

Vaccine Against *Escherichia Coli* O157 Infection, Composed of Detoxified LPS Conjugated to Proteins

Description of Technology: This invention is a conjugate vaccine to prevent infection by *E. coli* O157:H7, particularly in young children under 5 years of age. *E. coli* O157:H7 is an emerging human pathogen which causes a spectrum of illnesses with high morbidity and mortality, ranging from diarrhea to hemorrhagic colitis and hemolytic-uremic syndrome (HUS). Infection with *E. coli* O157:H7 occurs as a result of consumption of water, vegetables, fruits or meat contaminated by feces from infected animals, such as cattle. The most recent large outbreak in the U.S. was from contaminated bag spinach. The conjugate is composed of the O-specific polysaccharide isolated from *E. coli* O157, or other Shiga-toxin producing bacteria, conjugated to carrier proteins, such as non-toxic *P. aeruginosa* exotoxin A or Shiga toxin 1. A Phase I clinical trial, involving adult humans, showed the vaccine is safe and highly immunogenic. Adults, after one injection containing 25 µg of antigen, responded with high titers of bactericidal antibodies. Similarly in a phase II study, fifty 2-to-5- years old children in U.S. were injected with the conjugate vaccines. There were only mild local adverse reactions. More than 90% of the children responded with greater than 10 fold rise of *E. coli* O157 antibodies of bactericidal ability. Thus the conjugates of the invention are promising vaccines, especially for children and the elderly, who are most likely to suffer serious consequences from infection.

Application: Prevention of *E. coli* O157 infection.

Development Status: Clinical studies have been performed and are described in Konadu *et al.*, *J Infect Dis.* 1998 Feb; 177(2):383–387 and Ahmed *et al.*, *J Infect Dis.* 2006 Feb; 193(2):515–526.

Inventors: Shousun C. Szu, Edward Konadu, and John B. Robbins (NICHD).

Patent Status: U.S. Patent 6,858,211 issued 22 Feb 2005 (HHS Reference No. E-158-1998/0-US-06); U.S. Patent Application No. 10/987,428 filed 12 Nov 2004 (HHS Reference No. E-158-1998/0-US-07); U.S. Patent Application No. 11/015,436 filed 16 Dec 2004 (HHS Reference No. E-158-1998/0-US-08).

Licensing Status: Available for non-exclusive or exclusive licensing.

Licensing Contact: Peter A. Soukas, J.D.; 301/435-4646; soukasp@mail.nih.gov.

Collaborative Research Opportunity: The National Institute of Child Health and Human Development, Laboratory of

Developmental and Molecular Immunity, is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate, or commercialize Vaccine for *E. coli* O157 for Children and Adults. Please contact John D. Hewes, Ph.D., at 301-435-3121 or hewesj@mail.nih.gov for more information.

Dated: May 11, 2007.

Steven M. Ferguson,

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

[FR Doc. E7-9656 Filed 5-18-07; 8:45 am]

BILLING CODE 4140-01-P

DEPARTMENT OF HEALTH AND HUMAN

National Institutes of Health

National Cancer Institute; Amended Notice of Meeting

Notice is hereby given of a change in the meeting of the National Cancer Advisory Board, June 14, 2007, 2 p.m. to June 15, 2007, 12 p.m., National Institutes of Health, Building 31, 31 Center Drive, Bethesda, MD 20892, which was published in the **Federal Register** on May 2, 2007, 72 FR 24319.

The notice is being amended to change the open session start and end times on June 14, 2007 to 1:15 p.m.—4:20 p.m. and the end time on June 15, 2007 to 11:45 a.m. The meeting is partially Closed to the public.

Dated: May 14, 2007.

Jennifer Spaeth,

Director, Office of Federal Advisory Committee Policy.

[FR Doc. 07-2495 Filed 5-18-07; 8:45 am]

BILLING CODE 4140-01-M

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Heart, Lung, and Blood Institute; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. Appendix 2), notice is hereby given of the following meeting.

The meeting will be closed to the public in accordance with the provision 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: Heart, Lung, and Blood Initial Review Group; Clinical Trials Review Committee.

Date: June 25, 2007.

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

Agenda: To review and evaluate grant applications.

Place: Intercontinental Harbor Court, 550 Light Street, Baltimore, MD 21202.

Contact Person: Patricia A Haggerty, PhD, Section Chief, Clinical Studies and Training Scientific Review Group, Review Branch, Division of Extramural Research Activities, National Heart, Lung, and Blood Institute, NIH, 6701 Rockledge Drive, Room 7194, MSC 7924, Bethesda, MD 20892, 301/435-0288, haggertp@nhlbi.nih.gov.

(Catalogue of Federal Domestic Assistance Program Nos. 93.233, National Center for Sleep Disorders Research; 93.837, Heart and Vascular Diseases Research; 93.838, Lung Diseases Research; 93.839, Blood Diseases and Resources Research, National Institutes of Health, HHS)

Dated: May 14, 2007.

Jennifer Spaeth,

Director, Office of Federal Advisory Committee Policy.

[FR Doc. 07-2488 Filed 5-18-07; 8:45 am]

BILLING CODE 4140-01-M

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Heart, Lung and Blood Institute; Notice of Closed Meeting

Pursuant to section 10(d) of the Federal Advisory Committee Act, as amended (5 U.S.C. Appendix 2), notice is hereby give of the following meeting.

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Name of Committee: National Heart, Lung, and Blood Institute Special Emphasis Panel; Mentored Scientist Award (K99).

Date: June 28–29, 2007.

Time: June 28, 2007, 12 p.m. to 10 p.m.

Agenda: To review and evaluate grant applications.

Place: Washington Plaza, 10 Thomas Circle NW., Washington, DC 20005.