

Intellectual Property: HHS Reference No. E-208-2003/0—U.S. Patent No. 7,655,752 issued 02 Feb 2010.

Licensing Contact: Tara Kirby, Ph.D.; 301-435-4426; tarak@mail.nih.gov.

Human Antibodies and Fusion Proteins With Potent and Broad HIV-1 Neutralizing Activity

Description of Technology: The inventions listed below provide multiple novel human anti-HIV-1 domain antibodies (m36 and its affinity-matured versions) and their fusion proteins with two-domain or single-domain human soluble CD4 (sCD4) that can potentially be used alone or synergistically with other anti-HIV-1 antibodies and antiretroviral drugs as therapeutics and/or preventatives for infection by different HIV-1 strains.

Some of the inventions listed below also describe some fusion proteins as vaccine immunogens that could elicit broadly neutralizing antibodies against HIV-isolates from different clades. One invention also describes the methods to prepare and use the immunogens in the vaccination for prevention of HIV-1 infections. More specifically, the later invention provides a vaccine composed of a primary immunogen and a secondary immunogen, and a method for making the vaccine which could be effective in eliciting desired broadly neutralizing antibodies. The primary immunogen could be effective in activating B cell receptors (BCRs) that are on the maturational pathways of the desired antibodies and have an intermediate degree of somatic mutational diversity. The secondary immunogen contains epitopes of the desired antibodies and could be effective in further diversifying the BCRs sufficiently to form mature BCRs that have the identical or substantially identical sequence as the desired antibodies.

Potential Commercial Applications: Treatment and prevention of HIV-1 infections.

Competitive Advantages:

- Elicits broadly neutralizing antibodies against HIV-1 isolates from different clades.
- Potentially elicits antibodies that are not regulated by tolerance mechanisms.
- Novel methods to design vaccines for HIV-1 treatment and prevention.
- May also be used for designing vaccines for cancer treatment.
- Relatively small size allows for potential penetration into lymphoid tissues.

Development Stage:

- In vitro data available.
- In vivo data available (animal).

Inventors: Dimiter Dimitrov and Weizao Chen (NCI).

Publications:

1. Chen W, *et al.* Human domain antibodies to conserved sterically restricted regions on gp120 as exceptionally potent cross-reactive HIV-1 neutralizers. *Proc Natl Acad Sci USA*. 2008 Nov 4;105(44):17121-6. [PMID 18957538].

2. Chen W, *et al.* Engineered single human CD4 domains as potent HIV-1 inhibitors and components of vaccine immunogens. *J Virol*. 2011 Sep;85(18):9395-405. [PMID 21715496].

3. Chen W, *et al.* Bifunctional fusion proteins of the human engineered antibody domain m36 with human soluble CD4 are potent inhibitors of diverse HIV-1 isolates. *Antiviral Res*. 2010 Oct;88(1):107-15. [PMID 20709110].

4. Chen W, Dimitrov DS. Human monoclonal antibodies and engineered antibody domains as HIV entry inhibitors. *Curr Opin HIV AIDS*. 2009 Mar;4(2):112-7. [PMID 19339949].

Intellectual Property:

- HHS Reference No. E-043-2008/0—U.S. Patent Application No. 12/811,998 filed 07 Jul 2010; related international applications.
- HHS Reference No. E-322-2008/0—U.S. Patent Application No. 13/123,659 filed 11 Apr 2011.
- HHS Reference No. E-103-2010/1—PCT Application No. PCT/US2011/037439 filed 20 May 2011, which published as WO 2011-146891 on 31 May 2012.

Licensing Contact: Sally Hu, Ph.D.; 301-435-5606; hus@mail.nih.gov.

Collaborative Research Opportunity: The NCI CCR Nanobiology Program is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate or commercialize m36, single domain sCD4, and related fusion proteins as candidate therapeutics against HIV-1. For collaboration opportunities, please contact John Hewes, Ph.D. at hewesj@mail.nih.gov.

Dated: September 27, 2012.

Richard U. Rodriguez,

Director, Division of Technology Development and Transfer, Office of Technology Transfer, National Institutes of Health.

[FR Doc. 2012-24251 Filed 10-2-12; 8:45 am]

BILLING CODE 4140-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of General Medical Sciences Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. App.), notice is hereby given of the following 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 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 General Medical Sciences Special Emphasis Panel; Phase III Antibiotic Clinical Trials.

Date: November 1, 2012.

Time: 11 a.m. to 12 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, Natcher Building, 45 Center Drive, Room 3An18K, Bethesda, MD 20892.

Contact Person: Brian R. Pike, Ph.D., Scientific Review Officer, Office of Scientific Review, National Institute of General Medical Sciences, National Institutes of Health, 45 Center Drive, Room 3An18, Bethesda, MD 20892, 301-594-3907, pikbr@mail.nih.gov. (Catalogue of Federal Domestic Assistance Program Nos. 93.375, Minority Biomedical Research Support; 93.821, Cell Biology and Biophysics Research; 93.859, Pharmacology, Physiology, and Biological Chemistry Research; 93.862, Genetics and Developmental Biology Research; 93.88, Minority Access to Research Careers; 93.96, Special Minority Initiatives, National Institutes of Health, HHS)

Dated: September 27, 2012.

Melanie J. Gray,

Program Analyst, Office of Federal Advisory Committee Policy.

[FR Doc. 2012-24253 Filed 10-2-12; 8:45 am]

BILLING CODE 4140-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

Eunice Kennedy Shriver National Institute of Child Health & Human Development; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as

amended (5 U.S.C. App.), notice is hereby given of the following 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 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 Child Health and Human Development Special Emphasis Panel; ZHD1 DSR-Y 40 2.

Date: October 25, 2012.

Time: 12 p.m. to 2 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, 6100 Executive Boulevard, Rockville, MD 20852, (Telephone Conference Call).

Contact Person: Cathy J. Wedeen, Ph.D., Scientific Review Officer, Division of Scientific Review, OD, Eunice Kennedy Shriver National Institute of Child Health and Human Development, NIH, 6100 Executive Blvd., Room 5B01-G, Bethesda, MD 20892, 301-435-6878, wedeenc@mail.nih.gov.

(Catalogue of Federal Domestic Assistance Program Nos. 93.864, Population Research; 93.865, Research for Mothers and Children; 93.929, Center for Medical Rehabilitation Research; 93.209, Contraception and Infertility Loan Repayment Program, National Institutes of Health, HHS)

Dated: September 27, 2012.

Michelle Trout,

Program Analyst, Office of Federal Advisory Committee Policy.

[FR Doc. 2012-24255 Filed 10-2-12; 8:45 am]

BILLING CODE 4140-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of Environmental Health Sciences; Notice of Closed Meetings

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. App.), 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 Environmental Health Sciences Special Emphasis Panel; Review of Worker Safety Training.

Date: October 24, 2012.

Time: 12 p.m. to 5 p.m.

Agenda: To review and evaluate grant applications.

Place: NIEHS, Keystone Building, 530 Davis Drive, Research Triangle Park, NC 27709 (Telephone Conference Call).

Contact Person: Janice B Allen, Ph.D., Scientific Review Administrator, Scientific Review Branch, Division of Extramural Research and Training, National Institute of Environmental Health Science, P.O. Box 12233, MD EC-30/Room 3170 B, Research Triangle Park, NC 27709, 919/541-7556.

Name of Committee: National Institute of Environmental Health Sciences Special Emphasis Panel; Support for Conferences and Scientific Meetings.

Date: October 25, 2012.

Time: 12 p.m. to 5 p.m.

Agenda: To review and evaluate grant applications.

Place: NIEHS, Keystone, 530 Davis Drive, Research Triangle Park, NC (Telephone Conference Call).

Contact Person: Janice B Allen, Ph.D., Scientific Review Administrator, Scientific Review Branch, Division of Extramural Research and Training, National Institute of Environmental Health Science, P.O. Box 12233, MD EC-30/Room 3170 B, Research Triangle Park, NC 27709, 919/541-7556.

Name of Committee: National Institute of Environmental Health Sciences Special Emphasis Panel; Superfund Research Program.

Date: November 1-2, 2012.

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

Agenda: To review and evaluate grant applications.

Place: Hilton Raleigh-Durham Airport at Research Triangle, 4810 Page Creek Lane, Durham, NC 27703.

Contact Person: Leroy Worth, Ph.D., Scientific Review Administrator, Scientific Review Branch, Division of Extramural Research and Training, National Institute of Environmental Health Sciences, P.O. Box 12233, MD EC-30/Room 3171, Research Triangle Park, NC 27709, 919/541-0670, worth@niehs.nih.gov.

(Catalogue of Federal Domestic Assistance Program Nos. 93.115, Biometry and Risk Estimation—Health Risks from Environmental Exposures; 93.142, NIEHS Hazardous Waste Worker Health and Safety Training; 93.143, NIEHS Superfund Hazardous Substances—Basic Research and Education; 93.894, Resources and Manpower Development in the Environmental Health Sciences; 93.113, Biological Response to Environmental Health Hazards; 93.114, Applied Toxicological Research and Testing, National Institutes of Health, HHS)

Dated: September 27, 2012.

Carolyn A. Baum,

Program Analyst, Office of Federal Advisory Committee Policy.

[FR Doc. 2012-24270 Filed 10-2-12; 8:45 am]

BILLING CODE 4140-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

Office of the Director, National Institutes of Health; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. App.), notice is hereby given of a meeting of the Council of Councils.

The meeting will be closed to the public in accordance with the provisions set forth in sections 552b(c)(4) and 552b(c)(9)(B), Title 5 U.S.C., as amended. The closed portion of the meeting is likely to include disclosure of trade secrets and/or commercial or confidential financial information obtained from a person. In addition, it is likely that premature disclosure of the matters to be discussed would significantly frustrate implementation of a proposed agency action.

Name of Committee: Council of Councils.

Date: October 29, 2012.

Time: 11 a.m. to 1 p.m.

Agenda: To review and evaluate discussion of Research Projects involving Chimpanzees.

Place: National Institutes of Health, Building 1, 1 Center Drive, Room 260, Bethesda, MD 20892, (Telephone Conference Call).

Contact Person: Robin Kawazoe, Executive Secretary, Division of Program Coordination, Planning, and Strategic Initiatives, Office of the Director, NIH, Building 1, Room 260b, Bethesda, MD 20892, kawazoer@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. Information is also available on the Council of Council's home page at <http://dpcpsi.nih.gov/council/>. Where an agenda and proposals to be discussed will be posted before the meeting date.

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.