

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

Contact Person: Frank S. De Silva, Ph.D., Scientific Review Officer, Scientific Review Program, Division of Extramural Activities, Room #3E72A, National Institutes of Health/NIAID, 5601 Fishers Lane, MSC 9823, Rockville, MD 20892-9823, (240) 669-5023, fdesilva@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: November 20, 2018.

Natasha M. Copeland,

Program Analyst, Office of Federal Advisory Committee Policy.

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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 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. 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 A signed Confidential Disclosure Agreement will be required to receive copies of unpublished patent applications.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.

Recombinant HIV-1 Envelope Proteins and Their Use

Description of Technology

An effective human immunodeficiency virus type 1 (HIV-1) vaccine has long been sought to contend

with the Acquired Immunodeficiency Syndrome (AIDS) pandemic.

One approach researchers have taken to elicit broadly neutralizing antibodies against HIV-1 is to stabilize the structurally flexible HIV-1 envelope (Env) trimer. Researchers stabilized the Env trimer in a conformation that displays predominantly broadly neutralizing epitopes and few non-neutralizing epitopes. Currently, BG505 DS-SOSIP is a leading vaccine candidate with the desired conformation and antigenicity.

Ideally, to be useful as a vaccine, such a conformationally fixed Env immunogen should have high thermostability and should remain in the desired antigenic state, even in the presence of CD4, a glycoprotein found on the surface of immune cells.

Researchers at the Vaccine Research Center (VRC) of the National Institute of Allergy and Infectious Diseases (NIAID) undertook efforts to improve the properties of BG505 DS-SOSIP for use as a vaccine. The VRC researchers introduced three additional mutations to further stabilize BG505 DS-SOSIP in the vaccine-preferred prefusion-closed conformation and refer to the engineered BG505 DS-SOSIP as BG505 DS-SOSIP.3mut. Experiments showed that these modifications conferred improved thermostability that will allow easier transport and storage of BG505 DS-SOSIP.3mut compared to BG505 DS-SOSIP. In addition, BG505 DS-SOSIP.3mut has lower antigenicity toward non/weak neutralizing antibodies compared to BG505 DS-SOSIP, which suggests that it could potentially elicit higher neutralization titer by targeting only broadly neutralizing antibodies. With improved antigenicity and stability, this version may have utility as an HIV-1 immunogen or in other antigen-specific contexts, such as for use with B-cell probes.

This technology is available for licensing for commercial development in accordance with 35 U.S.C. 209 and 37 CFR part 404.

Potential Commercial Applications

- Vaccine—to elicit potent neutralizing antibodies against the HIV-1 Env glycoprotein.
- Probes—to identify broad and potent HIV-1-neutralizing antibodies.

Competitive Advantages

Compared to previous engineered Env trimer versions:

- 300-fold reduction in CD4-binding affinity.
- Reduced binding affinity to ineffective HIV-1 antibodies.

- Increase in melting temperature (10 degrees over BG505 SOSIP).

Development Stage: *In vivo* testing (rodents).

Inventors: Peter Kwong (NIAID), John Mascola (NIAID), Gwo-Yu Chuang (NIAID), Cheng Cheng (NIAID), Hui Geng (NIAID), Yongping Yang (NIAID) and Jeffrey C. Boyington (NIAID).

Intellectual Property: HHS Reference Number E-240-2017 includes U.S. Provisional Patent Application Number 62/579,973 filed 10/16/2017.

Related Intellectual Property: HHS Reference Number E-187-2014 includes U.S. Provisional Patent Application Number 62/046,059 filed 9/4/2014, U.S. Provisional Patent Application Number 62/136,480 filed 3/21/2015, PCT Application No. PCT/US2015/048729 filed 9/4/2015, US Patent Application 15/508,885 filed 3/3/2017, EP Patent Application Number 15766697.5 filed 3/29/2017.

Licensing Contact: Barry Buchbinder, Ph.D., 240-627-3678; barry.buchbinder@nih.gov.

Dated: November 14, 2018.

Suzanne M. Frisbie,

Deputy Director, Technology Transfer and Intellectual Property Office, National Institute of Allergy and Infectious Diseases.

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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 SPORE I (P50) Review.

Date: January 29-30, 2019.

Time: 8:00 a.m. to 12:00 p.m.

Agenda: To review and evaluate grant applications.

Place: Hilton Washington/Rockville Hotel, 1750 Rockville Pike, Rockville, MD 20850.

Contact Person: Majed M. Hamawy, Ph.D., Scientific Review Officer, Research Program Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W120, Bethesda, MD 20892-9750, 240-276-6457, mh101v@nih.gov.

Name of Committee: National Cancer Institute Special Emphasis Panel; NCI SPORE III (P50) Review.

Date: January 31–February 1, 2019.

Time: 8:00 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: Paul Carins, Ph.D., Scientific Review Officer, Research Program Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W244, Bethesda, MD 20892-9750, 240-276-5415, paul.cairns@nih.gov.

Name of Committee: National Cancer Institute Special Emphasis Panel; NCI Program Project II (P01).

Date: February 6–7, 2019.

Time: 8:00 a.m. to 2:00 p.m.

Agenda: To review and evaluate grant applications.

Place: Hilton Washington/Rockville Hotel, 1750 Rockville Pike, Rockville, MD 20852.

Contact Person: Mukesh Kumar, Ph.D., Scientific Review Officer, Research Program Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W618, Bethesda, MD 20892-9750, 240-276-6611, mukesh.kumar3@nih.gov.

Name of Committee: National Cancer Institute Special Emphasis Panel; NCI Program Project III (P01) Review.

Date: February 7–8, 2019.

Time: 8:00 a.m. to 1:00 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: Sanita Bharti, Ph.D., Scientific Review Officer, Research Program Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W122, Bethesda, MD 20892-9750, 240-276-5909, sanitab@mail.nih.gov.

Name of Committee: National Cancer Institute Initial Review Group; NCI Program Project V (P01).

Date: February 13–14, 2019.

Time: 8:00 a.m. to 4:00 p.m.

Agenda: To review and evaluate grant applications.

Place: Gaithersburg Marriott Washingtonian Center, 9751 Washingtonian Boulevard, Gaithersburg, MD 20878.

Contact Person: Adriana Stoica, Ph.D., Scientific Review Officer, Resources and Training Review Branch, Division of Extramural Activities, National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W234, Bethesda, MD 20892-9750, 240-276-6368, Stoica2@mail.nih.gov.

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

Date: February 13–14, 2019.

Time: 4:00 p.m. to 8:00 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: Jun Fang, 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, 240-276-5460, jfang@mail.nih.gov.

Name of Committee: National Cancer Institute Special Emphasis Panel; NCI Program Project IV (P01) Review.

Date: February 14–15, 2019.

Time: 4:00 p.m. to 2:30 p.m.

Agenda: To review and evaluate grant applications.

Place: Gaithersburg Marriott Washingtonian Center, 9751 Washingtonian Boulevard, Gaithersburg, MD 20878.

Contact Person: Robert E. Bird, Ph.D., Scientific Review Officer, Research Program 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.

Name of Committee: National Cancer Institute Special Emphasis Panel; NCORP Minority/Underserved Community Sites (UGIClinical Trial Required).

Date: February 26–27, 2019.

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

Agenda: To review and evaluate grant applications.

Place: Gaithersburg Marriott Washingtonian Center, 9751 Washingtonian Boulevard, Gaithersburg, MD 20878.

Contact Person: Scott Chen, Ph.D., Scientific Review Officer, Special Review Branch Division of Extramural Activities National Cancer Institute, NIH 9609 Medical Center Drive, Room 7W526, Bethesda, MD 20892-9750, 240-276-6038, chensc@mail.nih.gov.

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

Date: February 28–March 1, 2019.

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

(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: November 20, 2018.

Melanie J. Pantoja,

Program Analyst, Office of Federal Advisory Committee Policy.

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of Diabetes and Digestive and Kidney Diseases; 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 Institute of Diabetes and Digestive and Kidney Diseases Special Emphasis Panel; Treating Diabetes Distress to Improve Glycemic Outcomes in Type1 Diabetes.

Date: December 17, 2018.

Time: 12:00 p.m. to 4:00 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD 20892 (Telephone Conference Call).

Contact Person: Paul A. Rushing, Ph.D., Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, Room 7345, 6707 Democracy Boulevard, Bethesda, MD 20892-5452, (301) 594-8895, rushingp@extra.niddk.nih.gov.

Name of Committee: National Institute of Diabetes and Digestive and Kidney Diseases Special Emphasis Panel; NIDDK Crohn's Disease Ancillary Studies.

Date: December 20, 2018.

Time: 1:00 p.m. to 2:30 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD 20892 (Telephone Conference Call).

Contact Person: Elena Sanovich, Ph.D., Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health,