

## 2024 Current Fiscal Year Report: Biology of Development and Aging Integrated Review Group

Report Run Date: 04/24/2024 10:24:32 AM

### 1. Department or Agency

Department of Health and Human Services

### 2. Fiscal Year

2024

### 3. Committee or Subcommittee

Biology of Development and Aging  
Integrated Review Group

### 3b. GSA

### Committee No.

1863

### 4. Is this New During Fiscal Year?

No

### 5. Current Charter Renewal Date

01/03/1994

### 7. Expected Term Date

### 8a. Was Terminated During Fiscal Year?

No

### 8b. Specific Termination Authority

### 8c. Actual Term Date

### 9. Agency Recommendation for Next Fiscal Year

Continue

### 10a. Legislation Req to Terminate?

Not Applicable

### 10b. Legislation Pending?

Not Applicable

### 11. Establishment Authority

Authorized by Law

### 12. Specific Establishment Authority

42 U.S.C. 282(b)(16)

### 13. Effective Date

11/20/1985

### 14. Committee Type

Continuing

### 14c. Presidential?

No

### 15. Description of Committee

Grant Review Committee

### 16a. Total Number of Reports

No Reports for  
this Fiscal Year

### 17a.

Open

0

17b. Closed

0

17c. Partially Closed

0

Other Activities

0

17d. Total

0

### Meetings and Dates

No Meetings

Current Next

FY

FY

<b>18a(1). Personnel Pmts to Non-Federal Members</b>	\$0.00	\$0.00
<b>18a(2). Personnel Pmts to Federal Members</b>	\$0.00	\$0.00
<b>18a(3). Personnel Pmts to Federal Staff</b>	\$0.00	\$0.00
<b>18a(4). Personnel Pmts to Non-Member Consultants</b>	\$0.00	\$0.00
<b>18b(1). Travel and Per Diem to Non-Federal Members</b>	\$0.00	\$0.00
<b>18b(2). Travel and Per Diem to Federal Members</b>	\$0.00	\$0.00
<b>18b(3). Travel and Per Diem to Federal Staff</b>	\$0.00	\$0.00
<b>18b(4). Travel and Per Diem to Non-member Consultants</b>	\$0.00	\$0.00
<b>18c. Other(rents,user charges, graphics, printing, mail, etc.)</b>	\$0.00	\$0.00
<b>18d. Total</b>	\$0.00	\$0.00
<b>19. Federal Staff Support Years (FTE)</b>	0.00	0.00

**20a. How does the Committee accomplish its purpose?**

Section 492 of the PHS Act states that The Secretary ... shall by regulation require appropriate technical and scientific peer review of -- (A) applications...; and (B) biomedical and behavioral research and development contracts . This committee is composed of recognized biomedical and/or behavioral research authorities who represent the forefront of research and technical knowledge and who provide first-level merit review of highly scientific and technical research grant applications and/or contract proposals in the fields of biology of human development and aging. During this reporting period the committee reviewed 1,232 applications requesting \$2,310,997,005.00.

**20b. How does the Committee balance its membership?**

This committee is composed of authorities knowledgeable in the disciplines and fields relation to basic and clinical aspects of morphogenesis and pattern formation; gastrulation; cell fate, lineage and differentiation; organogenesis; gametogenesis; pre- and post-implementation development; regeneration; evolutionary aspects of development; and the molecular basis of primordial birth defects; chromosome dynamics; cell cycle control; cell death; responses to stress; cellular signaling; the biology and applications of stem cells; tissue repair; determinants of longevity; age-related changes in physiological functions; geriatric syndromes and diseases; animal models of aging; predictive markers of biological health and aging; and mechanisms of exceptional aging.

**20c. How frequent and relevant are the Committee Meetings?**

The committee held 15 meetings during this reporting period.

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

This committee is composed of recognized biomedical and/or behavioral research authorities who represent the forefront of research and technical knowledge and who provide first-level merit review of highly scientific and technical research grant applications and contract proposals. These evaluations and recommendations cannot be obtained from other sources because the specialized, complex nature of the applications and proposals requires a unique balance and breadth of expertise not available on the NIH staff or from other

established sources.

**20e. Why is it necessary to close and/or partially closed committee meetings?**

Meetings were closed to the public for the review of grant applications. Sections 552b(c)(4) and 552b(c)(6) of the Government in the Sunshine Act permit the closing of meetings where discussions could reveal confidential trade secrets or commercial property such as patentable material and personal information, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

**21. Remarks**

This committee did not produce any public reports during the fiscal year. Due to the assignment of responsibilities within the Center, the roles of the committee designated federal official and committee decision maker are filled by the same individual. The following members' terms ended early: Drs. Neelam Azad (09/15/2023), Charles S Hemenway (06/23/2023), Flavia Pichiorri (10/19/2022), and Kavita Shah (01/30/2023). Drs. Alexander J Bishop, Wesley Bolch, Joseph Contessa, Paul R Lockman and Thomas Smithgall's roles changed to chairperson during the fiscal year. Dr. Thomas Smithgall was reappointed during the fiscal year. Due to the large number of members serving on this committee, NIH staff are unable to provide additional information on Occupation or Affiliation. Additional information on an individual's affiliation may be obtained by contacting the designated federal officer listed in this report. Zip Codes: Due to the large number of members associated with this committee, NIH staff are unable to provide individual zip codes for all members. Current individual meeting rosters, including zip codes are

available online at  
<https://public.csr.nih.gov/IRGs#BDA>. Dr. DeeDee Smart, a Regular Government Employee Member, was incorrectly identified as a Peer Review Consultant Member on the FY 2021 and FY 2022 reports.

## Designated Federal Officer

JOHN BOWERS DIRECTOR, DIVISION OF  
 TRANSLATIONAL AND CLINICAL SCIENCES

Committee Members	Start	End	Occupation	Member Designation
Abazeed, Mohamed	07/01/2021	06/30/2025	Associate Professor	Peer Review Consultant Member
Abdulkadir, Sarki	07/01/2022	06/30/2028	John T. Grayhack Professor	Peer Review Consultant Member
Acharya, Munjal	07/01/2023	06/30/2027	Associate Professor	Peer Review Consultant Member
Agazie, Yehenew	11/26/2020	06/30/2025	Professor	Peer Review Consultant Member
Aghi, Manish	11/26/2020	06/30/2025	Professor	Peer Review Consultant Member
Ahmed, Atique	11/26/2020	06/30/2024	Associate Professor	Peer Review Consultant Member
Aifantis, Iannis	07/01/2023	06/30/2027	Herman M. Biggs Professor and Chair	Peer Review Consultant Member
Aird, Katherine	07/01/2022	06/30/2026	Associate Professor	Peer Review Consultant Member
Alachkar, Houda	07/01/2023	06/30/2027	Associate Professor (Tenured)	Peer Review Consultant Member
Allen, Antino	07/01/2023	06/30/2029	Associate Professor	Peer Review Consultant Member
Aplin, Andrew	11/26/2020	06/30/2025	Professor	Peer Review Consultant Member
BYERS, Lauren	11/26/2020	06/30/2024	Associate Professor	Peer Review Consultant Member

Bazzaro, Martina	07/01/2023	06/30/2027	Associate Professor (Tenured)	Peer Review Consultant Member
Bishop, Alexander	07/01/2021	06/30/2025	Associate Professor	Peer Review Consultant Member
Bolch, Wesley	07/01/2021	06/30/2024	Distinguished Professor Radiological and Biomedical Engineering	Peer Review Consultant Member
Buolamwini, John	11/26/2020	06/30/2024	Chair and Professor	Peer Review Consultant Member
Burnett, Andrean	11/26/2020	06/30/2024	Associate Professor	Peer Review Consultant Member
Burnstein, Kerry	11/26/2020	06/30/2026	Associate Director and Professor	Peer Review Consultant Member
Cerchietti, Leandro	07/01/2021	06/30/2027	Associate Professor	Peer Review Consultant Member
Chandarlapaty, Sarat	11/26/2020	06/30/2026	Associate Professor	Peer Review Consultant Member
Chandra, Joya	07/01/2021	06/30/2024	Associate Professor	Peer Review Consultant Member
Chheda, Milan	07/01/2022	06/30/2026	Associate Professor	Peer Review Consultant Member
Contessa, Joseph	07/01/2021	06/30/2025	Professor	Peer Review Consultant Member
Deshpande, Aniruddha	07/01/2023	06/30/2027	Associate Professor	Peer Review Consultant Member
Donahue, Timothy	07/01/2022	06/30/2026	Professor and Chief, Division of Surgical Oncology	Peer Review Consultant Member
Dong, Yan	07/01/2021	06/30/2025	Professor	Peer Review Consultant Member
Dubielecka-Szczerba, Patrycja	07/01/2021	06/30/2025	Associate Professor	Peer Review Consultant Member
El Naqa, Issam	07/01/2022	06/30/2026	Senior Member, Professor, and Chair	Peer Review Consultant Member

Ellis, Leigh	07/01/2021	06/30/2025	Acting Associate Professor of Medicine	Peer Review Consultant Member
Faber, Anthony	07/01/2023	06/30/2027	Associate Professor	Peer Review Consultant Member
Furdui, Cristina	07/01/2021	06/30/2025	Professor	Peer Review Consultant Member
GERMAIN, Doris	11/26/2020	06/30/2024	Professor	Peer Review Consultant Member
Garner, Amanda	11/26/2020	06/30/2024	Associate Professor	Peer Review Consultant Member
Gordan, John	07/01/2023	06/30/2027	Assistant Professor	Peer Review Consultant Member
Gough, Michael	11/26/2020	06/30/2024	Associate Member	Peer Review Consultant Member
Gutierrez, Alejandro	11/26/2020	06/30/2024	Associate Professor	Peer Review Consultant Member
Haley, John	07/01/2021	06/30/2025	Associate Professor Research	Peer Review Consultant Member
Hawse, John	07/01/2023	06/30/2027	Associate Professor	Peer Review Consultant Member
Hjelmeland, Anita	11/26/2020	06/30/2024	Associate Professor	Peer Review Consultant Member
Huang, Rong Stephanie	07/01/2021	06/30/2025	Associate Professor	Peer Review Consultant Member
Hurley, Paula	07/01/2023	06/30/2027	Associate Professor	Peer Review Consultant Member
Imbert-Fernandez, Yoannis	07/01/2023	06/30/2029	Associate Professor	Peer Review Consultant Member
Ivkov, Robert	07/01/2023	06/30/2027	Associate Professor	Peer Review Consultant Member
Iwakuma, Tomoo	07/01/2021	06/30/2025	Professor	Peer Review Consultant Member
James, Richard	07/01/2021	06/30/2025	Associate Professor	Peer Review Consultant Member
Johnson, Faye	07/01/2023	06/30/2029	Professor	Peer Review Consultant Member

Kaipparettu, Benny	07/01/2022	06/30/2026	Associate Professor	Peer Review Consultant Member
Karam, Sana	07/01/2022	06/30/2028	Associate Professor	Peer Review Consultant Member
Kim, James	07/01/2022	06/30/2026	Associate Professor	Peer Review Consultant Member
Koumenis, Constantinos	11/26/2020	06/30/2024	Richard Chamberlain Professor	Peer Review Consultant Member
Kupfer, Gary	07/01/2021	06/30/2024	Professor of Oncology and Pediatrics	Peer Review Consultant Member
LaBarbera, Daniel	07/01/2021	06/30/2025	Associate Professor	Peer Review Consultant Member
Lairson, Luke	11/26/2020	06/30/2024	Associate Professor	Peer Review Consultant Member
Lee, Nancy	11/26/2020	06/30/2024	Director	Peer Review Consultant Member
Li, Yuanpei	07/01/2021	06/30/2025	Associate Professor	Peer Review Consultant Member
Littlepage, Laurie	07/01/2023	06/30/2029	Campbell Family Associate Professor	Peer Review Consultant Member
Liu, Runhua	07/01/2023	06/30/2027	Associate Professor	Peer Review Consultant Member
Liu, Xiaoguang	07/01/2023	06/30/2027	Professor	Peer Review Consultant Member
Lockman, Paul	07/01/2021	06/30/2025	Associate Director for Translational Research	Peer Review Consultant Member
Lomberk, Gwen	07/01/2023	06/30/2029	Professor	Peer Review Consultant Member
London, Cheryl	07/01/2022	06/30/2026	Professor	Peer Review Consultant Member
MacKeigan, Jeffrey	07/01/2023	06/30/2027	Professor	Peer Review Consultant Member
Memarzadeh, Sanaz	07/01/2021	06/30/2025	Professor	Peer Review Consultant Member

Meroueh, Samy	07/01/2023	06/30/2026	Professor	Peer Review Consultant Member
Morgan, Meredith	07/01/2023	06/30/2029	Associate Professor	Peer Review Consultant Member
Mosse, Yael	07/01/2021	06/30/2027	Associate Professor	Peer Review Consultant Member
NANA-SINKAM, SERGE	11/26/2020	06/30/2026	Professor and Chair	Peer Review Consultant Member
Nedrow, Jessie	07/01/2023	06/30/2027	Assistant Professor and Co-Director of In Vivo Imaging Facilities	Peer Review Consultant Member
Nephew, Kenneth	07/01/2023	06/30/2025	Professor	Peer Review Consultant Member
Nolan, Michael	07/01/2022	06/30/2026	Associate Professor	Peer Review Consultant Member
O'Bryan, John	07/01/2023	06/30/2027	Professor	Peer Review Consultant Member
O'Regan, Ruth	11/26/2020	06/30/2025	Charles A. Dewey Professor of Medicine	Peer Review Consultant Member
Olenyuk, Bogdan	11/26/2020	06/30/2024	Professor	Peer Review Consultant Member
Oliver, Trudy	07/01/2022	06/30/2028	Associate Professor and Endowed Chair	Peer Review Consultant Member
Oudin, Madeleine	07/01/2023	06/30/2029	Assistant Professor	Peer Review Consultant Member
Ozpolat, Bulent	07/01/2021	06/30/2025	Associate Professor	Peer Review Consultant Member
Padron, Eric	07/01/2021	06/30/2027	Associate Member	Peer Review Consultant Member
Patrick, Steve	07/01/2023	06/30/2027	Professor	Peer Review Consultant Member
Pogue, Brian	07/01/2022	06/30/2026	Professor of Engineering	Peer Review Consultant Member

Repasky, Elizabeth	07/01/2022	06/30/2026	William Huebsch Professor	Peer Review Consultant Member
Rincon, Merceds	11/26/2020	06/30/2025	Professor	Peer Review Consultant Member
Risinger, April	07/01/2022	06/30/2026	Assistant Professor	Peer Review Consultant Member
SMITHGALL, Thomas	11/26/2020	06/30/2025	Professor and Chairman	Peer Review Consultant Member
Sahin, Ozgur	07/01/2023	06/30/2027	Professor and Smart State Endowed Chair	Peer Review Consultant Member
Salem, Aliasger	11/26/2020	06/30/2025	Bighley Professor and Head	Peer Review Consultant Member
Sayour, Elias	07/01/2022	06/30/2026	Associate Professor	Peer Review Consultant Member
Seto, Edward	07/01/2021	06/30/2025	Professor and Associate Director for Basic Sciences	Peer Review Consultant Member
Sheng, Ke	11/26/2020	06/30/2024	Professor	Peer Review Consultant Member
Shi, Jiaqi	07/01/2023	06/30/2029	Associate Professor	Peer Review Consultant Member
Siegelin, Markus	07/01/2022	06/30/2026	Associate Professor	Peer Review Consultant Member
Smart, DeeDee	07/01/2021	06/30/2027	Investigator	Regular Government Employee (RGE) Member
Snyder, Eric	07/01/2023	06/30/2027	Associate Professor	Peer Review Consultant Member
Soragni, Alice	07/01/2023	06/30/2027	Assistant Professor	Peer Review Consultant Member
Stegh, Alexander	11/26/2020	06/30/2024	Associate Professor	Peer Review Consultant Member
Thomas, Sufi	11/26/2020	06/30/2024	Associate Professor	Peer Review Consultant Member

Tilghman, Syreeta	07/01/2021	06/30/2027	Associate Professor	Peer Review Consultant Member
Trader, Darci	07/01/2023	06/30/2027	Associate Professor	Peer Review Consultant Member
Trevino, Jose	11/26/2020	06/30/2026	Associate Professor	Peer Review Consultant Member
Van Tine, Brian	07/01/2022	06/30/2026	Associate Professor of Medicine	Peer Review Consultant Member
Vindigni, Alessandro	06/01/2023	06/30/2026	Professor	Peer Review Consultant Member
Vlashi, Erina	07/01/2023	06/30/2027	Associate Adjunct Professor	Peer Review Consultant Member
Wainwright, Derek	07/01/2023	06/30/2027	Associate Professor	Peer Review Consultant Member
Wang, Lei	07/01/2023	06/30/2027	Professor	Peer Review Consultant Member
Wang, Qiming	07/01/2021	06/30/2025	Professor	Peer Review Consultant Member
Wang, Xiaodong	07/01/2022	06/30/2026	Professor and Director of Medicinal Chemistry	Peer Review Consultant Member
Weiss, Robert	06/01/2023	06/30/2026	Professor	Peer Review Consultant Member
Wen, Jing	07/01/2023	06/30/2029	Assistant Adjunct Professor	Peer Review Consultant Member
Wilcox, Ryan	11/26/2020	06/30/2026	Associate Professor	Peer Review Consultant Member
Williams, Terence Marques	11/26/2020	06/30/2025	Professor and Chair	Peer Review Consultant Member
Witkiewicz, Agnieszka	07/01/2021	06/30/2027	Director of Center for Personalized Medicine	Peer Review Consultant Member
Woo, Sukyung	07/01/2023	06/30/2027	Associate Professor	Peer Review Consultant Member
Wu, Xu	11/26/2020	06/30/2024	Associate Professor	Peer Review Consultant Member

Yang, Chengfeng	07/01/2022	06/30/2026	Professor	Peer Review Consultant Member
Yates, Clayton	07/01/2021	06/30/2025	Professor	Peer Review Consultant Member
Yoon, Karina	07/01/2021	06/30/2025	Associate Professor	Peer Review Consultant Member
Young, Damian	11/26/2020	06/30/2025	Assistant Director	Peer Review Consultant Member
Yu, David	07/01/2021	06/30/2025	Associate Professor and Director	Peer Review Consultant Member
Zhang, Junran	07/01/2023	06/30/2027	Professor	Peer Review Consultant Member
Zheng, Bin	07/01/2022	06/30/2026	Associate Professor	Peer Review Consultant Member

**Number of Committee Members Listed: 119**

### **Narrative Description**

NIH's mission is to seek fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce illness and disability. NIH works toward that mission by supporting the research of non-Federal scientists in universities, medical schools, hospitals, and research institutes throughout the country and abroad. Section 492 of the PHS states that The Secretary ... shall by regulation require appropriate technical and scientific peer review of -- (A) applications...; and (B) biomedical and behavioral research and development contracts.

### **What are the most significant program outcomes associated with this committee?**

Checked if  
Applies

Improvements to health or safety	<input checked="" type="checkbox"/>
Trust in government	<input type="checkbox"/>
Major policy changes	<input type="checkbox"/>
Advance in scientific research	<input checked="" type="checkbox"/>
Effective grant making	<input checked="" type="checkbox"/>

- Improved service delivery ☐
- Increased customer satisfaction ☐
- Implementation of laws or regulatory requirements ☐
- Other ☐

### Outcome Comments

NA

### What are the cost savings associated with this committee?

Checked if Applies

- None ☐
- Unable to Determine ☒
- Under \$100,000 ☐
- \$100,000 - \$500,000 ☐
- \$500,001 - \$1,000,000 ☐
- \$1,000,001 - \$5,000,000 ☐
- \$5,000,001 - \$10,000,000 ☐
- Over \$10,000,000 ☐
- Cost Savings Other ☐

### Cost Savings Comments

NIH supported basic and clinical research accomplishments often take many years to unfold into new diagnostic tests and new ways to treat and prevent diseases.

### What is the approximate Number of recommendations produced by this committee for the life of the committee?

11,602

### Number of Recommendations Comments

Grant Review

### What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?

0%

### % of Recommendations Fully Implemented Comments

The mission of the Center for Scientific Review is to provide the funding Institutes and

Centers of NIH with the scientific and technical merit of research grant applications submitted to the NIH. It is these Institutes or Centers and their advisory councils that make funding decisions. NIH Peer Review Committees are involved in the initial review of research grant applications. The NIH dual peer review system is mandated by statute in accordance with section 492 of the Public Health Service Act. The charge to this committee is to determine scientific and technical merit of the individual grants or contracts. These recommendations are forwarded to Federal officials who generally accept the committee's recommendations and favorable applications are then forwarded for the second level of review performed by Institute and Center (IC) National Advisory Councils or Boards. Only applications that are favorably recommended by both the initial peer review committee and the Advisory Council may be funded.

**What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?**

0%

**% of Recommendations Partially Implemented Comments**

The mission of the Center for Scientific Review is to provide the funding Institutes and Centers of NIH with the scientific and technical merit of research grant applications submitted to the NIH. It is these Institutes or Centers and their advisory councils that make funding decisions. NIH Peer Review Committees are involved in the initial review of research grant applications. The NIH dual peer review system is mandated by statute in accordance with section 492 of the Public Health Service Act. The charge to this committee is to determine scientific and technical merit of the individual grants or contracts. These recommendations are forwarded to Federal officials who generally accept the committee's recommendations and favorable applications are then forwarded for the second level of review performed by Institute and Center (IC) National Advisory Councils or Boards. Only applications that are favorably recommended by both the initial peer review committee and the Advisory Council may be funded.

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes ☒ No ☐ Not Applicable ☐

**Agency Feedback Comments**

Information resulting from closed initial peer review meetings is subject to the Freedom of Information Act. The public can view information on research projects funded by NIH on the RePORT (Research Portfolio Online Reporting Tool) website located at <http://report.nih.gov>.

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

Reorganized Priorities	<input type="checkbox"/>
Reallocated resources	<input type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

**Action Comments**

An action of “approved” or “recommended” for grants receiving initial peer review by this committee does not infer that the grant will be or has been funded. Research grant applications submitted to NIH must go through a two-step review process that includes the initial peer review for scientific and technical merit and a second step of review and approval by a National Advisory Council for program relevance. In addition, prior to an award or funding being made, NIH staff must conduct an administrative review for a number of other considerations. These include alignment with NIH’s funding principles, review of the project budget, assessment of the applicant’s management systems, determination of applicant eligibility, and compliance with public policy requirements. After all these steps have been completed, NIH officials make funding decisions on individual grant applications.

**Is the Committee engaged in the review of applications for grants?**

Yes

What is the estimated Number of grants reviewed for approval

What is the estimated Number of grants recommended for approval 1,232  
1,232

What is the estimated Dollar Value of grants recommended for approval  
\$2,310,997,005

**Grant Review Comments**

Grant Review

**How is access provided to the information for the Committee's documentation?**

Checked if Applies

Contact DFO	<input checked="" type="checkbox"/>
Online Agency Web Site	<input checked="" type="checkbox"/>

Online Committee Web Site



Online GSA FACA Web Site



Publications



Other



**Access Comments**

N/A