

1. Marker protein and target for antigen-specific immunotherapy in patients with malignant melanoma.

2. Therapeutics and diagnostics for melanin-related disorders.

*Development Status:* Early stage.

*Inventors:* William J. Pavan and Stacie K. Loftus (NHGRI).

*Publications:* Stacie K. Loftus, Denise M. Larson, Laura L. Baxter, Anthony Antonellis, Yidong Chen, Xufeng Wu, Yuan Jiang, Michael Bittner, John A. Hammer III, and William J. Pavan. Mutation of melanosome protein RAB38 in chocolate mice. *Proc Natl Acad Sci U.S.A.* 2002 Apr 2;99(7):4471-4476.

*Patent Status:*

1. U.S. National Stage Application No. 10/501,611 filed 20 Nov 2005, claiming priority to 18 Jan 2002 (HHS Reference No. E-315-2001/0-US-07).

2. Foreign counterparts pending in Australia, Canada, Europe, and Japan.

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

*Licensing Contact:* Tara L. Kirby, Ph.D.; 301/435-4426; [tarak@mail.nih.gov](mailto:tarak@mail.nih.gov).

### Novel Dmt-Tic Analogues Specific for Delta- and Mu-Opioid Receptors

*Description of Technology:* Opioid receptor modulators, used historically for pain control, have more recently been shown to possess broader therapeutic potential in areas such as opiate and alcohol abuse, neurological disease or injury, neuropeptide or neurotransmitter imbalance, and immune system dysfunction. Furthermore, their interaction with key reward pathways presents interesting avenues for exploration in the treatment of food as an addictive substance, due to the fact that obesity is a major health problem in the U.S. Also, evidence of modulatory interactions between delta- and mu-opioid receptors has spurred interest in new opioid ligands possessing mixed and dual specificity for these receptors. These bifunctional compounds are particularly promising for treatment of addiction and treatment of pain with the elimination of drug tolerance.

The inventors have developed a wide variety of highly selective Dmt-Tic analogues with potential therapeutic applications. These analogues include specific agonists and antagonists of the delta- and mu-opioid receptors and combinations thereof.

Some disclosed analogues are di- and tri-peptidic derivatives of the Dmt-Tic pharmacophore; in addition to opioid receptor specificity, two of these derivatives have been shown to inhibit the activity of human multidrug resistance glycoprotein 1 (hMDR1) and

may represent a novel chemosensitizing agent for treating cancer, and may also be used for reducing tolerance to morphine, the drug of choice in most hospitals around the world, thereby increasing its effectiveness. Also disclosed are compounds produced through derivatization of Dmt-Tic reference compounds with lysine, resulting in an unexpected and broad range of delta-and/or mu-opioid receptor modulation. The inventors have also prepared symmetric and asymmetric Dmt-Tic di-peptides that are potent dual delta- and mu-opioid receptor antagonists and that can pass through the gastrointestinal and blood-brain barriers. Finally, the inventors have prepared various fluorescent Dmt-Tic analogs that are useful for study of delta- and mu-opioid receptor structure and function.

*Applications:*

1. Potential opiate, food, and alcohol addiction therapeutics.

2. Potential therapeutics for pain treatment.

3. Potential therapeutics for cancer.

4. Tools for screening ligand binding activity and differentiating between delta- and mu-opioid receptors.

*Market:*

1. In 2004, approximately 22 million Americans over the age of 12 required treatment for alcohol or illicit drug abuse and addiction; 13 million of these were classified as alcoholics.

2. Approximately 50 million Americans suffer from pain, and an estimated 1.5 billion people suffer from moderate to severe pain worldwide.

3. Two-thirds of the U.S. population is overweight, with a quarter designated as obese (9 million of whom are children); the number of overweight Americans doubled between 1980-1999 and is predicted to increase 20% by 2013 to 140 million.

*Development Status:* *In vitro* data are available.

*Inventors:* Lawrence H. Lazarus (NIEHS) et al.

*Publications:*

1. G. Balboni et al. Effect of lysine at C-terminus of the Dmt-Tic opioid pharmacophore. *J Med Chem.* 2006 Sep 7;49(18):5610-5617.

2. T Lovekamp et al. Inhibition of human multidrug resistance P-glycoprotein 1 by analogues of a potent delta-opioid antagonist. *Brain Res.* 2001 May 25;902(1):131-134.

3. T Li et al. Potent Dmt-Tic pharmacophoric delta- and mu-opioid receptor antagonists. *J Med Chem.* 2005 Dec 15;48(25):8035-8044.

4. T Li et al. Transformation of a mu-opioid agonist into biologically potent mu-opioid antagonists. *Bioorg Med Chem.* 2007 Feb 1;15(3):1237-1251.

5. G. Balboni et al. Highly selective fluorescent analogue of the potent  $\mu$ -opioid receptor antagonist Dmt-Tic. *J Med Chem.* 2004 Dec 16;47(26):6541-6546.

*Patent Status:*

1. U.S. Patent No. 6,753,317 issued 22 Jun 2004 (HHS Reference No. E-103-2000/0-US-02).

2. U.S. Patent No. 6,916,905 issued 12 Jul 2005 (HHS Reference No. E-103-2000/1-US-01).

3. U.S. Patent Application No. 10/280,752 filed 16 Nov 2005 (HHS Reference No. E-103-2000/2-US-02).

4. U.S. Provisional Application No. 60/834,438 filed 31 Jul 2006 (HHS Reference No. E-103-2000/3-US-01).

5. PCT Application No. PCT/US06/33560 filed 30 Aug 2006 (HHS Reference No. E-305-2005/0-PCT-02).

*Licensing Status:* Available for exclusive or nonexclusive licensing.

*Licensing Contact:* Tara L. Kirby, PhD; 301/435-4426; [tarak@mail.nih.gov](mailto:tarak@mail.nih.gov).

Dated: April 17, 2007.

**Steven M. Ferguson,**

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

[FR Doc. E7-7933 Filed 4-25-07; 8:45 am]

BILLING CODE 4140-01-P

## DEPARTMENT OF HOMELAND SECURITY

### Coast Guard

[USCG-2007-27858]

### National Boating Safety Advisory Council; Vacancies

**AGENCY:** Coast Guard, DHS.

**ACTION:** Request for applications.

**SUMMARY:** The Coast Guard seeks applications for membership on the National Boating Safety Advisory Council (NBSAC). NBSAC advises the Coast Guard on matters related to recreational boating safety.

**DATES:** Application forms should reach us on or before August 17, 2007.

**ADDRESSES:** You may request an application form by writing to Commandant, Office of Boating Safety (CG-3PCB-1), U.S. Coast Guard, 2100 Second Street, SW., Washington, DC 20593-0001; by calling 202-372-1062; or by faxing 202-372-1932. Send your application in written form to the above street address. This notice and the application form are also available on the Internet at: <http://www.uscgboating.org/nbsac/nbsac.htm>.

**FOR FURTHER INFORMATION CONTACT:** Mr. Jeff Ludwig, Executive Secretary of

NBSAC, telephone 202-372-1062, fax 202-372-1932, or e-mail: [jeffrey.a.ludwig@uscg.mil](mailto:jeffrey.a.ludwig@uscg.mil).

**SUPPLEMENTARY INFORMATION:** The National Boating Safety Advisory Council (NBSAC) is a Federal advisory committee under 5 U.S.C. App. 2. It advises the Coast Guard regarding regulations and other major boating safety matters. NBSAC's 21 members are drawn equally from the following three sectors of the boating community: State officials responsible for State boating safety programs, recreational boat and associated equipment manufacturers, and national recreational boating organizations and the general public. Members are appointed by the Secretary of the Department of Homeland Security.

NBSAC normally meets twice each year at a location selected by the Coast Guard. When attending meetings of the Council, members are provided travel expenses and per diem.

We will consider applications received in response to this notice for the following seven positions that expire or become vacant in December 2007: Two representatives of State officials responsible for State boating safety programs, three representatives of recreational boat and associated equipment manufacturers, and two representatives of the general public or national recreational boating organizations.

Applicants are considered for membership on the basis of their particular expertise, knowledge, and experience in recreational boating safety. Prior applicants should submit an updated application to ensure consideration for the vacancies announced in this notice. Each member serves for a term of up to 3 years. Members may reapply to serve a consecutive term. In support of the policy of the U.S. Coast Guard on gender and ethnic diversity, we encourage qualified women and members of minority groups to apply.

If you are selected as a member who represents the general public, we will require you to complete a Confidential Financial Disclosure Report (OGE Form 450). We may not release the report or the information in it to the public, except under an order issued by a Federal court or as otherwise provided under the Privacy Act (5 U.S.C. 552a).

Dated: April 18, 2007.

**F.J. Sturm,**

*Captain, U.S. Coast Guard, Acting Director of Inspections and Compliance.*

[FR Doc. E7-7947 Filed 4-25-07; 8:45 am]

**BILLING CODE 4910-15-P**

**DEPARTMENT OF HOMELAND SECURITY**

**Coast Guard**

[CGD08-07-009]

**Lower Mississippi River Waterway Safety Advisory Committee**

**AGENCY:** Coast Guard, DHS.

**ACTION:** Notice of meeting.

**SUMMARY:** The Lower Mississippi River Waterway Safety Advisory Committee (LMRWSAC) will meet to discuss various issues relating to navigational safety on the Lower Mississippi River and related waterways. The meeting will be open to the public.

**DATES:** The next meeting of LMRWSAC will be held on Wednesday, May 23, 2007, from 9 a.m. to 12 p.m. This meeting may adjourn early if all business is finished. Requests to make oral presentations or submit written materials for distribution at the meeting should reach the Coast Guard on or before May 9, 2007. Requests to have a copy of your material distributed to each member of the committee in advance of the meeting should reach the Coast Guard on or before May 9, 2007.

**ADDRESSES:** The meeting will be held in the World Trade Center of New Orleans, 2 Canal Street, 18th Floor, New Orleans, LA 70130. This notice is available on the Internet at <http://dms.dot.gov>.

**FOR FURTHER INFORMATION CONTACT:** Lieutenant Junior Grade (LTJG) Thao Nguyen, Assistant Committee Administrator, e-mail [thao.v.nguyen@uscg.mil](mailto:thao.v.nguyen@uscg.mil), telephone (504) 589-6196 extension 369. Written materials and requests to make presentations should be mailed to Commanding Officer, USCG Sector New Orleans, Attn: Waterways Management, 1615 Poydras St, New Orleans, LA 70112.

**SUPPLEMENTARY INFORMATION:** Notice of this meeting is given under the Federal Advisory Committee Act, 5 U.S.C. App. 2.

**Agenda of Meeting**

*Lower Mississippi River Waterway Safety Advisory Committee (LMRWSAC).* The agenda includes the following:

- (1) Introduction of committee members.
- (2) Opening Remarks.
- (3) Approval of the December 14, 2006 minutes.
- (4) Old Business:
  - (a) Captain of the Port status report.
  - (b) VTS update report.
  - (c) Subcommittee / Working Group update reports.

(5) New Business.

(6) Adjournment.

**Procedural**

The meeting is open to the public. Please note that the meeting may close early if all business is finished. At the Chair's discretion, members of the public may make oral presentations during the meeting. If you would like to make an oral presentation at the meeting, please notify the Committee Administrator no later than May 9, 2007. Written material for distribution at the meeting should reach the Coast Guard no later than May 9, 2007. If you would like a copy of your material distributed to each member of the committee in advance of the meeting, please submit 25 copies to the Committee Administrator no later than May 9, 2007.

**Information on Services for Individuals with Disabilities**

For information on facilities or services for individuals with disabilities, or to request special assistance at the meetings, contact the Committee Administrator at the location indicated under Addresses as soon as possible.

Dated: April 13, 2007.

**Richard G. Sullivan,**

*Captain, U.S. Coast Guard, Commander, Eighth Coast Guard District, Acting.*

[FR Doc. E7-7941 Filed 4-25-07; 8:45 am]

**BILLING CODE 4910-15-P**

**DEPARTMENT OF HOMELAND SECURITY**

**Coast Guard**

[USCG-2007-27656]

**High Frequency (HF) Radio Broadcasts of Marine Weather Forecasts and Warnings**

**AGENCY:** Coast Guard, DHS.

**ACTION:** Notice; request for public comments.

**SUMMARY:** The Coast Guard is soliciting public comment on the need to continue providing high frequency (HF) radio broadcasts of weather forecasts and warnings. Public comment is necessary in order to assess the demand for the HF radio broadcasts of weather forecasts in each of three forms: (1) Radiofacsimile; (2) voice; and, (3) Simplex Teletype Over Radio (SITOR), also known as Narrow Band Direct Printing (NBDP). The infrastructure necessary to provide these services has exceeded its life expectancy; the equipment is no longer manufactured, repairs are difficult to