

Transfer, 31 Center Drive Room 4A29, MSC 2479, 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 A signed Confidential Disclosure Agreement may be required to receive any unpublished information.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.

**Capsid-Free AAV Vectors for Gene Delivery and Their Use for Gene Therapy**

*Description of Technology:* The invention concerns novel capsid-free AAV vectors that can be used for gene delivery and gene therapy applications. The invention provides for a linear nucleic acid molecule comprising in this order: A first adeno-associated virus (AAV) inverted terminal repeat (ITR), a nucleotide sequence of interest, and a second AAV ITR, wherein said nucleic acid molecule is devoid of AAV capsid protein coding sequences. The said nucleic acid molecule can be applied to a host at repetition without eliciting an immune response. Methods of producing and purifying this nucleic acid molecule, as well as its use for gene transfer and gene therapy are also described.

*Potential Commercial Applications:* The commercial applications of the technology relate to the field of gene therapy. It may offer significant advantages compared to existing methods of gene delivery and gene therapy.

*Competitive Advantages:*

- The AAV vectors described in the invention devoid the AAV capsid proteins and thus are not exposed to the adverse effects caused by immunogenicity.
- In contrast to the use of plasmid DNA for gene delivery, the AAV DNA of the invention seems to confer greater stability in cell nuclei, allowing prolonged expression compared to plasmid DNA.
- The vector DNA of the invention is not limited in size to the packageable size genome.
- The production of the AAV DNA vector is economical, simple and provides high yields.

*Development Stage:* Early-stage; In vitro data available

*Inventors:* Drs. Luis Garcia, Cyriaque Beley, and Thomas Voit (INSERM Paris); Drs. Robert M. Kotin and Lina Li (NHLBI).

*Publication:* Li L, Dimitriadis EK, Yang Y, Li J, Yuan Z, Qiao C, Beley C, Smith RH, Garcia L, Kotin RM. Production and characterization of novel recombinant adeno-associated virus replicative-form genomes: A eukaryotic source of DNA for gene

transfer. PLoS One. 2013 Aug 1;8(8):e69879. doi: 10.1371/journal.pone.0069879.

*Intellectual Property:* NIH Reference No. E-241-2010/0—US Patent Application No. 14/004,379 (Publication No. 2014-0107186 A), and its foreign counterparts in Europe (11 157986.8; 12 708035.6), Canada (2,829,518), Australia (2012228376), Brazil (BR 1 1 2013 023185 8), China (201280022523.5), Israel (228328), India (8000/DELNP/2013), Japan (2013-557138), and South Korea (10-2013-7026982).

*Licensing Contact:* Uri Reichman, Ph.D., M.B.A.; Phone: 301-435-4616; Email: [uri.reichman@nih.gov](mailto:uri.reichman@nih.gov).

Dated: October 13, 2016.

**Uri Reichman,**

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

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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 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 contract proposals and the discussions could disclose confidential trade secrets or commercial property such as patentable material, and personal information concerning individuals associated with the contract proposals, the disclosure of which would constitute a clearly unwarranted invasion of personal privacy.

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; PAR16-297: Native American Research Centers for Health (NARCH).

*Date:* November 14-16, 2016.

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

*Agenda:* To review and evaluate grant applications.

*Place:* Crowne Plaza Tyson's Corner, 1960 Chain Bridge Road, Mclean, VA 22102.

*Contact Person:* Delia Olufokunbi Sam, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3158, MSC 7770, Bethesda, MD 20892, 301-435-0684, [olufokunbisamd@csr.nih.gov](mailto:olufokunbisamd@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Member Conflict: Genetic Diseases.

*Date:* November 15, 2016.

*Time:* 1:00 p.m. to 2:00 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:* Dominique Lorang-Leins, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 5108, MSC 7766, Bethesda, MD 20892, 301-326-9721, [Lorangd@mail.nih.gov](mailto:Lorangd@mail.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Small Business: Non-HIV Diagnostics, Food Safety, Sterilization/Disinfection, and Bioremediation.

*Date:* November 17-18, 2016.

*Time:* 8:00 a.m. to 5:30 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* Bethesda North Marriott Hotel & Conference Center, 5701 Marinelli Road, Bethesda, MD 20852.

*Contact Person:* Gagan Pandya, Ph.D., Scientific Review Officer, National Institutes of Health, Center for Scientific Review, 6701 Rockledge Drive, RM 3200, MSC 7808, Bethesda, MD 20892, 301-435-1167, [pandyaga@mail.nih.gov](mailto:pandyaga@mail.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Small Business: Medical Imaging.

*Date:* November 17-18, 2016.

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

*Agenda:* To review and evaluate grant applications.

*Place:* Hilton Alexandria Mark Center, 5000 Seminary Road, Alexandria, VA 22311.

*Contact Person:* Leonid V. Tsap, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 5128, MSC 7854, Bethesda, MD 20892, (301) 435-2507, [tsapl@csr.nih.gov](mailto:tsapl@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Member Conflict: Biological Chemistry and Macromolecular Biophysics.

*Date:* November 17-18, 2016.

*Time:* 8:00 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:* Sergei Ruvins, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4158, MSC 7806, Bethesda, MD 20892, 301-435-1180, [ruvinsr@csr.nih.gov](mailto:ruvinsr@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; PAR Panel: Basic Research in Cancer Health Disparities/Diversity.

*Date:* November 17-18, 2016.

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

*Agenda:* To review and evaluate grant applications.

*Place:* Hyatt Regency Bethesda, One Bethesda Metro Center, 7400 Wisconsin Avenue, Bethesda, MD 20814.

*Contact Person:* Arnold Revzin, Ph.D., Scientific Review Officer, Center for

Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4146, MSC 7824, Bethesda, MD 20892, (301) 435-1153, [revzina@csr.nih.gov](mailto:revzina@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; PAR-15-024: Molecular Profiles and Biomarkers of Food and Nutrient Intake.

*Date:* November 17, 2016.

*Time:* 8:00 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:* Gregory S. Shelness, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6156, Bethesda, MD 20892-7892, (301) 435-0492, [shelnessgs@csr.nih.gov](mailto:shelnessgs@csr.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Small Business: Clinical Neurophysiology, Devices, Neuroprosthetics, and Biosensors.

*Date:* November 17-18, 2016.

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

*Agenda:* To review and evaluate grant applications.

*Place:* Westgate Hotel, San Diego, 1055 Second Ave., San Diego, CA 92101.

*Contact Person:* Cristina Backman, Ph.D., Scientific Review Officer, ETTN IRG, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 5211, MSC 7846, Bethesda, MD 20892, [cbackman@mail.nih.gov](mailto:cbackman@mail.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Small Business: Cancer Drug Development and Therapeutics.

*Date:* November 17-18, 2016.

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

*Agenda:* To review and evaluate grant applications.

*Place:* Marines' Memorial Club and Hotel, 609 Sutter Street, San Francisco, CA 94102.

*Contact Person:* Lilia Topol, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6192, MSC 7804, Bethesda, MD 20892, 301-451-0131, [ltopol@mail.nih.gov](mailto:ltopol@mail.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Small Business: Biomaterials, Delivery and Nanotechnology.

*Date:* November 17-18, 2016.

*Time:* 9:00 a.m. to 5:00 p.m.

*Agenda:* To review and evaluate grant applications.

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

*Contact Person:* David Filpula, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health 6701 Rockledge Drive, Room 6181, MSC 7892, Bethesda, MD 20892, 301-435-2902, [filpuladr@mail.nih.gov](mailto:filpuladr@mail.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Member Conflict: Innate and Adaptive Immunity to Pathogens.

*Date:* November 17, 2016.

*Time:* 1:00 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.

*Contact Person:* Deborah Hodge, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 4207 MSC 7812, Bethesda, MD 20892, (301) 435-1238, [hodged@mail.nih.gov](mailto:hodged@mail.nih.gov).

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Member Conflict: Physiological Mechanism of Diabetes/Obesity and Molecular Integrative Reproduction.

*Date:* November 17, 2016.

*Time:* 1:00 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 (Virtual Meeting).

*Contact Person:* Hui Chen, M.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Bethesda, MD 20892, 301-435-1044, [chenhui@csr.nih.gov](mailto:chenhui@csr.nih.gov)

*Name of Committee:* Center for Scientific Review Special Emphasis Panel; Member Conflict: Radiation Biology and Therapeutics.

*Date:* November 17, 2016.

*Time:* 1:00 p.m. to 3:00 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:* Denise R. Shaw, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 6158, MSC 7804, Bethesda, MD 20892, 301-435-0198, [shawdeni@csr.nih.gov](mailto:shawdeni@csr.nih.gov).

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

*Date:* November 17-18, 2016.

*Time:* 1:00 p.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:* Claire E. Gutkin, MPH, Ph.D., Scientific Review Officer, Center for Scientific Review, National Institutes of Health, 6701 Rockledge Drive, Room 3106, MSC 7808, Bethesda, MD 20892, 301-594-3139, [gutkincl@csr.nih.gov](mailto:gutkincl@csr.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: October 14, 2016.

**Anna Snouffer,**

*Deputy Director, Office of Federal Advisory Committee Policy.*

[FR Doc. 2016-25337 Filed 10-19-16; 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; Urgent Review of Exposure Evaluation Applications.

*Date:* October 27, 2016.

*Time:* 11:30 a.m. to 3:30 p.m.

*Agenda:* To review and evaluate grant applications.

*Place:* NIEHS/National Institutes of Health, Keystone, 530 Davis Drive, Room 3118, Research Triangle Park, NC 27709, (Telephone Conference Call).

*Contact Person:* Janice B Allen, Ph.D., Scientific Review Officer Scientific Review Branch, Division of Extramural Research and Training, Nat. Institute of Environmental Health Science, P.O. Box 12233, MD EC-30/ Room 3170 B, Research Triangle Park, NC 27709, 919/541-7556.

(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: October 13, 2016.

**Carolyn Baum,**

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

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