

National Cancer Institute, NIH, 9609 Medical Center Drive, Room 7W242, Bethesda, MD 20892-9750, 240-276-6372, [zouzhiq@mail.nih.gov](mailto:zouzhiq@mail.nih.gov).

(Catalogue of Federal Domestic Assistance Program Nos. 93.392, Cancer Construction; 93.393, Cancer Cause and Prevention Research; 93.394, Cancer Detection and Diagnosis Research; 93.395, Cancer Treatment Research; 93.396, Cancer Biology Research; 93.397, Cancer Centers Support; 93.398, Cancer Research Manpower; 93.399, Cancer Control, National Institutes of Health, HHS)

Dated: February 1, 2019.

**Melanie J. Pantoja,**

*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

#### Center for Scientific Review; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended, 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:* Endocrinology, Metabolism, Nutrition and Reproductive Sciences Integrated Review Group; Integrative and Clinical Endocrinology and Reproduction Study Section.

*Date:* February 21, 2019.

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

*Agenda:* To review and evaluate grant applications.

*Place:* JW Marriott New Orleans, 614 Canal Street, New Orleans, LA 70130.

*Contact Person:* Dianne Hardy, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6175, MSC 7892, Bethesda, MD 20892, 301-435-1154, [dianne.hardy@nih.gov](mailto:dianne.hardy@nih.gov).

(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: February 2, 2019.

**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

#### Government-Owned Inventions; Availability for Licensing

**AGENCY:** National Institutes of Health, HHS.

**ACTION:** Notice.

**SUMMARY:** The inventions listed below are owned by an agency of the U.S. Government and are available for licensing in the U.S. to achieve expeditious commercialization of results of federally-funded research and development.

**FOR FURTHER INFORMATION CONTACT:** Licensing information may be obtained by emailing the indicated licensing contact: Michael Shmilovich; National Heart, Lung, and Blood, Office of Technology Transfer and Development Office of Technology Transfer, 31 Center Drive Room 4A29, MSC2479, Bethesda, MD 20892-2479; telephone: 301-402-5579. A signed Confidential Disclosure Agreement may be required to receive any unpublished information.

**SUPPLEMENTARY INFORMATION:** Technology description follows.

#### Sickle Cell Anemia Treatment Through RIOK3 Inhibition

Beta-globinopathy is a common inherited single-gene disorder of beta-globin synthesis that results in an abnormal structure of one globin chain of the hemoglobin molecule. Common hemoglobinopathies include sickle-cell disease and beta-thalassemia. The efficacy of bone marrow transplantation is limited due to high cost and the requirement for HLA-matched donors. Increasing fetal hemoglobin expression above a certain threshold is potentially curative in the beta-globinopathies. The inventors identified Rio-Kinase 3 (RIOK3) as a key negative regulator of fetal hemoglobin expression in primary human erythroid progenitor cells. Their work shows that lentiviral mediated shRNA knockdown of RIOK3 in primary human erythroid progenitor cells increased fetal hemoglobin expression above 55% of total b-like globin expression, thus, RIOK3 is a promising novel therapeutic target to increase fetal hemoglobin expression.

*Potential Commercial Applications:* Inhibition of RIOK3 through genetic manipulation or by using orally administered kinase inhibitors will be a novel and cost-effective treatment strategy in beta-globinopathies.

*Development Stage:* The potential clinical use of this novel invention will depend on collaborating with interested companies for efficiently inhibiting RIOK3 through (1) designing lentiviral vectors encoding shRNA to RIOK3, (2) gene editing using endonucleases such as CRISPR/Cas9 and (3) by developing orally administered RIOK3 specific kinase inhibitor drugs.

*Inventors:* Bjorg Gudmundsdottir, Laxminath Tumburu, John Tisdale (all of NHLBI).

*Intellectual Property:* HHS Reference No. E-200-2018; U.S. Provisional Patent Application 62/756,497 filed November 6, 2018.

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

Dated: December 26, 2018.

**Michael A. Shmilovich,**

*Senior Licensing and Patenting Manager, National Heart, Lung, and Blood Institute, Office of Technology Transfer and Development.*

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## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### National Institute on Drug Abuse; Notice of Closed Meetings

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended, 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 Drug Abuse Special Emphasis Panel; HEALing Communities Study: Developing and Testing an Integrated Approach To Address the Opioid Crisis (Data Coordinating Center) (UM1-Clinical Trials Not Allowed).

*Date:* February 19-20, 2019.

*Time:* 7:30 p.m. to 5:00 p.m.