

- Clinical research
 - Basic research
- Competitive Advantages:*

- More sensitivity
- Higher efficiency
- Low cytotoxicity
- Multiple functionality
- Multiple targets
- Visualization
- Controlled activation

Development Stage:

- In vitro data available
- In vivo data available

Inventors: Bruce A. Shapiro, Kirill A. Afonin, Angelica N. Martins, Mathias D. Viard (all of NCI)

Intellectual Property: HHS Reference No. E-765-2013/0—US Provisional Application No. 61/878,758 filed 17 Sep 2013.

Related Technologies:

- HHS Reference No. E-039-2012
- HHS Reference No. E-156-2014

Licensing Contact: John Stansberry, Ph.D.; 301-435-5236; stansbej@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 scaling up, animal models, multiple targets, delivery. For collaboration opportunities, please contact John D. Hewes, Ph.D. at hewesj@mail.nih.gov.

Nucleic Acid Nanoparticles for Triggering RNA Interference

Description of Technology: RNA interference (RNAi) is a naturally occurring cellular post-transcriptional gene regulation process that utilizes small double-stranded RNAs to trigger and guide gene silencing. By introducing synthetic RNA duplexes called small-interfering RNAs (siRNAs), we can harness the RNAi machinery for therapeutic gene control and the treatment of various diseases.

The present invention discloses RNA, RNA-DNA, DNA-RNA, hybrid nanocubes consisting of a DNA or RNA core (composed of six strands) with attached RNA or DNA hybrid duplexes. The nanocubes can induce the reassociation of the RNA duplexes, which can then be processed by the human recombinant Dicer enzyme, thus activating RNAi. This technology opens a new route for the development of “smart” nucleic acid based nanoparticles for a wide range of biomedical applications. Immune responses can be controlled by altering the composition of the particles.

Potential Commercial Applications:

- Treatment for various diseases
- Clinical research

- Basic research
- Competitive Advantages:*
- Low cytotoxicity
 - Chemical stability
 - More specificity
 - Controlled activation
 - Multiple targets
 - Visualization

Development Stage: In vitro data available

Inventors: Bruce A. Shapiro, Kirill A. Afonin, Mathias D. Viard (all of NCI)

Publications:

1. Afonin KA, et al. Computational and experimental characterization of RNA cubic nanoscaffolds. *Methods*. 2014 May 15;67(2):256–65. [PMID 24189588]
2. Afonin KA, et al. In vitro assembly of cubic RNA-based scaffolds designed in silico. *Nat Nanotechnol*. 2010 Sep;5(9):676–82. [PMID 20802494]

Intellectual Property: HHS Reference No. E-156-2014/0—US Provisional Application 61/989,520 filed 06 May 2014

Related Technologies:

- HHS Reference No. E-765-2013
- HHS Reference No. E-039-2012

Licensing Contact: John Stansberry, Ph.D.; 301-435-5236; stansbej@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 scaling up, animal models, multiple targets, delivery. For collaboration opportunities, please contact John D. Hewes, Ph.D. at hewesj@mail.nih.gov.

Dated: July 10, 2014.

Richard U. Rodriguez,

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

[FR Doc. 2014-16265 Filed 7-10-14; 8:45 am]

BILLING CODE 4140-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of Environmental Health Sciences; Notice of Closed Meeting

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 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 Environmental Health Sciences Special Emphasis Panel, Pathway to Independence Awards.

Date: August 6, 2014.

Time: 1:00 p.m. to 5:00 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institute of Environmental Health Sciences, Keystone Building, Conference Room 1002, 530 Davis Drive, Research Triangle Park, NC 27709, (Telephone Conference Call).

Contact Person: Leroy Worth, Ph.D., Scientific Review Officer, Scientific Review Branch, Division of Extramural Research and Training, Nat. Institute of Environmental Health Sciences, P. O. Box 12233, MD EC-30/Room 3171, Research Triangle Park, NC 27709, (919) 541-0670, worth@niehs.nih.gov.

(Catalogue of Federal Domestic Assistance Program Nos. 93.115, Biometry and Risk Estimation—Health Risks from Environmental Exposures; 93.142, NIEHS Hazardous Waste Worker Health and Safety Training; 93.143, NIEHS Superfund Hazardous Substances—Basic Research and Education; 93.894, Resources and Manpower Development in the Environmental Health Sciences; 93.113, Biological Response to Environmental Health Hazards; 93.114, Applied Toxicological Research and Testing, National Institutes of Health, HHS).

Dated: July 8, 2014.

Carolyn Baum,

Program Analyst, Office of Federal Advisory Committee Policy.

[FR Doc. 2014-16260 Filed 7-10-14; 8:45 am]

BILLING CODE 4140-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of General Medical Sciences; 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 General Medical Sciences Special Emphasis Panel, Peer Review of P20 Grant Applications.

Date: August 7, 2014.

Time: 12:00 p.m. to 2:00 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, Natcher Building, 45 Center Drive, Room 3An.12, Bethesda, MD 20892 (Telephone Conference Call).

Contact Person: Lee Warren Slice, Ph.D., Scientific Review Officer, Office of Scientific Review, National Institute of General Medical Sciences, National Institutes of Health, 45 Center Drive, Room 3An.12, Bethesda, MD 20892, 301-594-2769, slicelw@mail.nih.gov.

Name of Committee: National Institute of General Medical Sciences Special Emphasis Panel, Program Project Review in Anesthesiology.

Date: August 7, 2014.

Time: 2:30 p.m. to 5:30 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, Natcher Building, 45 Center Drive, Room 3An.18F, Bethesda, MD 20892 (Telephone Conference Call).

Contact Person: Brian R. Pike, Ph.D., Scientific Review Officer, Office of Scientific Review, National Institute of General Medical Sciences, National Institutes of Health, 45 Center Drive, Room 3An.18, Bethesda, MD 20892, 301-594-3907, pikbr@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, National Institutes of Health, HHS).

Dated: July 8, 2014.

Melanie J. Gray,

Program Analyst, Office of Federal Advisory Committee Policy.

[FR Doc. 2014-16263 Filed 7-10-14; 8:45 am]

BILLING CODE 4140-01-P

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 (5 U.S.C. App.), 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 TWD-8 (SC) Grant Applications.

Date: July 14, 2014.

Time: 1:00 p.m. to 4:00 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, Natcher Building, 45 Center Drive, Room 3An.18, Bethesda, MD 20892, (Telephone Conference Call).

Contact Person: Rebecca H. Johnson, Ph.D., Scientific Review Officer, Office of Scientific Review, National Institute of General Medical Sciences, National Institutes of Health, 45 Center Drive, Room 3An.18C, Bethesda, MD 20892, 301-594-2771, JohnsoRe@nigms.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.

(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, National Institutes of Health, HHS).

Dated: July 8, 2014.

Melanie J. Gray,

Program Analyst, Office of Federal Advisory Committee Policy.

[FR Doc. 2014-16264 Filed 7-10-14; 8:45 am]

BILLING CODE 4140-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of General Medical Sciences; Amended Notice of Meeting

Notice is hereby given of a change in the meeting of the National Institute of

General Medical Sciences Special Emphasis Panel, July 10, 2014, 1:00 p.m. to July 10, 2014, 4:00 p.m., National Institutes of Health, Natcher Building, 45 Center Drive, Room 3An.18, Bethesda, MD 20892, which was published in the **Federal Register** on June 16, 2014, 79 FR 34329.

The meeting date has been changed to July 25, 2014 from 1:00 p.m. to 4:00 p.m. The meeting location remains the same. The meeting is closed to the public.

Dated: July 8, 2014.

Melanie J. Gray,

Program Analyst, Office of Federal Advisory Committee Policy.

[FR Doc. 2014-16261 Filed 7-10-14; 8:45 am]

BILLING CODE 4140-01-P

DEPARTMENT OF HOMELAND SECURITY

Customs and Border Protection

Notice of Cancellation of Customs Broker Licenses Due to Death of the License Holder

AGENCY: U.S. Customs and Border Protection, Department of Homeland Security.

ACTION: Customs broker license cancellation due to death of the broker.

SUMMARY: Notice is hereby given that the customs broker license of certain brokers have been canceled without prejudice due to the death of the license holders.

SUPPLEMENTARY INFORMATION: Notice is hereby given that, pursuant to section 641 of the Tariff Act of 1930, as amended (19 U.S.C. 1641), and section 111.51(a) of title 19 of the Code of Federal Regulations (19 CFR 111.51(a)), the following customs broker licenses and any and all associated permits have been canceled without prejudice due to the death of the broker.

Last/company name	First name	License No.	Port of issuance
Nistal	Salvador	04329	Miami.
Flower	Gary	06664	Norfolk.
Garcia	Luis	15330	San Juan.