

Disclosure Agreement will be required to receive copies of unpublished patent applications.

SUPPLEMENTARY INFORMATION:
Technology description follows:

Beta Globin Mimetic Peptides and Their Use

Description of Technology

Feedback vasodilation by endothelium-derived nitric oxide (NO) is under the regulation of globins. Inventors discovered that not only the alpha globin but also the beta globin subunits of hemoglobin are expressed in the human artery wall, with beta globin interacting directly with endothelial nitric oxide synthase (eNOS). This discovery of tetrameric hemoglobin binding to eNOS has led inventors to develop novel mimetic peptides that disrupt the binding of beta globin to eNOS, diminishing the ability of hemoglobin to restrict NO release and thereby enhancing NO-mediated feedback vasodilation. These agents can be used to increase NO signaling from endothelial cells and thus inhibit, prevent, or reverse vasoconstriction.

This technology is available for licensing for commercial development in accordance with 35 U.S.C. 209 and 37 CFR part 404, as well as for further development and evaluation under a research collaboration.

Potential Commercial Applications

- Novel peptides to treat vascular diseases characterized by vasoconstriction, excess alpha adrenergic signaling, or insufficient nitric oxide signaling. Applications could range from cerebral vasospasm to pulmonary hypertension to chronic kidney disease to transfusion medicine to erectile dysfunction to exercise physiology.

Competitive Advantages

- New pathway for regulation of vasoconstriction/vasodilation.
- Enhancement of NO release at the junction between the endothelial cell and smooth muscle cell may provide greater potency and fewer off-target effects than other forms of NO delivery.

Development Stage: Peptides have been tested in human and canine arteries ex vivo.

Inventors: Drs. Hans Ackerman, Steven Brooks, Phillip Cruz, all of NIAID.

Publications: "Hemoglobin Interacts with Endothelial Nitric Oxide Synthase to Regulate Vasodilation in Human Resistance Arteries", <https://doi.org/10.1101/2021.04.06.21255004>.

Intellectual Property: HHS Reference No. E-060-2022-0-US-01-U.S. Provisional Application No. 63/328,615, filed April 7, 2022.

Licensing Contact: To license this technology, please contact Peter Tung at 240-669-5483, or peter.tung@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 the invention. For collaboration opportunities, please contact Peter Tung at 240-669-5483; peter.tung@nih.gov.

Dated: June 9, 2022.

Surekha Vathyam,

Deputy Director, Technology Transfer and Intellectual Property Office, National Institute of Allergy and Infectious Diseases.

[FR Doc. 2022-12922 Filed 6-15-22; 8:45 am]

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of General Medical Sciences; 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: National Institute of General Medical Sciences Special Emphasis Panel; Review of NRSA Institutional Postdoctoral Training Grant (T32) Applications.

Date: July 15, 2022.

Time: 9:30 a.m. to 6:00 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institute of General Medical Sciences, Natcher Building, 45 Center Drive, Bethesda, MD 20892 (Virtual Meeting).

Contact Person: John J. Laffan, Scientific Review Officer, Office of Scientific Review, National Institute of General Medical Sciences, National Institutes of Health, Natcher Building, 45 Center Drive, Room

3AN18J, Bethesda, MD 20892, 301-594-2773, laffanjo@mail.nih.gov.

(Catalogue of Federal Domestic Assistance Program Nos. 93.375, Minority Biomedical Research Support; 93.821, Cell Biology and Biophysics Research; 93.859, Pharmacology, Physiology, and Biological Chemistry Research; 93.862, Genetics and Developmental Biology Research; 93.88, Minority Access to Research Careers; 93.96, Special Minority Initiatives; 93.859, Biomedical Research and Research Training, National Institutes of Health, HHS)

Dated: June 10, 2022.

Miguelina Perez,

Program Analyst, Office of Federal Advisory Committee Policy.

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of Arthritis and Musculoskeletal and Skin Diseases; 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: National Institute of Arthritis and Musculoskeletal and Skin Diseases Special Emphasis Panel: NIAMS RE-JOIN UCT2 Review Meeting.

Date: July 12, 2022.

Time: 10:00 a.m. to 5:00 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institute of Arthritis, Musculoskeletal and Skin Diseases, 6701 Democracy Boulevard, Bethesda, MD 20817 (Virtual Meeting).

Contact Person: Kan Ma, Ph.D., Scientific Review Officer, Scientific Review Branch, National Institute of Arthritis, Musculoskeletal and Skin Diseases, NIH, 6701 Democracy Boulevard, Suite 814, Bethesda, MD 20892, 301-451-4838, mak2@mail.nih.gov.

(Catalogue of Federal Domestic Assistance Program Nos. 93.846, Arthritis, Musculoskeletal and Skin Diseases Research, National Institutes of Health, HHS)