE**

1 REVIEWED.

2 IT'S NOW BEEN OUR POLICY THAT UNTIL THEY  
3 ACTUALLY HAVE A DEFINITIVE AGREEMENT SIGNED, WE WILL  
4 NOT BE ENTERTAINING THEM AT THE ICOC LEVEL. SO WHAT  
5 THAT MEANS, THERE'S SOME RIGHT NOW THAT ARE  
6 PROGRESSING THROUGH THE NEGOTIATIONS, AND IT DOESN'T  
7 LOOK LIKE THEY'LL HAVE A DEFINITIVE AGREEMENT FOR SP  
8 III IN THIS CIRCUMSTANCE PERHAPS BY DECEMBER. SO WE  
9 SAID, WELL, THE NEXT ICOC REVIEW, I THINK, IS IN  
10 JANUARY. AND SO THEY'RE PROBABLY SHOOTING FOR  
11 JANUARY AND HOPEFULLY THEY'LL MAKE THAT DATE. I  
12 THINK WE HAVE TO DECIDE, AND THIS IS A GOOD POINT  
13 FOR DISCUSSION, HOW LONG WE WANT THEM TO SORT OF  
14 ROLL OVER TO THE NEXT REVIEW.

15 CHAIRMAN THOMAS: ON THE ISSUE OF HAVING  
16 THEM GETTING A SIGNED, EXECUTED DOCUMENT BEFORE  
17 BRINGING IT TO THE BOARD, I ASSUME THAT'S IN  
18 RESPONSE TO THE GSK VIACYTE SEQUENCE.

19 MS. BAUM: YES. IT'S JUST BETTER FOR ALL  
20 PARTIES INVOLVED TO JUST KNOW THERE'S A DEAL AND  
21 THERE'S A DEAL AND NOT TO HAVE THIS AWARD AND THEN  
22 SPEND TIME TRYING TO NEGOTIATE OUR NGA'S AND THEN  
23 HAVE IT NOT MATERIALIZE. IT'S JUST BETTER. SO  
24 THAT'S WHY WE ADOPTED THIS.

25 AND THERE IS, OF COURSE, IF YOU WANT TO

**BARRISTERS' REPORTING SERVICE**

1 DEBATE THIS, THE OPTION TO SAY YOU DON'T HAVE A  
2 DEAL. DON'T EVEN COME IN. WE'RE NOT TAKING YOU  
3 INTO GRANTS WORKING GROUP. BUT MY PERSONAL FEELING  
4 WAS THAT MIGHT BE TOO DISCOURAGING, AND I'D RATHER  
5 WHILE THE IRON IS HOT CONTINUE TO FOSTER THESE  
6 NEGOTIATIONS. SO THAT'S WHAT WE'RE DOING.

7 SO WE'VE HAD SIX IN DIFFERENT FORMS. SOME  
8 THAT SEEM LIKE I THINK THERE'S A REALLY GOOD SHOT AT  
9 THEM TURNING INTO A DEAL. I DON'T WANT TO NAME  
10 NAMES AT THIS POINT. I DON'T THINK IT'S  
11 APPROPRIATE.

12 SO ANOTHER SUCCESS THAT I LIKE REFER TO  
13 IS, AND IT'S NOT RELATED TO OUR CURRENT EFFORTS, BUT  
14 IT OCCURRED AS THE RESULT OF A PRIOR PROGRAM WE  
15 FUNDED, AND IT'S A SITUATION WHERE WE DID, I THINK  
16 IT WAS, A COMPREHENSIVE GRANT TO STANFORD. THEY  
17 CREATED A TOOL THAT WILL SUPPORT SOME SORT OF  
18 IDENTIFICATION OF A THERAPEUTIC IN THE AREA OF  
19 HEARING LOSS, NOT HAIR, BUT HEARING LOSS. AND  
20 THAT'S SOMETHING THAT WE CAN CLAIM SUCCESS FOR.

21 AND TO BE FRANK WITH YOU, THERE'S AT LEAST  
22 TWO INSTANCES WHERE I KNOW THAT THE PROGRAM COULD  
23 HAVE BEEN TEAMED WITH A PHARMA, BUT FOR THE EITHER  
24 INABILITY TO REACH AGREEMENT ON TERMS OR THE LACK OF  
25 INTEREST AT THIS TIME IN EVEN NEGOTIATING ON THE

**BARRISTERS' REPORTING SERVICE**

1 PART OF OUR OWN GRANTEES. THEY HAVE WHAT THEY THINK  
2 IS SUFFICIENT FUNDING FROM US NOW OR IN THE FUTURE,  
3 AND SO THEY ARE LESS MOTIVATED. SO WE'VE HEARD  
4 ABOUT THAT.

5 IF YOU WANT TO HEAR ABOUT SOME OF THE  
6 DEALS THAT DIDN'T GO THROUGH AND THE REASONS, I CAN  
7 POINT TO THOSE.

8 CHAIRMAN THOMAS: ELONA, WHEN YOU SAY  
9 INABILITY TO AGREE UPON TERMS, COULD YOU ELABORATE  
10 ON THAT A LITTLE? WERE THERE ANY PARTICULAR LESSONS  
11 LEARNED AS TO WHAT WE COULD BE DOING TO TRY TO DRIVE  
12 THE CONVERSATION?

13 MS. BAUM: WELL, I THINK --

14 CHAIRMAN THOMAS: WITHOUT MENTIONING  
15 NAMES.

16 MS. BAUM: I WON'T MENTION NAMES. I JUST  
17 THINK THAT, ONE, WE NEED TO UNDERSTAND THAT WHEN WE  
18 MAKE A COMMITMENT OR WE LOOK LIKE WE'RE MAKING A  
19 COMMITMENT TO FUND, THEN IT ACTS AS A DISINCENTIVE  
20 TO GRANTEES TO GO OUT AND SEEK OTHER FUNDING BECAUSE  
21 WHAT THEY WANT TO DO IS MAKE THEIR PROGRAMS MORE  
22 VALUABLE. IF THEY CAN USE CIRM FUNDING TO GET DATA,  
23 THEN THEY THINK THEY CAN HAVE A BETTER DEAL CUT  
24 LATER ON THAN TO ACCESS IT EARLIER.

25 WHAT WE CAN DO IS MARKET.

## BARRISTERS' REPORTING SERVICE

1 DR. TROUNSON: MAKING DEALS WITH COMPANIES  
2 IN THE PAST, THEN THOSE DEALS SOMEHOW FELL APART,  
3 AND NOT REALLY BECAUSE OF THE SCIENCE, BUT BECAUSE  
4 OF THE INTEREST OF THE COMPANY. UNDER THOSE  
5 CIRCUMSTANCES, THERE ARE SOME PEOPLE WHO FEEL QUITE  
6 NEGATIVE ABOUT THAT. AND IF SO, IT'S NOT SIMPLY  
7 WANTING TO TAKE TO THE NEXT STAGE. IT'S REALLY  
8 WANTING TO MAKE SURE IT GOES THE DISTANCE.

9 MS. BAUM: I KNOW THAT'S THE THOUGHT  
10 PROCESS THERE, BUT I DO BELIEVE THERE ARE LEGAL  
11 MECHANISMS TO ADDRESS THOSE CIRCUMSTANCES. IT'S  
12 WHAT THEY CALL CLAW-BACK PROVISIONS, ETC. MAYBE  
13 THERE'S NOT A TRUE FACE IN WORKING THOSE CLAW-BACK  
14 PROVISIONS, BUT THEY'RE PRETTY COMMON THESE DAYS. I  
15 DON'T KNOW. I HOPE THAT IF WE COULD DO ONE THING IS  
16 TO EXPLAIN THAT CIRM WILL DO EVERYTHING IN ITS POWER  
17 TO MAKE SURE THAT SOMETHING DOESN'T SIT ON A SHELF  
18 AT A PHARMA COMPANY ONCE IT GOES THERE. AND WE CAN  
19 EXPLORE WAYS ON HOW TO DO THAT.

20 CHAIRMAN JUELSGAARD: ALAN, I TAKE WHAT  
21 YOU SAY, AND I THINK THAT CONCERN OF SOMETHING JUST  
22 GETS SHUNTED ASIDE AND DOESN'T SEE THE LIGHT OF DAY  
23 IS A LEGITIMATE CONCERN ON THE PART OF YOUNGER  
24 COMPANIES. HAVING SAID THAT, I THINK HOW BIG OF A  
25 ROLE IT PLAYS OBVIOUSLY IS A MATTER OF DEBATE, BUT

**BARRISTERS' REPORTING SERVICE**

1 THERE IS A DISINCENTIVE FOR SEEKING OTHER SOURCES OF  
2 FUNDING ONCE CIRM PROVIDES THE MONEY. IT'S JUST A  
3 BY-PRODUCT. THERE'S NOTHING NECESSARILY WRONG WITH  
4 THAT, BUT IT'S JUST OBSERVATIONAL IN NATURE.

5 DR. TROUNSON: YOU CAN ALWAYS DEBATE ABOUT  
6 WHAT IT IS. I THINK IN THIS ONE CIRCUMSTANCE THAT I  
7 KNOW, IT'S A PRETTY STRONGLY HELD VIEW THAT I WANT  
8 TO SEE IT GO TO A POINT WHERE THERE'S A REAL OPTION  
9 FOR IT TO GO INTO PATIENTS. AND THAT'S A GENUINE  
10 FEELING. SO AT LEAST IN ONE CIRCUMSTANCE THAT'S A  
11 VERY STRONG POSITION, AND THAT POSITION HAS BEEN PUT  
12 TO US IN WHITE PAPER. SO IT MAY WELL BE SEEN EITHER  
13 WAY. AND IT'S NOT THAT THOSE PARTIES ARE NOT  
14 INTERESTED IN COMMERCIALIZING. THEY WANT TO MAKE  
15 SURE THAT THERE'S A VERY STRONG CHANCE IT GOES TO  
16 PATIENTS.

17 MS. BAUM: THE OTHER CIRCUMSTANCE WAS THEY  
18 WERE OFF BY MAGNITUDES OF DIFFERENCE. IT WAS JUST  
19 ONE PARTY VALUATING THE ASSET DIFFERENTLY THAN THE  
20 OTHER PARTY. I DON'T KNOW WHAT WE CAN DO ABOUT  
21 THAT.

22 CHAIRMAN JUELSGAARD: BEFORE YOU GO ON TO  
23 THIS SLIDE, WHY DON'T I APOLOGIZE FOR HAVING  
24 INTERRUPTED JUST TO SPEAK ABOUT THE STRATEGIC  
25 PARTNERSHIP INITIATIVE AND HOW WELL IT WAS WORKING.



**BARRISTERS' REPORTING SERVICE**

1 AND THE ANSWER THAT I HEARD YOU GIVE IS WE DON'T  
2 HAVE ANY YET. WE POTENTIALLY HAD ONE LAST FALL WITH  
3 GSK. THAT DIDN'T WORK OUT. YOU'VE GOT SEVERAL  
4 POTENTIALS IN THE HOPPER RIGHT NOW AND WE'LL SEE HOW  
5 THEY PROGRESS NEXT YEAR.

6 BUT IF YOU GO BACK UP AND GO TO THE SLIDE  
7 YOU WOULD HAVE PROCEEDED TO NEXT, JUST KIND OF TALK  
8 ABOUT THE ACTIVITIES OUTSIDE OF THE PROGRAMS, SOME  
9 OF THE MORE INFORMAL APPROACHES, AND THEN WE CAN  
10 KIND OF CATCH UP TO THE REACTION OF PHARMA THAT YOU  
11 WERE GOING TO GET TO.

12 MS. BAUM: GREAT. ALL RIGHT. SO SOME OF  
13 THE OTHER ACTIVITIES THAT WE DO, GOING BACK TO THE  
14 CREATION OF LINKAGES, IS WE SPEND A LOT OF TIME, AT  
15 LEAST WE HAVE LAST YEAR, AT THE MEETING STAGE,  
16 IDENTIFYING OURSELVES TO ALL THE SCOUTS, LETTING  
17 THEM KNOW WHAT OUR PORTFOLIO IS ABOUT, UNDERSTANDING  
18 WHERE THEIR PRIORITIES WERE, AND THEN HANDPICKING  
19 SPECIFIC ONES THAT MATCHED THEIR AREAS OF INTEREST,  
20 AND THEN FOLLOW-UP, FOLLOW-UP, FOLLOW-UP.

21 AND WHAT WE HAVE DONE IN THE PAST IS WE  
22 TARGET THOSE CONFERENCES WHERE THEY HAVE EXTENSIVE  
23 WHAT THEY CALL 360 OR ONE-ON-ONE PARTNERING  
24 ACTIVITIES. IT'S A HUGE FACILITY CONFERENCE ROOM  
25 THAT HAS TINY LITTLE ROOMS. THEY MUST HAVE A

**BARRISTERS' REPORTING SERVICE**

1 HUNDRED OR SO ROOMS. AND YOU GO THROUGH THE WHOLE  
2 PARTNERING PROCESS, HALF HOUR EACH, ALL DAY LONG.  
3 PEOPLE PROBABLY SEE MANY, MANY, MANY DIFFERENT  
4 PEOPLE DURING THE COURSE OF THE DAY. AND NEIL  
5 LITTMAN, BY THE WAY, HAS BEEN FUNDAMENTAL IN HELPING  
6 WITH THAT AND EXECUTING ON THAT.

7 AND SO I REPORTED THIS LAST MAY, BUT WHAT  
8 WE'VE DONE IS WE ENGAGED IN 121 SEPARATE LINKAGES,  
9 WHICH INCLUDE THE INITIAL MEETING WITH AN INDIVIDUAL  
10 SCOUT PLUS THE FOLLOW-UPS. THOSE HAVE TRANSLATED TO  
11 26 ACTUAL MEETINGS BETWEEN THE GRANTEES AND THE VC  
12 OR PARTNER. SO AT LEAST IT SORT OF BROUGHT THEM TO  
13 OUR GRANTEES. AND THEN NOW WE HAVE THESE SIX  
14 LETTERS OF SUPPORT THAT ARE MAKING THEIR WAY  
15 THROUGH. MAYBE A COUPLE OF THEM WILL MAKE IT TO THE  
16 END.

17 CHAIRMAN JUELSGAARD: BEFORE YOU MOVE ON,  
18 SO IN THE SLIDE YOU HAD BEFORE WITH THE NUMBER OF  
19 THESE CONFERENCES, SO YOU CAN BE ONE OF TWO PLAYERS  
20 IN THIS KIND OF SETTING. TAKE JP MORGAN FOR  
21 EXAMPLE. YOU CAN BE THE PERSON OF WHOM A MEETING IS  
22 REQUESTED BY SOMEBODY ELSE OR YOU CAN REQUEST A  
23 MEETING. AND SO AT JP MORGAN, FOR EXAMPLE, WHICH  
24 ROLE DID WE PLAY?

25 MS. BAUM: BOTH. SOME PEOPLE CAME TO US.

**BARRISTERS' REPORTING SERVICE**

1 SOME OF THOSE PEOPLE THAT CAME TO US WERE ACTUAL  
2 COMPANIES THAT WANTED OUR FUNDING ADMITTEDLY. SOME  
3 PEOPLE THAT CAME TO US WERE OTHER FUNDING AGENCIES  
4 THAT WANTED TO COLLABORATE, ISRAEL FOR ONE. AND  
5 THEN WE WERE PRETTY MUCH THE AGGRESSORS WHEN IT CAME  
6 TO MEETING WITH THE DIFFERENT PHARMAS.

7 CHAIRMAN JUELSGAARD: JUST TAKE, AGAIN, JP  
8 MORGAN IS PROBABLY THE BIGGEST OF THESE, AND WHAT'S  
9 THE BROADEST AMOUNT OF ORGANIZATIONS PARTICIPATING  
10 AT LEAST?

11 MS. BAUM: WAS IT 15?

12 MR. LITTMAN: I THINK SO. AT JP MORGAN,  
13 FOR INSTANCE, I THINK WE HAD 26.

14 CHAIRMAN JUELSGAARD: YOU ASKED TO MEET  
15 WITH 26 PHARMAS?

16 MR. LITTMAN: WE HAD 26 MEETS. SOME OF  
17 THOSE WE REQUESTED, AND SOME WERE REQUESTED OF US.

18 CHAIRMAN JUELSGAARD: HOW MANY DID WE  
19 REQUEST? AND WITHOUT NAMING NAMES, WHO WERE THEY  
20 GENERALLY WITH?

21 MR. LITTMAN: SO THE ONES THAT WE  
22 REQUESTED, I DON'T HAVE THE EXACT NUMBER, BUT IT WAS  
23 PROBABLY ABOUT HALF THAT. AND OF THOSE IT WAS  
24 MOSTLY MAJOR WHAT WE CALL BIG PHARMA COMPANIES WERE  
25 IN ATTENDANCE.

## BARRISTERS' REPORTING SERVICE

1 MS. BAUM: JP MORGAN IS A LITTLE DIFFERENT  
2 TOO. THAT ONE, IT'S NOT ONE LIKE IT'S ONE OF THESE  
3 HUGE CONFERENCE HALLS THAT ARE SET UP ELECTRONICALLY  
4 TO DO THIS. LIKE EVERY SINGLE MAJOR PHARMACEUTICAL  
5 COMPANY RENTS OUT SPACE IN A HOTEL, AND THEN THEY DO  
6 IT. IT'S A LITTLE MORE WORK TO ORGANIZE, AND IT'S A  
7 LITTLE MORE EFFORT TO GO FROM HOTEL TO HOTEL TO  
8 HOTEL AS OPPOSED TO THESE TIMED ONES EVERY 30  
9 MINUTES. WE COULD GET MORE DATA.

10 AND THAT'S MY NEXT POINT WITH THIS SLIDE  
11 IS WE'RE TRACKING, AND SO I CAN GET YOU REPORTS  
12 BECAUSE WE ACTUALLY HAVE PURCHASED SALES FORCE,  
13 WHICH ALLOWS US TO TRACK EVERY SINGLE ENGAGEMENT  
14 THAT WE HAVE. WE HAVE TO REMIND OURSELVES TOO  
15 BECAUSE WE'RE NOT JUST SAYING, HEY, HERE WE ARE AND  
16 HERE'S OUR PORTFOLIO. WE ACTUALLY ARE TRACKING THE  
17 SPECIFIC PROGRAMS. WHAT THEY SAID THEY LIKED AND  
18 THEN WE KEEP FOLLOWING UP. WE DON'T WANT TO BE  
19 PESTERING THEM, BUT WE DON'T WANT TWO MONTHS TO GO  
20 BY OR THREE MONTHS TO GO BY WITH US HANDING OUT SOME  
21 NONCONFIDENTIAL INFORMATION AND NOT GETTING RESPONSE  
22 BACK. SOMETIMES YOU HAVE TO JUST SORT OF SHAKE THE  
23 TREE A LITTLE BIT. SO WE'VE BEEN TRACKING THAT.

24 AND THIS PARTICULAR EXAMPLE THAT YOU SEE  
25 BEFORE YOU ON THE SLIDE DOESN'T HAVE A LOT OF THE

**BARRISTERS' REPORTING SERVICE**

1 CONFIDENTIAL INFORMATION, BUT THE NAME OF WHO WE  
2 SPOKE TO AND EXACTLY WHAT THEY WANTED AND EXACTLY  
3 WHAT WE SENT THEM HAS BEEN ALL TRACKED THROUGH SALES  
4 FORCE.

5 ARE WE READY TO SPEAK ABOUT OTHER  
6 APPROACHES IN ADDITION TO THESE?

7 CHAIRMAN JUELSGAARD: GO AHEAD.

8 MS. BAUM: OTHER TOOLS THAT WE HAVE  
9 AVAILABLE TO US ARE, FOR INSTANCE, WHAT WE HAVE SEEN  
10 IN DISEASE TEAM III. AGAIN, IT'S CREATING  
11 INCENTIVES. BY INCENTIVES I MEAN REQUIRING THAT  
12 PI'S ACTUALLY HAVE TO GET SOME SORT OF FUNDING. AND  
13 IN DISEASE TEAM III WE REQUIRED THAT ANTIBODIES AND  
14 SMALL MOLECULES PROVIDE 25 PERCENT OF THE FUNDING  
15 FOR A CLINICAL TRIAL. I CAN TELL YOU RIGHT NOW THAT  
16 BUT FOR THAT REQUIREMENT, ONE OF THESE SIX LETTERS  
17 OF SUPPORT THAT ARE MAKING THEIR WAY THROUGH THE  
18 PROCESS WOULD NEVER HAVE OCCURRED. AND SO IT  
19 CREATES AN INCENTIVE AT LEAST TO GET PEOPLE  
20 THINKING.

21 AND I UNDERSTAND THAT IT'S KIND OF LIKE A  
22 GAME OF CHICKEN BECAUSE YOU DON'T WANT TO SET THESE  
23 REQUIREMENTS, ESPECIALLY FOR THE CELLULAR COMPANIES  
24 MAYBE, AND THEN NOT BE ABLE TO ATTRACT THE FUNDING  
25 AND THEN WHERE ARE YOU. SO I THINK WE ACTUALLY HAVE

## BARRISTERS' REPORTING SERVICE

1 A GOOD SORT OF BALANCE AT LEAST VIS-A-VIS HOW WE  
2 HANDLE DISEASE TEAM III.

3 ANOTHER WAY WE DID IT SO WE COULD BE MORE  
4 PROACTIVE IS WE CREATED A VC MEET-UP DAY. THIS IS  
5 AGAIN -- AND PHARMA WAS INVITED TOO -- TO GET THEM  
6 ACTUALLY IN FRONT OF OR GET OUR GRANTEES IN FRONT OF  
7 SOME OF THE KEY POTENTIAL INVESTORS. WE DID IT HERE  
8 RIGHT IN THIS SPACE, VERY INFORMAL. RAVE REVIEWS.  
9 THEY ALL LOVE IT. THE VC'S THAT CAME AND THE PHARMA  
10 REPRESENTATIVES SAID, "GEE, I'D LIKE TO DO THIS AT  
11 LEAST ONCE A YEAR," AND MAYBE WE'LL DO IT TWICE A  
12 YEAR.

13 CHAIRMAN THOMAS: DO WE HAVE A WAY TO  
14 TRACK THE DISCUSSIONS AND WHAT HAPPENED AS A RESULT  
15 OF THAT?

16 MS. BAUM: WE CAN SEND OUT BASICALLY A  
17 QUESTIONNAIRE AND ASK THEM.

18 CHAIRMAN THOMAS: IT WOULD BE NICE TO KNOW  
19 BECAUSE THAT TELLS YOU IF IT WAS, IN FACT, A  
20 PRODUCTIVE UNDERTAKING.

21 MS. BAUM: RIGHT. I GUESS YOU HAVE TO  
22 REALLY DESCRIBE AND AGREE ON WHAT'S PRODUCTIVE. SO  
23 IF THEY SAID I LIKED IT, BUT RIGHT NOW THEY DIDN'T  
24 SIGN A CDA, DOES THAT MEAN IT'S UNPRODUCTIVE? PART  
25 OF THIS IS SORT OF JUST GETTING THE TEAMS KNOWING

## BARRISTERS' REPORTING SERVICE

1 ONE ANOTHER, GETTING THEM, EVEN IF THEY WATCH FOR A  
2 YEAR OR TWO, AT LEAST IT'S ON THEIR RADAR SCREEN AND  
3 THEY MIGHT HAVE A HELPFUL COMMENT OR TWO. I THINK  
4 WE NEED TO DISCUSS THAT.

5 CHAIRMAN JUELSGAARD: I AGREE WITH J.T. I  
6 THINK IT WOULD BE GREAT TO FOLLOW UP WITH EACH OF  
7 THE SEVEN CIRM TEAMS AND SAY YOU ALL PRESENTED HERE  
8 IN THIS ROOM SEVERAL MONTHS AGO. THERE WERE 16  
9 VENTURE CAPITAL FIRMS THAT WERE IN ATTENDANCE. DID  
10 ANY OF YOU RECEIVE ANY FOLLOW-UP FROM ANY OF THOSE  
11 VC'S? IF SO, HOW MANY? AND WHAT WAS THE SUBSTANCE  
12 OF THE DISCUSSIONS AND WHERE DID THEY LEAD? I THINK  
13 GATHERING THAT DATA IS JUST HELPFUL FOR US TO KNOW.  
14 IF THERE'S SOME ADDITIONAL ROLE THAT WE CAN PLAY IN  
15 HELPING FACILITATE THINGS, AT LEAST KIND OF KNOWING  
16 THE OUTCOME WOULD BE REALLY GREAT.

17 DR. TROUNSON: ONE OF THE ISSUES THAT HAS  
18 JUST SHOWN UP IN A DISEASE TEAM REVIEW THAT YOU WERE  
19 AT IS THAT THE RISK PERCEIVED FOR THE CELL THERAPIES  
20 IS A MUCH BIGGER RISK THAN MONOCLONAL ANTIBODIES OR  
21 MOLECULES. SO I SEE OVER AND OVER AGAIN A KIND OF  
22 RELUCTANCE TO GO TOO FAR INTO ANY PROJECTS OF CELL  
23 THERAPY UNTIL SOMETHING STARTS TO REALLY WORK. AND  
24 YOU GET THIS THE HIGHER UP THE CHAIN YOU GO IN THOSE  
25 COMPANIES.

## BARRISTERS' REPORTING SERVICE

1 SO OFTEN YOU'VE GOT THE REPRESENTATIVES  
2 WHO COME TO THESE MEETINGS WHO REALLY THINK THAT'S  
3 GREAT. BUT IF YOU MOVE IT UP THE CHAIN SOME  
4 DISTANCE, YOU FIND, WELL, WHAT'S THE EXAMPLE?  
5 WHAT'S THE EXAMPLE OF THIS WORKING IN ANOTHER  
6 CONTEXT? SO LIKE THAT GRANTS REVIEW, IT'S KIND OF  
7 EASY TO GET AN ACCELERANT MARK BECAUSE YOU CAN SEE  
8 WHERE YOU'RE GOING AND YOU CAN SEE THAT MAYBE THIS  
9 WILL GET CONNECTED SOMETIME RELATIVELY SOON WHERE  
10 THE OTHERS, IT'S TOWING THE WATER APPROACH, A LITTLE  
11 BIT OF FUNDING, BUT NOT SORT OF CONVINCINGLY SORT OF  
12 GETTING THERE.

13 BUT I THINK IT'S CHANGING, BUT IT WOULD BE  
14 REALLY HELPFUL IF WE WERE ABLE TO SHOW SOME VERY  
15 EFFECTIVE THERAPIES THAT COME FROM THE KIND OF  
16 THINGS THAT WE'RE FUNDING. WE'RE NOT FUNDING THE  
17 SORT OF SIMPLE MSC-TYPE APPROACH, BUT SOME COMPANIES  
18 ARE FUNDING MESOBLASTS OR SUPPORTING MESOBLASTS, BUT  
19 YOU'VE GOT SOME ACTIVITY. THAT'S NOT WHERE WE'VE  
20 REALLY BEEN. WE'RE DEALING WITH MUCH MORE WITH  
21 COMPLICATED THERAPIES THAT REALLY HAD MECHANISMS  
22 BEHIND THEM; WHEREAS, A LOT OF THE OTHER STUFF OUT  
23 THERE BEFORE (UNINTELLIGIBLE) BUT IS BEING SUPPORTED  
24 NEVERTHELESS.

25 SO IT'S A SORT OF PLAYS GAME IN A WAY, AND



## BARRISTERS' REPORTING SERVICE

1 SO WE CAN GET THEM INTERESTED OFTEN; BUT TO GET IT  
2 CONVERTED TO ACTUALLY PUTTING MONEY OR A SUBSTANTIAL  
3 AMOUNT OF MONEY, SOMETIMES IT'S A LITTLE AMOUNT OF  
4 MONEY, BUT NOT A SUBSTANTIAL AMOUNT OF MONEY UNTIL  
5 WE GET SOME POSITIVES. THAT'S WHAT WE'RE TOLD.

6 CHAIRMAN THOMAS: ON THE POINT YOU RAISED,  
7 ALAN, WE'VE BEEN BURNED NOW BY DEALING WITH PHARMA  
8 AT A LEVEL THAT WASN'T SUFFICIENTLY HIGH IN TERMS OF  
9 WHO THE DECISION MAKERS ARE. SO HOW DO WE TRY TO  
10 CORRECT THAT SO THAT PEOPLE DON'T SPIN THEIR WHEELS,  
11 WHICH WE SPUN QUITE A LOT IN THAT PARTICULAR  
12 INSTANCE.

13 DR. TROUNSON: SOME COMPANIES, ELONA HAS  
14 SORT OF DESCRIBED SOME OF THEM, HAVE GOT A MORE  
15 POSITIVE ATTITUDE. J & J, THEY'RE COURTING THE  
16 WATER A BIT MORE THAN OTHER COMPANIES. BUT EVEN  
17 WITH VIACYTE, THEY'RE SORT OF ADDING TO IT RATHER  
18 THAN SORT OF -- THE REAL THING THERE, THEY SHOULD  
19 TAKE IT OVER. THAT WOULD BE GOOD SENSE, I WOULD  
20 HAVE THOUGHT, BECAUSE THEY'VE GOT A COMPANY ANYWAY  
21 THAT'S DOING THAT, AND IT WOULD MAKE REALLY GOOD  
22 SENSE, BUT THEY HAVEN'T DONE THAT YET. SO WHILE  
23 THEY'RE A REALLY INTERESTED COMPANY, PFIZER IS  
24 ANOTHER, BUT PFIZER HAS BEEN CUTTING BACK IN SOME  
25 PLACES IN REGENERATIVE MEDICINE PROGRAMS IN THE UK

## BARRISTERS' REPORTING SERVICE

1 AND BUILDING THEM SOME OTHER PLACE. SO IT'S A BIT  
2 HARD TO FOLLOW THEM.

3 WHERE YOU GET A VERY STRONG POSITIVE, FOR  
4 EXAMPLE, THE GROUP I WAS TALKING TO YOU THIS MORNING  
5 WITH, THEY'VE GOT A VERY STRONG POSITIVE FROM ONE OF  
6 THE DECISION MAKERS THAT'S REALLY AT THE TOP, WANTS  
7 TO BE IN THIS, AND IS LOOKING FOR DOING SOMETHING  
8 PERHAPS WITH A MAJOR ENTITY, BUT NOT NECESSARILY  
9 PUTTING THEIR MONEY IN A UNIVERSITY. OFTEN THEY'LL  
10 JUST PUT IT IN HARVARD AND HOPE SOMETHING COMES  
11 THROUGH, BUT THEY WANT TO DO SOMETHING MORE.

12 SO YOU HAVE TO GET TO THOSE PEOPLE, I  
13 THINK. SO YOU HAVE TO BE LISTENING. YOU HAVE TO BE  
14 AWARE. I THINK YOU HAVE TO GO, YOU HAVE TO TRY AND  
15 FIND OUT WHEN THE DECISION MAKERS ARE STARTING TO  
16 SORT OF CHANGE THEIR MIND. AND I THINK THEY'LL  
17 CHANGE THEIR MIND AS MORE EXAMPLES HAPPEN, OR YOU'LL  
18 GET A KIND OF RENEGADE WHO THINKS THIS IS GOING TO  
19 BE A GOOD FIELD AND IS GOING TO GO THERE, AND YOU  
20 HAVE TO LINK UP WITH THEM. I FEEL THAT YOU GOT TO  
21 GO FOR THE TOP, AS CLOSE TO THE TOP OF THE DECISION  
22 MAKERS AS YOU CAN GO, BUT IT'S NOT EASY TO GET TO  
23 THE TIME UNLESS THEY'RE REALLY INTERESTED, UNLESS  
24 THEY'RE INTERESTED.

25 CHAIRMAN JUELSGAARD: THIS IS JUST TO

**BARRISTERS' REPORTING SERVICE**

1 ADDRESS YOUR QUESTION, J.T., FROM MY POINT OF VIEW.  
2 I THINK THIS IS ALWAYS ONE OF THE ISSUES OR CONCERNS  
3 THAT YOU HAVE TO DEAL WITH; BUT AT THE END OF THE  
4 DAY, A DEAL WHICH IS BEING HEAVILY SUPPORTED BY THE  
5 SCIENTIFIC PEOPLE AND BY THE BUSINESS DEVELOPMENT  
6 PEOPLE WITHIN AN ORGANIZATION, ULTIMATELY THE PLUG  
7 GETS PULLED. AND THERE ARE A LOT OF REASONS THAT  
8 THAN CAN HAPPEN. AND ONE OF THEM, WHICH MAY HAVE  
9 HAPPENED IN THIS CASE, I DON'T KNOW, IS BUDGETARY IN  
10 NATURE.

11 IN THE FALL, THAT'S WHEN COMPANIES ARE  
12 ESTABLISHING THEIR BUDGETS FOR THE COMING YEAR. AND  
13 THEY'RE LOOKING AT AT THE END OF THE DAY WHAT THEIR  
14 BOTTOM LINE NEEDS TO BE, AND THEY'RE LOOKING AT  
15 THEIR REVENUE FORECASTS. THEY'VE GOT THEIR EXPENSE  
16 FORECAST. IF THEY'RE NOT LINING UP WITH WHERE THEIR  
17 EPS OR THE REVENUES TO BE FOR THE COMING YEAR, THEN  
18 THINGS START GETTING WHACKED. AND WHAT THEY TEND TO  
19 DO IS WHACK SOME OF THE RISKIEST ONES FIRST.

20 SO IT'S ONE OF THOSE VAGARIES. I'M NOT  
21 SUGGESTING THAT THAT'S NECESSARILY WHAT HAPPENED  
22 HERE. THERE'S NOTHING YOU CAN PREVENT. WE CAN DO  
23 ALL THE WORK AND SEEMINGLY BE ON THE RIGHT COURSE,  
24 AND THAT COULD JUST COME AT YOU OUT OF LEFT FIELD.  
25 SO THERE ARE A LOT OF REASONS. ALL YOU CAN REALLY

**BARRISTERS' REPORTING SERVICE**

1 DO IS TRY. IF YOU'VE GOT STRONG SCIENTIFIC SUPPORT  
2 AND BD SUPPORT, BUSINESS DEVELOPMENT SUPPORT, WITHIN  
3 AN ORGANIZATION, AND THEN ULTIMATELY IT WILL WORK  
4 ITS WAY UP THE CHAIN. THERE'S GOING TO BE A SENIOR  
5 MANAGEMENT GROUP IN A LOT OF ORGANIZATIONS THAT WILL  
6 APPROVE THESE DEALS ONCE THEY GET WORKED UP BY THE  
7 BD AND SCIENCE PEOPLE, AND DECISIONS WILL BE MADE  
8 THERE. BUT THERE'S ALWAYS THIS POSSIBILITY THAT  
9 EVEN A MUCH MORE SENIOR EXECUTIVE WOULD NIX THEM FOR  
10 SOME OTHER EXTRANEIOUS REASON THAT WE'RE NOT AWARE  
11 OF.

12 DR. TROUNSON: IN THE CASE THAT ELONA  
13 REALLY HELPED WAS THE DUE DILIGENCE DONE ON TWO OF  
14 OUR LEADING PROJECTS WHICH CAME THROUGH THE DUE  
15 DILIGENCE PROCESS VERY, VERY WELL EXCEPT FOR A  
16 COUPLE OF MINOR ISSUES, THINGS THAT HAD TO BE FIXED  
17 ON THE IP, BUT THE REST OF IT WAS A VERY GOOD  
18 REPORT. TWO WEEKS, 20 PEOPLE FROM ONE OF THESE  
19 COMPANIES LOOKING AND GIVING IT A BIG STRONG KICK,  
20 BOTH OF THOSE. I THINK THAT DOES A LOT OF GOOD. I  
21 THINK THAT'S GOOD FOR US, IT'S GOOD FOR THE  
22 PROGRAMS, AND IT WILL EVENTUALLY BE GOOD, AS WE GO  
23 FORWARD, TO HAVE THAT KIND OF KICK GOING. BUT IT  
24 DIDN'T CONVERT. I THINK, AS YOU SAID, IT WAS SOME  
25 OTHER DECISION THAT WAS RISK VERSUS WHATEVER IT WAS,

**BARRISTERS' REPORTING SERVICE**

1 BUT IT WAS DONE RIGHT AT THE TOP. AND UNLESS YOU'RE  
2 SITTING IN THE ROOM, I DOUBT YOU COULD HAVE CHANGED  
3 ANYTHING.

4 DR. DULIEGE: IF I COULD MAKE A COMMENT AT  
5 THIS POINT.

6 CHAIRMAN JUELSGAARD: SURE. GO AHEAD,  
7 ANNE-MARIE.

8 DR. DULIEGE: ONE THING ABOUT THE  
9 DISCUSSION. I RECENTLY ATTENDED A CMO, CHIEF  
10 MEDICAL OFFICER'S, MEETING, GET-TOGETHER, CONFERENCE  
11 WHERE WE HAD A CHANCE TO HAVE A VERY INFORMATIVE  
12 PANEL ON BUSINESS DEVELOPMENT. AN INDUSTRY PANEL  
13 ESSENTIALLY ADVISES FOR CMO. AND THERE WERE HIGH  
14 LEVEL BUSINESS DEVELOPMENT, BUT CELGENE, FOR  
15 INSTANCE, PFIZER AS FAR AS I RECALL. REALLY GOOD  
16 DISCUSSIONS ON HOW TO REACH OUT TO THESE PEOPLE  
17 FIRST AND THEN CONTINUE THE LEVEL OF DISCUSSION,  
18 BEING AWARE THAT AT SOME POINT PUSHING IT TOO MUCH  
19 MAY BE DETRIMENTAL. ALTHOUGH THERE ARE SPECIFIC  
20 INSTANCES WHERE IF WE KNOW PEOPLE AT THE TOP, AT  
21 LEAST MAKING A CONTACT THERE CAN HELP. AND I'M SURE  
22 CIRM WILL CONTINUE. MANY OF US DO KNOW PEOPLE AT  
23 THE TOP THAT COULD HELP A LITTLE BIT IN A SOMEWHAT  
24 MEASURED FASHION.

25 BUT THE TWO AREAS I KNOW CIRM HAS ALREADY

## BARRISTERS' REPORTING SERVICE

1 HELPED AND SHOULD CONTINUE TO HELP THE GRANTEES IS,  
2 ONE, IN THE QUALITY OF THE PRESENTATION. CLEARLY  
3 ONE OF THE KEY MESSAGES I HEARD WAS THAT A LOT OF  
4 THE WEIGHT FOR FUTURE DECISION WILL BE MADE ON THE  
5 QUALITY OF THE HIGHEST SCIENTIFIC PERSON, I DON'T  
6 KNOW IF IT'S A CHIEF MEDICAL OFFICER OR EQUIVALENT.  
7 AND WHETHER THAT PERSON HAS A LOT OF CREDIBILITY  
8 CARRIES SOME WEIGHT AND KNOWS THE PROJECTS IN AND  
9 OUT. SO THAT WAS NO. 1.

10 AND NO. 2, IN TERMS FOLLOWING UP, I'M SURE  
11 CIRM CAN CONTINUE TO HELP PEOPLE WITH THE RIGHT WAY  
12 TO FOLLOW UP WITH PEOPLE. I'M SURE SOME OF THE  
13 SMALL COMPANIES, SMALL GRANTEES EITHER DO NOT FOLLOW  
14 UP AT THE RIGHT TIME OR IN THE RIGHT WAY FOR A  
15 VARIETY OF REASONS, WHETHER IT'S TIME OR LACK OF  
16 EXPERIENCE. BUT THAT PART IS CERTAINLY AN AREA  
17 WHERE CIRM HAS HELPED AND SHOULD CONTINUE TO DO SO  
18 AT EARLY STAGE.

19 CHAIRMAN JUELSGAARD: THANK YOU,  
20 ANNE-MARIE. I THINK THOSE WERE GREAT OBSERVATIONS.

21 ANY OTHER QUESTIONS OF ELONA WHILE SHE'S  
22 RECOVERING HER PRESENTATION?

23 CHAIRMAN THOMAS: WERE THERE, I'M SURE  
24 THERE WERE, SINCE IT'S NEVER POSSIBLE TO GET  
25 EVERYBODY YOU WANT TO COME, BUT WERE THERE ANY

**BARRISTERS' REPORTING SERVICE**

1 NOTABLE VC'S THAT YOU WEREN'T ABLE TO GET TO THAT  
2 MEETING THAT YOU'D LIKE TO GET MORE INTO THE LOOP?  
3 IF SO, HOW DO WE DO THAT?

4 MS. BAUM: I THINK THIRD ROCK, THEY WERE  
5 THERE. WE WOULD LOVE -- ATLAS. I DIDN'T REALIZE  
6 THAT NESSON SAID HE WOULD HAVE FLOWN OUT FOR THAT  
7 EVENT. I THINK IT WOULD HAVE BEEN GREAT TO HAVE  
8 PEOPLE FROM ATLAS THERE. I THINK WE GOT A REALLY  
9 GOOD TURNOUT FOR A MONDAY. AND I THINK THAT,  
10 BECAUSE A LOT OF THEM HAVE THEIR MEETINGS ON MONDAY  
11 MORNINGS, AND WE DID THIS MONDAY AFTERNOON, BUT THEY  
12 WERE VERY WILLING TO COME, AND I THINK THAT WAS A  
13 GOOD SIGN.

14 DR. TROUNSON: I THINK ALSO THE  
15 PRESENTATIONS AT THE STEM CELLS ON THE MESA MEETING,  
16 THE GRANTEES, OUR GRANTEES, REALLY STOOD OUT. AND  
17 MAYBE SOME OF THOSE OTHER COMPANIES DIDN'T REALLY  
18 PERFORM AS WELL FOR ALL SORTS OF DIFFERENT REASONS.  
19 OUR PEOPLE, I THINK, REALLY DID STAND OUT.

20 MS. BAUM: SO ANOTHER EVENT THAT WE  
21 PARTICIPATED IN AND WE ACTUALLY HELPED DEVELOP WITH  
22 THE ALLIANCE FOR REGENERATIVE MEDICINE WAS AN  
23 INVESTOR DAY IN NEW YORK. IN THAT CIRCUMSTANCE MOST  
24 OF THE PITCHES, SO TO SPEAK, WERE MADE BY COMPANIES,  
25 BUT WE HAD THREE OF OUR FOR-PROFIT GRANTEES PITCH AS

## BARRISTERS' REPORTING SERVICE

1 WELL OUT THERE. AND THAT WAS THE FIRST TIME THAT  
2 ARM ACTUALLY ENDEAVORED TO DO AN INVESTOR DAY, AND  
3 ACTUALLY THEY WERE SPILLING OUT OF THE ROOM. SO IT  
4 DREW A GOOD AUDIENCE. SO I THINK THAT WAS VERY  
5 ENCOURAGING.

6 AND LAST, BUT NOT LEAST, ONE OF THE OTHER  
7 THINGS THAT WE HAVE BEEN DOING AND WE WOULD LIKE TO  
8 INCREASE EFFORT IN IS WHAT I SORT OF CATEGORIZE AS  
9 MENTORSHIP OPPORTUNITIES. BUT THEY'RE ABOUT  
10 IMPROVING THE PITCHES OF THE DIFFERENT GRANTEES.  
11 AND, IN FACT, NEIL TODAY MET WITH ONE OF OUR  
12 GRANTEES IN PREPARATION FOR STEM CELL MEETING ON THE  
13 MESA TO GO OVER HER PRESENTATION. AND THAT'S JUST  
14 THE FIRST STEP.

15 IN ADDITION, WE'VE GOT TWO VC'S THAT ARE  
16 GOING TO JUDGE, SO TO SPEAK, AND GIVE COMMENTARY  
17 BEFORE THEY ACTUALLY GO AND DO THE PRESENTATION IN  
18 OCTOBER. SO WE'RE TRYING TO CREATE MORE OF THESE  
19 INFORMAL OR FORMAL PANELS OF MENTORS THAT WILL GO  
20 OUT AND HELP THESE TEAMS. AND THERE'S SOME  
21 ADDITIONAL IDEAS THAT WE COULD TALK ABOUT ON HOW TO  
22 DO THAT LIKE ENTREPRENEURS IN RESIDENCE. WOULDN'T  
23 THAT BE GREAT IF EACH GRANTEE TEAM COULD ATTRACT  
24 ONE? IT'S HARD TO DO ESPECIALLY FOR NON-PROFITS  
25 BECAUSE THEY USUALLY WORK FOR EQUITY AND THERE'S NO



## BARRISTERS' REPORTING SERVICE

1 EQUITY THERE. BUT SOME OF THE UNIVERSITIES ARE NOW  
2 GETTING POSITIONS SUCH AS THOSE AND MAYBE THAT COULD  
3 HELP OUR GRANTEES.

4 SO LET ME TALK A LITTLE BIT ABOUT SOME OF  
5 THE THINGS. I STARTED TALKING ABOUT WHAT WE'VE  
6 HEARD FROM PHARMA, HAVE ALLUDED TO IT, BUT SOME HAVE  
7 SAID, AFTER DOING A DUE DILIGENCE IS, "OH, WE'LL  
8 WAIT FOR THE PHASE I DATA, THANK YOU. IT'S RISKY  
9 AND WE LIKE THE PROJECT, BUT WE'LL TAKE OUR CHANCES  
10 THAT YOU'LL FUND IT, AND LET'S WAIT AND SEE WHAT  
11 HAPPENS."

12 ANOTHER COMPANY, I DON'T THINK THEY QUITE  
13 UNDERSTOOD, THEY'RE OBVIOUSLY NOT ENGAGED AS MUCH IN  
14 CELL THERAPY, THEY WERE CONCERNED ABOUT THE  
15 HETEROGENEITY OF THE CELL MIXTURE. AND THAT'S AN  
16 EDUCATION ISSUE, BUT WE COULDN'T OVERCOME THAT IN  
17 ONE REGARD.

18 ON THE GOOD NEWS FRONT, ASTRAZENECA  
19 ACTUALLY LAST YEAR SAID THAT THEY WANTED TO MAKE  
20 CARDIO REGEN MEDICINE A FOCAL POINT. TO BE HONEST  
21 WITH YOU, THE PROGRAMS WE'VE SENT THEM THUS FAR THEY  
22 HAVE NOT BEEN RESPONSIVE TO. AND I UNDERSTAND  
23 THERE'S NOW A LOT OF INTERNAL REORGANIZATION GOING  
24 ON THERE. SO THAT MIGHT HAVE A LOT TO DO WITH IT.  
25 THAT HAPPENS A LOT TOO IS EVERYONE IS GETTING

**BARRISTERS' REPORTING SERVICE**

1 SHUFFLED VERY OFTEN IN THESE CORPORATIONS.

2 WE'VE HEARD FROM SOME PHARMA THAT, GEE, WE  
3 REALLY LIKE REGENERATIVE MEDICINE, BUT WE LIKE IT  
4 WHEN IT'S A SMALL MOLECULE THAT'S HAVING AN  
5 ENDOGENOUS EFFECT. AND THEY SAID, "HEY, IF YOU FIND  
6 AN ENDOGENOUS EFFECT IN THIS DISEASE AREA, CALL ME  
7 UP UPRIGHT AWAY. WE'LL HOP ON IT." STILL LOOKING  
8 FOR THOSE TO COME THROUGH THE PIPELINE.

9 AND THEN WE HEARD THE WHOLE THING ABOUT  
10 THE PARTNER JUST WASN'T AT THAT TIME WHOLLY  
11 INTERESTED IN ENGAGING. SO THOSE ARE SOME OF THE  
12 NEGATIVES.

13 CHAIRMAN JUELSGAARD: BEFORE YOU GO ON, I  
14 HAVE TO ASK ALAN OR GIL OR PAT ABOUT THIS NOTION OF  
15 HETEROGENEITY IN THE CELLS THAT ARE AT THE BASE OF  
16 WHAT ARE GOING TO BE THE THERAPY. WHAT IS THE  
17 EXTENT OF HETEROGENEITY IN THESE?

18 DR. TROUNSON: IT CAN BE VERY  
19 CONSIDERABLE. DEPENDS HOW YOU MEASURE IT. IF YOU  
20 GO DOWN TO SINGLE CELLS, THEY'VE GOT TO BE  
21 HETEROGENEOUS BECAUSE ALL THE CELLS ARE  
22 DIFFERENT -- THEY'RE NOT EXACTLY IN ORDER. IT'S NOT  
23 LIKE A DRUG WHICH EACH MOLECULE IS ACTING THE SAME.

24 SO THE QUESTION IS, IT IS A REALLY GOOD  
25 QUESTION, IT'S ONE OF THE CONCERNS IN THE FIELD, IS

**BARRISTERS' REPORTING SERVICE**

1 THAT AT WHAT LEVEL SHOULD WE BE CONCERNED ABOUT  
2 HETEROGENEITY? WE REALLY DON'T KNOW THE ANSWER TO  
3 THAT YET, BUT I SUSPECT WE'LL NEED TO DO THAT.

4 A GOOD EXAMPLE IS IN PARKINSON'S DISEASE.  
5 IF YOU HAVE A MIXTURE OF CELLS THERE, THEY THINK  
6 THAT THE MIXTURE OF SEROTONIN RESPONSIVE CELLS AS  
7 WELL AS YOUR DOPAMINE PRODUCING CELLS GIVES YOU THAT  
8 OVERREACTION IN THE PATIENTS. NOW, I'M NOT EXACTLY  
9 SURE THAT EVERYBODY BELIEVES THAT, BUT IT'S A VERY  
10 STRONG VIEW IN THE FIELD. IF YOU DON'T GET A PURE  
11 DOPAMINE PRODUCING CELL LINE, YOU'LL GET THESE OTHER  
12 UPSTART EFFECTS WHICH ARE VERY DETRIMENTAL TO THE  
13 PATIENT.

14 SO THESE THINGS ARE STILL SORT OF WORKING  
15 THEIR WAY THROUGH. BUT IF YOU TAKE BONE MARROW  
16 CELLS, THEY'RE VERY HETEROGENEOUS. IF YOU TAKE  
17 MESENCHYMAL STEM CELLS, THEY'RE VERY HETEROGENEOUS  
18 AS WELL. AT LEAST IN THE MSC'S, THEY DON'T LAST  
19 VERY LONG, SO MAYBE THE HETEROGENEITY DOESN'T REALLY  
20 MATTER. WHATEVER THEY'RE DOING IS PROVIDING  
21 SOMETHING THAT'S NOT RELATED TO THEIR HETEROGENEITY.

22 SO WE'RE STILL TRYING TO STRUGGLE WITH  
23 THAT. IT'S NOT AN EASY QUESTION TO ANSWER TO BE  
24 HONEST. BUT THE BETTER THE PURIFIED CELL, THE  
25 BETTER. I THINK THE MORE COMFORTABLE THE REGULATOR

**BARRISTERS' REPORTING SERVICE**

1 IS AND THE MORE COMFORTABLE THE PHARMA PEOPLE ARE  
2 BECAUSE THEY'RE USED TO PURIFIED PRODUCT. AND SO WE  
3 JUST HAVE TO FIGURE OUT WHAT IT IS THAT IS AN  
4 APPROPRIATE LEVEL OF HETEROGENEITY BECAUSE THERE'S  
5 ALWAYS GOING TO BE THAT IN CELLS, ALWAYS.

6 CHAIRMAN JUELSGAARD: IT'S NOT JUST WHAT  
7 IS THE APPROPRIATE LEVEL OF HETEROGENEITY, BUT HOW  
8 YOU THEN CONTROL AND CONTAIN THAT OVER TIME AT THE  
9 MASTER CELL BANK BECAUSE IF IT DRIFTS OFF IN ONE  
10 DIRECTION OR THE OTHER, THERE'S A PROBLEM.

11 DR. OLSON: THAT'S WHAT THEY ASK FOR.  
12 THEY RECOGNIZE IN MANY CASES THAT THE POPULATION IS  
13 NOT PURE, BUT THEY WANT TO HAVE BEEN ABLE TO  
14 CHARACTERIZE CALL IT THE IMPURITIES, IF YOU LIKE.  
15 AND THEY WANT YOU TO SEND SPECIFICATIONS THAT SAY  
16 BASED ON SOME SORT OF ACTIVITY, WHICH IDEALLY WILL  
17 END UP BEING CORRELATED WITH CLINICAL ACTIVITY, YOU  
18 CAN SAY THAT A POPULATION THAT IS THIS MUCH OF THIS  
19 CHARACTERISTIC WILL YIELD AN ACTIVE POPULATION. SO  
20 THAT'S WHAT YOU HAVE TO DO.

21 ALAN IS RIGHT. IT'S A QUESTION OF HOW  
22 MUCH DO YOU GO INTO DETAIL. SINGLE CELL LEVEL,  
23 YOU'LL RUN INTO A LOT MORE HETEROGENEITY, WHICH  
24 TENDS TO BE WHY IT'S AT A POPULATION LEVEL NOW.

25 CHAIRMAN JUELSGAARD: THANK YOU. NOT A

**BARRISTERS' REPORTING SERVICE**

1 SMALL HURDLE.

2 DR. TROUNSON: NO, IT'S NOT A SMALL  
3 HURDLE, AND IT'S ONE THAT THE FDA STRUGGLES WITH AND  
4 WE'RE ALL STRUGGLING WITH. I THINK IT'S ONLY GOING  
5 TO BE IN TIME WE'RE GOING TO LEARN WHAT DEGREE  
6 HETEROGENEITY WILL BE APPROPRIATE TO EACH AND EVERY  
7 DISEASE PROBABLY. PARKINSON'S IS CERTAINLY AN ISSUE  
8 THERE, AND THERE'S SOME OTHER CONDITIONS THAT WILL  
9 BE. BUT IF THE CELLS ARE GOING TO BE RESIDENT FOR  
10 LONG TERM, THEY NEED TO BE DOING THE RIGHT JOB, NOT  
11 AN OFF JOB. THAT'S WHAT'S CRITICAL.

12 DR. OLSON: I JUST WANTED TO MAKE ONE MORE  
13 COMMENT. THOSE OF YOU WHO ARE FAMILIAR WITH PROTEIN  
14 THERAPEUTICS, YOU MIGHT REGARD IT AS AN ANALOGOUS  
15 SITUATION. PROTEINS WHEN THEY SIT AROUND FOR A  
16 WHILE, EVEN IF THEY'RE FROZEN, YOU GET MODIFICATION.  
17 SO THE DEGREE OF GLYCOSYLATION OR THE DEGREES THAT  
18 THEY GET POST-TRANSLATIONAL MODIFICATIONS, THE FDA  
19 HAD TO GET COMFORTABLE WITH YOU DEFINING THE EXTENT  
20 OF THOSE DIFFERENT MODIFICATIONS. I WOULD REALLY  
21 LOOK AT IT IN THE SAME WAY, WHICH I DO THINK IS HOW  
22 THE FDA IS LOOKING AT IT NOW.

23 BUT, AGAIN, TO YOUR POINT VIS-A-VIS SMALL  
24 MOLECULES, YOU CAN'T STICK IT IN A MASS SPEC AND  
25 KNOW EXACTLY WHAT YOU HAVE. BUT I WOULD LOOK AT THE

## BARRISTERS' REPORTING SERVICE

1 CELL SITUATION AS VERY ANALOGOUS TO THE THERAPEUTIC  
2 SITUATION AND TO SOME EXTENT THE MONOCLONAL ANTIBODY  
3 SITUATION AS WELL. YOU ARE REQUIRED TO CHARACTERIZE  
4 THOSE VARIANCES, IF YOU LIKE.

5 CHAIRMAN JUELSGAARD: AND YOU HAVE TO  
6 CREATE OUTER BOUNDARIES.

7 DR. OLSON: RIGHT. AND YOU CREATE RELEASE  
8 SPECS AND PROCESS SPECIFICATIONS. VERY SIMILAR TO  
9 THAT AND I THINK SHOULD BE LOOKED AT THAT WAY.

10 CHAIRMAN THOMAS: ELONA, COULD YOU GO BACK  
11 TO THE BIOPHARMA COMMENT PAGE PLEASE? HERETOFORE  
12 PHARMA HAS TYPICALLY SORT OF PLAYED AFTER YOU GET  
13 PROOF OF CONCEPT IN PHASE II. DOES THAT FIRST  
14 COMMENT SUGGEST THAT THEY ARE NOW LOOKING AFTER  
15 PHASE I AND THAT THEY'RE ACTUALLY WILLING TO GET IN  
16 EARLIER IN THE GAME?

17 MS. BAUM: SO THE MERCK EXAMPLE IS A  
18 PERFECT EXAMPLE WHERE IT WOULD SUGGEST PHASE II, BUT  
19 THIS IS A GOOD EXAMPLE WHERE IT WOULD SUGGEST THAT  
20 THEY ARE WILLING TO LOOK EARLIER, ESPECIALLY BECAUSE  
21 I THINK SOMEBODY MENTIONED THAT SOMETIMES YOU SEE  
22 BIOLOGICAL ACTIVITY IN A PHASE I WITH THIS THERAPY  
23 WITH REGENERATIVE MEDICINE. SO THEY --

24 CHAIRMAN JUELSGAARD: THE RIGHT PHASE I.

25 MS. BAUM: RIGHT. IT'S GOT TO BE THE

**BARRISTERS' REPORTING SERVICE**

1 RIGHT PHASE I, YES.

2 DR. TROUNSON: BUT I DO THINK SOME OF THE  
3 COMPANIES, JUST SOME, ARE EVEN MORE INTERESTED IN  
4 EARLIER PRECLINICAL. THEY HAVE COME TO US WITH  
5 TRANSLATIONAL PROJECTS, NOT ALWAYS GETTING THROUGH  
6 OUR REVIEW SYSTEM, MIND YOU, BUT THEY HAVE, BUT THAT  
7 DOESN'T MEAN THAT THEY'RE PUTTING A LOT OF MONEY IN.  
8 THEY'RE PUTTING A RELATIVELY SMALL AMOUNT INTO A  
9 NUMBER OF DIFFERENT AREAS AND HOPING THAT SOME OF  
10 THESE MIGHT GO FOR THEM, BUT SMALL AMOUNTS OF MONEY,  
11 I GUESS, ACROSS QUITE A SPECTRUM.

12 MS. BAUM: THAT'S EXACTLY WHAT I WANTED TO  
13 EMPHASIZE TOO BECAUSE WE'VE HAD SOME COME IN AT THE  
14 EARLY TRANSLATION STAGE, AND THEY JUST DIDN'T MAKE  
15 IT THROUGH. AND SO THEY ARE WILLING, BUT IT'S  
16 BECAUSE IT'S A SMALL INVESTMENT. SOME DESCRIBE IT  
17 AS PARTNER AND LEARN. THEY WANT TO HAVE AT LEAST A  
18 TOE IN IN THE AREA, AND THAT'S ONE WAY TO DO IT.

19 DR. OLSON: I GUESS THE QUESTION THERE WAS  
20 WHEN YOU COME IN AS TWO PROJECTS OUT OF 140 IN A  
21 PREAPP STAGE, THAT'S A BIG POOL THAT YOU'RE SWIMMING  
22 IN. WHEREAS, SAY, OUR STRATEGIC PARTNERSHIPS, WHICH  
23 CURRENTLY HAVE BEEN FOCUSED ON THE DEVELOPMENT  
24 STAGE, THE NUMBERS ARE MUCH SMALLER. THAT HAS BEEN  
25 AN ISSUE. YOU KNOW, WHEN YOU'VE GOT 140 THINGS COME

## BARRISTERS' REPORTING SERVICE

1 IN AT A PREAPP, IT'S A BIG PROBLEM.

2 MS. BAUM: AND THAT GETS TO THE POINT  
3 ABOUT THE CREATION OF STRATEGIC PARTNERSHIP FUND  
4 BECAUSE IT HAD THIS COMMERCIAL VALIDATION ENTRY  
5 REQUIREMENT. IT'S NOT ENORMOUS, SO THE ODDS OF  
6 ACTUALLY GETTING A PARTNERSHIP THROUGH ARE MUCH  
7 BETTER.

8 CHAIRMAN THOMAS: WE'VE TALKED IN THE PAST  
9 ABOUT THIS FORBES ARTICLE THAT CAME OUT A COUPLE  
10 YEARS AGO NOW THAT COREY GOODMAN WAS QUOTED IN AS  
11 SAYING THAT BIG PHARMA, HAVING HAD RELATIVELY LITTLE  
12 SUCCESS WITH HUGE AMOUNTS SPENT ON R&D OVER THE LAST  
13 DECADE IS LOOKING TO FORM STRATEGIC ALLIANCES  
14 EARLIER THAN NORMAL TO HELP NOT JUST EDUCATE, BUT TO  
15 GET PIPELINES IN THE WORKS. ARE YOU SEEING THAT  
16 TREND AT ALL? AND IS THERE ANYTHING WE CAN DO TO  
17 FACILITATE IT BECAUSE IT MAKES PERFECT SENSE?

18 MS. BAUM: YES. I HAVE A THOUGHT. AND I  
19 THINK LET ME JUST -- THIS IS PAGE -- THE EXAMPLE OF  
20 THE VERSANT ROCHE DEAL IS A PERFECT EXAMPLE. WE  
21 TRIED THAT TOO IS WHERE WE SEE A PHARMA THAT SAYS,  
22 "OH, WE'RE INTERESTED. WE DON'T HAVE THAT MUCH  
23 BUDGET." I WAS LIKE WHAT IF YOU PARTNER WITH A VC  
24 IN THE BUILD-BUY MODEL, WHICH IS EXACTLY WHAT  
25 VERSANT DID WITH ROCHE WITH ONE OF OUR ASSETS. I



**BARRISTERS' REPORTING SERVICE**

1 THINK THERE'S SOME DEFINITE OPPORTUNITY TO MINE  
2 THERE. AND I HAVE A SLIDE TOWARDS THE END OF THE  
3 PRESENTATION ON OUR ET PROGRAMS WHERE WE SORT OF  
4 BUILD SCREENING TOOLS THAT MIGHT ACTUALLY END UP IN  
5 ARRANGEMENTS LIKE THIS.

6 SO I THINK THAT'S SOMETHING THAT'S  
7 HAPPENED.

8 INTERESTINGLY, AT THE CNS CONFERENCE I WAS  
9 JUST AT TOO, BECAUSE IT'S SUCH A TOUGH FIELD, ONE OF  
10 THE VP'S OF BD THERE SAID THAT THEY'RE ACTUALLY  
11 WILLING TO LOOK AT PRECOMPETITIVE CONSORTIA, WHICH  
12 IS ANOTHER FOLLOW-UP ITEM, BECAUSE THERE'S JUST BEEN  
13 A LOT OF FAILURES IN ALZHEIMER'S AND OTHER AREAS,  
14 AND THEY THINK THAT THEY NEED SOMETHING REALLY GAME  
15 CHANGING. SO THAT MIGHT BE SOMETHING TO CONSIDER.

16 DR. TROUNSON: I THINK IT'S STILL BUILT  
17 AROUND RESEARCH, J.T. IF YOU TAKE ON ONE OF THESE,  
18 YOU TAKE ON A FAIRLY HIGH RISK PROJECT COMPARED TO  
19 THE SMALL MOLECULE WHERE YOU CAN ACTUALLY FORMULATE  
20 WHAT YOUR RISKS ARE A LITTLE BETTER. THE EFFECT OF  
21 A CELL THERAPY IS PROBABLY GOING TO BE LONGER. IT'S  
22 SORT OF YOU DON'T KNOW WHETHER YOU'RE GOING TO BE ON  
23 CLINICAL HOLD AND THINGS LIKE THIS. IT'S SORT OF A  
24 MORE THAN UNKNOWN PLACE. IT'S THINKING REALLY ABOUT  
25 WHERE THEIR RISK IS. AND I KNOW PHARMA NOW IS ON

## BARRISTERS' REPORTING SERVICE

1 AVERAGE \$4 BILLION PER DRUG COMING ONTO THE MARKET  
2 NOW, FOUR BILLION PER DRUG. SO YOU'RE RIGHT. THAT  
3 PIPELINE NEEDS TO SORT OF GO UP DRAMATICALLY. I  
4 DON'T SEE CELL THERAPIES AS THE WAY TO DO IT YET  
5 UNTIL THEY GET SOME REALLY GOOD EXAMPLES. THAT'S  
6 WHAT WE'RE SHORT OF.

7 CHAIRMAN THOMAS: HOW ABOUT OUR PROJECTS  
8 THAT ARE SMALL MOLECULE OR ANTIBODIES? HOW ARE WE  
9 DOING ON GETTING EARLY PHARMA INTERESTED IN THOSE?

10 MS. BAUM: I MIGHT SAY THEY'RE VERY WELL.

11 DR. TROUNSON: IF WE ONLY HAD THEM, THEY  
12 WOULD BE ALL OVER US. THAT, I THINK, IS A FAIR  
13 THING TO SAY. PROBABLY BEFORE PHASE II. SO I THINK  
14 THAT'S WHAT WE'RE FACING. WE'RE IN THE HARD TRACK.  
15 WE JUST NEED TO GET A FEW OF THESE ACROSS THE LINE  
16 IF WE CAN AND THAT THEY CAN REALLY DEMONSTRATE.  
17 PART OF THE PROBLEM IS KNOWING WHAT THEIR BUSINESS  
18 PLAN IN THIS. THEY STILL DON'T REALLY SEE THAT  
19 TERRIBLY WELL. HOW WE'RE GOING TO MAKE THEM COME IN  
20 IN CELL THERAPIES, IT'S NOT NECESSARILY CLEAR TO  
21 THEM. THEY'VE GOT SOME IDEAS, BUT UNTIL SOMEONE  
22 STARTS TO SORT OF DO IT, THEY'RE JUST A BIT  
23 RETICENT. AND IT'S A RISK RETICENCE, I THINK.

24 CHAIRMAN JUELSGAARD: I WOULD JUST ADD TO  
25 WHAT YOU SAID, ALAN. SO YOU STEP BACK AND COMPARE

## BARRISTERS' REPORTING SERVICE

1 ANTIBODIES AND SMALL MOLECULES WITH CELL THERAPY.  
2 SO THERE'S A LOT KNOWN ABOUT SMALL MOLECULES AND NOW  
3 ANTIBODIES. THERE WASN'T A LOT IN THE '90S, BUT  
4 BACK TO THE LATE 1990S WHEN THEY WERE FIRST COMING  
5 ON THE MARKET. SO IT'S ALL ABOUT RISK. COMPANIES  
6 LIKE SITUATIONS WHERE YOU MINIMIZE RISK.

7 SO WHAT ARE THE RISKS? SO THEY KNOW HOW  
8 SMALL MOLECULES AND ANTIBODIES WORK, GENERALLY  
9 SPEAKING, MECHANISM OF ACTION. THE CELL THERAPIES,  
10 JUST WITNESS THIS DISCUSSION ABOUT CELL POPULATIONS,  
11 WHICH CAN BE A SCARY IDEA IF THEY MIGRATE SOMEWHERE  
12 WITHIN THE BODY THAT THEY'RE NOT SUPPOSED TO. SO  
13 YOU HAVE KNOWING THE MECHANISM OF ACTION. YOU KNOW  
14 HOW TO MAKE THEM. WE'VE MADE SMALL MOLECULES AND  
15 ANTIBODIES FOR AGES. WE HAVEN'T REALLY STARTED  
16 MAKING BIG POOLS OF STEM CELLS. SO BOTH THE PROCESS  
17 DEVELOPMENT AS WELL AS THE MANUFACTURING.

18 THE REGULATORY PATH IS LESS THAN CLEAR.  
19 AGAIN, BACK TO THIS ISSUE OF TRYING TO CONTAIN THE  
20 DIVERSITY OF THE CELLS WITHIN NARROW BANDS. BUT  
21 IT'S GOING TO BE A BIT OF A CHALLENGE.

22 AND THEN THERE'S THE WHOLE  
23 COMMERCIALIZATION ASPECT, AND HOW DOES THIS STUFF  
24 GET PAID FOR, AND WHAT'S THAT GOING TO LOOK AT? SO  
25 THOSE ARE THE RISKS THAT A COMPANY WHEN THEY LOOK AT

**BARRISTERS' REPORTING SERVICE**

1 THIS FIELD GENERALLY IN CELL THERAPY THINK ABOUT.  
2 IF THERE'S A PROJECT WHERE THOSE RISKS HAVE BEEN  
3 MINIMIZED BECAUSE IT'S A WELL-WORN PATH, THE ONLY  
4 RISK IS AM I GOING TO GET PHASE II PROOF OF CONCEPT?  
5 AND THEN ULTIMATELY IF I DO, PHASE III COMING IN  
6 SIGNIFICANT FASHION, I CAN GET APPROVAL WITHOUT  
7 UNDUE SAFETY CONCERNS.

8 SO IT'S A VERY STRAIGHTFORWARD KIND OF  
9 PROBLEM THAT A LOT OF COMPANIES THAT ARE IN THIS  
10 AREA ARE FACING IF IT'S PURELY CELL THERAPY, NOT  
11 SMALL MOLECULES OR ANTIBODIES OR OTHER PROTEINS.

12 DR. TROUNSON: DESPITE THAT, YOU HAVE A  
13 MESOBLAST WHO GETS A CAPITAL VALUE OF 2.3 MILLION.  
14 YOU HAVE TO SORT OF SET THAT ASIDE A LITTLE WAY  
15 BECAUSE THAT'S A VERY UNUSUAL NUMBER. OTHERWISE  
16 WHAT WE'RE SAYING DOESN'T MAKE A LOT OF SENSE. BUT  
17 THAT'S GOT AN UNUSUAL SET OF FACTS AROUND IT.

18 I KNOW THERE'S A COMPANY IN CALIFORNIA  
19 THAT'S RAISED 500 MILLION ON THE BASIS OF SMALL  
20 MOLECULES STIMULATING STEM CELLS. YOU CAN GET OUT  
21 THERE AND CAN DO AMAZING THINGS WITH THOSE SMALL  
22 MOLECULES TO CONVINCING PEOPLE. WE'VE GOT THE SMALL  
23 MOLECULES. YOU CAN ACTUALLY DO THAT. IT SEEMS LIKE  
24 IT'S A HECK OF A LOT EASIER SELL.

25 CHAIRMAN JUELSGAARD: ANYTHING ELSE?

**BARRISTERS' REPORTING SERVICE**

1 MS. BAUM: I THINK I ALREADY TOUCHED ON,  
2 THIS IS PRETTY MUCH MY LAST SLIDE, THE FACT THAT A  
3 LOT OF ATTENTION WAS PLACED ON OUR DISEASE TEAMS AND  
4 LINKING THOSE UP. BUT I THINK MAYBE THE FUTURE  
5 FOCUS FOR THE NEXT FEW MONTHS WILL BE ON OUR EARLY  
6 TRANSLATION I AND IIS BECAUSE THOSE ARE PRETTY MUCH  
7 COMPLETE. AND I THINK THERE MIGHT BE 20 PROGRAMS,  
8 MAYBE A LITTLE LESS THAT MIGHT HAVE SOME ATTRACTION  
9 MORE ON THE LINES OF WHAT WE JUST TALKED ABOUT WHERE  
10 THERE'S THE END LICENSING OF THIS SCREENING  
11 TECHNOLOGY, MAYBE A DEVELOPMENT CANDIDATE, THAT A VC  
12 IN PARTNERSHIP WITH A PHARMA MIGHT BE INTERESTED IN  
13 BECAUSE THOSE ARE VERY, VERY EARLY.

14 BUT AT LEAST THE DATA NOW IS IN FOR THE ET  
15 IS FOR THE MOST PART, AND ET IIS WILL BE FINISHED  
16 SOONER THAN LATER, CERTAINLY BEFORE THE DISEASE TEAM  
17 II AWARDS. AND SO YOU ALSO NEED TO THINK ABOUT,  
18 WELL, YOU HAVE TEN DISEASE TEAM IIS, BUT THEY'VE GOT  
19 FUNDING FOR THREE YEARS OR SO. SO THERE'S -- ALMOST  
20 FOUR YEARS. WE'RE INTO IT A YEAR OR SO. NOT ALL OF  
21 THEM. WE'RE IN THE FIRST YEAR. IF THEY'RE FULLY  
22 FUNDED ALREADY, I REALLY DON'T FIGURE WHAT THE  
23 INCENTIVES ARE FOR BOTH SIDES TO SORT OF ACTUALLY  
24 PUT MONEY INTO THEM UNTIL THEY GET THE DATA.

25 DR. TROUNSON: STEVE, THE OTHER THING

**BARRISTERS' REPORTING SERVICE**

1 THAT'S REALLY APPARENT TO ME IS THE AUTOLOGOUS CELL  
2 WORK IS REALLY ON A VERY RAPID GRADIENT GOING UP. I  
3 THINK YOU CAN DEMONSTRATE THAT BY SUCCESS OF THE IPO  
4 FOR BLUEBIRD. I THINK PEOPLE LIKE CAL-IMMUNE ARE  
5 GOING TO DO WELL. I THINK SANGAMO IS GOING TO DO  
6 WELL. THEY'RE GOING TO BE PROVIDING REAGENTS INTO  
7 THERAPEUTICS INTO THE MEDICAL CENTERS. SO THEY'RE  
8 GOING TO PROVIDE THOSE THERAPEUTICS. I THINK THOSE  
9 COMPANIES WILL DO WELL ON THAT BASIS. I THINK THEY  
10 WILL MAKE THOSE AVAILABLE BROADLY ACROSS THE WORLD  
11 AND DO EXTREMELY WELL.

12 I THINK THAT'S THE NEXT PHASE WHERE YOU  
13 WILL SEE CELL THERAPIES REALLY STARTING TO MOVE UP.  
14 I SENSE THE STRONG INTEREST IN SUPPORTING THESE  
15 COMPANIES IS REALLY COMING FROM THE GOOD FEELING  
16 THAT THIS IS GOOD SCIENCE. IT'S BEING BUILT. WE  
17 CAN SEE A BUSINESS PLAN BECAUSE THEY'RE GOING TO  
18 PROVIDE THE TREATMENT AS A REAGENT BASE FOR  
19 THERAPEUTICS ACROSS A VERY LARGE NUMBER OF CLINICAL  
20 CENTERS AROUND THE WORLD PROBABLY. WE'RE IN THAT  
21 AREA, BUT IT'S NOT A BIG PART OF OUR PORTFOLIO, BUT  
22 WE'RE IN THAT AREA. AND I THINK THAT'S WHERE WE'LL  
23 PROBABLY FIND A LOT MORE CONFIDENCE IN CREATING SOME  
24 LINKAGES OR AT LEAST COMPANIES BEING STRONGLY  
25 SUPPORTED WHO ARE DOING THAT WITH US.

**BARRISTERS' REPORTING SERVICE**

1           CHAIRMAN JUELSGAARD: SO IN THOSE  
2 COMPANIES THAT ARE FOLLOWING THAT PATH, ARE YOU  
3 AWARE OF ANY WORK THAT'S BEEN DONE MODELING THE COST  
4 OF DELIVERING THOSE THERAPIES, THE COST TO THE  
5 PATIENT WHICH TRANSLATES TO THE COST TO THE PAYOR?  
6 IF YOU TAKE A COMPANY LIKE GENZYME, FOR EXAMPLE,  
7 THAT'S NOW PART OF SANOFI-AVENTIS, THEY WORK ON  
8 DEVELOPING ORPHAN DRUGS; THAT IS, ENZYME REPLACEMENT  
9 THERAPIES FOR ENZYME DEFICIENT DISEASES THAT OCCUR  
10 IN VERY SMALL GROUPS OF PEOPLE, AND THOSE PRODUCTS  
11 ARE SELLING IN THE RANGE FROM \$100,000 TO \$300,000 A  
12 PATIENT PER YEAR. HUGE SUMS OF MONEY. BUT THE  
13 SYSTEM WAS WILLING TO DEAL WITH IT BECAUSE THERE  
14 WERE SUCH SMALL NUMBERS OF PATIENTS, AND THESE ARE  
15 REALLY BAD DISEASES.

16                   SO MY QUESTION IS WHAT IS THE MODELING  
17 THAT'S BEEN DONE? SO TREATING AUTOLOGOUSLY, SO YOU  
18 GOT TO SHIP THE PATIENT'S CELLS SOMEWHERE, HAVE THEM  
19 BASICALLY INCREASED IN NUMBER, ISOLATED AND  
20 INCREASED IN NUMBER, AND THEN SHIPPED BACK AND GIVEN  
21 BACK TO THE PATIENT.

22           DR. TROUNSON: I THINK THEY'VE DONE SOME  
23 OF THAT WORK, BUT THEY'RE NOT MAKING IT PUBLIC. I  
24 THINK THEY HAVE A LOT OF DISCUSSIONS GOING ON, I  
25 GUESS, WITH THE INSURANCE PEOPLE AND SCIENCE. BUT I

**BARRISTERS' REPORTING SERVICE**

1 THINK THE CONFIDENCE IS THAT THEY WILL GET --

2 DR. FEIGAL: I WAS JUST GOING TO MENTION  
3 SOME OF THESE AUTOLOGOUS STEM CELL APPROACHES ARE  
4 BUILDING ON DECADES OF WORK WITH GENE THERAPY, AND A  
5 LOT OF THESE ARE HEMATOPOIETIC STEM CELLS THAT ARE  
6 GENE MODIFIED OR GENE EDITED. THAT JUST DIDN'T COME  
7 ABOUT IN THE LAST COUPLE YEARS. THAT'S 20 YEARS IN  
8 THE MAKING WHERE PEOPLE FEEL AT EASE. PEOPLE ARE  
9 FEELING MORE COMFORTABLE WITH THAT TYPE OF APPROACH  
10 AS OPPOSED TO THE PLURIPOTENT STEM CELL, WHICH IS  
11 MUCH MORE RECENT.

12 THE OTHER THING, I THINK, WITH A LOT OF  
13 THE AUTOLOGOUS STEM CELL APPROACHES, THAT AT LEAST  
14 MANY OF THEM ARE GOING INTO ORPHAN DISEASES BECAUSE  
15 THEY DO SEE THAT AS A SWEET SPOT FOR THIS KIND OF  
16 RATHER INTENSIVE TYPE OF APPROACH. SO I THINK, AT  
17 LEAST FOR SOME, THE BUSINESS MODEL IS MORE AROUND  
18 THE ORPHAN APPROACH, AND THEY SEE THAT AS THE FOOT  
19 IN THE DOOR. AND THERE MAY BE PERHAPS MORE COMMON  
20 APPROACHES DOWN THE LINE, BUT INITIALLY AT LEAST A  
21 LOT OF THEM ARE STARTING WITH SOME OF THOSE ORPHAN  
22 DISEASES.

23 MS. BAUM: IN TERMS OF MODELING, I KNOW  
24 SANGAMO OBVIOUSLY DID ITS OWN COST MODELING, BUT  
25 THEY HAVE RELEASED PUBLICLY A JUSTIFICATION ON HOW



**BARRISTERS' REPORTING SERVICE**

1 YOU PRICE, QUOTE, UNQUOTE, A CURE. AND IT'S A LOT  
2 OF NEW THOUGHT AROUND THAT PROCESS. SO WE CAN MAKE  
3 THAT REPORT.

4 CHAIRMAN JUELSGAARD: DID THEY PUT THAT  
5 INTO NUMERICAL FORM? DID THEY USE AN EXAMPLE OR  
6 SOMETHING?

7 MS. BAUM: I THINK THAT THEY DID IN THEIR  
8 SLIDE, AND WE CAN GET THAT FOR YOU.

9 CHAIRMAN JUELSGAARD: BE NICE TO SEE. ALL  
10 RIGHT. SO YOU WANT TO GO TO NEXT STEPS.

11 MS. BAUM: SO NEXT STEPS, JUST A COUPLE OF  
12 IDEAS TO THINK ABOUT AND TO LET YOU KNOW WHAT WE'RE  
13 THINKING ABOUT. I THINK QB III IS REALLY GOOD AT  
14 HAVING A CADRE OF EXPERTS AT THE DISPOSAL OF THEIR  
15 GRANTEES. I WOULD SURE LOVE TO HAVE ACCESS TO THEM  
16 FOR OUR GRANTEES SIMILAR EXPERTISE. AND SO THAT'S  
17 SOMETHING THAT WE CAN THINK ABOUT TRYING TO  
18 FORMULATE AND TO ENCOURAGE.

19 ON A CASE-BY-CASE BASIS, WHEN THE NEED HAS  
20 ARISED, WE'VE DONE A LITTLE OF THAT. I HOOKED ONE  
21 TEAM UP WITH SOME LAWYERS I USED TO WORK WITH AND  
22 SAID, "CAN YOU DO THIS PRO BONO FOR THEM PLEASE TO  
23 GET JUST TO THE TERM SHEET STAGE?" SO WE INFORMALLY  
24 HAVE BEEN ABLE TO DO THAT AS NEEDED. BUT IF WE  
25 COULD GET PEOPLE THAT ARE WILLING TO SORT OF SIGN UP

**BARRISTERS' REPORTING SERVICE**

1 IN ADVANCE AND, YES, I'LL TAKE ON ONE OR TWO  
2 COMPANIES A YEAR, AND I'LL PROVIDE THIS KIND OF  
3 EXPERTISE TO THEM DIRECTLY, OR IT'S NOT EVEN  
4 COMPANIES NECESSARILY, BUT GRANTEES, THAT MIGHT BE  
5 HELPFUL. IT'S SOMETHING TO THINK ABOUT.

6 ALSO ANOTHER THING TO THINK ABOUT IS JUST  
7 INTERNALLY OUR TEAM, THE BD FOLKS LINKING UP WITH  
8 SCIENCE OFFICERS IN AREAS OF SPECIFIC DISEASE. SO  
9 THE SCIENCE OFFICERS WOULD BE IDENTIFIED AS DISEASE  
10 EXPERTS A, B, C, AND THEN THEY MIGHT BE PART OF A  
11 TEAM OR AT LEAST PREPARATION FOR DIFFERENT MEETINGS  
12 WITH PHARMAS WHEN IT COMES TO THAT. BECAUSE AT SOME  
13 POINT YOU CAN TALK ABOUT, GEE, WE HAVE THIS PROGRAM,  
14 BUT WHAT YOU REALLY NEED TO DO IS SAY WE HAVE THIS  
15 PROGRAM AND IT'S BETTER THAN EVERYTHING ELSE BECAUSE  
16 X, Y, AND Z. AND THIS IS THE STATE OF CARE RIGHT  
17 NOW, AND THIS IS WHAT'S IN THE PIPELINE, AND WE  
18 THINK OURS IS BETTER BECAUSE IT HAS A DIFFERENT  
19 MECHANISM OF ACTION. YOU SORT OF HAVE TO REALLY BE  
20 ABLE TO CONVERSE WITH THEM, AND THAT MIGHT BE  
21 HELPFUL AS WELL ON A TECHNICAL PERSPECTIVE.

22 CHAIRMAN THOMAS: MY PERCEPTION IS THAT AS  
23 BETWEEN BIG PHARMA AND VC'S AT THE MOMENT, THAT BIG  
24 PHARMA IS MORE LIKELY TO ENGAGE IN DISCUSSIONS AT AN  
25 EARLIER STAGE THAN VC'S ARE. WE'VE HEARD FROM

**BARRISTERS' REPORTING SERVICE**

1 NESSON AND OTHERS ARE JUST AS GUN-SHY, MAYBE EVEN  
2 MORE SO, AND REALLY WANT TO GET TO THE END OF PHASE  
3 II BEFORE THEY'RE WILLING TO DO ANYTHING. SO DOES  
4 THAT TELL US ANYTHING ABOUT WHERE OUR FOCUS SHOULD  
5 BE GOING FORWARD, MORE EMPHASIZING THE PHARMA  
6 CONNECTIONS THAN THE VC? HOW DO YOU THINK THAT  
7 PLAYS?

8 MS. BAUM: I WOULD AGREE WITH YOU AND  
9 THAT'S WHAT WE ARE SEEING. AND I THINK THAT WE KIND  
10 OF HAVE FOCUSED FOR THE MOST PART ON THE PHARMAS.  
11 AND WITH NEIL COMING, HE'S BEEN HELPING MORE WITH  
12 THE VC'S. I THINK WE CAN DO BOTH, BUT I WOULD NOT  
13 DO IT AT THE DETRIMENT OF THE PHARMAS BECAUSE I  
14 THINK THEY ARE WILLING TO COME IN EARLIER, AND FOR  
15 THAT REASON WANT TO MAINTAIN THOSE RELATIONSHIPS.

16 CHAIRMAN THOMAS: NEIL, CAN YOU OFFER ANY  
17 COMMENTS ON VC PERSPECTIVES RIGHT NOW? IT WOULD BE  
18 HELPFUL.

19 MR. LITTMAN: SO, J.T., I THINK YOU'RE  
20 RIGHT. I THINK WE ARE LIKELY TO SEE MORE INTEREST  
21 FROM PHARMA. THEY ARE WILLING TO LOOK EARLIER, I  
22 THINK, FOR A VARIETY OF REASONS, ONE OF WHICH THEY  
23 HAVE BEEN STRUGGLING INTERNALLY WITH THEIR PIPELINES  
24 AND BRINGING PRODUCTS THROUGH TO MARKET. THEY'RE  
25 ALSO LOOKING TO EXTERNALIZE R&D COST. AND SO I

## BARRISTERS' REPORTING SERVICE

1 THINK THEY'RE LOOKING TO BUILD THEIR PIPELINE, AND  
2 THEY'RE NOT AFRAID TO LOOK EARLIER, EVEN AT THE  
3 PRECLINICAL STAGE IN MANY WAYS.

4 I THINK FROM THE VENTURE PERSPECTIVE, IT'S  
5 A LITTLE MORE CHALLENGING FOR THEM TO LOOK THAT  
6 EARLY BECAUSE IT CAN BE VERY COSTLY AND IT'S A VERY  
7 LONG TIME FRAME TO BRING PRODUCTS THROUGH  
8 PRECLINICAL DEVELOPMENT THROUGH CLINICAL DEVELOPMENT  
9 AND ALSO INTO THE MARKET. SO THEIR RETURN ON  
10 INVESTMENT IS GOING TO BE A MUCH LONGER TIME  
11 HORIZON, AND THERE ARE A LOT MORE INHERENT RISKS  
12 OBVIOUSLY AS YOU INVEST EARLIER ON.

13 I THINK WHAT WE HAVE SEEN FROM THE VC  
14 PERSPECTIVE ON NEW BUSINESS MODELS, AND THE VERSANT  
15 ROCHE EXAMPLE IS A PERFECT EXAMPLE OF ALMOST A  
16 BUILD-TO-BUY MODEL WHERE A VC WILL PARTNER WITH A  
17 PHARMA, THEY WILL SHARE THE DEVELOPMENT COST. THE  
18 VC WILL PUT IN SOME EQUITY CAPITAL. THE PHARMA  
19 COMPANY CAN PUT IN EQUITY-BASED MILESTONES TO FUND  
20 THE RESEARCH, AND THEN THE PHARMA CAN HAVE AN OPTION  
21 TO BUY IF THOSE MILESTONES ARE REACHED.

22 SO I THINK IN THAT CONTEXT VC'S ARE  
23 WILLING TO LOOK A LITTLE EARLIER. AND SO I DON'T  
24 THINK WE SHOULD TOTALLY DISCOUNT THEM, BUT I THINK  
25 IT IS CHALLENGING FOR THEM TO GO ON A STAND-ALONE

**BARRISTERS' REPORTING SERVICE**

1 BASIS AND MAKE THOSE EARLY INVESTMENTS.

2 DR. TROUNSON: I AGREE WITH NEIL. IT'S  
3 JUST THAT THERE ARE SOME PEOPLE WHO YOU SHOULDN'T  
4 IGNORE. I GIVE YOU THAT EXAMPLE OF THE COMPANY IN  
5 SOUTHERN CALIFORNIA. IT'S ALL PRECLINICAL BASED ON  
6 THAT AND THEY'RE OVERSUBSCRIBED AT 500 MILLION. SO  
7 WE NEED TO SORT OF THINK ABOUT WHAT CONSTITUTES AN  
8 ATTRACTIVE THING LIKE THAT TO THOSE KIND OF  
9 INDIVIDUALS AS WELL.

10 BUT I ABSOLUTELY AGREE THAT THE PHARMA IS  
11 KIND OF THE EASIER, IT'S NOT EASY, BUT IT'S A BIT  
12 EASIER THAN THE VENTURE INDUSTRY. BUT THE VENTURE  
13 INDUSTRY IS MADE UP OF PEOPLE WHO ARE VERY  
14 DIFFERENT. IF YOU CAN FIND THAT DIFFERENT PERSON OR  
15 DIFFERENT GROUP WHO REALLY WANT TO DO SOMETHING  
16 QUITE RADICALLY DIFFERENT, IT CAN BE VERY WELL  
17 WORTHWHILE.

18 SO I THINK WE NEED TO BE WISE AND KEEP AN  
19 EYE OUT FOR THOSE OPPORTUNITIES. BUT FOR THE BULK  
20 OF OUR ENERGY IN GETTING THE PHARMA TO REALLY SORT  
21 OF ENGAGE WITH US AS WE MOVE OUR PROJECTS ALONG THE  
22 PIPELINE, BUT GET THEM TO COME IN PRECLINICALLY AS  
23 WELL. I THINK IT'S A LEARNING EXPERIENCE FOR THEM,  
24 AND I THINK THAT HELPS IF THEY'RE PART OF IT  
25 ACTUALLY TO BE HELPFUL, EVEN IF A SMALL PART. I

## BARRISTERS' REPORTING SERVICE

1 THINK IT CAN HELP CREATE A BETTER KNOWLEDGE AND  
2 UNDERSTANDING, AND IT CERTAINLY CAN BE USEFUL FOR  
3 THE PROJECTS THEY'RE INVOLVED IN.

4 MS. BAUM: SO ONE OF THE THINGS THAT WE  
5 WERE ALSO THINKING ABOUT WITH ARM WAS, WELL, SHOULD  
6 WE EXPAND THE INVESTOR DAY TO HAVE A DAY WITH ANGELS  
7 OR DISEASE FOUNDATIONS BECAUSE THEY'RE ANOTHER  
8 SOURCE OF FUNDING. IN YOUR EXAMPLE, ALAN, THEY'RE  
9 BASICALLY ANGELS EXCEPT THEY HAVE WRITTEN VERY LARGE  
10 CHECKS. SO THAT MIGHT BE SOMETHING TO CONSIDER.

11 CHAIRMAN JUELSGAARD: SO I DON'T KNOW THAT  
12 THIS IS PRACTICAL, BUT ONE OF THE THINGS THAT  
13 SMALLER COMPANIES TRIED IN THE PAST AND WITH SOME  
14 SUCCESS AT TIMES IS TO TAKE A THERAPEUTIC AREA, FOR  
15 EXAMPLE, WHERE THEY HAVE PRODUCTS THAT ARE IN VERY  
16 EARLY STAGE AND ESSENTIALLY SAY WE'RE WILLING TO  
17 LICENSE OUT SEVERAL PRODUCT APPROACHES THAT WE HAVE  
18 BUT TO ONE SINGLE ENTITY AS OPPOSED TO A BUNCH OF  
19 ENTITIES. SO WE'RE WILLING TO HEAR ALL OFFERS OR  
20 WHATEVER. AND WHAT THAT TENDS TO DO TYPICALLY, AND  
21 EVEN THOUGH THIS IS STILL IN EARLY STAGES, IT  
22 CREATES A RISK ON THE PHARMA SIDE THAT IF THEY JUST  
23 IGNORE THIS, THEY COULD MISS A GREAT OPPORTUNITY.  
24 THEY COULD BE LEFT IN THE DARK. AND SO YOU CREATE A  
25 DIFFERENT KIND OF RISK FOR THE PHARMAS OF THE RISK

**BARRISTERS' REPORTING SERVICE**

1 OF MISSING THE BOAT, SO TO SPEAK.

2 I DON'T THINK IT'S PRACTICAL, BUT TAKE OUR  
3 CARDIOVASCULAR PORTFOLIO FOR A MOMENT OR THE  
4 PROJECTS THAT ARE IN IT. IF THERE WAS A WAY OF  
5 AGGREGATING THEM IN SOME FASHION SO THAT A  
6 PHARMACEUTICAL COMPANY COULD SORT OF STAND FIRST IN  
7 THE LINE SHOULD ANY OF THEM TURN OUT TO BE POSITIVE,  
8 THAT MIGHT CREATE INTEREST IN THE LONGER SPECTRUM OF  
9 MORE WILLINGNESS TO FUND EVEN SOME OF THE EARLIER  
10 STAGE ONES IF THAT'S THE WAY IT'S PUT IS, YOU KNOW,  
11 THIS IS THE WHOLE PORTFOLIO AND YOU'VE GOT TO  
12 PROVIDE SOME FINANCIAL SUPPORT FOR ALL OF THEM. BUT  
13 I THINK IT'S REALLY IMPRACTICAL BECAUSE OF, WHAT,  
14 HALF A DOZEN INSTITUTIONS WITH A PROJECT AND GOD  
15 KNOWS IF THEY'LL GET TOGETHER TO DO THAT, MUCH LESS  
16 WHETHER THERE ARE ANY LEGAL ISSUES WITH THAT AS  
17 WELL.

18 DR. TROUNSON: WE'RE AT LEAST TRYING TO  
19 SORT OF SEE WHERE WE CAN GO WITH THAT BECAUSE  
20 THERE'S A GRAND CHALLENGE, THE WHITE HOUSE GRAND  
21 CHALLENGE. WE PUT IN AN APPLICATION ALONG THAT FOR  
22 CARDIOVASCULAR DISEASE. WE THINK THERE'S A VERY  
23 STRONG PROGRAM THAT CAN BE BUILT AROUND A LOT OF  
24 INSTITUTIONS AND A LOT OF COMPANIES, AND IT'S  
25 SOMETHING THAT IS SUCH A HUGE PROBLEM IN THE

**BARRISTERS' REPORTING SERVICE**

1 DEVELOPED WORLD AND PROBABLY ALSO IN THE  
2 UNDERDEVELOPED WORLD, BUT IS CERTAINLY A MAJOR  
3 PROBLEM IN THE DEVELOPED WORLD. IF WE'RE ABLE TO  
4 ERODE SOME OF THE COST OF CARE IN THAT AREA, IT  
5 WOULD MAKE A HUGE IMPACT.

6 SO I THINK THAT LOOKS LIKE A DIFFERENT WAY  
7 OF DOING THINGS, AND WE WOULD HOPE IF WE CAN GET  
8 MULTI-INSTITUTIONAL, MULTICOMPANY CONNECTION WITH  
9 SOMETHING LIKE THAT, AND IF IT WAS SUPPORTED, WOULD  
10 BE SUPPORTED BY THE WHITE HOUSE OR INSTITUTIONS LIKE  
11 THAT, IT COULD MAKE A VERY BIG DIFFERENCE AND CIRM  
12 COULD BE PART OF IT, BUT SHOULDN'T BE THE ONLY PART  
13 OF IT.

14 SO I AGREE WITH YOU. THAT MIGHT BE A  
15 DIFFERENT WAY OF DOING THINGS AND SOMETHING THAT'S  
16 ATTRACTIVE EVEN AS A GLOBAL INITIATIVE. IT WOULD BE  
17 WORTHWHILE US SORT OF LOOKING AT AT SOME POINT.

18 DR. DULIEGE: IF I MAY INTERVENE NOW.  
19 REALLY APPRECIATE WHAT YOU SAID, ALAN, ABOUT FIRST  
20 IT IS CLEARLY THESE INNOVATIONS OR ACTUALLY  
21 INITIATIVES RATHER THAT ARE GOING TO BENEFIT FIRST  
22 THE DEVELOPED WORLD. BUT IF AT SOME POINT THERE'S A  
23 WAY TO THINK MORE GLOBALLY ABOUT THE DEVELOPING  
24 WORLD, I'D LOVE TO ENTERTAIN THAT DISCUSSION.

25 BACK TO INITIAL DISCUSSION ABOUT FIRST



## BARRISTERS' REPORTING SERVICE

1 FOCUSING ON BIG PHARMA AND SECOND ON VENTURE CAPITAL  
2 OR ANGELS, ABSOLUTELY YES. WOULD IT BE USEFUL,  
3 SEVERAL OF US, I'M SURE MANY OF YOU AROUND THE PHONE  
4 OR IN THE ROOM HAVE CONTACTS WITH THE HEADS OF THESE  
5 BIG PHARMA AS WELL AS VC'S, I CERTAINLY DO BY NOW,  
6 EVEN MORE SO THAN A COUPLE OF MONTHS AGO. AND IF IT  
7 WAS TO BE USEFUL FOR CIRM TO PUT TOGETHER A LIST OF  
8 CONTACTS THAT HAVE ALREADY BEEN MADE SO THAT IF WE  
9 KNEW OF OTHER PEOPLE IN OTHER COMPANIES, GENENTECH,  
10 GILEAD, AND OTHERS, WE COULD ADD THEIR NAMES AND  
11 MAYBE SERVE AS AN INTRODUCTION TO PEOPLE, I'D LOVE  
12 TO DO THAT.

13 DR. TROUNSON: GREAT IDEA. I THINK WE  
14 NEED ALL THE HELP WE CAN IN THESE INSTANCES. IT  
15 WOULD BE GREAT TO HAVE THAT. AND INTRODUCTIONS,  
16 THEY ALWAYS HELP.

17 MS. BAUM: SURE.

18 DR. DULIEGE: VERSANT WAS NAMED. THIRD  
19 ROCK, I'M MEETING WITH THEM NEXT WEEK. FRAZIER,  
20 DOMAIN. AND THEN ON THE BIG PHARMA, THE LIST IS  
21 ESSENTIALLY LONGER.

22 THE SECOND ASPECT OF WHAT WAS EARLIER  
23 MENTIONED IS THE NEED FOR PEOPLE IN -- THE GRANTEES  
24 TO HAVE MENTORS AS WELL IN SOME CASES. I KNOW THAT  
25 CIRM DEFINITELY SERVES AS A MENTOR TO THEM IN MANY

**BARRISTERS' REPORTING SERVICE**

1 REGARDS, BUT WE PROBABLY KNOW SOME PEOPLE WHO KNOW  
2 VERY WELL A SPECIFIC AREA AND WHO BY THEN AT THIS  
3 STAGE OF THEIR CAREER WOULD BE VERY WILLING TO SERVE  
4 AS MENTORS. WE COULD PROBABLY START BRAINSTORMING  
5 ABOUT THIS.

6 I WAS REVIEWING A GROUP THAT I'VE BEEN  
7 MADE AWARE OF, WHICH IS CALLED THE GLOBAL SOCIAL  
8 BENEFIT INSTITUTE. FOR SOME OF YOU WHO MAY KNOW OF  
9 IT, GSBI, WHICH IS BASED IN SANTA CLARA. AND IT'S A  
10 SOCIAL ENTERPRISE SUPPORT SYSTEM. SO THEIR GOAL IS  
11 A LITTLE BIT DIFFERENT, BUT THEIR GOAL IS TO PUT IN  
12 CONTACT A YOUNG ENTREPRENEUR THAT WANTS TO CREATE A  
13 COMPANY THAT ULTIMATELY WOULD BE A FOR-PROFIT  
14 COMPANY, BUT THAT WANTS TO HAVE AN IMPACT ON  
15 PEOPLE'S WELL-BEING THROUGHOUT THE WORLD AND HELP  
16 PEOPLE IN A VARIETY OF WAYS, WHETHER IT'S  
17 AGRICULTURE OR SOMETHING.

18 WHAT THIS GROUP, BASED IN SANTA CLARA,  
19 OFFERS THEM IS, FIRST OF ALL, A DAY OF MEETING WITH  
20 POTENTIAL INVESTORS SO THAT THEY CAN PRESENT THEIR  
21 PROGRAM AND HOPEFULLY GET FUNDED. BUT BEFORE THAT,  
22 THEY PROVIDE THEM THE OPPORTUNITY TO BE CONNECTED  
23 WITH SEVERAL MENTORS THROUGHOUT THE YEAR WHO CLEARLY  
24 HELP THEM WITH THEIR BUSINESS DEVELOPMENT AND EVEN  
25 THEIR PRESENTATION.

**BARRISTERS' REPORTING SERVICE**

1           AND IF IT'S FELT TO BE OF ANY USE, I'D BE  
2           VERY HAPPY TO SHARE THE LINK WITH YOU TO BEGIN WITH.  
3           IF NOT, TO PUT SOMEONE AT CIRM IN TOUCH WITH THE  
4           SPONSOR OF THIS SOCIAL ENTERPRISE SUPPORT SYSTEM AND  
5           SEE IF THERE COULD BE SOME PARALLELS TO BE DONE.  
6           JUST AN IDEA AND I CAN BE IN TOUCH WITH ELONA  
7           SEPARATELY IF APPROPRIATE.

8           MS. BAUM: THAT WOULD BE GREAT.

9           CHAIRMAN JUELSGAARD: ANNE-MARIE, WHAT WAS  
10          THE NAME OF THIS ORGANIZATION AGAIN?

11          DR. DULIEGE: IT'S GSBI, WHICH IS THE  
12          GLOBAL SOCIAL BENEFIT INSTITUTE. AND I'M ACTUALLY  
13          LOOKING FROM THEIR WEB PAGE. AGAIN, THEY'RE BASED  
14          IN SANTA CLARA UNIVERSITY. IT'S A HELPFUL GLOBAL  
15          INNOVATION BASED-ENTREPRENEURSHIP IN SERVICE TO  
16          HUMANITY. AND THERE'S A WHOLE PRESENTATION. IT'S  
17          QUITE EXCEPTIONAL. I'VE HAD THE PLEASURE OF  
18          ATTENDING THEIR ONE-DAY WORKSHOP WHERE EACH OF THEIR  
19          12 FELLOWS, AND THEY HAVE ABOUT 12 FELLOWS A YEAR,  
20          WHO, HAVING WORKED WITH THEIR MENTORS, WERE  
21          PRESENTING THE PROJECTS. AND IN THE ROOM WERE  
22          SITTING A LOT OF OTHER MENTORS TO SORT OF COMMENT ON  
23          THEIR PROJECT AND OFFER THEM THE BENEFIT OF POSITIVE  
24          AND NEGATIVE CRITICISMS, THEIR INSIGHT, AND THEN  
25          ALSO INVESTORS FOR FUTURE COLLABORATION.

**BARRISTERS' REPORTING SERVICE**

1 SO I WON'T EXPLAIN TOO MUCH MORE OF THAT  
2 BECAUSE IT'S SOMEWHAT A LITTLE DIFFERENT BECAUSE  
3 IT'S ALL ABOUT SOCIAL ENTERPRISES, INNOVATORS, AND  
4 ACCELERATORS. MAYBE WE COULD THINK ABOUT A SIMILAR  
5 SYSTEM WHICH WOULD BE FOCUSED ON STEM CELL RESEARCH.  
6 AND, AGAIN, I THINK THAT CIRM HAS ALREADY BEEN AN  
7 EQUIVALENT OF THIS SYSTEM AT LEAST UP TO A POINT,  
8 AND MAYBE LOOKING AT THE PARALLEL WITH THE  
9 PARTICULAR SOCIAL ENTERPRISE ACCELERATOR GROUP MIGHT  
10 HELP MOVING TO THE NEXT STEP.

11 CHAIRMAN JUELSGAARD: I THINK IT'S WORTH  
12 THINKING ABOUT A PARALLEL ORGANIZATION, NOT THIS  
13 PARTICULAR ORGANIZATION YOU'RE REFERRING TO, BUT THE  
14 MODEL THAT THEY PRESENT.

15 DR. DULIEGE: I'LL SEND TO EVERYBODY THE  
16 LINK AND SOME INFORMATION IMMEDIATELY AFTER THE  
17 MEETING.

18 DR. TROUNSON: JUST RECENTLY, MAYBE  
19 MICHAEL KNOWS MORE ABOUT THIS, GOOGLE HAVE ENTERED  
20 THE HEALTH FIELD WITH AN ANNOUNCEMENT THAT THEY'RE  
21 GOING TO MOVE INTO THE HEALTH FIELD. I THINK IT WAS  
22 REALLY QUITE -- HE WAS SERIOUS. AND IF HE DOES  
23 LEAD, SOME OF THE OTHERS MAY FOLLOW. THERE IS THAT  
24 SORT OF MENTALITY SOMETIMES. SO IT MIGHT BE A GOOD  
25 IDEA TO MAKE CONTACT THROUGH MICHAEL OR SOMEONE

**BARRISTERS' REPORTING SERVICE**

1 ELSE.

2 MR. GOLDBERG: LET ME SUGGEST THAT TO MY  
3 RIGHT EXTREMELY WELL ACQUAINTED WITH ART LEVINSON.  
4 I THINK THAT'S AN EXCELLENT SUGGESTION. I THINK  
5 THERE'S SOME OTHER THINGS.

6 I HAVE A -- ARE YOU FINISHED WITH THAT?

7 DR. TROUNSON: SURE.

8 MR. GOLDBERG: I DON'T KNOW IF THIS IS AN  
9 APPROPRIATE PLACE TO SAY IT OR NOT.

10 CHAIRMAN JUELSGAARD: IT DEPENDS ON WHAT  
11 YOU ARE GOING TO SAY.

12 MR. GOLDBERG: ANYWAY, I THINK YOU GUYS  
13 HAVE A GREAT GROUNDS GAME. I THINK WHAT WE LACK IS  
14 NOT INTERNALLY, BUT EXTERNALLY IS WE LACK CHAMPIONS.  
15 AND THE PEOPLE THAT WE'RE INTERACTING WITH,  
16 PRINCIPALLY ON THE PHARMA SIDE, BECAUSE THE VENTURE  
17 PEOPLE, THIS IS A VERY, VERY TOUGH AREA FOR VENTURE  
18 GIVEN THE CAPITAL INTENSIVITY, THE REGULATORY  
19 UNCERTAINTY, THE LONG TIME FRAMES. IT JUST DOESN'T  
20 FIT WITH THEIR BUSINESS MODEL VERY WELL.

21 BUT IN TERMS OF PHARMA, I THINK THERE ARE  
22 SOME POTENTIAL FITS. AND THE QUESTION IS, AND I'VE  
23 GOT SOME IDEAS THAT I'D LIKE TO FURTHER RUMINATE ON  
24 AND MAYBE GET BACK TO YOU AND HAVE A SKULL SESSION,  
25 ON HOW TO GET SOME SERIOUS SENIOR LEADERSHIP MIND

## BARRISTERS' REPORTING SERVICE

1 SHARE IN PHARMA. BECAUSE THE STORY THAT WE HAVE IS  
2 A MAGNIFICENT STORY, BUT IT'S A STORY. AND IT'S A  
3 LITTLE DISTANT FROM THE REALITY THAT THE PEOPLE IN  
4 THE ORGANIZATIONS THAT THE SENIOR LEADERS RUN HAVE  
5 TO DELIVER TO MEET WHAT THE FINANCIAL FIDUCIARY  
6 RESPONSIBILITIES AND OBLIGATIONS THAT THEY HAVE TO  
7 THEIR SHAREHOLDERS REQUIRES.

8 SO THE VISION BUDGET DOESN'T RESIDE WITH  
9 ANYBODY THAT WE GET ACCESS TO. AND I THINK OUR  
10 CHALLENGE IS TO TRY TO GET TO THE VISION BUDGET. SO  
11 MORE ON THAT LATER, BUT I THINK YOU'RE DOING ALL THE  
12 RIGHT THINGS, BUT THEY'RE NECESSARY, BUT LACKING  
13 SUFFICIENCY, WHICH IS WHY WE'VE GOT ACTIVITIES,  
14 WE'VE GOT MEASURES. I APPLAUD THE WAY WE'RE  
15 APPROACHING THIS. I CAN'T GIVE YOU ANY BETTER  
16 ADVICE IN TERMS OF THE BLOCKING AND TACKLING, BUT WE  
17 NEED TO PROVIDE YOU AN AIR FORCE.

18 CHAIRMAN JUELSGAARD: I THINK THAT WAS  
19 APPROPRIATE.

20 MS. BAUM: NO MOTION TO STRIKE THEN?

21 CHAIRMAN JUELSGAARD: OTHER COMMENTS,  
22 SUGGESTIONS IN THE GROUP? AGAIN, PART OF THIS WAS  
23 NOT ONLY TO UNDERSTAND KIND OF WHAT'S BEEN GOING ON,  
24 WHAT WE'VE BEEN SEEING AND HEARING, BOTH POSITIVE  
25 AND NEGATIVE, BUT THEN ALSO TO TALK, AS MICHAEL JUST

## BARRISTERS' REPORTING SERVICE

1 DID, ABOUT WHAT ELSE WE MIGHT DO THAT WE'RE NOT  
2 DOING ALREADY. SO MICHAEL'S PROPOSAL ITSELF IS THE  
3 KIND OF THING. IN ESSENCE, YOU'VE GOT TO FIND  
4 SOMEBODY WHO CAN PROVIDE ENTRY EVEN AT THE SENIOR  
5 LEVEL IN THE ORGANIZATION. THE CHANCE THEY'RE GOING  
6 TO TAKE ON SOME NEW DIRECTION, WE WANT TO BE THE  
7 FIRST ONES THERE AND IT MIGHT WORK OR IT MIGHT NOT.  
8 WE'RE ALL ON A SEPARATE BUDGET, THEIR WILLINGNESS TO  
9 PUT THE MONEY (INAUDIBLE).

10 MR. SHEEHY: COULD I JUST BECAUSE I'VE  
11 KIND OF HAD --

12 CHAIRMAN JUELGAARD: IS THIS APPROPRIATE?

13 MR. SHEEHY: IS THIS THE APPROPRIATE?

14 CHAIRMAN JUELGAARD: PLEASE GO AHEAD.

15 MR. SHEEHY: NO. 1, I AGREE WITH MICHAEL,  
16 AND I REALLY THINK, ELONA, YOU'VE DONE A PHENOMENAL  
17 JOB. I THINK THIS ISSUE OF ENGAGING INDUSTRY WITH  
18 OUR CURRENT PROJECTS, YOU'RE DOING TONS OF STUFF.  
19 AND I THINK A SHOUT OUT SHOULD REALLY GO TO DR.  
20 FEIGAL AND THE CDAP PROCESS BECAUSE I THINK THAT'S  
21 KIND OF A HIDDEN FORCE HERE BECAUSE THE REASON  
22 ESPECIALLY SOME OF THESE PROJECTS IN OUR LATEST  
23 DISEASE TEAM ROUNDS ARE ATTRACTING SOME INTEREST IS  
24 THAT THEY'RE MANUFACTURING, REGULATORY. THE KIND OF  
25 DRILL THAT THEY HAVE BEEN UNDER FOR A COUPLE OF

**BARRISTERS' REPORTING SERVICE**

1 YEARS NOW HAVE MADE THEM MUCH MORE ATTRACTIVE  
2 PROJECTS.

3 ONE SUGGESTION MIGHT BE TO LOOK AT SOME OF  
4 OUR DEVELOPMENT CANDIDATE EARLY TRANSLATIONAL  
5 PROJECTS AND BRING THEM INTO THIS KIND OF PROCESS SO  
6 THAT THEY'RE MORE PREPARED TO MOVE INTO THE NEXT  
7 STAGE.

8 BUT THERE WERE TWO ISSUES THAT WEREN'T  
9 ADDRESSED THAT I WAS CONCERNED ABOUT. ONE IS THE  
10 ENGAGEMENT OF CALIFORNIA COMPANIES, WHICH WE STILL  
11 HAVE FAILED TO DO AND WASN'T REALLY PART OF THE  
12 TOPIC TODAY. AND SOME OF THE THINGS THAT I'VE HEARD  
13 SUGGESTED WERE COMPANY ONLY RFA'S, AN SBIR PROGRAM.  
14 A GREAT IDEA FROM CHARLES COX, A HOUSTON PHYSICIAN  
15 WHO PARTICIPATES IN A LOT OF CLINICAL TRIALS, WAS TO  
16 HAVE A GRANTS WORKING GROUP THAT WAS REALLY A PITCH  
17 SESSION AND HAD THE COMPANIES COME IN WITH WHAT THEY  
18 THOUGHT WERE THEIR BEST PROJECTS AND MAKE THEIR  
19 PITCHES AND HAVE SOME -- WE'VE SEEN SOME REVIEWERS  
20 WHO WERE PRETTY HARDNOSED. YOU WERE THERE, STEVE.  
21 I THINK THEY CAN KIND OF HANDLE THAT AND MAKE THE  
22 DECISION WHETHER OR NOT TO INVEST IN THESE  
23 COMPANIES. BECAUSE THE WAY WE KIND OF DO IT IN OUR  
24 GRANTS REVIEW PROCESS IS WE KIND OF ASK THEM TO SHOW  
25 US ALL THEIR CARDS. AND I JUST DON'T THINK THAT



**BARRISTERS' REPORTING SERVICE**

1 THAT'S HOW INDUSTRY OPERATES. THAT'S JUST MY GUT  
2 INSTINCT.

3 I THINK IF THEY WERE SITTING THERE WITH  
4 SOME FOLKS AND THEY WERE ACTUALLY TRYING TO CREATE A  
5 RELATIONSHIP WHERE WE WANTED TO DECIDE WHETHER WE  
6 WANT TO BE PARTNERS WITH THESE FOLKS, THAT MIGHT BE  
7 ANOTHER WAY TO GO, BUT I DON'T THINK OUR CURRENT  
8 REVIEW SYSTEM IS ACTUALLY WORKING TO ENGAGE  
9 CALIFORNIA COMPANIES. I THINK PAT KIND OF ALLUDED  
10 TO THAT IN THE CONTEXT OF ET.

11 SO I DO THINK PART OF OUR MISSION HERE AT  
12 CIRM IS TO ENGAGE CALIFORNIA COMPANIES AND TO  
13 ACTUALLY FUND THEM IN THIS SPACE. SO WE'VE TALKED A  
14 LOT ABOUT HOW WE'RE CONNECTING INDUSTRY TO THE  
15 PROJECTS WE'VE ALREADY FUNDED. SEEMS LIKE A LOT OF  
16 GREAT STUFF IS GOING ON, BUT THERE'S STILL A LOT OF  
17 COMPANIES THAT CAN'T GET IN OUR DOOR.

18 THEN THE THIRD ISSUE THAT REALLY WAS KIND  
19 OF THE DRIVER WAS THE STRATEGIC PARTNERSHIP PROGRAM,  
20 WHICH I WOULD HAVE TROUBLE CLASSIFYING AS A SUCCESS  
21 BECAUSE, AS I UNDERSTOOD IT, BASED ON NOT THE LAST  
22 PANEL OF ADVISORS, BUT THE PREVIOUS PANEL OF  
23 ADVISORS WE HAD, THE IDEA WAS TO ATTRACT COMPANIES  
24 INTO CALIFORNIA TO BRING THEIR PROJECTS HERE BECAUSE  
25 REALLY TO GO OUT AND FIND PROJECTS AND CREATE

**BARRISTERS' REPORTING SERVICE**

1 INCENTIVES FOR THEM TO BE PART OF, WASN'T THAT KIND  
2 OF THE PLAN?

3 DR. TROUNSON: THAT WAS PART OF THE  
4 SUGGESTION THEY HAD.

5 MR. SHEEHY: IF I LOOK AT IT, WE'VE HAD  
6 TWO ROUNDS. WE'VE FUNDED TWO COMPANIES, ONE OF  
7 WHICH IS AN EXTENSION OF OUR DISEASE TEAM. SO THEY  
8 COULD HAVE COME INTO A DISEASE TEAM ROUND. AND THE  
9 OTHER ONE ACTUALLY IS A CALIFORNIA COMPANY THAT  
10 WE'RE ALREADY FUNDING IN ONE PROJECT IN A DISEASE  
11 TEAM ROUND. WE COULD HAVE BROUGHT THEM IN THROUGH A  
12 DISEASE TEAM ROUND AGAIN. I JUST DON'T SEE THE  
13 STRATEGIC PARTNERSHIP PROGRAM AS ACTUALLY BEING  
14 SOMETHING THAT'S A SUCCESS RIGHT NOW.

15 DR. TROUNSON: I DON'T THINK WE REALLY  
16 BASED IT ON THAT, BUT THERE IS ONE COMPANY THAT WE  
17 DID FUND THAT WAS OUT OF CALIFORNIA THAT DID DROP  
18 OUT BECAUSE THEY DIDN'T LIKE OUR RULES. SO THEIR  
19 RESPONSE -- I DON'T THINK WE BASED IT ON THAT. IT  
20 WAS REALLY TRYING TO DRAW THE PHARMACEUTICAL  
21 INDUSTRY TO SORT OF CO-FUND THAT. THAT WAS ONE OF  
22 THE ARGUMENTS. IT WASN'T SORT OF PRIMARILY BASED ON  
23 BRINGING OUTSIDE COMPANIES.

24 MR. SHEEHY: I DID THINK THAT COMING OUT  
25 OF THAT REVIEW THERE WAS THAT NOTION THAT YOU

**BARRISTERS' REPORTING SERVICE**

1 WANTED -- I MEAN THAT ALL THE BEST SCIENCE WAS NOT  
2 HAPPENING IN CALIFORNIA. IN ORDER TO GET A WINNER  
3 IN SOME NEARER TERM FASHION, WE NEEDED TO BRING  
4 COMPANIES THAT HAD GOOD PROJECTS AND INCENTIVIZE  
5 THEM TO BE PART OF THIS. I GET YOUR POINT ABOUT  
6 MATCHING WITH FUNDING. BUT EVEN THAT, I DIDN'T  
7 REALLY HEAR THAT WE WERE HAVING THAT MUCH SUCCESS  
8 WITHIN THE CONTEXT OF THE STRATEGIC PARTNERSHIP  
9 PROGRAM IN CONNECTING WITH PEOPLE WITH MONEY.

10 SO I JUST -- I GUESS I GET REALLY GRANULAR  
11 ON THIS. WHAT ARE OUR RFA'S GOING TO BE? HOW ARE  
12 THEY GOING TO BE REVIEWED? WE TALKED LIKE 30,000  
13 FEET ABOUT ENGAGING BIG PHARMA; BUT AT THE END OF  
14 THE DAY, WE HAVE REVIEWS, PROJECTS COME IN, AND WE  
15 HAVEN'T ACTUALLY WELL ENGAGED CALIFORNIA COMPANIES,  
16 AND WE HAVEN'T BROUGHT IN COMPANIES FROM OUTSIDE.

17 MS. BAUM: CAN I ADDRESS THAT? I DID  
18 START PREPARING SOME SLIDES IN THAT REGARD BECAUSE I  
19 THOUGHT THAT MIGHT COME UP, AND THEN I DON'T HAVE  
20 THEM IN THE DECK. THE POINT THAT I WAS TRYING TO  
21 MAKE WITH MY SLIDES IS THAT WE TOOK, QUOTE, UNQUOTE,  
22 AN ACCOUNTING OF CALIFORNIA COMPANIES IN THE STEM  
23 CELL SPACE. AS IT TURNS OUT, ONES THAT ARE IN WHAT  
24 WE HAVE TARGETED AS OF LATE, ENTRY INTO THE CLINIC,  
25 THERE ARE VERY, VERY FEW. AND OF THOSE VERY FEW,

## BARRISTERS' REPORTING SERVICE

1 THERE ARE EVEN LESS THAT ARE WITHIN OUR FUNDING  
2 MANDATE BECAUSE MOST OF THEM ARE EITHER ADIPOSE OR  
3 AUTOLOGOUS MSC'S OR THINGS THAT WE HAVE NOT MADE A  
4 POLICY OF FUNDING AND/OR ARE NOT A PROP 71 PRIORITY.

5 SO I COULD SHARE WITH YOU AT SOME POINT  
6 BECAUSE I DON'T HAVE THE DATA NOW WHAT THOSE NUMBERS  
7 ARE, BUT THE FACT IS THIS IS A VERY YOUNG INDUSTRY  
8 AND THERE AREN'T THAT MANY COMPANIES. AND I WOULD  
9 ASSERT, ESPECIALLY AFTER SP III, YOU WILL SEE THAT  
10 WE'RE FUNDING A GOOD BULK OF THE CALIFORNIA  
11 COMPANIES. IF WE WENT EARLIER WITH STRATEGIC  
12 PARTNERSHIP FUNDS AND IF WE WANTED TO CHANGE OUR  
13 FUNDING MANDATE, WE MIGHT BE ABLE TO GET A FEW MORE  
14 IN THAT WAY. BUT THAT IS IN FRICTION WITH OUR  
15 DESIRE TO GET PRODUCTS INTO CLINICAL PHASE. DO YOU  
16 GO EARLIER AND MAYBE ATTRACT SOME MORE CALIFORNIA  
17 COMPANIES, OR DO YOU STAY WHERE WE'RE AT, AND THEN  
18 AT LEAST YOU'RE ADVANCING THE GOAL OF HAVING  
19 SUCCESSFULLY PUT SOME DRUGS THROUGH THE CLINIC.

20 MR. SHEEHY: HAVE WE DONE AN ANALYSIS YOU  
21 CAN SHOW US THAT OUR MIX OF FUNDING OF ACADEMIC  
22 RESEARCH INSTITUTIONS AND PRIVATE INDUSTRY IN  
23 CALIFORNIA IS APPROPRIATE FOR THE STATE OF THE  
24 FIELD? I HEAR FROM PEOPLE IN INDUSTRY THAT THEY  
25 FIND IT DIFFICULT TO GET FUNDING FROM CIRM, BUT

**BARRISTERS' REPORTING SERVICE**

1 THAT'S ALL ANECDOTAL. IF I LOOK AT THE STATISTICS,  
2 I KNOW THAT WE HAVEN'T FUNDED VERY MANY CALIFORNIA  
3 COMPANIES.

4 DR. TROUNSON: I THINK THERE'S EIGHT  
5 COMPANIES IN THIS NEXT ROUND.

6 MS. BAUM: NINE.

7 DR. TROUNSON: EIGHT OF THEM ARE  
8 CALIFORNIA.

9 MS. BAUM: NO. A COUPLE ARE NOT  
10 CALIFORNIA.

11 DR. TROUNSON: SO THERE'S A GROUP TO SEE  
12 HOW THEY ACTUALLY GO. I THINK, AGAIN, IF YOU LIST  
13 THEM OUT AND IF YOU REMOVE THOSE THAT ARE  
14 INAPPROPRIATE, AND YOU CAN DO THAT, AND LOOK TO SEE  
15 WHAT YOU'VE GOT, IT'S NOT A LOT LEFT OVER. THERE'S  
16 QUITE A LOT OF CANCER COMPANIES. THERE'S A LOT OF  
17 COMPANIES THAT DO BONE MARROW OR CORD BLOOD.  
18 GENERALLY SPEAKING, THE OTHER ONES ARE NOT --  
19 THEY'RE NOT AT LEAST IN THIS PRECLINICAL TO CLINICAL  
20 TRANSITION. THEY'RE JUST NOT. OR THEY HAVE BEEN  
21 THROUGH GRANTS WORKING GROUP AND HAVEN'T MADE IT FOR  
22 WHATEVER REASON, WHATEVER REASON. THERE WAS SOME  
23 STRONG COMPANIES.

24 DR. FEIGAL: ONE THING I WANTED TO SAY ON  
25 THE NATIONAL LEVEL, EVEN IF WE DON'T THINK ABOUT IN

## BARRISTERS' REPORTING SERVICE

1 CALIFORNIA, IF YOU LOOK AT THE IND'S THAT ARE COMING  
2 INTO THE FOOD AND DRUG ADMINISTRATION UNDER THE  
3 REGULATED SPACE, MOST OF THEM ARE STILL COMING IN  
4 FROM ACADEMIC. SO IF YOU LOOK ACROSS THE COUNTRY,  
5 NOT JUST IN CALIFORNIA, BECAUSE IF YOU LOOK AT THE  
6 STEM CELL-BASED THERAPIES, A LOT OF THEM ARE STILL  
7 COMING IN FROM ACADEMICALLY BASED ENTERPRISES OR  
8 VERY SMALL ENTERPRISES. AND IF YOU LOOK ACROSS THE  
9 WORLD, THAT'S TRUE TOO. IT'S STILL VERY MUCH EITHER  
10 ACADEMIC OR SMALL ENTERPRISES THAT ARE COMING IN.  
11 AND THAT'S PRESUMABLY BECAUSE IT'S VERY INNOVATIVE,  
12 AND BIG PHARMA IN GENERAL IS VERY RISK AVERSE. SO  
13 YOU FIND THESE THINGS HAPPENING AT A VERY YOUNG AGE.

14 JUST THE ISSUE FOR THE STATE AGENCY IS I  
15 WOULD SAY 85 TO 90 PERCENT OF WHAT WE DO IS STILL  
16 WITH ACADEMICS OR VERY SMALL ENTERPRISES. AND SO  
17 HOW DO YOU -- SHORT OF SHOWING DATA IN SOME OF THOSE  
18 EARLY PHASE CLINICAL TRIALS, WE'RE AT A BIT OF A  
19 QUANDARY TO KNOW HOW TO ATTRACT THOSE BIGGER POCKETS  
20 EARLIER UNTIL YOU START DERISKING SOME OF THIS  
21 ENTERPRISE.

22 I'M JUST SHARING CALIFORNIA. I THINK IT'S  
23 SIMILAR TO WHAT'S HAPPENING ACROSS THE COUNTRY AND  
24 ACROSS THE WORLD. IT TENDS TO BE ACADEMICS OR SMALL  
25 ENTERPRISES.

**BARRISTERS' REPORTING SERVICE**

1 MR. SHEEHY: AND I APPRECIATE THE  
2 COMMENTS, BUT IT WASN'T REALLY ABOUT GETTING BIG  
3 PHARMA INTO THE SPACE, BUT WE'RE NOT FUNDING THOSE  
4 SMALL CALIFORNIA COMPANIES. HAVE WE EVER FUNDED A  
5 COMPANY THAT WAS STARTED WITH INTELLECTUAL PROPERTY  
6 DEVELOPED WITH CIRM FUNDING? DO WE HAVE A MECHANISM  
7 TO PROVIDE FOLLOW-ONE FUNDING OUTSIDE OF VIACYTE  
8 MAYBE?

9 MS. BAUM: EVERYBODY IS ELIGIBLE TO COME  
10 THROUGH OUR DIFFERENT FUNDING ROUNDS.

11 MR. SHEEHY: SO THEY HAVE TO COME BACK.  
12 SO THEY CAN GO AND GET A PATENT AND THEY WANT TO  
13 START A COMPANY, THEN THEY HAVE TO COME BACK FOR  
14 ANOTHER FUNDING ROUND? I'M JUST TRYING TO LOOK AT  
15 THE MECHANISM. IF EVERYBODY IS COMFORTABLE THAT  
16 EVERYTHING WE'RE DOING RIGHT NOW IS THE RIGHT WAY TO  
17 GO IN TERMS OF ENGAGING WITH CALIFORNIA INDUSTRY, IN  
18 TERMS OF BRINGING IN PROJECTS FROM OUTSIDE OF  
19 CALIFORNIA, THAT'S KIND OF THE QUESTIONS I KIND OF  
20 HAVE WHEN I ASKED ABOUT THIS BECAUSE WE WENT DOWN A  
21 LOT OF THESE ROADS, AND WE HAVEN'T REALLY -- I JUST  
22 DON'T KNOW IF WE'RE REALLY BEING SUCCESSFUL DOING  
23 SO.

24 MR. HUONG: IN TERMS OF LAST DISEASE TEAM  
25 ROUNDS, DISEASE TEAM III, I WOULD SAY ALMOST HALF OF

## BARRISTERS' REPORTING SERVICE

1 THE APPLICATIONS HAD SPIN-OUT COMPANIES. THESE  
2 APPLICANTS HAD SPIN-OUT COMPANIES OF THEIR OWN, BUT  
3 THEY WERE REQUESTED TO -- I THINK THEY APPLIED UNDER  
4 THE INSTITUTION, BUT THEY DID HAVE THEIR OWN  
5 COMPANIES, WHICH IS ACTUALLY WHERE THE IP WAS  
6 RESIDING. SO THEIR SPIN-OFF COMPANY LICENSED THE IP  
7 FROM THE INSTITUTION.

8 THAT'S ACTUALLY ONE OF THE THINGS,  
9 DEPENDING ON WHICH GRANTS GET APPROVED, ELONA AND I  
10 HAVE TO DEAL WITH IS TO MAKE SURE THE DATA FROM THE  
11 GRANTS ACTUALLY GOES WITH THE IP WHICH IS RESIDING  
12 IN THESE SPIN-OUT COMPANIES. BUT THERE ARE -- JUST  
13 IN THIS CASE, THERE WERE A NUMBER OF COMPANIES  
14 ASSOCIATED WITH THESE PI'S AND THESE APPLICATIONS,  
15 BUT THEY APPLIED UNDER THE INSTITUTION.

16 CHAIRMAN THOMAS: FOLLOW-UP ON JEFF'S  
17 THOUGHT. SO FREQUENTLY ONE OF THE REASONS WHY THE  
18 COMPANIES WHO APPLY GET WHACKED IN THE GRANTS  
19 WORKING GROUP IS BECAUSE OF THE POOR QUALITY OF  
20 THEIR APPLICATION, EVEN IF THEY'RE IN THE SP ROUNDS,  
21 WHICH ARE ONLY COMPANIES, AND THEY'RE NOT BEING HELD  
22 UP AGAINST THE ACADEMICS WHO ARE EXPERTS. IS THERE  
23 A WAY THAT WE CAN HELP THEM? WE'RE NOT IN THE  
24 BUSINESS OF WRITING GRANT APPLICATIONS. BUT IT  
25 SEEMS TO ME THAT THE SCIENCE IN SOME OF THESE



## BARRISTERS' REPORTING SERVICE

1 COMPANIES IS BETTER THAN THE RESULTS YOU'RE SEEING  
2 IN THE GRANTS WORKING GROUP. AND IT'S LARGELY A  
3 FUNCTION OF FORM OVER SUBSTANCE. IS THERE SOMETHING  
4 WE CAN DO TO HELP THEM IN THE PRESENTATION OF THEIR  
5 APPLICATION THAT WOULD HELP THEM FARE BETTER IN THE  
6 REVIEWS?

7 CHAIRMAN JUELSGAARD: CAN I SPEAK TO THAT  
8 AND SOMETHING JEFF SAID? YEAH. AND I DON'T KNOW.  
9 SOMEBODY MADE THIS SUGGESTION HERE AT ONE POINT.  
10 BUT IT'S, IN ESSENCE, TO HAVE A FACE-TO-FACE REVIEW  
11 PROCESS. THAT'S WHAT THEY'RE USED TO DOING. THE  
12 APPLICATION PROCESS WE HAVE WAS DESIGNED FOR  
13 ACADEMIC. IT WAS DESIGNED FOR THE NIH APPROACH.  
14 INDUSTRY JUST DOESN'T DEAL THAT WAY. THEY NEVER  
15 HAVE. ANY DISCUSSIONS THEY'VE HAD INTERNALLY OR  
16 WITH OTHER ORGANIZATIONS, IT'S ALWAYS ABOUT MEETINGS  
17 IN REAL-TIME AND GETTING TO ANSWER QUESTIONS.

18 SO THE MECHANISM THAT WE BUILT IS ONE THAT  
19 THEY'RE JUST NOT FAMILIAR WITH. AND SO THE QUESTION  
20 YOU HAVE TO ASK YOURSELF IS DO YOU WANT TO IMPOSE  
21 THIS MECHANISM ON THEM AND THEN TRY AND TRAIN THEM  
22 IN HOW THIS MECHANISM WORKS, OR DO YOU WANT TO USE A  
23 DIFFERENT MECHANISM FOR THOSE PEOPLE WHO ARE USED TO  
24 A DIFFERENT MECHANISM? SO WE HAVE ONE FOR ACADEMIA  
25 AND WE HAVE ONE FOR THE COMPANY SIDE OF THINGS. I'M

**BARRISTERS' REPORTING SERVICE**

1 NOT SUGGESTING AN OUTCOME HERE TODAY, BUT I THINK  
2 THAT'S THE NATURE OF THE PROBLEM.

3 AND THEN WHOEVER. JEFF. SO THE IDEA OF  
4 BRINGING OTHER COMPANIES TO CALIFORNIA, I THINK  
5 THAT'S A WONDERFUL WISH TO HAVE KIND OF THING, BUT  
6 THAT'S AN UPHILL, UPHILL, UPHILL ITEM. SO THERE ARE  
7 A LOT OF THINGS THAT GO INTO THE CALCULUS OF  
8 COMPANIES MOVING FROM WHERE THEY ARE. YOU HAVE TO  
9 START WITH VERY SIMPLE THINGS LIKE WHO ARE MY  
10 EMPLOYEES AND WHAT IS THEIR WILLINGNESS TO MOVE? BY  
11 THE WAY, WHAT'S THE COST OF LIVING IN THE PLACE THAT  
12 I'M MOVING TO FOR MY EMPLOYEES THAT I WANT TO BRING  
13 WITH ME? AND WHAT'S THE TAX STRUCTURE? THERE ARE  
14 ALL KINDS OF IMPLICATIONS ASSOCIATED WITH THIS.  
15 THIS IS NOT AN EASY THING TO DO.

16 I KNOW WHEN WE WERE AT GENENTECH, WE  
17 LOOKED AT LOCATING A NEW FACILITY WITHIN THE UNITED  
18 STATES, AND WE WERE DIVERTED AWAY FROM CALIFORNIA,  
19 BECAUSE OF THE TAX STRUCTURE OF CALIFORNIA, TO OUR  
20 NEIGHBORS TO THE NORTH IN OREGON. WE WERE VERY  
21 EXPLICIT ABOUT THAT BECAUSE OF THE WAY THE INCOME  
22 TAX STRUCTURE WORKED FOR CORPORATIONS IN CALIFORNIA.  
23 AND WE ALSO BUILT A MANUFACTURING FACILITY IN  
24 SINGAPORE AS OPPOSED TO THE UNITED STATES, AGAIN,  
25 LARGELY BASED ON SOME TAX CONSIDERATIONS. THAT IS,

**BARRISTERS' REPORTING SERVICE**

1 THE U.S. HAS ONE OF THE HIGHEST CORPORATE TAX RATES  
2 ANYWHERE IN THE WORLD. OTHER COMPANIES DON'T HAVE  
3 THOSE HIGH TAX RATES, AND THAT'S WHY YOU SEE A LOT  
4 OF OFFSHORE MANUFACTURING FACILITIES BEING BUILT.

5 APART FROM GIVING SOME FUNDS TO AN  
6 ORGANIZATION, THERE ARE TONS OF CONSIDERATIONS WHICH  
7 I JUST THINK MAKE THIS A REAL UPHILL BATTLE TO TRY  
8 AND, NOT THAT WE SHOULDN'T TRY, BUT I DON'T EXPECT A  
9 HIGH DEGREE OF SUCCESS IN THAT KIND OF A PROGRAM FOR  
10 THE REASONS THAT I SAID.

11 SOMEBODY ELSE HAD SOMETHING TO SAY.

12 DR. FEIGAL: I THINK IT'S INTRIGUING THIS  
13 ISSUE ABOUT IN-PERSON MEETINGS BECAUSE I ACTUALLY  
14 HAD A COUPLE OF REVIEWERS SAY, BOY, SO MUCH BETTER  
15 LIKE YOUR CDAP IN TERMS OF INTERACTING WITH PEOPLE.  
16 I SAID PART OF THE PROBLEM IS IT'S THE NUMBERS. I  
17 MEAN WE CAN ONLY DO A VERY SMALL NUMBER. AND IF A  
18 REVIEW IS ALREADY THREE DAYS IN LENGTH, HOW LONG DO  
19 YOU DO IT? SO I COULD SAY IT COULD WORK IF YOU HAVE  
20 A SMALL NUMBER IN YOUR DENOMINATOR WHERE YOU'RE  
21 GOING TO HAVE PEOPLE COME IN IN PERSON. AND THAT'S  
22 SOMETHING WE'D HAVE TO REALLY THINK ABOUT. I  
23 ACTUALLY DID HAVE SEVERAL REVIEWERS ASK THAT  
24 QUESTION. AND THE NIH USED TO HAVE SITE VISITS.  
25 WHAT THEY DID IS THEY FIRST TRIAGED OUT APPLICATIONS

## BARRISTERS' REPORTING SERVICE

1 FROM A WRITTEN REVIEW, AND THEY DON'T DO IT ANYMORE,  
2 PROBABLY BECAUSE IT'S TOO TIME AND WORK INTENSIVE,  
3 BUT THEY USED TO HAVE SITE VISITS WHERE THEY  
4 ACTUALLY DID MEET WITH THE TEAM, GET TO KNOW WHO  
5 THEY ARE, AND UNDERSTAND THEIR SCIENCE, AND ASK SOME  
6 THEM QUESTIONS IN REAL-TIME.

7 DR. TROUNSON: PROBABLY HAVE TO HAVE THE  
8 REVIEWERS HAVE SOME KNOWLEDGE OF WHAT THE COMPANY IS  
9 ABOUT IN ORDER TO EVEN ENABLE THAT. OTHERWISE IT  
10 COULD BE A HALF DAY'S DISCUSSION. COULD BE VERY  
11 LONG. SO IT WOULD BE A BIT CHALLENGING TO FIGURE IT  
12 OUT, BUT --

13 MR. SHEEHY: AND THERE'S A COUPLE OF  
14 INSTANCES WHERE WE HAVE A LOT OF FOLLOW-UP WHERE  
15 THEY WERE AT A LEVEL OF ENGAGEMENT IN CDAP. AND  
16 THEN WHEN THEY'RE ABOUT TO GET ANOTHER FIVE TO \$20  
17 MILLION, THERE'S NOT THAT SAME LEVEL ENGAGEMENT.  
18 THAT FEELS A LITTLE BIT UNUSUAL. AND I AGREE WITH  
19 STEVE'S POINT. THE IDEA OF TRYING TO BRING  
20 COMPANIES FROM OUTSIDE CALIFORNIA WAS JUST ONE OF  
21 THE BIG RECOMMENDATIONS WE HAD FROM SCIENTIFIC  
22 ADVISORY PANEL, AND THAT REALLY DROVE TO SOME DEGREE  
23 A LOT OF THE IMPETUS FOR CREATING THIS VERY NEW  
24 SEPARATE RFA PROCESS. AGAIN, A LOT OF THIS IS  
25 MECHANICS AND WHAT WE'RE TRYING TO DO. AND WE DON'T

**BARRISTERS' REPORTING SERVICE**

1 HAVE A LOT OF TIME LEFT, RIGHT?

2 DR. TROUNSON: I THINK IT WAS REALLY WE  
3 WERE TRYING TO BRING BIG IDEAS, WHETHER EXISTING  
4 COMPANIES OR WHEREVER, BIG IDEAS COME TO CALIFORNIA.  
5 SO WE HAVE A COUPLE OF DIFFERENT MECHANISMS IN ORDER  
6 TO DO THAT, AND WE'RE TRYING TO DO THAT. THAT'S NOT  
7 EASY EITHER, TO BRING A KNOWLEDGE BASE, AN IMPORTANT  
8 KNOWLEDGE BASE HERE, BUT WE ARE TRYING AND WE HAVE  
9 GOT A NUMBER OF DIFFERENT MECHANISMS TO TRY AND  
10 ACHIEVE THAT.

11 MR. SHEEHY: AND I WANT TO COMMEND STAFF.  
12 I THINK THEY'RE DOING AN EXTRAORDINARY JOB, SO I  
13 DON'T THINK ANY PART OF THIS IS CRITICISM FOR THE  
14 WORK THAT'S BEEN DONE. IT'S MORE LIKE BEING A  
15 LITTLE ANALYTIC AND TRYING TO SEE IF WE'RE ACTUALLY  
16 ACHIEVING WHAT WE SET OUT TO DO WHEN WE DID THIS  
17 THING.

18 MS. BAUM: I THINK IT COMES DOWN TO  
19 PRIORITIES TOO BECAUSE SOMETIMES YOU CAN'T SERVE ALL  
20 ENDS AT ONCE. AGAIN, I JUST WANT TO REITERATE, IF  
21 YOU WANT TO GO TO COMPANIES, A LOT OF TIMES THAT  
22 MEANS GOING WITH AN EARLIER STAGE OF RESEARCH, BUT  
23 THAT MEANS THAT THEN THERE'S AN OPPORTUNITY COST  
24 BECAUSE THE FUNDING THAT GOES THERE COULD HAVE GONE  
25 TO OTHER PROGRAMS THAT ARE MORE MATURE AND THAT YOU

**BARRISTERS' REPORTING SERVICE**

1 COULD MORE READILY PUSH THROUGH THE CLINIC.  
2 SOMETIMES THERE IS A LITTLE FRICTION BETWEEN THE  
3 TWO.

4 CHAIRMAN JUELSGAARD: ANY OTHER COMMENTS?

5 DR. OLSON: ALSO JUST ONE OTHER COMMENT.  
6 WE HAVE TO REMEMBER THE PRIORITIES THAT WE SET IN  
7 EARLIER AWARDS THAT ARE NOW COMING TO THE NEXT STAGE  
8 OF THEIR DEVELOPMENT SUDDENLY RUN UP AGAINST  
9 (INAUDIBLE) THING. THESE ARE CELLS THAT ARE HARDER  
10 TO WORK WITH. SO WE FUNDED A GREAT DEAL OF PROJECTS  
11 IN CERTAIN KINDS OF AREAS THAT ARE IN WHAT ONE WOULD  
12 HAVE TO CALL MORE HIGH RISK CELL THERAPY KINDS OF  
13 AREAS. AND I THINK THAT'S GOING TO BE A CHALLENGE  
14 FOR US. SO WE HAVE TO THINK REALLY WHAT ARE WE  
15 TRYING TO LOOK FOR.

16 I THINK YOU ALL REMEMBER, AND ONE OF THE  
17 THINGS YOU'VE BEEN LOOKING AT OVER THE LAST FEW  
18 YEARS WAS THE FACT THAT IN EARLY 2012 WE SAID WE  
19 NEED TO GET PROJECTS THAT ARE GOING TO HAVE  
20 HOPEFULLY BIOLOGICAL ACTIVITY OR PROOF OF PRINCIPLE  
21 BY 2016-17. THAT HAS BEEN A BIG PUSH FOR US IN THE  
22 LAST TWO YEARS. SP II, SP III, DT III, ALL OF THOSE  
23 PROGRAMS HAVE BEEN REALLY DIRECTED TO THAT GOAL.

24 SO THESE ARE THE KINDS OF CONSIDERATIONS  
25 THAT YOU HAVE TO THINK ABOUT GOING FORWARD BECAUSE

## BARRISTERS' REPORTING SERVICE

1 WE SAID IF I WANTED THIS KIND OF DATA, WE HAD TO  
2 START DOING IT IN THESE PAST TWO YEARS. RFA'S WERE  
3 DIRECTED ACCORDINGLY.

4 CHAIRMAN JUELSGAARD: A QUESTION FOR ALAN,  
5 ELLEN, ELONA, PAT, WHOEVER. WE TALKED ABOUT THE  
6 FACT THAT THE TYPES OF COMPOUNDS THAT SEEM TO GAIN  
7 THE MOST TRACTION WITH THE OUTSIDE WORLD ARE THE  
8 ANTIBODIES AND SMALL MOLECULES. AND SO I WAS  
9 SITTING HERE THINKING OF WHAT IF WE TREATED THEM  
10 DIFFERENTLY FROM THE CIRM SUPPORT? AND ELONA TALKED  
11 ABOUT HAVING SOME SORT OF CO-FUNDING OR WHATEVER.  
12 WHAT IF WE SAID THAT WHAT WE'LL DO WITH THOSE KIND  
13 OF MOLECULES, WHICH HAVE A MUCH MORE WELL-WORN PATH  
14 TO APPROVAL, THE RISK IS REALLY DOES THE SCIENCE  
15 HOLD UP AS MUCH AS ANYTHING, THAT WE'LL ONLY SUPPORT  
16 CO-FUNDING ARRANGEMENTS. SO, FOR EXAMPLE, IF YOU  
17 WANT \$20 MILLION WORTH OF FUNDING, YOU THEN HAVE TO  
18 FIND ANOTHER 20 OR WHATEVER. WE JUST SET THAT AS A  
19 RULE SET FOR EVERY ONE OF THESE. WE HAVE TO DO THIS  
20 PROSPECTIVELY OBVIOUSLY. WE HAVEN'T TOLD ANYBODY  
21 RETROSPECTIVELY.

22 DR. TROUNSON: THAT'S WHAT WE CURRENTLY  
23 DO, BUT I THINK IT MIGHT BE INTERESTING TO GET THE  
24 SCIENTIFIC ADVISORY BOARD'S VIEW ON THAT, BUT I  
25 THINK THEY HAVE A DIFFERENT VIEW ABOUT THAT.

**BARRISTERS' REPORTING SERVICE**

1 ANYWAY, THAT'S ONE WE'VE ACTUALLY BEEN DOING. WE  
2 HAVEN'T REQUIRED 50-50.

3 (SIMULTANEOUS DISCUSSION.)

4 CHAIRMAN JUELGAARD: WE EXPECT EVERYBODY  
5 TO LEVERAGE ON AN EQUAL BASIS. I DIDN'T REALIZE  
6 THAT. I THINK -- WELL, I'M SUGGESTING THAT WE OUGHT  
7 TO THINK ABOUT DOING MORE THAN THAT. MAYBE THAT  
8 ISN'T APPROPRIATE.

9 DR. TROUNSON: NO. WE HAD THAT IN THE  
10 FIRST PLACE.

11 CHAIRMAN JUELGAARD: IT'S A RISK-BASE  
12 APPROACH FROM THE FINANCIAL POINT OF VIEW BECAUSE  
13 THERE'S A LOT LESS RISK WITH THESE FROM SOME OF THE  
14 THINGS I JUST TALKED ABOUT, LESS RISK REGULATORILY,  
15 LESS RISK IN TERMS OF MANUFACTURING AND PROCESS  
16 DEVELOPMENT, LESS RISK ON THE REIMBURSEMENT,  
17 UNDERSTANDING REIMBURSEMENT MECHANISMS, ALL THAT.  
18 SO THE RISK IS REALLY (INAUDIBLE). THAT'S EVERYDAY  
19 RISK.

20 MS. BAUM: THE ONE THING ABOUT THE 25  
21 PERCENT IS THEY CAN RAISE IT FROM ANY SOURCE. WE'RE  
22 NOT PICKY IF IT COMES FROM A VC, A PHARMA. IT COULD  
23 COME FROM A FOUNDATION, A PHILANTHROPIC.

24 CHAIRMAN JUELGAARD: SO ARE THERE ANY  
25 OTHER COMMENTS BECAUSE I HAVE ONE LAST THING HERE.



## BARRISTERS' REPORTING SERVICE

1           OKAY. IT'S MY GENERAL BELIEF THAT YOU  
2 SHOULD NEVER END THESE SESSIONS WITHOUT A TO-DO  
3 LIST. SO WE NEED TO DEVELOP A TO-DO LIST THAT COMES  
4 OUT OF THIS TO FOLLOW UP ON ANY RECOMMENDATIONS THAT  
5 PEOPLE BELIEVE ARE WORTHY OF FOLLOW-UP. SO BEFORE  
6 WE LEAVE, LET'S CREATE A TO-DO LIST AND TALK ABOUT  
7 IT.

8           ANYWAY, ONE OF THE THINGS I HEARD WAS  
9 MICHAEL'S SUGGESTION, WHICH I THOUGHT WAS A REALLY  
10 GREAT IDEA, IS TO ACTUALLY TALK TO A DIFFERENT GROUP  
11 OF PEOPLE THAN WE'VE BEEN TALKING TO, PARTICULARLY  
12 THE INDUSTRY. AND I AGREE ABOUT THE VC COMMUNITY.  
13 THERE'S A TURNIP THERE, BUT NO BLOOD. BUT TRYING TO  
14 TALK TO SOME MORE SENIOR PEOPLE WITHIN SOME OF THE  
15 BIGGER BIOPHARMA COMPANIES WHO MIGHT BE WILLING TO  
16 INVEST IN AN IDEA OR IN THE FUTURE AND TAKE ON A  
17 LITTLE BIT OF RISK. YOU WON'T SEE THOSE ON THE  
18 BUSINESS DEVELOPMENT SIDE OR WHATEVER. THEY'RE  
19 GOING TO EXIST SOMEWHERE ELSE IN THE ORGANIZATION,  
20 WHETHER IT'S THE HEAD OF RESEARCH OR THE CEO OR  
21 WHOEVER IT IS.

22           SO I WOULD PUT THAT ON THE TO-DO LIST TO  
23 DEVELOP SOME SORT OF WAY OF DOING THAT. AND I THINK  
24 YOU GUYS ARE GOING TO NEED SOME HELP IN TERMS OF  
25 THINKING ABOUT HOW TO DO THAT BECAUSE THESE ARE

**BARRISTERS' REPORTING SERVICE**

1 PEOPLE THAT YOU WOULDN'T ORDINARILY INTERACT WITH.

2 CHAIRMAN THOMAS: SOUNDED LIKE ANNE-MARIE  
3 WOULD HAVE SOME GOOD INPUT ON THAT SUBJECT BASED ON  
4 HER COMMENTS.

5 CHAIRMAN JUELSGAARD: CERTAINLY WITH THE  
6 NUMBER OF COMPANIES.

7 DR. TROUNSON: AND YOU WERE GOING TO  
8 INTRODUCE ME TO ART LEVINSON.

9 CHAIRMAN JUELSGAARD: I CAN INTRODUCE YOU  
10 TO ART LEVINSON. I CAN INTRODUCE YOU TO SEVERIN  
11 SCHWAN.

12 MS. BAUM: THAT'S GREAT.

13 DR. TROUNSON: THIS NEW GOOGLE ENTERPRISE.

14 CHAIRMAN JUELSGAARD: BE HAPPY TO  
15 INTRODUCE YOU TO ART.

16 DR. DULIEGE: TO HAROLD BARRON, THE HEAD  
17 OF RESEARCH THERE. I BLANK ON HIS NAME. PROBABLY,  
18 STEVE, YOU PROBABLY KNOW THEM AS WELL.

19 CHAIRMAN JUELSGAARD: I THINK REALLY THE  
20 RIGHT PERSON, ANNE-MARIE, AT GENENTECH IS RICHARD  
21 SCHELLER, HEAD OF GENENTECH RESEARCH AND EARLY  
22 DEVELOPMENT. IF HE'S ON BOARD, THEN THINGS CAN  
23 HAPPEN. IF HE'S NOT ON BOARD, THEY WON'T.

24 DR. TROUNSON: WE'VE MET QUITE FREQUENTLY  
25 WITH -- QUITE OFTEN ANYWAY, A LONG TIME AGO, ON THE

**BARRISTERS' REPORTING SERVICE**

1 PHONE ABOUT TWO MONTHS AGO.

2 CHAIRMAN JUELSGAARD: I THINK IT WOULD BE  
3 WORTH JUST SITTING DOWN AND HAVING DINNER WITH HIM  
4 DOWN AT STANFORD OR WHATEVER, WHICH IS WHERE HE  
5 LIVES.

6 MR. GOLDBERG: WHY DON'T YOU HAVE CLAIRE  
7 INVITE YOU TO THE LASKER AWARDS AND HAVE YOURSELF  
8 SEATED STRATEGICALLY.

9 CHAIRMAN THOMAS: THAT'S THIS WEEK. THIS  
10 FRIDAY.

11 MR. GOLDBERG: OH, GOOD. THEY PROBABLY  
12 HAVE SOME CANCELLATIONS.

13 CHAIRMAN JUELSGAARD: SO MAYBE ANNE-MARIE,  
14 MICHAEL, AND I AND ANYBODY ELSE WHO WANTS TO  
15 VOLUNTEER AT THIS POINT FOR THIS. I DON'T KNOW IF  
16 ANY -- PROBABLY NOT OS OR SUE -- BUT ANYWAY, THAT WE  
17 KIND OF GET OUR HEADS TOGETHER AND DRAW UP A LIST OF  
18 PEOPLE THAT MIGHT BE WORTH TALKING TO AND FIGURE OUT  
19 HOW TO MAKE THAT HAPPEN. PEOPLE LIKE ART LEVINSON  
20 AND RICHARD SCHELLER. THAT WAS REAL EASY. THEY  
21 LIVE HERE LOCALLY. WE COULD JUST DO IT OVER DINNER  
22 SOME EVENING OR SOMETHING LIKE THAT WITH  
23 INDIVIDUALS.

24 CHAIRMAN THOMAS: I'VE GOT SOME INSIGHT ON  
25 THE GOOGLE PROGRAM. WE CAN TALK ABOUT IT AT A

## BARRISTERS' REPORTING SERVICE

1 DIFFERENT POINT IN TERMS OF WHAT GOOGLE VENTURES IS  
2 LOOKING TO FUND AS IT SET UP THIS ENTERPRISE AND THE  
3 SORTS OF THINGS THEY'RE INTERESTED IN.

4 CHAIRMAN JUELSGAARD: THAT'S ONE TO-DO.  
5 WHAT ELSE? ELONA, WHAT DID YOU HEAR COMING OUT OF  
6 DISCUSSION

7 DR. DULIEGE: WE SAID THE SAME ABOUT VC'S  
8 EVEN IF IT'S NOT THE NO. 1 PRIORITY, AND LIKEWISE  
9 I'M HAPPY TO (UNINTELLIGIBLE) THERE.

10 CHAIRMAN JUELSGAARD: I THINK IT'S WORTH  
11 SPENDING SOME TIME ON THAT, BUT I THINK WHAT WE  
12 SHOULD REALLY DO IS TRY AND IDENTIFY THOSE THAT ARE  
13 REALLY POTENTIALLY INTERESTED BECAUSE THERE ARE A  
14 LOT OF THOSE ORGANIZATIONS OUT THERE, MY SENSE IS  
15 THAT, AS SOMEBODY SAID EARLIER, THEY'RE MUCH MORE  
16 RISK AVERSE THESE DAYS GIVEN THE REALLY LONG  
17 TIMELINES ASSOCIATED WITH RETURNS COMPARED TO OTHER  
18 INVESTMENTS YOU COULD BE MAKING IN OTHER THINGS THAT  
19 RETURN MUCH MORE QUICKLY.

20 CHAIRMAN THOMAS: CAN I JUST MAKE ONE  
21 COMMENT ON THAT? I THINK THERE'S AN EXCEPTION TO  
22 THAT, AND THAT'S THE IN-HOUSE VC'S AT BIG PHARMA.  
23 AND THAT TO ME SHOULD BE ONE OF OUR BIGGEST TARGET  
24 AREAS BECAUSE THEY ARE INCLINED TO BE IN THE FIELD.  
25 THEY'VE GOT THE WHEREWITHAL TO BE IN THE FIELD.

**BARRISTERS' REPORTING SERVICE**

1           CHAIRMAN JUELSGAARD:  AGREE.  WE SHOULD  
2           TRY AND IDENTIFY THE IN-HOUSE VC FUNDS WHO HAVE THE  
3           MANAGEMENT, FOR EXAMPLE, AS ONE.

4           CHAIRMAN THOMAS:  THEY ALL DO.

5           MS. BAUM:  WE'VE MET A LOT.  THEY'RE AT  
6           THE ONE-ON-ONE PARTNERING TOO.  WHAT I SHOULD DO IS  
7           PROBABLY GIVE YOU THE LIST OF SOME OF THE KEY PEOPLE  
8           WE'VE MET WITH, THE DATE AND WHO WERE ABLE TO MEET  
9           WITH TOO.

10          CHAIRMAN JUELSGAARD:  SO THE IDEA WOULD BE  
11          TO KEEP FOLLOWING UP WITH THEM PERIODICALLY TO SEE  
12          IF THERE'S ANY INTEREST, OR SOMETHING, A TELEPHONE  
13          CALL.

14          CHAIRMAN THOMAS:  THE GUY WHO CAN GET YOU  
15          TO A BUNCH OF THEM IS COREY.  HE KNOWS A LOT OF  
16          THEM.  I KNOW THAT HE AGREES THAT THEY'RE A VERY  
17          FERTILE GROUND FOR DISCUSSION.

18          MS. BAUM:  ON THE TO-DO LIST, I THINK WE  
19          SHOULD MAYBE REVISIT INTERNALLY IF WE MIGHT BE  
20          INTERESTED IN THESE FACE-TO-FACE REVIEWS FOR  
21          INDUSTRY.  WE'VE HAD ONE OF OUR SESSIONS DISCUSS  
22          ABOUT THAT.

23          CHAIRMAN JUELSGAARD:  I THINK I'D RESPOND  
24          TO DO A DIFFERENT ISSUE, WHICH IS WHY THERE'S SUCH A  
25          HIGH FAILURE RATE AT THE LEVEL OF THE GRANTS WORKING

## BARRISTERS' REPORTING SERVICE

1 GROUP PROJECTS MAKING TIER I, FOR EXAMPLE. SOMEBODY  
2 SUGGESTED THERE'S JUST NOT THE QUALITY OF  
3 PRESENTATION WE WANT. WHY IS THAT TRUE? IT'S  
4 BECAUSE THAT'S NOT WHAT THEY DO. THAT'S NOT HOW  
5 THEY DEAL WITH THE WORLD. THEY DEAL IN A VERY  
6 DIFFERENT FASHION AND ARE NOT USED TO WRITING NIH  
7 GRANTS. I DON'T KNOW THAT THAT REALLY IMPACTS -- I  
8 THINK THAT'S A GREAT SEPARATE THING TO DISCUSS, BUT  
9 IT'S KIND OF ASIDE FROM WHAT WE'RE TRYING --

10 MS. BAUM: IT'S NOT THE PARTNERSHIP.  
11 MENTOR LIST, I COULD USE HELP WITH IF YOU DO THINK  
12 THERE ARE PEOPLE THAT ARE WILLING TO USE THEIR  
13 EXPERTISE WITH A SPECIFIC GRANTEE, THAT WOULD BE  
14 GREAT. SO I COULD JUST USE A COLLECTION OF MENTORS,  
15 INTERESTED MENTORS.

16 CHAIRMAN JUELSGAARD: WOULD WE BE WILLING  
17 TO FINANCIALLY SUPPORT A MENTORING PROGRAM AS  
18 OPPOSED TO JUST A --

19 DR. TROUNSON: IT COMES FROM SAVINGS.  
20 WE'VE GOT TO TAKE IT OUT OF MANAGEMENT. WE'D HAVE  
21 TO SORT OF FIGURE IT INTO THE BUDGET. IF IT COMES  
22 OUT OF RESEARCH, IT HAS TO BE VOTED THROUGH THE  
23 GRANTS WORKING GROUP.

24 DR. FEIGAL: JUST FROM THE CDAP, AN  
25 HONORARIUM FOR VERY DISTINGUISHED PEOPLE, BUT

## BARRISTERS' REPORTING SERVICE

1 THEY'RE NOT DOING IT FOR THE SALARY. SOME OF THEM  
2 ACTUALLY WOULD DO IT FOR PROBABLY A PRETTY MODEST  
3 AMOUNT.

4 CHAIRMAN JUELSGAARD: I GUESS WHAT I WAS  
5 THINKING ABOUT, SO THERE ARE CONSULTING FIRMS THAT  
6 KNOW THIS INDUSTRY VERY WELL AND KNOW HOW TO MAKE  
7 PITCHES, ETC., BUT THEY DON'T WORK FOR FREE. THEY  
8 WORK FOR MONEY, SO THEY WOULD BE A SOURCE.

9 DR. TROUNSON: WE JUST NEED TO BUILD IT  
10 INTO THE BUDGET.

11 CHAIRMAN JUELSGAARD: AT LEAST TAKE A LOOK  
12 AT IT AND SEE WHAT YOU THINK. WE COULD LIST AN  
13 ENTERPRISE LIST AND GREAT MENTORING RESOURCES.

14 ANYTHING ELSE, ANYTHING THAT WE TALKED  
15 ABOUT THAT ANYBODY THINKS WE SHOULD FOLLOW UP ON?

16 DR. DULIEGE: I WILL FORWARD THE LINK TO  
17 THIS GSBI ENTREPRENEURSHIP AT SANTA CLARA IF SEVERAL  
18 OF YOU WANT TO TAKE A LOOK AT IT, AND I WILL BE MORE  
19 THAN HAPPY TO INTRODUCE CIRM TO THE HEAD OF THIS  
20 GROUP JUST TO SEE IF THERE'S A VALUE IN LOOKING AT  
21 HOW THEY'VE BEEN DOING THIS AND EXPANDING AND ANY  
22 GOOD TIPS FOR US.

23 CHAIRMAN JUELSGAARD: I'M AT LEAST JUST  
24 INTERESTED IN JUST LOOKING ONLINE AT THEIR MODEL,  
25 ANNE-MARIE, AND SEE IF THERE'S ANYTHING WE COULD

**BARRISTERS' REPORTING SERVICE**

1 LEARN FROM THAT THAT MIGHT BE OF VALUE IN TERMS OF  
2 WHAT WE DO. I'M NOT SURE THAT THERE IS, BUT IT'S  
3 WORTH AT LEAST TAKING A LOOK AT. THAT WAS MY  
4 INTEREST IN IT.

5 ANYTHING ELSE? ALL RIGHT. WELL, ANY  
6 COMMENT FROM THE PUBLIC BEFORE WE ADJOURN? ALL  
7 RIGHT. NO COMMENTS, MEETING IS ADJOURNED.

8 (THE MEETING WAS THEN CONCLUDED AT 02:59  
9 PM.)

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**BARRISTERS' REPORTING SERVICE**

REPORTER'S CERTIFICATE

I, BETH C. DRAIN, A CERTIFIED SHORTHAND REPORTER IN AND FOR THE STATE OF CALIFORNIA, HEREBY CERTIFY THAT THE FOREGOING TRANSCRIPT OF THE TELEPHONIC PROCEEDINGS BEFORE THE INTELLECTUAL PROPERTY AND INDUSTRY SUBCOMMITTEE TO THE INDEPENDENT CITIZEN'S OVERSIGHT COMMITTEE OF THE CALIFORNIA INSTITUTE FOR REGENERATIVE MEDICINE IN THE MATTER OF ITS REGULAR MEETING HELD ON MONDAY, SEPTEMBER 23, 2013, 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.

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