

- novel (CH2) scaffold: identification of HIV-1 inhibitors. *Biochem Biophys Res Commun.* 2009 Sep 18;387(2):387–92. [PMID 19615335]
5. Wozniak-Knopp G, et al. Stabilisation of the Fc fragment of human IgG1 by engineered intradomain disulfide bonds. *PLoS One.* 2012;7(1):e30083 [PMID 22272277]

Inventors: Dimiter Dimitrov (NCI) and Rui Gong (formerly NCI).

Intellectual Property: HHS Reference No. E-245–2012/0—Research Tool. Patent protection is not being pursued for this technology.

Licensing Contact: Sally H. Hu, Ph.D., M.B.A.; 301–435–5606; [hus@mail.nih.gov](mailto:hus@mail.nih.gov)

Collaborative Research Opportunity: The National Cancer Institute (NCI) is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate or commercialize A Novel Human Antibody for Deploying CH2 Based Therapeutics. For collaboration opportunities, please contact John D. Hewes, Ph.D. at [hewesj@mail.nih.gov](mailto:hewesj@mail.nih.gov).

#### Methods for Producing Stem Cell-like Memory T cells for Use in T cell-based Immunotherapies

Description of Technology: T cells currently employed for T cell-based immunotherapies are often senescent, terminally differentiated cells with poor proliferate and survival capacity. Recently, however, NIH scientists identified and characterized a new human memory T cell population with stem cell-like properties. Since these T cells have limited quantities in vivo, the scientists have developed methods by which high numbers of these cells can be generated ex vivo for use in T cell-based immunotherapies. Specifically, this technology describes a method for generating the stem cell-like memory T cells by stimulating naive T cells in the presence of inhibitors of GSK-3beta. It also describes a method for obtaining the stem cell-like memory T cells by sorting T cell lymphocytes using flow cytometry. These stem cell-like memory T cells display enhanced proliferation and survival upon transfer, have the multipotent capacity to generate all memory and effector T cell subsets and show increased anti-tumor activity in a humanized mouse tumor model. Consequently, the coupling of T cell receptor or chimeric receptor gene transfer with this method will enable the generation of a large number of memory stem cells with the desired specificity to effectively treat patients with cancer and chronic infectious diseases.

Potential Commercial Applications:

- Ex vivo generation of stem cell-like memory T cells for T cell-based immunotherapy
- Treatment for patients with cancer and chronic infectious diseases

Competitive Advantages:

- Enhanced proliferation and survival upon transfer
- Multipotent capacity to generate all memory and effector T cell subsets
- Increased anti-tumor activity

Development Stage:

- Pre-clinical
- In vitro data available
- In vivo data available (animal)

Inventors: Luca Gattinoni (NCI), Enrico Lugli (NIAID), Mario Roederer (NIAID), Nicholas Restifo (NCI)

Publications:

1. Gattinoni L, et al. A human T cell memory subset with stem cell-like properties. *Nat Med.* 2011 Sep 18;17(10):1290–7. [PMID 21926977]
2. Gattinoni L, et al. Wnt signaling arrests effector T cell differentiation and generates CD8+ memory stem cells. *Nat Med.* 2009 Jul;15(7):808–13. [PMID 19525962]
3. Lugli E, et al. Identification, isolation and in vitro expansion of human and nonhuman primate T stem cell memory cells. *Nat Protoc.* 2013 Jan;8(1):33–42. [PMID 23222456]

Intellectual Property: HHS Reference No. E-174–2012/0—PCT Application No. PCT/US12/053947 filed 06 Sep 2012

Licensing Contact: Whitney Hastings; 301–451–7337; [hastingw@mail.nih.gov](mailto:hastingw@mail.nih.gov)

Collaborative Research Opportunity: The National Cancer Institute is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate or commercialize the use of T memory stem cells for T cell-based immunotherapies. For collaboration opportunities, please contact Luca Gattinoni at [gattinol@mail.nih.gov](mailto:gattinol@mail.nih.gov) or 301–451–6914, or Nicholas Restifo at [restifo@nih.gov](mailto:restifo@nih.gov) or 301–496–4904.

Dated: May 21, 2013.

**Richard U. Rodriguez,**

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

[FR Doc. 2013–12531 Filed 5–24–13; 8:45 am]

**BILLING CODE 4140–01–P**

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Institute of Diabetes and Digestive and Kidney Diseases; 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 Diabetes and Digestive and Kidney Diseases Special Emphasis Panel; Time-Sensitive Obesity Prevention.

*Date:* June 24, 2013.

*Time:* 11:00 a.m. to 12:30 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Michele L. Barnard, PhD, Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, Room 753, 6707 Democracy Boulevard, Bethesda, MD 20892–2542, (301) 594–8898, [barnardm@extra.niddk.nih.gov](mailto:barnardm@extra.niddk.nih.gov).

*Name of Committee:* National Institute of Diabetes and Digestive and Kidney Diseases Special Emphasis Panel; Close Loop Technologies.

*Date:* July 2, 2013.

*Time:* 11:00 a.m. to 3:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Elena Sanovich, PhD, Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, Room 750, 6707 Democracy Boulevard, Bethesda, MD 20892–2542, 301–594–8886, [sanoviche@mail.nih.gov](mailto:sanoviche@mail.nih.gov).

*Name of Committee:* National Institute of Diabetes and Digestive and Kidney Diseases Special Emphasis Panel; Advancing Clinical Research in Primary Glomerular Diseases (UM1).

*Date:* July 8, 2013.

*Time:* 2:00 p.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, Two Democracy Plaza, 6707 Democracy

Boulevard, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Paul A. Rushing, PhD, Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, Room 747, 6707 Democracy Boulevard, Bethesda, MD 20892-5452, (301) 594-8895, [rushingp@extra.nidk.nih.gov](mailto:rushingp@extra.nidk.nih.gov).

*Name of Committee:* National Institute of Diabetes and Digestive and Kidney Diseases Special Emphasis Panel; Causes and Consequences of Neutrophil Dysfunction in Early Onset Crohn's Disease.

*Date:* July 12, 2013.

*Time:* 1:00 p.m. to 2:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD 20892, (Telephone Conference Call).

*Contact Person:* Paul A. Rushing, PhD, Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, Room 747, 6707 Democracy Boulevard, Bethesda, MD 20892-5452, (301) 594-8895, [rushingp@extra.nidk.nih.gov](mailto:rushingp@extra.nidk.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.847, Diabetes, Endocrinology and Metabolic Research; 93.848, Digestive Diseases and Nutrition Research; 93.849, Kidney Diseases, Urology and Hematology Research, National Institutes of Health, HHS).

Dated: May 21, 2013.

**David Clary,**

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

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## 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. 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:* Center for Scientific Review Special Emphasis Panel; Program Project: Structural Methods to Study Dynamic Complexes.

*Date:* June 13-14, 2013.

*Time:* 11:00 a.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

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

*Contact Person:* Nuria E Assa-Munt, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4164, MSC 7806, Bethesda, MD 20892, (301) 451-1323, [assamunu@csr.nih.gov](mailto:assamunu@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Neurodegeneration.

*Date:* June 13, 2013.

*Time:* 1:30 p.m. to 2:30 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Renaissance Washington DC, Dupont Circle, 1143 New Hampshire Avenue NW., Washington, DC 20037.

*Contact Person:* Laurent Taupenot, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4811, MSC 7850, Bethesda, MD 20892, 301-435-1203, [taupenol@csr.nih.gov](mailto:taupenol@csr.nih.gov).

*Name of Committee:* Biobehavioral and Behavioral Processes Integrated Review Group; Motor Function, Speech and Rehabilitation Study Section.

*Date:* June 24, 2013.

*Time:* 8:00 a.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Ritz Carlton Hotel, 1150 22nd Street NW., Washington, DC 20037.

*Contact Person:* Biao Tian, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3166, MSC 7848, Bethesda, MD 20892, 301-402-4411, [tianbi@csr.nih.gov](mailto:tianbi@csr.nih.gov).

*Name of Committee:* Biobehavioral and Behavioral Processes Integrated Review Group; Biobehavioral Mechanisms of Emotion, Stress and Health Study Section.

*Date:* June 24, 2013.

*Time:* 8:00 a.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* The Westin St. Francis, 335 Powell Street, San Francisco, CA 94102.

*Contact Person:* Maribeth Champoux, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3170, MSC 7848, Bethesda, MD 20892, (301) 594-3163, [champoux@csr.nih.gov](mailto:champoux@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Fellowships: Oncological Sciences.

*Date:* June 24-25, 2013.

*Time:* 8:00 a.m. to 5:00 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:* Inese Z Beitins, MD, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6152, MSC 7892, Bethesda, MD 20892, 301-435-1034, [beitinsi@csr.nih.gov](mailto:beitinsi@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Small Business Grant Applications: Immunology.

*Date:* June 24, 2013.

*Time:* 8:00 a.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* The River Inn, 924 25th Street NW., Washington, DC 20037.

*Contact Person:* Stephen M. Nigida, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4212, MSC 7812, Bethesda, MD 20892, 301-435-1222, [nigidas@csr.nih.gov](mailto:nigidas@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Small Business: Education, Psychology, and Biology in Health Behavior.

*Date:* June 24-25, 2013.

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

*Agenda:* To review and evaluate grant applications.

*Place:* Renaissance Mayflower Hotel, 1127 Connecticut Avenue NW., Washington, DC 20036.

*Contact Person:* John H Newman, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3222, MSC 7808, Bethesda, MD 20892, (301)267-9270, [newmanjh@csr.nih.gov](mailto:newmanjh@csr.nih.gov).

*Name of Committee:* Brain Disorders and Clinical Neuroscience Integrated Review Group; Brain Injury and Neurovascular Pathologies Study Section.

*Date:* June 24-25, 2013.

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

*Agenda:* To review and evaluate grant applications.

*Place:* Renaissance Washington DC, Dupont Circle, 1143 New Hampshire Avenue NW., Washington, DC 20037.

*Contact Person:* Alexander Yakovlev, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 5206, MSC 7846, Bethesda, MD 20892, 301-435-1254, [yakovleva@csr.nih.gov](mailto:yakovleva@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Fellowships: Genes, Genomes and Genetics.

*Date:* June 24, 2013.

*Time:* 10:00 a.m. to 7:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892.

*Contact Person:* Marie-Jose Belanger, Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 5181, MSC, Bethesda, MD 20892, 301-442-9049, [belangerm@csr.nih.gov](mailto:belangerm@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Motor Function, Speech and Rehabilitation Overflow.

*Date:* June 24, 2013.

*Time:* 3:00 p.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Ritz Carlton Hotel, 1150 22nd Street NW., Washington, DC 20037.

*Contact Person:* Biao Tian, Ph.D., Scientific Review Officer, Center for Scientific Review,