

Craniofacial Research, Oral and Pharyngeal Cancer Branch, is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate, or commercialize this technology. Please contact David W. Bradley, PhD at [bradleyda@nidcr.nih.gov](mailto:bradleyda@nidcr.nih.gov) for more information.

### Use of Tetracyclines as Anti-Cancer Agents

**Description of Technology:** The invention describes compositions of tetracycline compounds and their derivatives as having anti-cancer activity, as well as methods of treating cancer. Tetracyclines are commonly used as antibiotics; however, testing of these compounds in a high throughput screening system revealed certain derivatives to be potent inhibitors of tyrosyl-DNA-phosphodiesterase (Tdp1).

Camptothecins are effective Topoisomerase I (Top1) inhibitors, and two derivatives (Topotecan® and Camptosar®) are currently approved for treatment of ovarian and colorectal cancer. Camptothecins damage DNA by trapping covalent complexes between the Top1 catalytic tyrosine and the 3'-end of the broken DNA. Tdp1 repairs Top1-DNA covalent complexes by hydrolyzing the tyrosyl-DNA bond. This can reduce the effectiveness of camptothecins as anti-cancer agents. In addition, Tdp1 repairs free-radical-mediated DNA breaks.

As disclosed in the instant technology, tetracyclines have the potential to enhance the anti-neoplastic activity of Top1 inhibitors by reducing repair of Top1-DNA lesions through inhibition of Tdp1. Inhibition of Tdp1 may also reduce repair of DNA breaks and increase the rate of apoptosis in cancer cells, making them potential anti-cancer agents on their own.

**Development Status:** Pre-clinical stage.

**Inventors:** Yves Pommier, Christophe Marchand, Laurent Thibaut (NCI).

**Publications:** 1. Z Liao *et al.* Inhibition of human tyrosyl-DNA phosphodiesterase (Tdp1) by aminoglycoside antibiotics and ribosome inhibitors. *Mol Pharmacol.* 2006 Jul;70(1):366–372.

2. Y Pommier. Camptothecins and topoisomerase I: A foot in the door. Targeting the genome beyond topoisomerase I with camptothecins and novel anticancer drugs: Importance of DNA replication, repair and cell cycle checkpoints. *Curr Med Chem Anticancer Agents.* 2004 Sep;4(5):429–434. Review.

3. Y Pommier *et al.* Repair of and checkpoint response to topoisomerase I

mediated DNA damage. *Mutat Res.* 2003 Nov 27;532(1–2):173–203. Review.

**Patent Status:** U.S. Provisional Application No. 60/786,746 filed 27 Mar 2006 (HHS Reference No. E-097-2006/0-US-01).

International Application No. PCT/US2007/007724 filed 27 Mar 2007 (HHS Reference No. E-097-2006/0-PCT-02).

U.S. Patent Application No. 12/241,011 filed 29 Sep 2008 (HHS Reference No. E-097-2006/1-US-01).

**Licensing Status:** Available for licensing.

**Licensing Contact:** Betty Tong, PhD; 301-594-6565; [tongb@mail.nih.gov](mailto:tongb@mail.nih.gov).

**Collaborative Research Opportunity:** The Laboratory of Molecular Pharmacology at the National Cancer Institute is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate, or commercialize tetracycline derivatives, particularly optimizing them for therapeutic use. Please contact John D. Hewes, PhD at 301-435-3121 or [hewesj@mail.nih.gov](mailto:hewesj@mail.nih.gov) for more information.

### Glutathione S-transferase Clones for Members of the Ubiquitin-Dependent Protein Degradation Pathway

**Description of Technology:** Scientists at the National Institutes of Health have developed cDNA for glutathione S-transferase (GST) clones for the following factors: Nedd4, XIAP, UBCH5B, and CBL-B. These proteins are involved in the ubiquitin-dependent pathway of protein degradation in cells, the major cellular system for protein degradation. The ubiquitin-proteasome pathway regulates several cancer regulated proteins. Defects in this pathway can lead to cancer development. The GST clones can be used to produce corresponding GST fusion proteins in order to isolate each protein from the pathway for further analysis. These constructs can also be incorporated into assays/kits to detect proteins in the ubiquitin-dependent pathway.

**Applications:** Research tools for detection and isolation of ubiquitin-dependent pathway members in order to understand the pathway defects that lead to cancer and develop preventions and treatments to overcome these defects.

Research tools for generating fusion proteins of Nedd4, XIAP, UBCH5B, and CBL-B to further analyze their functions *in vivo* and *in vitro*.

Controls for screening inhibitors of the ubiquitin-dependent pathway in order to better understand the different

mechanisms of ubiquitin-dependent protein degradation.

**Inventors:** Allan M. Weissman *et al.* (NCI).

**Patent Status:** HHS Reference No. E-245-2003/0—Research Tool. Patent protection is not being pursued for this technology.

**Licensing Status:** Available for licensing under a Biological Materials License Agreement.

**Licensing Contact:** Samuel E. Bish, Ph.D.; 301-435-5282; [bishse@mail.nih.gov](mailto:bishse@mail.nih.gov).

Dated: February 24, 2009.

**Richard U. Rodriguez,**

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

[FR Doc. E9-4477 Filed 3-2-09; 8:45 am]

**BILLING CODE 4140-01-P**

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Institute of Allergy and Infectious Diseases; 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:** Microbiology, Infectious Diseases and AIDS Initial Review Group; Acquired Immunodeficiency Syndrome Research Review Committee.

**Date:** March 30–31, 2009.

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

**Agenda:** To review and evaluate grant applications.

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

**Contact Person:** Erica L. Brown, PhD, Scientific Review Officer, Scientific Review Program, Division of Extramural Activities, National Institutes of Health/NIAID, 6700B Rockledge Drive, MSC 7616, Bethesda, MD 20892-7616, 301-451-2639, [ebrown@niaid.nih.gov](mailto:ebrown@niaid.nih.gov).

**Name of Committee:** National Institute of Allergy and Infectious Diseases Special Emphasis Panel; Pandemic Flu.

**Date:** April 1, 2009.

*Time:* 9 a.m. to 12 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6700B Rockledge Drive, Bethesda, MD 20817, (Telephone Conference Call).

*Contact Person:* Clayton C. Huntley, PhD, Scientific Review Officer, Scientific Review Program, National Institutes of Health/NIAD, Room 3124, 6700B Rockledge Drive, MSC 7616, Bethesda, MD 20892-7616, 301-451-2570, [chuntley@niaid.nih.gov](mailto:chuntley@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: February 24, 2009.

**Jennifer Spaeth,**

*Director, Office of Federal Advisory Committee Policy.*

[FR Doc. E9-4411 Filed 3-2-09; 8:45 am]

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## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Eye Institute; 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:* National Eye Institute Special Emphasis Panel; Research Grant Applications.

*Date:* March 26, 2009.

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

*Agenda:* To review and evaluate grant applications.

*Place:* Embassy Suites at the Chevy Chase Pavilion, 4300 Military Road, NW., Washington, DC 20015.

*Contact Person:* Houmam H Araj, PhD, Scientific Review Administrator, Division of Extramural Research, National Eye Institute, NIH, 5635 Fishers Lane, Suite 1300, Bethesda, MD 20892-9602, 301-451-2020, [ha50c@nih.gov](mailto:ha50c@nih.gov).

*Name of Committee:* National Eye Institute Special Emphasis Panel; NEI Mentored Career Development Grant Applications (K).

*Date:* March 31, 2009.

*Time:* 12 p.m. to 2:30 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 5635 Fishers Lane, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Anne E Schaffner, PhD, Scientific Review Officer, Division of Extramural Research, National Eye Institute, 5635 Fishers Lane, Suite 1300, MSC 9300, Bethesda, MD 20892-9300, (301) 451-2020, [aes@nei.nih.gov](mailto:aes@nei.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.867, Vision Research, National Institutes of Health, HHS)

Dated: February 23, 2009.

**Jennifer Spaeth,**

*Director, Office of Federal Advisory Committee Policy.*

[FR Doc. E9-4286 Filed 3-2-09; 8:45 am]

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## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Institute on Aging; 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 a meeting of the Board of Scientific Counselors, NIA.

The meeting will be closed to the public as indicated below in accordance with the provisions set forth in section 552b(c)(6), Title 5 U.S.C., as amended for the review, discussion, and evaluation of individual intramural programs and projects conducted by the National Institute on Aging, including consideration of personnel qualifications and performance, and the competence of individual investigators, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

*Name of Committee:* Board of Scientific Counselors, NIA.

*Date:* May 12-13, 2009.

*Time:* May 12, 2009, 8 a.m. to 4 p.m.

*Agenda:* To review and evaluate personal qualifications and performance, and competence of individual investigators.

*Place:* National Institute on Aging, Biomedical Research Center, 251 Bayview Blvd., 3rd Floor Conference Room, Baltimore, MD 21224.

*Time:* May 13, 2009, 8 a.m. to 1:50 p.m.

*Agenda:* To review and evaluate personal qualifications and performance, and competence of individual investigators.

*Place:* National Institute on Aging, Biomedical Research Center, 251 Bayview Blvd., 3rd Floor Conference Room, Baltimore, MD 21224.

*Contact Person:* Dan L. Longo, MD, Scientific Director, National Institute of

Aging, Gerontology Research Center, National Institutes of Health, 5600 Nathan Shock Drive, Baltimore, MD 21224-6825. 410-558-8110, [d114q@nia.nih.gov](mailto:d114q@nia.nih.gov).

(Catalogue of Federal Domestic Assistance Program No. 93.866, Aging Research, National Institutes of Health, HHS)

Dated: February 23, 2009.

**Jennifer Spaeth,**

*Director, Office of Federal Advisory Committee Policy.*

[FR Doc. E9-4265 Filed 3-2-09; 8:45 am]

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## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Institute of Mental Health; 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 Mental Health Special Emphasis Panel; Center for AIDS Intervention Research Core Support.

*Date:* March 20, 2009.

*Time:* 1 p.m. to 5 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:* Enid Light, PhD, Scientific Review Officer, Division of Extramural Activities, National Institute of Mental Health, NIH, Neuroscience Center, 6001 Executive Boulevard, Room 6132, MSC 9608, Bethesda, MD 20852-9608, 301-443-0322, [elight@mail.nih.gov](mailto:elight@mail.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.242, Mental Health Research Grants; 93.281, Scientist Development Award, Scientist Development Award for Clinicians, and Research Scientist Award; 93.282, Mental Health National Research Service Awards for Research Training, National Institutes of Health, HHS)