

Planning Grant (R34) and Implementation Cooperative Agreement (U01).

*Date:* August 28, 2018.

*Time:* 10:00 a.m. to 12:30 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 5601 Fishers Lane, Rockville, MD 20892 (Telephone Conference Call).

*Contact Person:* Louis A. Rosenthal, Ph.D., Scientific Review Officer Scientific Review Program, Division of Extramural Activities, Rm. 3G42B, National Institutes of Health/ NIAID, 5601 Fishers Lane, MSC 9834, Bethesda, MD 20892-9834, (240) 669-5070, [rosenthalla@niaid.nih.gov](mailto:rosenthalla@niaid.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.855, Allergy, Immunology, and Transplantation Research; 93.856, Microbiology and Infectious Diseases Research, National Institutes of Health, HHS)

Dated: August 1, 2018.

**Sylvia L. Neal,**

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

[FR Doc. 2018-16789 Filed 8-6-18; 8:45 am]

**BILLING CODE 4140-01-P**

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Cancer 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 grant applications, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

*Name of Committee:* National Cancer Institute Special Emphasis Panel; NCI Clinical and Translational Exploratory/ Developmental Studies.

*Date:* September 14, 2018.

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

*Agenda:* To review and evaluate grant applications.

*Place:* The Westin Arlington Gateway, 801 North Glebe Road, Arlington, VA 22203.

*Contact Person:* Robert S. Coyne, Ph.D., Scientific Review Officer, Special Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W236, Bethesda, MD 20892-9750, 240-276-7684, [coyners@mail.nih.gov](mailto:coyners@mail.nih.gov).

*Name of Committee:* National Cancer Institute Special Emphasis Panel; SEP-7; NCI

Clinical and Translational R21 and Omnibus R03.

*Date:* September 27, 2018.

*Time:* 7:30 a.m. to 5:00 p.m.

*Agenda:* To review and evaluate grant applications.

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

*Contact Person:* Saejeong J. Kim, Ph.D., Scientific Review Officer, Special Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W640, Bethesda, MD 20892-9750, 240-276-5179, [saejeong.kim@nih.gov](mailto:saejeong.kim@nih.gov).

*Name of Committee:* National Cancer Institute Initial Review Group, Subcommittee J—Career Development.

*Date:* October 11-12, 2018.

*Time:* 5:00 p.m. to 4:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Bethesda Marriott Suites, 6711 Democracy Boulevard Bethesda, MD 20817.

*Contact Person:* Tushar Deb, Ph.D., Scientific Review Officer, Resources and Training Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W624, Bethesda, MD 20892-9750, 240-276-6132, [tushar.deb@nih.gov](mailto:tushar.deb@nih.gov).

*Name of Committee:* National Cancer Institute Special Emphasis Panel; Innovative Molecular and Cellular Analysis Technologies (IMAT).

*Date:* October 19, 2018.

*Time:* 8:30 a.m. to 5:30 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Cancer Institute, Shady Grove, 9609 Medical Center Drive, Room 2E908, Rockville, MD 20850.

*Contact Person:* Yasuko Furumoto, Ph.D., Scientific Review Officer, Research Technology and Contract Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W634, Bethesda, MD 20892-9750, 240-276-5287, [yasuko.furumoto@nih.gov](mailto:yasuko.furumoto@nih.gov).

*Name of Committee:* National Cancer Institute Special Emphasis Panel; R25 Review.

*Date:* October 24, 2018.

*Time:* 1:00 p.m. to 5:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Cancer Institute, Shady Grove, 9609 Medical Center Drive, Room 7W110, Rockville, MD 20850 (Telephone Conference Call).

*Contact Person:* Robert E. Bird, Ph.D., Scientific Review Officer, Resources and Training Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W110, Bethesda, MD 20892-9750, 240-276-6344, [birdr@mail.nih.gov](mailto:birdr@mail.nih.gov).

*Name of Committee:* National Cancer Institute Special Emphasis Panel; Innovative Molecular Analysis Technologies (IMAT).

*Date:* November 1, 2018.

*Time:* 11:00 a.m. to 2:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Cancer Institute, Shady Grove, 9609 Medical Center Drive, Room 7W634, Rockville, MD 20850 (Telephone Conference Call).

*Contact Person:* Yasuko Furumoto, Ph.D., Scientific Review Officer, Research Technology and Contract Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W634, Bethesda, MD 20892-9750, 240-276-5287, [yasuko.furumoto@nih.gov](mailto:yasuko.furumoto@nih.gov).

*Name of Committee:* National Cancer Institute Special Emphasis Panel; UH2/UH3 Review.

*Date:* November 7, 2018.

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

*Agenda:* To review and evaluate grant applications.

*Place:* National Cancer Institute, Shady Grove, 9609 Medical Center Drive, Room 7W110, Rockville, MD 20850 (Telephone Conference Call).

*Contact Person:* Robert E. Bird, Ph.D., Scientific Review Officer, Resources and Training Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W110, Bethesda, MD 20892-9750, 240-276-6344, [birdr@mail.nih.gov](mailto:birdr@mail.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.392, Cancer Construction; 93.393, Cancer Cause and Prevention Research; 93.394, Cancer Detection and Diagnosis Research; 93.395, Cancer Treatment Research; 93.396, Cancer Biology Research; 93.397, Cancer Centers Support; 93.398, Cancer Research Manpower; 93.399, Cancer Control, National Institutes of Health, HHS)

Dated: August 1, 2018.

**Melanie J. Pantoja,**

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

[FR Doc. 2018-16784 Filed 8-6-18; 8:45 am]

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## 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.

**FOR FURTHER INFORMATION CONTACT:** Licensing information may be obtained by emailing the indicated 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:** This notice is in accordance with 35 U.S.C. 209 and 37 CFR part 404 to achieve commercialization of results of federally-funded research and development.

Technology description follows.

### Albumin Binding Prostate Cancer Treating Compositions

The invention pertains to a therapeutic agent that includes a chemically conjugated residue derived from (((R)-1-carboxy-2-mercaptoethyl)carbamoyl)-L-glutamic acid that is further bound to an Evans blue analog (EB). The EB analog reversibly binds to circulating serum albumin to provide a radiopharmaceutical that retains affinity and specificity to prostate specific membrane antigen (PSMA; in this case PSMA-617). PSMA is a surface molecule shown to be specifically expressed by prostate tumor cells. PSMA expression levels correlate with disease stage and with hormone refractory cancers. Although most PSMA expression appears to be restricted to the prostate cancer, low levels of expression can also be detected in the brain, kidneys, salivary glands, and small intestine. The antigen is also shown to be expressed by neovascular tumor vessels of multiple other cancers. Inclusion of the Evans blue analog promotes high internalization and retention rates of the conjugated target ligand, and therefore, higher accumulation in PSMA positive tumors. Labeling EB-PSMA-617 derivatives with the therapeutic beta emitters, *e.g.*, 90Y, 86Y, and 177Lu gives rise to improved tumor response and survival rates.

Potential Commercial Applications:

- Cancer therapeutics
- Higher stability/Lower toxicity

Development Stage:

- Early stage

*Inventors:* Xiaoyuan Chen and Orit Jacobson Weiss (both of NIBIB).

*Intellectual Property:* HHS Reference No. E-054-2018/0; U.S. Provisional Patent Applications 62/633,648 filed February 22, 2018.

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

Dated: July 20, 2018.

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

[FR Doc. 2018-16838 Filed 8-6-18; 8:45 am]

**BILLING CODE 4140-01-P**

## 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 invention listed below is owned by an agency of the U.S. Government and is available for licensing to achieve expeditious commercialization of results of federally-funded research and development. Foreign patent applications are filed on selected inventions to extend market coverage for companies and may also be available for licensing.

**FOR FURTHER INFORMATION CONTACT:** Barry Buchbinder, Ph.D., 240-627-3678; [barry.buchbinder@nih.gov](mailto:barry.buchbinder@nih.gov). Licensing information and copies of the U.S. patent application listed below may be obtained by communicating with the indicated licensing contact at the Technology Transfer and Intellectual Property Office, National Institute of Allergy and Infectious Diseases, 5601 Fishers Lane, Rockville, MD 20852; tel. 301-496-2644. A signed Confidential Disclosure Agreement will be required to receive copies of unpublished patent applications.

**SUPPLEMENTARY INFORMATION:** Technology description follows.

#### Self-Assembling Insect Ferritin Nanoparticles for Display of Co-assembled Trimeric Antigens Description of Technology

Antigens on the surface of virus particles are displayed in a regular, repetitive pattern which facilitates B cell activation. Presenting trimeric antigens on engineered particles that mimic the geometric patterns observed for native viral proteins can lead to an improved host antibody response.

Self-assembling globular ferritin nanoparticles have previously been used to display multiple copies of a co-assembled trimeric antigen to the immune system. However, prior ferritin nanoparticle technologies only permit a

random co-assembly of diverse trimeric antigens, and therefore cannot guarantee the pattern and ratio of diverse trimeric antigens on a single ferritin nanoparticle.

Researchers at the Vaccine Research Center (VRC) of the National Institute of Allergy and Infectious Diseases are developing novel recombinant ferritin nanoparticles that are based on insect ferritin proteins, and that have been engineered to display two different trimeric antigens in a defined ratio and geometric pattern. This system has been tested with antigens derived from HIV-1 envelope (Env) and influenza hemagglutinin (HA). Interestingly, when guinea pigs are immunized with ferritin nanoparticles displaying two different trimeric antigens, induced B cells could simultaneously recognize both trimeric antigens, thus leading to an immune response with improved neutralization breadth.

This technology can be used as a platform for multimerized display of trimeric antigens such as viral type I fusion glycoproteins, and may be applied to many high-priority vaccine targets, such as HIV-1, influenza, respiratory syncytial virus, parainfluenza viruses, and coronaviruses.

*Potential Commercial Applications:*

- Platform for multimerized immunogen presentation and vaccine design.
- Vaccines for pathogens that use genetic diversity to escape the immune response.

*Competitive Advantages:*

- Particles have equal fractions of two different antigens in a specific configuration on the nanoparticle surface (unlike regular ferritin used previously)
- Designed particles have a geometry that allows for attachment of trimeric antigens (unlike the native insect ferritin).

*Development Stage:*

- *In vivo* testing (rodents).

*Inventors:* Peter Kwong (NIAID), Ivelin Georgiev (NIAID), Michael Gordon Joyce (NIAID), Masaru Kanekiyo (NIAID), Aliaksandr Druz (NIAID), Ulrich Baxa (NIAID), Joseph Van Galen (NIAID), Rita Chen (NIAID), Cheng Cheng (NIAID), John Mascola (NIAID), Yaroslav Tsybovsky (Leidos Biomedical Research, Inc), Yongping Yang (NIAID), Paul Thomas (NIAID), Barney Graham (NIAID).

*Publications:* Georgiev, Ivelin S., et al., ACS Infectious Diseases (2018) 4 (5), 788-796.

*Intellectual Property:* HHS Reference Number E-270-2015; U.S. Patent Application No. 62/355,212 filed 06/27/