

*Licensing Contact:* Jasbir (Jesse) S. Kindra, J.D., M.S.; 301-435-5170; [kindraj@mail.nih.gov](mailto:kindraj@mail.nih.gov).

### **P53 and VEGF Regulate Tumor Growth of NO<sub>2</sub> Expressing Cancer Cells**

*Description of Technology:* The increased expression of nitric oxide synthase 2 (NOS2), an inducible enzyme that produces nitric oxide (NO), has been found in a variety of human cancers. It also has been shown that NOS2-specific inhibitors can reduce the growth of experimental tumors in mice. These findings suggest a pathophysiological role for NO in the development and progression of cancer. However, the function of NO and NOS2 in carcinogenesis is uncertain. NO had been found to either inhibit or stimulate tumor growth, and high concentrations of NO also are known to induce cell death in many cell types including tumor cells. On the other hand, low NO concentrations found in human tissue can have an opposite effect and protect against programmed cell death, or apoptosis, from various stimuli. The role of NO and NOS2 in tumor progression, particularly with respect to p53, therefore need to be further defined.

This invention comprises methods of screening for modulators of NOS2 expression in p53 mutant cells, both *in vivo* and *in vitro*, as well as methods for predicting the chemotherapeutic benefit of administering NOS2-inhibitors to cancer patients. It has been demonstrated that NOS2-expressing cancer cells with wild-type p53 have reduced tumor growth in athymic nude mice whereas NOS2-expressing cancer cells with mutated p53 have accelerated tumor growth. Therefore, this invention has potential application for a number of cancers that overexpress NOS2 and have a high frequency of p53 mutations, including breast, brain, head, neck, lung and colon cancers.

#### *Applications:*

Method to treat cancer with NOS2 inhibitors.

Method to screen for NOS2 modulators.

Method to predict therapeutic benefits of NOS2 inhibitors in patients.

#### *Market:*

An estimated 1,444,920 new cancer diagnoses in the U.S. in 2007.

600,000 deaths caused by cancer in the U.S. in 2006.

Cancer is the second leading cause of death in United States.

It is estimated that market for cancer drugs would double to \$50 billion a year in 2010 from \$25 billion in 2006.

*Development Status:* The technology is currently in the pre-clinical stage of development.

*Inventors:* Stefan Ambs and Curt Harris (NCI).

#### *Publications:*

1. JE Goodman *et al.* Nitric oxide and p53 in cancer-prone chronic inflammation and oxyradical overload diseases. *Environ Mol Mutagen.* 2004;44(1):3-9.

2. LJ Hofseth *et al.* Nitric oxide in cancer and chemoprevention. *Free Radic Biol Med.* 2003Apr 15;34(8):955-968.

#### *Patent Status:*

U.S. Patent Application No. 11/195,006 filed 01 Aug 2005 (HHS Reference No. E-223-1998/0-US-04).

U.S. Patent Application No. 09/830,977 filed 02 May 2001 (HHS Reference No. E-223-1998/0-US-03).

PCT Patent Application No. PCT/US1999/27410 filed 17 Nov 1998 (HHS Reference No. E-223-1998/0-PCT-02).

U.S. Provisional Patent Application No. 60/109,563 filed 23 Nov 1998 (HHS Reference No. E-223-1998/0-US-01).

*Licensing Status:* Available for exclusive or non-exclusive licensing.

*Licensing Contact:* Jennifer Wong; 301/435-4633; [wongje@mail.nih.gov](mailto:wongje@mail.nih.gov).

Dated: February 26, 2008.

#### **Steven M. Ferguson,**

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

[FR Doc. E8-4200 Filed 3-4-08; 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 (5 U.S.C. Appendix 2), 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, Member

Conflicts: Musculoskeletal Rehabilitation Sciences.

*Date:* March 18, 2008.

*Time:* 4 p.m. to 6 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* John P. Holden, PhD, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4211, MSC 7814, Bethesda, MD 20892, 301-496-8551, [holdenjo@csr.nih.gov](mailto:holdenjo@csr.nih.gov).

This notice is being published less than 15 days prior to the meeting due to the timing limitations imposed by the review and funding cycle.

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, Infectious Diseases Microbiology Fellowships.

*Date:* March 19-20, 2008.

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

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Virtual Meeting).

*Contact Person:* Alexander D. Politis, PhD, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3210, MSC 7808, Bethesda, MD 20892, 301-435-1150, [politis@csr.nih.gov](mailto:politis@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, Cancer Drug and Therapeutics Development SBIR/STTR.

*Date:* March 20-21, 2008.

*Time:* 9 a.m. to 8 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Virtual Meeting).

*Contact Person:* Steven B. Scholnick, PhD, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6152, MSC 7804, Bethesda, MD 20892, 301-435-1719, [scholnis@csr.nih.gov](mailto:scholnis@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, Member Conflicts: Skeletal Muscle and Exercise Physiology.

*Date:* March 20, 2008.

*Time:* 3:30 p.m. to 6 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* John P. Holden, PhD, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4211, MSC 7814, Bethesda, MD 20892, 301-496-8551, [holdenjo@csr.nih.gov](mailto:holdenjo@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, Developmental Pharmacology.

*Date:* March 26, 2008.

*Time:* 1 p.m. to 3 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Janet M. Larkin, PhD, Scientific Review Administrator, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 1102, MSC 7840, Bethesda, MD 20892, 301-435-1026, [larkinja@csr.nih.gov](mailto:larkinja@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, Behavioral and Social HIV/AIDS Review of SBIR Applications.

*Date:* March 28, 2008.

*Time:* 1 p.m. to 3 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Virtual Meeting).

*Contact Person:* Mark P. Rubert, PhD, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 5218, MSC 7852, Bethesda, MD 20892, 301-435-1775, [rubertm@csr.nih.gov](mailto:rubertm@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel, Development of Assays for High Throughput Screening (HTS) in the Molecular Libraries Probe Production Centers Network (MLPCN).

*Date:* April 3, 2008.

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

*Agenda:* To review and evaluate grant applications.

*Place:* Georgetown Suites, 1000 29th Street, NW, Washington, DC 20007.

*Contact Person:* George W. Chacko, PhD, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 5170, MSC 7849, Bethesda, MD 20892, 301-435-1245, [chackoge@csr.nih.gov](mailto:chackoge@csr.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.306, Comparative Medicine; 93.333, Clinical Research, 93.306, 93.333, 93.337, 93.393-93.396, 93.837-93.844, 93.846-93.878, 93.892, 93.893, National Institutes of Health, HHS)

Dated: February 27, 2008.

**Jennifer Spaeth,**

*Director, Office of Federal Advisory Committee Policy.*

[FR Doc. 08-936 Filed 3-04-08; 8:45 am]

BILLING CODE 4140-01-M

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

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

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. Appendix 2), 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:* Center for Scientific Review Special Emphasis Panel, Atherosclerotic and Lipid Metabolism.

*Date:* March 11, 2008.

*Time:* 1:30 p.m. to 3 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Anshumali Chaudhari, PhD, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4124, MSC 7802, Bethesda, MD 20892, (301) 435-1210, [chaudhaa@csr.nih.gov](mailto:chaudhaa@csr.nih.gov).

This notice is being published less than 15 days prior to the meeting due to the timing limitations imposed by the review and funding cycle.

(Catalogue of Federal Domestic Assistance Program Nos. 93.306, Comparative Medicine; 93.333, Clinical Research, 93.306, 93.333, 93.393-93.396, 93.337, 93.837-93.844, 93.846-93.878, 93.892, 93.893, National Institutes of Health, HHS)

Dated: February 27, 2008.

**Jennifer Spaeth,**

*Director, Office of Federal Advisory Committee Policy.*

[FR Doc. 08-937 Filed 3-4-08; 8:45 am]

BILLING CODE 4140-01-M

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Institute of Environmental Health Sciences; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. Appendix 2), 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 Environmental Health Sciences Special

Emphasis Panel, Mentored Career Development Award Review Meeting.

*Date:* April 7, 2008.

*Time:* 2 p.m. to 5 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* NIEHS/National Institutes of Health, Building 4401, East Campus, 79 T.W. Alexander Drive, Research Triangle Park, NC 27709, (Telephone Conference Call).

*Contact Person:* Linda K. Bass, Scientific Review Administrator, Scientific Review Branch, Division of Extramural Research and Training, Nat. Institute Environmental Health Sciences, P.O. Box 12233, MD EC-30, Research Triangle Park, NC 27709, (919) 541-1307, [bass@niehs.nih.gov](mailto:bass@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: February 27, 2008.

**Jennifer Spaeth,**

*Director, Office of Federal Advisory Committee Policy.*

[FR Doc. 08-938 Filed 3-4-08; 8:45 am]

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## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Institute of Allergy and Infectious Diseases: Licensing Opportunity and Cooperative Research and Development Agreement ("CRADA") Opportunity; Live Attenuated Vaccine To Prevent Disease Caused by West Nile Virus

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

**ACTION:** Notice.

**SUMMARY:** The National Institute of Allergy and Infectious Diseases (NIAID) of the NIH is seeking licensees and/or CRADA partners to further develop, evaluate, and commercialize modified West Nile virus (WNV) chimeras as a live attenuated vaccine against infections of WNV in humans. NIAID is also seeking licensees to commercialize modified WNV chimeras as live attenuated veterinary vaccines against infections of WNV in animals.

**DATES:** Respondents interested in licensing the invention will be required to submit an "Application for License to Public Health Service Inventions" on or