

vaccines inadvertently harming a recipient due to ADE-mediated effects. Any safe, effective dengue vaccine must produce well-balanced and tetravalent (for all four dengue serotypes) protective immunity. Despite decades of investigative effort there remains no effective, commercially available dengue vaccine and the greatest hurdle has been the difficulty of rapidly inducing this balanced immunity to all four dengue serotypes.

With this invention, CDC researchers have developed a cross-reactivity reduced dengue serotype 1 (DENV-1) DNA vaccine engineered to directly address ADE-related vaccine safety concerns. *In vivo* murine testing of wild-type and cross-reactivity-reduced vaccines demonstrated that this theoretical vaccine safety concern is real and that the cross-reactivity reduced DNA vaccine dramatically reduces dengue vaccination safety risk while increasing protective antibody responses. Properly developed and implemented, this novel vaccination strategy should help overcome this previously-unaddressed hindrance to dengue vaccine development.

Potential Commercial Applications:

- Creation of a safe, efficacious and well-balanced dengue virus vaccine
- Improving currently developed/developing dengue vaccines to mitigate potential antibody-dependent enhancement safety issues
- Research tools for vaccine development programs for other flaviviruses, HIV

Competitive Advantages:

- Murine *in vivo* studies indicating proof-of-principle, safety and efficacy
- Addresses a long-standing “serotype immunity balancing” issue for dengue vaccine development
- Presently there are no safe, effective commercially available dengue vaccines

Development Stage:

- *In vitro* data available
- *In vivo* data available (animal)

Inventors: Gwong-Jen Chang, Wayne Crill, Holly Hughes, Brent Davis (all of CDC)

Publication:

Crill WD, *et al.* Sculpting humoral immunity through dengue vaccination to enhance protective immunity. *Front Immunol.* 2012 Nov 8;3:334. [PMID 23162552]

Intellectual Property: HHS Reference No. E-289-2013/0-

- US Application No. 61/549,348 filed 20 Oct 2011
- PCT Application No. PCT/US2013/060872 filed 18 Oct 2012

Licensing Contact: Whitney Blair, J.D., M.P.H.; 301-435-4937; whitney.blair@nih.gov.

Dated: March 19, 2014.

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

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of Diabetes and Digestive and Kidney Diseases; 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 Diabetes and Digestive and Kidney Diseases Special Emphasis Panel, Addressing Health Disparities in NIDDK Diseases.

Date: April 4, 2014.

Time: 3:00 p.m. to 4:00 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD 20892, (Telephone Conference Call).

Contact Person: Carol J. Goter-Robinson, Ph.D., Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, Room 748, 6707 Democracy Boulevard, Bethesda, MD 20892-5452, (301) 594-7791, goterrobinsonc@extra.nidk.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: National Institute of Diabetes and Digestive and Kidney Diseases Special Emphasis Panel, U01 Coordinating Center.

Date: April 22, 2014.

Time: 1:00 p.m. to 2:45 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, Two Democracy Plaza, 6707 Democracy

Boulevard, Bethesda, MD 20892, (Telephone Conference Call).

Contact Person: Maria E. Davila-Bloom, Ph.D., Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, Room 758, 6707 Democracy Boulevard, Bethesda, MD 20892-5452, (301) 594-7637, davila-bloomm@extra.nidk.nih.gov.

Name of Committee: National Institute of Diabetes and Digestive and Kidney Diseases Special Emphasis Panel, Translational Research.

Date: May 7, 2014.

Time: 11:00 a.m. to 1:00 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, Two Democracy Plaza, 6707 Democracy Boulevard, Bethesda, MD 20892, (Telephone Conference Call).

Contact Person: Michele L. Barnard, Ph.D., Scientific Review Officer, Review Branch, DEA, NIDDK, National Institutes of Health, Room 753, 6707 Democracy Boulevard, Bethesda, MD 20892-2542, (301) 594-8898, barnardm@extra.nidk.nih.gov.

(Catalogue of Federal Domestic Assistance Program Nos. 93.847, Diabetes, Endocrinology and Metabolic Research; 93.848, Digestive Diseases and Nutrition Research; 93.849, Kidney Diseases, Urology and Hematology Research, National Institutes of Health, HHS).

Dated: March 18, 2014.

David Clary,

Program Analyst, Office of Federal Advisory Committee Policy.

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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; Member Conflict; Neuroscience.

Date: April 8, 2014.

Time: 10:00 a.m. to 11:30 a.m.