

typically mice or rats that are selected for demonstrating hallmarks of a given disease. For cancer research, while many mouse models exist to simulate the response of the cancer to a particular drug, all of the current models have some limitations in their ability to fully predict the concomitant physiological or immunological response that might result when the drug progresses to clinical trials. This is problematic both in models in which the cancer spontaneously develops in the animal as well as models in which cancerous cells or tumors, *i.e.*, allografts (derived from cells of the same organism) or xenografts (derived from cells of different organism, usually humans), are transplanted into an otherwise cancer-free animal.

To address these issues, researchers at NCI developed a means of more closely simulating in mouse models both melanoma cancer itself and the resulting physiological and immunological response by creating a genetically engineered mice (GEM)-derived allograft (GDA). This allograft both resembles human-like melanoma and has features that will stimulate a normal immunological response in the mouse. Thus, when transplanted into a host, the resulting tumor-containing mouse may be used to test conventional cancer therapies (*e.g.*, chemotherapy and radiotherapy), targeted drugs (*e.g.*, kinase inhibitors), and immunotherapies with an expectation that the response in the mouse will more closely mimic the types of responses expected in humans if the therapy progresses to clinical trials. Further this melanoma-based GDA approach may represent a new standard for building or improving preclinical models of other types of cancer.

*Potential Commercial Applications:*

- This is a novel mouse allograft model that provides a preclinical model of human-like advanced-stage melanoma.

- This allograft model may be useful for preclinical testing of conventional therapies, targeted therapies, and immunotherapies.

*Value Proposition:*

- Hgf-tg;Cdk4R24C C57BL/6 mouse-derived melanoma allograft with humanized pathogenetics allows adoption of clinically relevant procedures and endpoints, facilitating clinical translation.

- Features a constitutively activated MET/MAPK pathway and disrupted CDKN2A pathway.

- Expresses typical diagnostic markers of human melanoma such as DCT and TRP1.

- Exhibits progression patterns relevant to human disease.

*Development Stage:* Basic (Target ID).  
*Inventor(s):* Chi-Ping Day, Glenn T. Merlino, Zoe Weaver Ohler, Rajaa El Meskini, Terry A. Van Dyke (all of NCI), and Thomas Tüting (University Hospital Bonn).

*Intellectual Property:* HHS Reference Number E-291-2015/0. This is a Research Tool. Following the policy of the National Institutes of Health, patent protection will not be sought.

*Publications:*

1. Day CP, *et al.* "Glowing head" mice: A genetic tool enabling reliable preclinical image-based evaluation of cancers in immunocompetent allografts. *PLoS One* 2014; 9(11):e109956. [PMID 25369133]
2. Day CP, *et al.* Preclinical mouse cancer models: A maze of opportunities and challenges. *Cell*. 2015;163(1):39-53. [PMID 26406370]

*Contact Information:* Inquiries about licensing, research collaborations, and co-development opportunities should be sent to John D. Hewes, Ph.D., email: [john.hewes@nih.gov](mailto:john.hewes@nih.gov).

Dated: November 22, 2016.

**John D. Hewes,**

*Technology Transfer and Patenting Specialist, Technology Transfer Center, National Cancer Institute.*

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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; PA-16-194: Mentored Quantitative Research Development Award.

*Date:* December 12, 2016.

*Time:* 4:00 p.m. to 5:00 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:* Mark P. Rubert, Ph.D., 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).

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; PAR Panel: Novel Strategies for Targeting HIV-CNS Reservoirs without Reactivation.

*Date:* December 13, 2016.

*Time:* 9:00 a.m. to 6:00 p.m.

*Agenda:* To review and evaluate grant applications.

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

*Contact Person:* Dimitrios Nikolaos Vataki, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3190, Bethesda, MD 20892, 301-827-7480.

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, 93.337, 93.393-93.396, 93.837-93.844, 93.846-93.878, 93.892, 93.893, National Institutes of Health, HHS)

Dated: November 22, 2016.

**Natasha M. Copeland,**

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

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## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Center for Advancing Translational Sciences; Notice of Meetings

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. App.), notice is hereby given of meetings of the National Center for Advancing Translational Sciences.

The meetings will be open to the public as indicated below, with attendance limited to space available. Individuals who plan to attend and need special assistance, such as sign language interpretation or other reasonable accommodations, should