

Potential Commercial Applications:

- Therapeutics for hypertension
- Therapeutics for anxiety disorders
- Therapeutics for sleep disorders

Development Stage:

- In vivo data available

Inventors: George Kunos and

Alexandros Makriyannis (both of NIAAA)

Intellectual Property: HHS Reference

No. E-211-2006/0-US-06.

- U.S. Patent 8,293,724 filed April 6, 2010, issued October 23, 2012.

Licensing Contact: Michael

Shmilovich, Esq. CLP; 301-435-5019; shmilovm@nih.gov.

Collaborative Research Opportunity:

The National Institute of Environmental Health Sciences seeks statements of capability or interest from parties interested in collaborative research to further develop and evaluate, please contact Peg Koelble, Office of Technology Transfer, National Heart, Lung and Blood Institute, koelblep@nhlbi.nih.gov, 301-594-4095.

Dated: September 7, 2017.

Michael Shmilovich,

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

[FR Doc. 2017-19590 Filed 9-14-17; 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 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:

Chris Kornak, 240-627-3705, chris.kornak@nih.gov. Licensing information and copies of the U.S. patent applications listed below may be obtained by communicating with the indicated licensing contact at the Technology Transfer and Intellectual Property Office (TTIPO), 5601 Fishers Lane, Suite 6D, MSC 9804, Rockville,

MD 20892, tel: 301-496-2644, fax: 240-627-3117. A signed Confidential Disclosure Agreement will be required to receive copies of unpublished patent applications.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: Millions of people are infected with HIV-1 worldwide. In the U.S., there are about 30,000 new cases of HIV infection reported annually. Currently, there are effective, anti-retroviral therapeutics available to treat or prevent HIV infection. However, available anti-retroviral therapeutics require life-long administration.

During infection, proteases of the host cell cleave gp160 into gp120 and gp41. Gp41 is an integral membrane protein, while gp120 protrudes from the mature virus. Together gp120 and gp41 aggregate as trimers that make up the HIV-1 envelope ("Env") spike, which is a target for neutralizing antibodies.

NIAID researchers have constructed a recombinant HIV-1 trimer immunogen. In particular, the recombinant gp120 protein in the trimer is stabilized in a closed conformation, preventing it from binding to CD4. The advantage of the closed conformation is that it can stabilize the epitopes that bind to broadly neutralizing antibodies, minimize the binding of gp120 with weakly or non-neutralizing antibodies, and prevent conformational changes induced by CD4 as well as immunogen sequestration by CD4 *in vivo*. Research has also indicated that recombinant Env ectodomain trimers can induce higher neutralizing antibody titers than wild type Env trimers in animal models.

This technology is available for licensing for commercial development in accordance with 35 U.S.C. 209 and 37 CFR part 404, as well as for further development and evaluation under a research collaboration.

Potential Commercial Applications:

- HIV-1 immunogen
- New methods for isolating broadly neutralizing antibodies

Competitive Advantages:

- A new strategy in inducing immune response against HIV-1

Development Stage:

- Pre-Clinical; Proof-of-concept studies in nonhuman primate models

Inventors:

Paolo Lusso, NIAID, NIH
Peng Zhang, NIAID, NIH

Publications: Pending.

Intellectual Property: HHS Reference No. E-102-2016/0—PCT Application

No. PCT/US2017/021573 filed on 03/09/2017.

Licensing Contact: Chris Kornak, 240-627-3705, chris.kornak@nih.gov.

Collaborative Research Opportunity:

The Technology Transfer and Intellectual Property Office (TTIPO) is seeking parties interested in collaborative research to further develop the technology. In particular, NIAID is interested in partnerships utilizing vector vaccine platforms for expressing these immunogens.

However, NIAID is willing to discuss other applications of this technology. For collaboration opportunities, please contact Chris Kornak, 240-627-3705, chris.kornak@nih.gov.

Dated: September 7, 2017.

Suzanne 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 Institute on Deafness and Other Communication Disorders; 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 on Deafness and Other Communication Disorders Special Emphasis Panel; Chemical Senses Fellowship Review.

Date: October 11, 2017.

Time: 12:30 p.m. to 3:00 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health. Neuroscience Center, 6001 Executive Boulevard, Rockville, MD 20852 (Telephone Conference Call).

Contact Person: Sheo Singh, Ph.D., Scientific Review Officer, Scientific Review Branch, Division of Extramural Activities, 6001 Executive Blvd., Room 8351, Bethesda, MD 20892, 301-496-8683, singhs@nidcd.nih.gov.