

- HHS Reference No. E-055-2007/2—US Provisional Patent Application No. 60/957,140 filed 21 Aug 2007
- HHS Reference No. E-055-2007/3—PCT Patent Application No. PCT/US2007/086663 filed 06 Dec 2007, which published as WO 2008/140602 on 20 Nov 2008, and corresponding European Application No. 07874349.9; US Patent Application No. 12/518,035 filed 05 Jun 2009

*Licensing Contact:* Cristina Thalhammer-Reyero, Ph.D., M.B.A.; 301-435-4507; [thalhamc@mail.nih.gov](mailto:thalhamc@mail.nih.gov).

*Collaborative Research Opportunity:* The National Institute of Allergy and Infectious Diseases is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate or commercialize alpha-4 beta-7 integrin inhibitors. For collaboration opportunities, please contact Bill Ronnenberg, JD/MIP, MS at 301-451-3522 or [wr78k@nih.gov](mailto:wr78k@nih.gov).

### Beta-Amyloid and Tau Fibril Positron Emissions Tomography (PET) Imaging Agents

*Description of Technology:* The invention relates to two novel classes of compounds useful as radioligands for in vivo imaging of beta-amyloid fibrils, peptides and plaques in humans. Beta-amyloid peptide deposition in the brain is a pathological feature of Alzheimer's disease (AD). Early detection of beta-amyloid load in patients with suspected AD is vital to initiating early treatment, which can improve cognitive function and quality of life for many patients. The invention describes novel derivatives of imidazopyridinylbenzeneamine (IMPY) and benzothiazolylbenzeneamine (BTA), which demonstrate high in vitro binding affinity to human beta-amyloid. The difference between existing IMPY compounds and the novel derivatives is the substitution of an aryl halide with an aryl thioether group and replacement of a sulfur group of the pyridine ring with a nitrogen group. The new classes of compounds have the potential of providing improved amyloid imaging agents for Positron Emission Tomography (PET) with higher specificity for amyloid, low background noise, better entry into the brain and improved labeling efficiency.

#### *Potential Commercial Applications:*

- Alzheimer's disease
- Alzheimer's disease diagnostics
- Alzheimer's disease early detection

#### *Competitive Advantages:* Specificity

*Development Stage:* In vitro data available

*Inventors:* Lisheng Cai, Victor W. Pike, Robert B. Innis (all of NIMH)

#### *Publications:*

1. Nichols L, et al. Imaging and in vivo quantitation of beta-amyloid: an exemplary biomarker for Alzheimer's disease? *Biol Psychiatry*. 2006 May 15;59(10):940-7. [PMID 16487944]
2. Toyama H, et al. PET imaging of brain with the beta-amyloid probe, [11C]6-OH-BTA-1, in a transgenic mouse model of Alzheimer's disease. *Eur J Nucl Med Mol Imaging*. 2005 May;32(5):593-600. [PMID 15791432]
3. Cai L, et al. Synthesis and evaluation of two 18F-labeled 6-iodo-2-(4'-N,N-

dimethylamino)phenylimidazo[1,2-a]pyridine derivatives as prospective radioligands for beta-amyloid in Alzheimer's disease. *J Med Chem*. 2004 Apr 22;47(9):2208-18. [PMID 15084119]

*Intellectual Property:* HHS Reference No. E-156-2006/0—

- US Patent Application 12/293,940 filed September 17, 2008 (allowed)
- European Patent Application 07797254.5 filed April 19, 2007 (pending)

#### *Related Technologies:*

- HHS Reference No. E-136-2008/0—"Beta Amyloid PET Imaging Agents Based On 2-(4-phenyl)benzo[d]thiazole Derivatives"
- HHS Reference Nos. E-225-2011/0 and/1—"Beta-amyloid PET Imaging Agents Based On Benzothiazoles (BTA) Derivatives"

*Licensing Contact:* Michael Shmilovich, Esq., CLP; 301-435-5019; [shmilovm@mail.nih.gov](mailto:shmilovm@mail.nih.gov).

*Collaborative Research Opportunity:* The National Institute of Mental Health is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate or commercialize Alzheimer's disease diagnostics. For collaboration opportunities, please contact Suzanne Winfield, Ph.D. at 301-402-4324.

Dated: February 27, 2014.

**Richard U. Rodriguez,**

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

[FR Doc. 2014-04771 Filed 3-4-14; 8:45 am]

**BILLING CODE 4140-01-P**

## 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 (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 on Deafness and Other Communication Disorders Special Emphasis Panel; Neural/Vestibular Prosthesis Review.

*Date:* March 21, 2014.

*Time:* 2:00 p.m. to 3:30 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:* Kausik Ray, Ph.D., Scientific Review Officer, National Institute on Deafness and Other Communication Disorders, National Institutes of Health Rockville, MD 20850, 301-402-3587, [rayk@nidcd.nih.gov](mailto:rayk@nidcd.nih.gov).

*Name of Committee:* National Institute on Deafness and Other Communication Disorders Special Emphasis Panel; VSL Translational Applications Review.

*Date:* March 27, 2014.

*Time:* 3:30 p.m. to 5:30 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:* Christine A. Livingston, Ph.D., Scientific Review Officer, Division of Extramural Activities, National Institutes of Health/NIDCD, 6001 Executive Blvd.—Room 8343, Bethesda, MD 20892, (301) 496-8683, [livingsc@mail.nih.gov](mailto:livingsc@mail.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.173, Biological Research Related to Deafness and Communicative Disorders, National Institutes of Health, HHS)

Dated: February 27, 2014.

**Melanie J. Gray,**

*Program Analyst, Office of Federal Advisory Committee Policy.*

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**BILLING CODE 4140-01-P**

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Institute of General Medical 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 General Medical Sciences Special Emphasis Panel; Review of K99 Grant Applications.

*Date:* March 25, 2014.

*Time:* 8:00 a.m. to 5:00 p.m.