

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### Government-Owned Inventions; Availability for Licensing

**AGENCY:** National Institutes of Health, HHS.

**ACTION:** Notice.

**SUMMARY:** The inventions listed below are owned by an agency of the U.S. Government and are available for licensing in the U.S. to achieve expeditious commercialization of results of federally-funded research and development.

#### FOR FURTHER INFORMATION CONTACT:

Licensing information may be obtained by emailing Michael Shmilovich, [shmilovm@mail.nih.gov](mailto:shmilovm@mail.nih.gov), the licensing contact at the National Heart, Lung, and Blood, Office of Technology Transfer and Development Office of Technology Transfer, 31 Center Drive, Room 4A29, MSC2479, Bethesda, MD 20892-2479; telephone: 301-402-5579. A signed Confidential Disclosure Agreement may be required to receive any unpublished information.

#### SUPPLEMENTARY INFORMATION:

Technology description follows.

#### Resolution Enhancement for Light Sheet Microscopy Systems and Methods

Available for licensing and commercial development is a system and technique for enhancing the resolution of images acquired through light sheet microscopy by adding additional enhanced depth-of-focus optical arrangements and high numerical aperture objective lenses. The technique employs an arrangement of three objective lenses and a processor for combining captured images. The first objective lens illuminates the sample and the second and third objective lenses collect the fluorescence emissions emitted by the sample. The second objective lens focuses a first portion of the fluorescence emissions for detection by a second detection component. The third objective lens focuses a second portion of the fluorescence emissions through a diffractive or refractive optic component. A processor combines the images resulting from first and second portions of the fluorescence emissions and generates a composite image with improved axial and lateral resolution.

#### Potential Commercial Applications:

- High speed imaging
- Fast single cell and cellular dynamics imaging

- Super-resolution and single molecule imaging
- 3D single particle tracking
- 3D super-resolution imaging in thick samples

#### Competitive Advantages:

- Resolution enhancement in light microscopy

#### Development Stage:

- In vitro data available

**Inventors:** Hari Shroff (NIBIB), Yicong Wu (NIBIB), and Sara Abrahamsson.

**Intellectual Property:** HHS Reference No. E-232-2014/0.

U.S. Provisional Patent Applications 62/

054,484 filed 24 September 2014

PCT Application No. PCT/US2015/

052047 filed 24 September 2015

European Patent Applications No.

15843742.6 filed 24 September 2017

U.S. Patent No. US 10,401,604 issued 3 September 2019

**Related Technology:** HHS Reference No. E-078-2011/0.

**Licensing Contact:** Michael Shmilovich, Esq., CLP; 301-435-5019; [shmilovm@mail.nih.gov](mailto:shmilovm@mail.nih.gov).

#### Collaborative Research Opportunity:

The National Institute of Biomedical Imaging and Bioengineering is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate or commercialize Resolution Enhancement Technique for Light Sheet Microscopy Systems and Methods. For collaboration opportunities, please contact Michael Shmilovich 301-435-5019 or [shmilovm@nih.gov](mailto:shmilovm@nih.gov).

Dated: October 17, 2019.

**Michael A. Shmilovich,**

Senior Licensing and Patenting Manager,  
National Heart, Lung, and Blood Institute,  
Office of Technology Transfer and Development.

[FR Doc. 2019-23031 Filed 10-22-19; 8:45 am]

**BILLING CODE 4140-01-P**

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Heart, Lung, and Blood Institute; Notice of Closed Meetings

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended, notice is hereby given of the following meetings.

The meetings will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial

property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

**Name of Committee:** National Heart, Lung, and Blood Institute Special Emphasis Panel; Short-Term Research Education to Increase Diversity.

**Date:** November 20, 2019.

**Time:** 1:00 p.m. to 4:00 p.m.

**Agenda:** To review and evaluate grant applications.

**Place:** National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892.

**Contact Person:** Giuseppe Pintucci, Ph.D., Scientific Review Officer, Office of Scientific Review/DERA, National Heart, Lung, and Blood Institute, 6701 Rockledge Drive, Room 7192, Bethesda, MD 20892, 301-827-7696, [Pintuccig@nhlbi.nih.gov](mailto:Pintuccig@nhlbi.nih.gov) (Telephone Conference Call).

**Name of Committee:** National Heart, Lung, and Blood Institute Special Emphasis Panel; Rare Disease Cohorts in Heart, Lung, Blood and Sleep Disorders.

**Date:** November 22, 2019.

**Time:** 8:30 a.m. to 4:30 p.m.

**Agenda:** To review and evaluate grant applications.

**Place:** The William F. Bolger Center, 9600 Newbridge Drive, Potomac, MD 20854.

**Contact Person:** Michael P. Reilly, Ph.D., Scientific Review Officer, Office of Scientific Review, National Heart, Lung, and Blood Institute, National Institutes of Health, 6701 Rockledge Drive, Room 7200, Bethesda, MD 20892, 301-827-7975, [reillymp@nhlbi.nih.gov](mailto:reillymp@nhlbi.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.233, National Center for Sleep Disorders Research; 93.837, Heart and Vascular Diseases Research; 93.838, Lung Diseases Research; 93.839, Blood Diseases and Resources Research, National Institutes of Health, HHS)

Dated: October 17, 2019.

**Ronald J. Livingston, Jr.,**

Program Analyst, Office of Federal Advisory Committee Policy.

[FR Doc. 2019-23037 Filed 10-22-19; 8:45 am]

**BILLING CODE 4140-01-P**

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Center for Complementary & Integrative Health; Notice of Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended, notice is hereby given of a meeting of the National Advisory Council for Complementary and Integrative Health.

The meeting will be open to the public as indicated below, with attendance limited to space available.

Individuals who plan to attend and need special assistance, such as sign language interpretation or other reasonable accommodations, should notify the Contact Person listed below in advance of the meeting.

The meeting will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and/or contract proposals and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications and/or contract proposals, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

*Name of Committee:* National Advisory Council for Complementary and Integrative Health.

*Date:* February 7, 2020.

*Closed:* 8:30 a.m. to 9:45 a.m.

*Agenda:* To review and evaluate grant applications and/or proposals.

*Place:* National Institutes of General Medical Science—Natcher Building, 45 Center Drive, Bethesda, MD 20892.

*Open:* 10:00 a.m. to 4:00 p.m.

*Agenda:* A report from the Center Director and Other Staff.

*Place:* National Institutes of General Medical Science—Natcher Building, 45 Center Drive, Bethesda, MD 20892.

*Contact Person:* Partap Singh Khalsa, Ph.D., DC Director, Division of Extramural Activities, National Center for Complementary and Integrative Health, National Institutes of Health, 6707 Democracy Blvd., Suite 401, Bethesda, MD 20892-5475, 301-594-3462, [khalsap@mail.nih.gov](mailto:khalsap@mail.nih.gov).

Any interested person may file written comments with the committee by forwarding the statement to the Contact Person listed on this notice. The statement should include the name, address, telephone number and when applicable, the business or professional affiliation of the interested person.

In the interest of security, NIH has instituted stringent procedures for entrance onto the NIH campus. All visitor vehicles, including taxicabs, hotel, and airport shuttles will be inspected before being allowed on campus. Visitors will be asked to show one form of identification (for example, a government-issued photo ID, driver's license, or passport) and to state the purpose of their visit.

Information is also available on the Institute's/Center's home page: <https://nccih.nih.gov/about/nacchih>, where an agenda and any additional information for the meeting will be posted when available.

(Catalogue of Federal Domestic Assistance Program Nos. 93.213, Research and Training in Complementary and Alternative Medicine, National Institutes of Health, HHS)

Dated: October 17, 2019.

**Ronald J. Livingston, Jr.,**

*Program Analyst, Office of Federal Advisory Committee Policy.*

[FR Doc. 2019-23041 Filed 10-22-19; 8:45 am]

**BILLING CODE 4140-01-P**

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### Center for Scientific Review; Notice of Closed Meetings

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended, notice is hereby given of the following meetings.

The meetings will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(6), Title 5 U.S.C., as amended. The grant applications and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Biochemistry and Biophysics of Biological Macromolecules Fellowship Applications

*Date:* November 14, 2019.

*Time:* 8:00 a.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Washington Marriott Metro Center, 775 12th Street NW, Washington, DC 20005.

*Contact Person:* Sergei Ruvinov, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4158, MSC 7806, Bethesda, MD 20892, 301-435-1180, [ruvinser@csr.nih.gov](mailto:ruvinser@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Small Business: Disease Prevention and Management, Risk Reduction and Health Behavior Change.

*Date:* November 14-15, 2019.

*Time:* 8:00 a.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Marriott Residence Inn, 1456 Duke Street, Alexandria, VA 22314.

*Contact Person:* Michael J. McQuestion, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3114, Bethesda, MD 20892, 301-480-1276 [mike.mcquestion@nih.gov](mailto:mike.mcquestion@nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Small

Business: Aging and Development, Auditory, Vision and Low Vision Technologies.

*Date:* November 14-15, 2019.

*Time:* 8:00 a.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Embassy Suites at the Chevy Chase Pavilion, 4300 Military Road NW, Washington, DC 20015.

*Contact Person:* Paek-Gyu Lee, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4201, MSC 7812, Bethesda, MD 20892, (301) 613-2064, [leepg@csr.nih.gov](mailto:leepg@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; PAR17-094: NIGMS Maximizing Investigators' Research Award (R35).

*Date:* November 14-15, 2019.

*Time:* 8:00 a.m. to 5:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Hyatt Regency Bethesda, One Bethesda Metro Center, 7400 Wisconsin Avenue, Bethesda, MD 20814.

*Contact Person:* C-L Albert Wang, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4146, MSC 7806, Bethesda, MD 20892, 301-435-1016, [wangca@csr.nih.gov](mailto:wangca@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Small Business: Microbial (non-HIV) Diagnostics and Detection of Infectious Agents, Food and Waterborne Pathogens, and Methods in Microbial Sterilization, Disinfection and Bioremediation.

*Date:* November 15, 2019.

*Time:* 8:00 a.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Bethesda North Marriott Hotel & Conference Center, Montgomery County Conference Center Facility, 5701 Marinelli Road, North Bethesda, MD 20852.

*Contact Person:* Gagan Pandya, Ph.D., Scientific Review Officer, National Institutes of Health, Center for Scientific Review, 6701 Rockledge Drive, RM 3200, MSC 7808, Bethesda, MD 20892, 301-435-1167, [pandya@mail.nih.gov](mailto:pandya@mail.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Health Informatics: Decision Support Tools.

*Date:* November 15, 2019.

*Time:* 8:30 a.m. to 12:30 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Courtyard by Marriott, 5520 Wisconsin Avenue, Chevy Chase, MD 20815.

*Contact Person:* Jacinta Bronte-Tinkew, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3164, MSC 7770, Bethesda, MD 20892, (301) 806-0009, [brontetinkewjm@csr.nih.gov](mailto:brontetinkewjm@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; RFA-AI-19-036: Advancing Biomarker Discovery and Novel Point-of-Care Diagnostics for Active TB Disease Detection in HIV-1 Infected and Exposed Children.

*Date:* November 15, 2019.