

**CONNECTICUT STEM CELL RESEARCH ADVISORY COMMITTEE**  
**Minutes – Special Meeting**  
**Monday, June 9, 2014**

A special meeting of the Connecticut Stem Cell Research Advisory Committee (“Advisory Committee”) was held on Monday, June 9, 2014, at the Hilton Hotel, 315 Trumbull Street, Hartford, Connecticut.

**Call to Order:** The meeting was called to order at 8:08 a.m. Members present: Treena Livingston Arinzeh, Ph.D.; Richard H. Dees, Ph.D.; Sandra Engle, Ph.D.; Gerald Fishbone, M.D.; David Goldhamer, Ph.D.; Robert Grosso; Christopher Heinen, Ph.D.; Ronald Hart, Ph.D.; James Hughes, Ph.D.; Ann Kiessling, Ph.D.; Diane Krause, M.D., Ph.D.; Jewel Mullen, M.D., M.P.H., M.P.A.; Paul Pescatello, J.D., Ph.D.; and Milton B. Wallack, D.D.S.

**Other Attendees:** Isolde Bates (UConn); Margaret Cartiera (CI); Terri Clark (CASE); Jeremy Crisp (CI); Ariel Drew (CI); Marianne Horn (DPH); Joe Landry (CI); Leslie Larson (CI); Claire Leonardi (CI); Glendowlyn Thames (CI); Rick Strauss (CASE); Paula Wilson (Yale); Gail Gregoriades (Post); Xin-Ming Ma (UCHC); June Mandelkern; Ivo Kalajzic (UCHC); Andrew Xian (Yale); Jiasheng Zheng (Yale); Jiangling Zhou (Yale)

**Opening Remarks:**

Attorney Horn welcomed everyone. She introduced Claire Leonardi for the legislative update. Ms. Leonardi reported that the Stem Cell Research Advisory Committee structure would remain the same, the appointing of the Advisory Committee members would also remain the same. The Commissioner of DPH or her designee would retain a Board seat. Ms. Leonardi from CI would become the Chair. The Peer Review Committee would be decreased to five members.

Existing Bond money will remain the same with 4% of funds allocated to operate for 2015. This decreases the amount of dollars the Board can allocate for 2015. There will be an additional four years added to the program with a 10 million dollar budget through 2019. CI will be responsible for compensating the peer reviewers and will align the process with the CBIF process in place.

A question arose if this change was good. Ms. Leonardi answered that administering the program between two separate agencies was inefficient. With CI's bioscience initiatives, it made sense to move the fund to CI. Commissioner Mullen added that there was an unsuccessful attempt to pass this legislation in the 2013 legislative session.

Attorney Horn introduced the court reporter and asked that members speak to the microphone placed near them.

Attorney Horn welcomed everyone and asked for individual introductions, and stated that funding for the 2014 grant round is contingent upon the receipt of funds from the State Bond Commission. She noted that only those members eligible to vote on a proposal should participate in the discussion and vote on the proposal. Attorney Horn noted that the meeting is a public meeting, and the discussions should be focused on the proposals being discussed. She asked the Advisory Committee to refrain from discussions about the proposals with the public or any of the other members during the breaks or lunch. Attorney Horn indicated that the reviews will begin with the Cores, Group, and Disease Specific Group proposals followed by the Established Investigator and Seed proposals. There are 39 proposals to be reviewed. In an effort to keep on track, Attorney Horn reviewed the times proposed to be allotted to review and discuss each the proposals from the respective categories. Following initial review, each of the proposals will be put into one of three categories-1) Yes Fund, 2) Maybe Fund, or 3) Not Fund. If a member has an objection, Attorney Horn asked that he or she express their objection immediately, and the proposal will be placed in the Maybe Fund category for further discussion during the second phase of the review.

Attorney Horn summarized the process agreed upon by the Advisory Committee members at the April 22, 2014 meeting for selecting the proposals from each category that would be reviewed by the Advisory Committee members.

Attorney Horn mentioned that following the selection of proposals to receive grant funding, additional proposals should be selected for a reserved list in the event one or more grants fail.

Attorney Horn said there will be a roll call for final votes.

### **Review of Core Proposals:**

Dr. Dees and Dr. Fishbone discussed the first Core grant proposal:

- 14-SCD-YALE-01 Lin \$499,974.00

The Advisory Committee members discussed the science, the proposed projects, the peer review scores and peer review recommendations.

A comment arose that this core has been supported by the committee for years and it would be prudent for them to move towards obtaining more outside funding. Dr. Dees reported that they have received 3.8 million dollars in 8 years from the Stem Cell Fund. Dr. Heinen commented that core investments are important. Dr. Fishbone and Paul Pescatello said this core is worthy of support.

There being an objection to putting grant proposal 13-SCD-YALE-01, Lin, principal investigator, in the Yes Fund category, the proposal was put into the Maybe Fund category.

**MOTION:** Upon a motion made by Dr. Dees, seconded by Dr. Fishbone, the eligible Committee members voted in favor of putting Core grant proposal, 13-SCD-YALE-01, Lin, principal investigator, in the Preliminary Yes Fund category. **VOTE: 12-1-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Mullen, Pescatello and Wallack; Opposed: Kiessling; Recused: Krause) **MOTION PASSED**

Dr. Fishbone and Mr. Grosso discussed the second Core grant proposal:

- 14-SCD-UCHC-01 Xu & Lalande \$500,000.00

The Advisory Committee members discussed the peer review scores and comments. Some issues discussed were that Dr. Xu, the principal investigator, was no longer the lead PI. It was discussed that since Dr. Lalande's name was on the grant he would likely be named. Diane Krause indicated that Leann Crandall, the Lab Director, is a constant and will see to seamless continuation. A question was raised about how much UConn is contributing to the funding of this project.

There being an objection to putting grant proposal 14-SCD-UCHC-01, Xu & Lalande, principal investigators, in the Yes Fund category, the proposal was put into the Maybe Fund category.

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Pescatello, the eligible Committee members voted in favor of putting Group grant proposal, 14-SCD-UCHC-01, Xu & Lalande principal investigator, in the Yes Fund category. **VOTE: 11-1-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack) Opposed: Grosso; Recused: Goldhamer, Heinen) **MOTION PASSED**

Maybe Fund Core Proposals:

- 14-SCD-YALE-01 Lin \$499,974.00
- 14-SCD-UCHC-01 Xu & Lalande \$500,000.00

**Review of Group Proposal:**

Dr. Heinen and Dr. Goldhamer discussed the following Group proposal for

- 14-SCC-YALE-01 CRAFT \$1,499,600.00

The science, proposed project, peer review scores, and proposed funding level were discussed. A question was raised about future commercialization.

There being an objection to putting grant proposal 14-SCC-YALE-01, Craft principal investigator, in the Yes Fund category, the proposal was put into the Maybe Fund category.

**MOTION:** Upon a motion made by Dr. Goldhamer, seconded by Dr. Wallack, the eligible Committee members voted unanimously in favor of putting Group grant proposal 14-SCC-YALE-01, Craft, principal investigator, in the Preliminary Maybe Fund category. **VOTE: 12-1-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Hughes, Kiessling, Mullen, Pescatello and Wallack; Opposed: Heinen; Recused: Krause)  
**MOTION PASSED**

**Review of Disease-Directed Group Proposals:**

The respective Advisory Committee primary reviewers discussed the following four Disease-Directed Group proposals:

14-SCDIS-JAX-01 Mckeon	\$1,500,000.00
14-SCDIS-UCON-01 Rasmussen	\$1,500,000.00
14-SCDIS-UCHC-01 Chamberlain	\$1,500,000.00
14-SCDIS-UCHC-03 Rosenberg	\$1,500,000.00

The Advisory Committee members discussed the science, the proposed projects, the peer review scores and peer review recommendations.

There not being unanimous consensus among those eligible to vote, Disease-Directed grant proposal 14-SCDIS-JAX-01, Mckeon, was put in the Maybe Fund category.

**MOTION:** Upon a motion made by Dr. Krause, seconded by Dr. Hart, the eligible Committee members voted in favor of putting Disease-Directed grant proposal 14-SCDIS-JAX-01, Mckeon, principal investigator, in the Yes Fund category. **VOTE: 12-1-1** (In favor: Arinzeh, Dees, Fishbone, Grosso, Hart, Heinen, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Opposed: Engle; Recused: Goldhamer) **MOTION PASSED**

There not being unanimous consensus among those eligible to vote, Disease-Directed grant proposal 14-SCDIS-UCON-01, Rasmussen, was put in the Maybe Fund category.

**MOTION:** Upon a motion made by Dr. Kiessling, seconded by Dr. Fishbone, the eligible Committee members voted in favor of putting Disease-Directed grant proposal 14-SCDIS-UCONN-01, Rasmussen, principal investigator, in the Yes Fund category. **VOTE: 10-2-2** (In favor: Arinzeh, Dees, Fishbone, Grosso, Hart, Hughes, Kiessling, Mullen, Pescatello and Wallack; Opposed: Engle; Krause; Recused: Heinen, Goldhamer) **MOTION PASSED**

There being unanimous consensus among those eligible to vote, Disease-Directed grant proposal 14-SCDIS-UCHC-01, Chamberlain, was put in the Yes Fund category.

**MOTION:** Upon a motion made by Dr. Engle, seconded by Dr. Arinzeh, the eligible Committee members voted in favor of putting Disease-Directed grant proposal 14-SCDIS-UCHC-01, Chamberlain, principal investigator, in the Yes Fund category. **VOTE: 12-0-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Recused: Goldhamer, Heinen) **MOTION PASSED**

There being unanimous consensus among those eligible to vote, Disease-Directed grant proposal 14-SCDIS-UCONN-03, Rosenberg, was put in the Not Fund category.

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Hart, the eligible Committee members voted in favor of putting Disease-Directed grant proposal 14-SCDIS-UCHC-03, Rosenberg, principal investigator, in the Not Fund category. **VOTE: 12-0-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Recused: Heinen, Goldhamer) **MOTION PASSED**

RECAP

Preliminary Yes Fund Disease-Directed Proposal:

- 14-SCDIS-UCHC-01 Chamberlain

Maybe Fund Disease-Directed Proposal:

- 14-SCDIS-JAX-01 Mckeon
- 14-SCDIS-UCONN-01 Rasmussen

Not Fund Disease-Directed Proposal:

- 14-SCDIS-UCHC-03 Rosenberg

**Second Review of the Maybe Core Proposals:**

The Advisory Committee members discussed Core proposals 14-SCD-YALE-01 and 14-SCD-UCHC-01 for a second time.

**MOTION:** Upon a motion made by Dr. Dees, seconded by Dr. Fishbone, the eligible Committee members voted in favor of putting Core grant proposal, 14-SCD-YALE-01, Lin, principal investigator, in the Yes Fund category. **VOTE: 12-1-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Mullen, Pescatello and Wallack; Opposed: Kiessling; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Pescatello, the eligible Committee members voted unanimously in favor of putting Group grant proposal, 14-SCD-UCHC-01, Xu & Lalande principal investigator, in the Yes Fund category. **VOTE: 12-0-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Recused: Goldhamer, Heinen) **MOTION PASSED**

A formal personnel change needs to be submitted regarding Dr. Xu leaving and Dr. Lalande taking over as PI.

**Second Review of the Maybe Fund Group Proposal:**

**MOTION:** Upon a motion made by Dr. Goldhamer, seconded by Dr. Wallack, the eligible Committee members voted unanimously in favor of putting Group grant proposal 14-SCC-YALE-01, Craft, principal investigator, in the Preliminary Maybe Fund category. **VOTE: 13-0-1**(In favor: Arinzeh,

Dees, Engle, Fishbone, Goldhamer, Grosso: Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**Second Review of the Maybe Fund Disease Directed Group Proposals:**

The Advisory Committee members reviewed the Disease Directed Proposals put into the Maybe Fund category.

**MOTION:** Upon a motion made by Dr. Krause, seconded by Dr. Hart, the eligible Committee members voted in favor of putting Disease-Directed grant proposal 14-SCDIS-JAX-01, Mckeon, principal investigator, in the Yes Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello, Heinen and Wallack; Recused: Goldhamer) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Engle, the eligible Committee members voted in favor of putting Disease-Directed grant proposal, 14-SCDIS-UCONN-01 Rasmussen, principal investigator, in the Not Fund category. **VOTE: 12-1-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Opposed: Kiessling; Recused: Heinen, Goldhamer) **MOTION PASSED**

**Review of Established Investigator Proposals:**

The two respective Advisory Committee primary reviewers discussed the following 18 Established Investigator grant proposals:

14-SCB-UCHC-11, Ma, principal investigator, grant request \$750,000

14-SCB-UCHC-02, Finck, principal investigator, grant request \$750,000

14-SCB-YALE-02, Crews, principal investigator, grant request \$750,000

14-SCB-YALE-05, Zhou, principal investigator, grant request \$750,000

14-SCB-YALE-16, Ivanova, principal investigator, grant request \$750,000

14-SCB-YALE-18, Rizzolo, principal investigator, grant request \$750,000

14-SCB-YALE-11, Garcia-Castro, principal investigator, grant request \$750,000

14-SCB-YALE-08, Bennett, principal investigator, grant request \$750,000  
14-SCB-YALE-10, Zhong, principal investigator, grant request \$750,000  
14-SCB-YALE-17, Min, principal investigator, grant request \$750,000  
14-SCB-YALE-23, Vaccarino, principal investigator, grant request \$750,000  
14-SCB-JAX-01, Xian, principal investigator, grant request \$750,000  
14-SCB-UCHC-13, Li, principal investigator, grant request \$750,000  
14-SCB-YALE-03, Greco, principal investigator, grant request \$750,000  
14-SCB-UCHC-03, Chhabra, principal investigator, grant request \$750,000  
14-SCB-UCON-04, Krueger, principal investigator, grant request \$750,000  
14-SCB-UCHC-09, Anguila, principal investigator, grant request \$750,000  
14-SCB-YALE-04, Askenase, principal investigator, grant request \$750,000

After discussing each of the proposals, the following motions were made:

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Kiessling, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-UCHC-11, Ma, principal investigator, in the Yes Fund category. **VOTE: 12-0-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Recused: Goldhamer, Heinen) **MOTION PASSED**

The two primary Advisory Committee members recommended putting grant proposal 14-SCB-UCHC-02, Finck, principal investigator, in the Yes Fund category. However, there was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCB-UCHC-02, was put into the Maybe category.

**MOTION:** Upon a motion made by Dr. Pescatello, seconded by Dr. Krause, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-UCHC-02, Finck, principal investigator, in the Preliminary Maybe Fund category. **VOTE: 9-3-2** (In favor: Arinzeh, Dees, Fishbone, Grosso, Hughes, Kiessling, Krause, Mullen, Pescatello; Recused: Engle, Wallack, Hart; Abstained: Heinen, Goldhamer) **MOTION PASSED**

The two primary Advisory Committee members recommended putting grant proposal, 14-SCB-YALE-02, Crews, principal investigator, in the Not Fund category. However, there was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCB-YALE-02, was put into the Maybe category.

**MOTION:** Upon a motion made by Dr. Goldhamer, seconded by Dr. Dees, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-02, Crews, principal investigator, in the Not Fund Category. **VOTE: 12-1-1** (In favor: Arinzeh, Dees, Fishbone, Grosso, Hughes, Kiessling, Heinen, Goldhamer, Mullen, Pescatello, Engle, Hart; Opposed: Wallack; Recused: Krause) **MOTION PASSED**

The two primary Advisory Committee members recommended putting grant proposal, 14-SCB-YALE-05, Zhou, principal investigator, in the Yes Fund category. However, there was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCB-YALE-05, was put into the Maybe category.

**MOTION:** Upon a motion made by Dr. Dees, seconded by Dr. Heinen, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-05, Zhou, principal investigator, in the Yes Fund Category. **VOTE: 10-3-1** (In favor: Arinzeh, Dees, Grosso, Hughes, Kiessling, Heinen, Goldhamer, Mullen, Pescatello, Wallack; Opposed: Engle, Hart, Fishbone; Recused: Krause) **MOTION PASSED**

The two primary Advisory Committee members recommended putting grant proposal, 14-SCB-YALE-16, Ivanova, principal investigator, in the Yes Fund category. However, there was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCB-YALE-16, was put into the Maybe category.

**MOTION:** Upon a motion made by Dr. Dees, seconded by Dr. Arinzeh, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-16, Ivanova, principal investigator, in the Yes Fund Category. **VOTE: 12-1-1** (In favor: Arinzeh, Dees, Grosso, Hughes, Kiessling, Heinen, Goldhamer, Mullen, Pescatello, Wallack, Engle, Hart; Opposed: Fishbone; Recused: Krause) **MOTION PASSED**

The two primary Advisory Committee members recommended putting grant proposal, 14-SCB-YALE-18, Rizzolo, principal investigator, in the Yes Fund category. However, there

was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCB-YALE-18, was put into the Maybe category.

**MOTION:** Upon a motion made by Dr. Engle, seconded by Dr. Fishbone, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-18, Rizzolo, principal investigator, in the Yes Fund Category. **VOTE: 12-1-1** (In favor: Arinzeh, Dees, Grosso, Hughes, Fishbone, Heinen, Goldhamer, Mullen, Pescatello, Wallack, Engle, Hart; Opposed: Kiessling; Recused: Krause) **MOTION PASSED**

The two primary Advisory Committee members recommended putting grant proposal 14-SCB-YALE-11, Garcia-Castro, principal investigator, in the Yes Fund category. However, there was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCB-YALE-11, was put into the Maybe category.

**MOTION:** Upon a motion made by Mr. Grosso, seconded by Dr. Goldhamer, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-11, Garcia-Castro, principal investigator, in the Yes Fund Category. **VOTE: 9-4-1** (In favor: Arinzeh, Goldhamer, Grosso, Heinen, Kiessling Mullen, Pescatello, Wallack, Engle; Opposed: Fishbone, Hughes, Dees, Hart; Recused: Krause) **MOTION PASSED**

Advisory Board Members made a comment at this time about including in RFP proposals going forward what the direct translational and clinical application is of the basic research described will be.

The two primary Advisory Committee members recommended putting grant proposal 14-SCB-YALE-08, Bennett, principal investigator, in the Not Fund category. However, there was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCB-YALE-08, was put into the Maybe category.

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Hart, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-08, Bennett, principal investigator, in the Not Fund Category. **VOTE: 12-1-1** (In favor: Arinzeh, Grosso, Heinen, Goldhamer, Mullen, Pescatello, Wallack, Fishbone, Hughes, Dees, Hart, Hughes; Opposed: Engle; Recused: Krause) **MOTION PASSED**

The two primary Advisory Committee members recommended putting grant proposal, 14-SCB-YALE-10, Dr. Zhong, principal investigator, in the Yes Fund category. However, there was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCB-YALE-10, was put into the Maybe category.

**MOTION:** Upon a motion made by Dr. Pescatello, seconded by Kiessling, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-10, Zhong, principal investigator, in the Yes Fund Category. **VOTE: 10-3-1** (In favor: Arinzeh, Grosso, Heinen, Goldhamer, Mullen, Pescatello, Hughes, Dees, Engle, Kiessling; Opposed: Fishbone, Hart, Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Heinen, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-17, Min, principal investigator, in the Yes Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Fishbone, seconded by Dr. Wallack, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-23, Vaccarino, principal investigator, in the Not Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Engle, seconded by Dr. Dees, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-JAX-01, Xian, principal investigator, in the Not Fund category. **VOTE: 14-0-0** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Hart, seconded by Dr. Grosso, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-UHC-13, Li, principal investigator, in the Not Fund category. **VOTE: 12-0-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Recused: Goldhamer, Heinen) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Goldhamer, seconded by Dr. Pescatello, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-03, Greco, principal investigator, in the Not Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Kiessling, seconded by Dr. Hughes, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-UCHC-03, Chhabra, principal investigator, in the Not Fund category. **VOTE: 12-0-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Recused: Goldhamer, Heinen) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Krause, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-UCON-04, Krueger, principal investigator, in the Not Fund category. **VOTE: 12-0-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Recused: Goldhamer, Heinen) **MOTION PASSED**

**MOTION:** Upon a motion made by Mr. Grosso, seconded by Dr. Arinzeh, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-UCHC-09, Anquila, principal investigator, in the Not Fund category. **VOTE: 12-0-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Recused: Goldhamer, Heinen) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Engle, seconded by Dr. Hughes, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-04, Askenase, principal investigator, in the Not Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

RECAP

Preliminary Yes Fund Established Investigator Proposals:

- 14-SCB-UCHC-11
- 14-SCB-YALE-17

Maybe Fund Established Investigator Proposals:

- 14-SCB-UCHC-02
- 14-SCB-YALE-02
- 14-SCB-YALE-05
- 14-SCB-YALE-16
- 14-SCB-YALE-18
- 14-SCB-YALE-11
- 14-SCB-YALE-08
- 14-SCB-YALE-10

Not Fund Established Investigator Proposals:

- 14-SCB-YALE-23
- 14-SCB-JAX-01
- 14-SCB-UCHC-13
- 14-SCB-YALE-03
- 14-SCB-UCHC-03
- 14-SCB-UCON-04
- 14-SCB-UCHC-09
- 14-SCB-YALE-04

**Second Review of Maybe Fund Established Investigator Proposals:**

The Advisory Committee members considered the Established Investigator proposals in the Maybe Fund category.

**MOTION:** Upon a motion made by Dr. Krause, seconded by Dr. Pescatello, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-UCHC-02, Finck, principal investigator, in the Yes Fund category. **VOTE: 10-2-2** (In favor: Arinzeh, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Opposed: Dees, Engle; Recused: Goldhamer, Heinen)  
**MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Goldhamer, seconded by Dr. Hart, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-02, Crews, principal investigator, in the Not to Fund category. **VOTE: 11-2-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Kiessling, Mullen, Pescatello; Opposed: Wallack, Hughes; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Dees, seconded by Dr. Hart, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-05, Zhou, principal investigator, in the Not to Fund category. **VOTE: 12-1-1** (In favor: Arinzeh, Dees, Engle, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Opposed: Fishbone; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Goldhamer, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-16, Ivanova, principal investigator, in the Yes Fund category. **VOTE: 11-2-1** (In favor: Arinzeh, Engle, Fishbone, Goldhamer, Grosso, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Opposed: Hart, Dees; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Fishbone, seconded by Dr. Engle, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-18, Rizzolo, principal investigator, in the Yes Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Grosso, seconded by Dr. Goldhamer, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-11, Garcia-Castro, principal investigator, in the Yes Fund category. **VOTE: 11-2-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Heinen, Kiessling, Mullen, Pescatello and Wallack; Opposed: Hughes, Hart; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Hart, seconded by Dr. Hughes, the eligible Committee members voted in favor of putting Established

Investigator grant proposal 14-SCB-YALE-08, Bennett, principal investigator, in the Not Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Pescatello, seconded by Dr. Kiessling, the eligible Committee members voted in favor of putting Established Investigator grant proposal 14-SCB-YALE-10, Zhong, principal investigator, in the Yes Fund category. **VOTE: 11-2-1** (In favor: Arinzeh, Dees, Fishbone, Goldhamer, Grosso, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Opposed: Engle, Hart; Recused: Krause) **MOTION PASSED**

**Review of Seed Proposals:**

The Advisory Committee discussed the following 14 Seed grant proposals:

14-SCA-YALE-18, Ghaedi, principal investigator, grant request of \$200,000

14-SCA-YALE-15, Hirschi, principal investigator, grant request of \$200,000

14-SCA-YALE-22, Katz, principal investigator, grant request of \$200,000

14-SCA-UCHC-07, Covault, principal investigator, grant request of \$200,000

14-SCA-YALE-05, Park, principal investigator, grant request of \$200,000

14-SCA-YALE-11, Wang, principal investigator, grant request of \$200,000

14-SCA-YALE-20, Liu, principal investigator, grant request of \$200,000

14-SCA-UCHC-02, Matthews, principal investigator, grant request of \$200,000

14-SCA-YALE-25, Dash, principal investigator, grant request of \$200,000

14-SCA-YALE-40, Ren, principal investigator, grant request of \$200,000

14-SCA-UCHC-05, Yue, principal investigator, grant request of \$200,000

14-SCA-YALE-06, Jonas, principal investigator, grant request of \$200,000

14-SCA-YALE-23, Bahal, principal investigator, grant request of \$200,000

14-SCA-YALE-38, Chandra, principal investigator, grant request of \$200,000

After discussing the proposed projects, the science, the peer review scores and Advisory Committee reviewers' recommendations, the following motions were made:

**MOTION:** Upon a motion made by Dr. Heinen, seconded by Dr. Pescatello, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-YALE-18, Ghaedi, principal investigator, in the Yes Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Heinen, the eligible Committee members voted in favor of putting Seed grant proposal, 14-SCA-YALE-15 Hirschi, principal investigator, in the Not Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Dees, seconded by Dr. Hughes, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-YALE-22, Katz, principal investigator, in the Yes Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Hart, seconded by Dr. Dees, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-UHC-07, Covault, principal investigator, in the Not Fund category. **VOTE: 11-0-3** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Goldhamer, Heinen, Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Goldhamer, seconded by Dr. Fishbone, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-YALE-05, Park, principal investigator, in the Yes Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Grosso, seconded by Dr. Kiessling, the eligible Committee members voted in favor of putting Seed

grant proposal 14-SCA-YALE-11, Wang, principal investigator, in the Not Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

The two primary Advisory Committee members recommended putting grant proposal, 14-SCA-YALE-20, Liu, principal investigator, in the Yes fund category. However, there was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCB-YALE-20, was put into the Maybe category.

**MOTION:** Upon a motion made by Dr. Pescatello, seconded by Dr. Heinen, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-YALE-20, Liu, principal investigator, in the Preliminary Yes Fund Category. **VOTE: 12-1-1** (In favor: Arinzeh, Grosso, Heinen, Goldhamer, Mullen, Pescatello, Wallack, Fishbone, Hughes, Dees, Hart, Kiessling; Opposed: Engle; Recused: Krause) **MOTION PASSED**

The two primary Advisory Committee members recommended putting grant proposal 14-SCA-UCHC-02, Matthews, principal investigator, in the Yes Fund category. However, there was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCA-UCHC-02, was put into the Maybe category.

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Dees, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-UCHC-02, Matthews, principal investigator, in the Preliminary Yes Fund Category. **VOTE: 9-3-2** (In favor: Arinzeh, Mullen, Pescatello, Wallack, Fishbone, Hughes, Dees, Krause, Kiessling; Opposed: Engle, Hart, Grosso; Recused: Goldhamer, Heinen). **MOTION PASSED**

The two primary Advisory Committee members recommended putting grant proposal 14-SCA-YALE-25, Dash, principal investigator, in the Yes Fund category. However, there was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCA-YALE-25, was put into the Maybe category.

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Arinzeh, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-YALE-25, Dash, principal investigator, in the Preliminary Yes Fund Category. **VOTE: 7-5-2** (In favor: Arinzeh, Mullen, Pescatello, Wallack, Dees, Grosso, Krause; Opposed: Engle, Fishbone, Hart, Kiessling, Hughes; Recused: Goldhamer, Heinen). **MOTION PASSED**

The two primary Advisory Committee members recommended putting grant proposal 14-SCA-YALE-40, Ren, principal investigator, in the Not Fund category. However, there was not unanimous consensus among the Committee members eligible to vote, and grant proposal 14-SCA-YALE-40, was put into the Maybe category.

**MOTION:** Upon a motion made by Dr. Kiessling, seconded by Dr. Wallack, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-YALE-40, Ren, principal investigator, in the Not Fund Category. **VOTE: 12-1-1** (In favor: Arinzeh, Mullen, Pescatello, Wallack, Fishbone, Grosso, Goldhamer, Heinen, Engle, Hart, Kiessling, Hughes; Opposed: Dees; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Krause, seconded by Mr. Grosso, the eligible Committee members voted in favor of putting Seed grant proposal, 14-SCA-UCHC-05 Yue, principal investigator, in the Not Fund category. **VOTE: 12-0-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack; Recused: Goldhamer, Heinen) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Hart, seconded by Dr. Fishbone, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-YALE-06, Jonas, principal investigator, in the Not Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Engle, seconded by Dr. Wallack, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-YALE-23, Bahal, principal investigator, in the Not Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Goldhamer, seconded by Dr. Hart, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-YALE-38, Chandra, principal investigator, in the Yes Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

RECAP

Preliminary Fund Seed Proposals:

14-SCA-YALE-18  
14-SCA-YALE-22  
14-SCA-YALE-05  
14-SCA-YALE-38

Maybe Fund Seed Proposals

14-SCA-YALE-20  
14-SCA-UCHC-02  
14-SCA-YALE-25  
14-SCA-YALE-40

Not Fund Seed Proposals:

14-SCA-YALE-15  
14-SCA-UCHC-07  
14-SCA-YALE-11  
14-SCA-UCHC-05  
14-SCA-YALE-06  
14-SCA-YALE-23

**Second Review of Seed Proposals in Maybe Category:**

**MOTION:** Upon a motion made by Dr. Heinen, seconded by Dr. Goldhamer, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-YALE-20, Liu, principal investigator, in the Yes Fund category. **VOTE: 12-1-1** (In favor: Arinzeh, Dees, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Opposed: Engle; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Krause, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-UCHC-02, Matthews, principal investigator, in the Yes Fund category. **VOTE: 9-3-2**(In favor: Arinzeh, Dees, Fishbone, Grosso, Hughes, Krause, Mullen, Pescatello and Wallack; Opposed: Hart, Engle, Kiessling; Recused: Goldhamer, Heinen) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Fishbone, the eligible Committee members voted in favor of putting Seed

grant proposal 14-SCA-YALE-25, Dash, principal investigator, in the Not Fund category. **VOTE: 3-9-2** (In favor: Goldhamer, Mullen, and Wallack; Opposed: Fishbone, Arinzeh, Dees, Engle, Hart, Heinen, Hughes, Kiessling, Pescatello; Recused: Krause, Grosso) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Dees, seconded by Dr. Hart, the eligible Committee members voted in favor of putting Seed grant proposal 14-SCA-YALE-40, Ren principal investigator, in the Not Fund category. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

### **Final Vote on Funding for Group Proposals:**

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Grosso, the eligible Committee members voted unanimously in favor of providing funding for Group proposal 14-SCC-YALE-01, “*Studying the Therapeutic Role of iPSCs in Human Lupus*,” Craft, principal investigator, in the amount of \$1,200,000. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

Because the approved funding amount is less than the submitted budget, the principal investigator will need to submit updated budget information and if affected, updated proposed aims.

### **Final Vote on Funding for Disease Directed Group Proposals:**

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Kiessling, the eligible Committee members voted unanimously in favor of providing funding for Group proposal 14-SCDIS-JAX-01, “*Mechanisms of Crohn’s Disease Revealed by Patient-Specific Stem Cells*,” Mckeeon, principal investigator, in the amount of \$1,100,000. **VOTE: 14-0-0** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Krause, Mullen, Pescatello and Wallack) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Engle, seconded by Dr. Wallack, the eligible Committee members voted unanimously in favor of providing funding for Group proposal 14-SCDIS-UHC-01, “*Using Dup15q iPSCs to explore the genetics and synaptic pathophysiology of autism*,” Dr. Chamberlain, principal investigator, in the amount of \$1,100,000. **VOTE:**

**12-0-2** (In favor: Arinzeh, Dees, Engle, Fishbone, Grosso, Hart, Hughes, Kiessling, Krause Mullen, Pescatello and Wallack; Recused: Goldhamer, Heinen) **MOTION PASSED**

Because the approved funding amount is less than the submitted budget, the principal investigator will need to submit a revised budget.

**Final Funding of Established Investigator Proposals:**

**MOTION:** Upon a motion made by Dr. Kiessling, seconded by Dr. Hart, the eligible Committee members voted unanimously in favor of providing funding for Group proposal 14-SCB-YALE-10, "*Regulation of Stem Cell Self-Renewal and Differentiation during Human Neurogenesis,*" Zhong, principal investigator, in the amount of \$500,000. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Arinzeh, seconded by Dr. Engle, the eligible Committee members voted unanimously in favor of providing funding for Group proposal 14-SCB-YALE-16, "*Dissecting human embryonic stem cell pluripotency with functional genomics approaches,*" Ivanova, principal investigator, in the amount of \$500,000. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Engle, seconded by Dr. Dees, the eligible Committee members voted unanimously in favor of providing funding for Group proposal 14-SCB-YALE-18, "*Reconstruction of an outer retina for transplantation and pharmaceutical testing,*" Rizzolo, principal investigator, in the amount of \$500,000. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Goldhamer, seconded by Mr. Grosso, the eligible Committee members voted unanimously in favor of providing funding for Group proposal 14-SCB-YALE-11, "*Modeling Pax7-associated craniofacial defects with Human ES derived neural crest* Garcia-Castro, principal investigator, in the amount of \$500,000. **VOTE:**

**13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

Because the approved funding amount is less than the submitted budget, the principal investigator will need to submit a revised budget.

**Reserve for Established Investigator Category:**

The Advisory Committee members considered Established Investigator grant proposal 14-SCB-YALE-02, Dr. Crews, principal investigator, for a reserve in the event one or more of the funded proposals does not come to fruition or there are funds remaining.

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Goldhamer, the eligible Committee members voted unanimously in favor of putting Established Investigator grant proposal 14-SCB-YALE-02, *“Mechanisms of In Vivo Cellular Dedifferentiation,”* Crews, principal investigator, as the first ranked reserved Established Investigator grant proposal for future consideration if the opportunity arises. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Dees, seconded by Dr. Hart, the eligible Committee members voted unanimously in favor of putting Established Investigator grant proposal 14-SCB-YALE-05, *“Patient specific neural stem cell mediated combination of systemic chemotherapy with local gene therapy for malignant gliomas,”* Zhou, principal investigator, as the second ranked reserved Established Investigator grant proposal for future consideration if the opportunity arises. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

**Vote on Reserve for Seed Category in Priority Order:**

The Advisory Committee members considered reserves from the Seed category in the event one or more of the funded Seed proposals does not come to fruition or there are funds remaining.

The following proposals were put in the Reserve for the Seed category, in rank order:

- 14-SCA-YALE-25, Dash, principal investigator
- 14-SCA-YALE-40, Ren, principal investigator

**MOTION:** Upon a motion made by Dr. Kiessling, seconded by Dr. Wallack, the eligible Committee members voted in favor of putting Seed proposal 14-SCA-YALE-25, "*Engineering of human pluripotent stem cell-derived pulsatile conduits,*" Dash, principal investigator, as the first ranked Seed reserve grant proposal for future consideration if the opportunity arises. **VOTE: 11-1-2** (In favor: Arinzeh, Dees, Fishbone, Goldhamer, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Opposed: Engle; Recused: Krause, Grosso) **MOTION PASSED**

**MOTION:** Upon a motion made by Dr. Wallack, seconded by Dr. Dees, the eligible Committee members voted in favor of putting Seed proposal 14-SCA-YALE-40, "*Investigation of Cerebral Amyloid Angiopathy-Related Vascular Pathology Using iPRCs from Down Syndrome Patients,*" Ren, principal investigator, as the second ranked Seed reserve grant proposal for future consideration if the opportunity arises. **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello, and Wallack; Recused: Krause) **MOTION PASSED**

### **Restoration of Funding**

#### *Established Investigator Grants*

Following the review of all of the grant proposals, there was approximately \$150,600 of funding remaining, and there was general consensus to restore this amount equally among grants 14-SCB-YALE-16, 14-SCB-YALE-18, 14-SCB-YALE-10 that had been reduced earlier in the meeting. This leaves a balance of \$34.00.

**MOTION:** Upon a motion made by Dr. Goldhamer, seconded by Dr. Pescatello, the eligible Committee members voted unanimously in favor of adding back \$50,200 to each of the Established Investigator grant proposals 14-SCB-YALE-16, 14-SCB-YALE-18, 14-SCB-YALE-10 **VOTE: 13-0-1** (In favor: Arinzeh, Dees, Engle, Fishbone, Goldhamer, Grosso, Hart, Heinen, Hughes, Kiessling, Mullen, Pescatello and Wallack; Recused: Krause) **MOTION PASSED**

Because the approved funding amount is less than the submitted budget, each principal investigator will need to submit a revised budget for the following grants:

14-SCB-YALE-16  
14-SCB-YALE-18  
14-SCB-YALE-10

**Summary of 2014 Grants by Category:**

**Core:**

- 14-SCD-YALE-01, *“Continued Support and Technology Development for Shared Core Facilities at the Yale Stem Cell Center “* Lin, principal investigator, in the amount of \$499,974.
- 14-SCD-UHC-01, *“UConn-Wesleyan Stem Cell Core”* Ren-Hu Xu & Marc Lalonde, in the amount of \$500,000.

**Group:**

- 14-SCC-YALE-01, *“Studying the Therapeutic Role of iPSCs in Human Lupus”* Joseph Craft, in the amount of \$1,200,000.

**Disease Directed Group:**

- 14-SCDIS-JAX-01, *“Mechanisms of Crohn's Disease Revealed by Patient-Specific Stem Cells”* Frank Mckeeon, in the amount of \$1,100,000.
- 14-SCDIS-UHC-01 *“Using Dup15q iPSCs to explore the genetics and synaptic pathophysiology of autism”* Stormy Chamberlain, in the amount of \$1,100,000.

**Established Investigator:**

- 14-SCB-UHC-11, *“Modeling human cortico-striatal circuit and understanding dendritic spines in schizophrenia”* Xin-Ming Ma, in the amount of \$750,000.
- 14-SCB-UHC-02, *“Use of neonatal Human Induced Pluripotent Stem Cells and Human Embryonic Stem Cells in Hyperoxia Induced Lung Injury”* Christine Finck, in the amount of \$750,000.
- 14-SCB-YALE-16, *“Dissecting human embryonic stem cell pluripotency with functional genomics approaches”* Natalia Ivanova, in the amount of \$550,200.

- 14-SCB-YALE-18, *“Reconstruction of an outer retina for transplantation and pharmaceutical testing”* Lawrence Rizzolo, in the amount of \$550,200.
- 14-SCB-YALE-11, *“Modeling Pax7-associated craniofacial defects with Human ES derived neural crest”* Martin Garcia-Castro, in the amount of \$500,000.
- 14-SCB-YALE-10, *“Regulation of Stem Cell Self-Renewal and Differentiation during Human Neurogenesis”* Weimin Zhong, in the amount of \$550,200.
- 14-SCB-YALE-17, *“TNFR-Bmx signaling in cardiac stem cells and cardiac repair”* Wang Min, in the amount of \$750,000.

**Seed:**

- 14-SCA-YALE-18, *“Engineering patient-specific tracheas using iPSC-derived airway epithelial cells”* Mahboobe Ghaedi, in the amount of \$199,892.
- 14-SCA-YALE-22, *“Use of human embryonic stem cells and murine neural stem cells to elucidate pro-apoptotic signaling in Glioblastoma”* Samuel Katz, in the amount of \$200,000.
- 14-SCA-YALE-05, *“Understanding mechanism of tissue repair by live imaging”* Sangbum Park, in the amount of \$200,000.
- 14-SCA-YALE-38, *“Human embryonic and patient-derived induced pluripotent stem cell models of neuronal ceroid lipofuscinosis”* Sreeganga Chandra, in the amount of \$200,000.
- 14-SCA-YALE-20, *“Investigating the role of RIFI in human embryonic stem cells”* Yifei Liu, in the amount of \$200,000.
- 14-SCA-UChC-02, *“In vivo characterization of periosteal mesenchymal stem cells”* Brya Matthews, in the amount of \$199,500

**Public Comments:**

Paula Wilson, on behalf of Yale, Isolde Bates (UConn) and the principal investigators present, thanked the Committee members for the time spent reviewing the grants.

Diane Krause thanked Attorney Horn for her service and mentioned her retirement. Commissioner Mullen thanked all the representatives who contribute to science in Connecticut and asked for a motion to adjourn.

**MOTION:** Upon a motion made by Dr. Hart, seconded by Dr. Hughes, the Committee voted unanimously in favor of adjourning the meeting at 5:22p.m.

Respectfully submitted:

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Dr. Jewel Mullen, Chair