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mFPR2 Transgenic and Knockout Mouse Models for Alzheimer's and Other Inflammatory Diseases

Description of Invention: Human Formyl Peptide-Like Receptor 1 (hFPLR1) has been implicated in host defense for disease processes including Alzheimer's disease, infection, and other inflammatory diseases. hFPLR1 and its mouse homologue Formyl Peptide Receptor 2 (mFPR2) are G-protein coupled receptors that are expressed at high levels on phagocytic leukocytes, mediating leukocyte chemotaxis and activation in response to a number of pathogen- and host-derived peptides. Activation of hFPLR1/mFPR2 by lipoxin A4 may play a role in preventing and resolving inflammation. Also, hFPLR1/mFPR2 has been shown to mediate the chemotactic activity of amyloid beta 1-42, a key pathogenic peptide in Alzheimer's disease.

Available for licensing are mice expressing the mFPR2 transgene on either the FVB or C58BL background, as well as mFPR2 knockout mice on the C57BL background. These mice are anticipated to be highly useful in the study of a wide variety of inflammatory, infectious, immunologic and neurodegenerative diseases.

Applications

- Drug development model for Alzheimer's disease and other inflammatory diseases.
- Tool to probe the role of hFPLR1/mFPR2 in host responses in a variety of disease processes, including inflammatory, infectious, immunologic, and neurodegenerative disease.

Inventors: Ji Ming Wang *et al.* (NCI)

Publications

1. K Chen, Y Le, Y Liu, W Gong, G Ying, J Huang, T Yoshimura, L Tessarollo, JM Wang. Cutting Edge: A Critical Role for the G Protein-Coupled Receptor mFPR2 in Airway Inflammation and Immune Responses. *J Immunol.* 2010 Mar 3. Epub ahead of print. [PubMed: 20200280.]

2. K Chen, P Iribarren, J Hu, J Chen, W Gong, EH Cho, S Lockett, NM Dunlop, and JM Wang. Activation of Toll-like receptor 2 on microglia promotes cell uptake of Alzheimer disease-associated amyloid beta peptide. *J Biol Chem.* 2006 Feb 10;281(6):3651–3659. [PubMed: 16339765.]

3. H Yazawa, ZX Yu, Takeda, Y Le, W Gong, VJ Ferrans, JJ Oppenheim, CC Li, and JM Wang. Beta amyloid peptide (A β 42) is internalized via the G-

protein-coupled receptor FPRL1 and forms fibrillar aggregates in macrophages. *FASEB J.* 2001 Nov;15(13):2454–2462. [PubMed: 11689470.]

4. YH Cui, Y Le, W Gong, P Proost, J Van Damme, WJ Murphy, and JM Wang. Bacterial lipopolysaccharide selectively up-regulates the function of the chemotactic peptide receptor formyl peptide receptor 2 in murine microglial cells. *J Immunol.* 2002 Jan 1;168(1):434–442. [PubMed: 11751990.]

Patent Status: HHS Reference No. E-303-2006/0—Research Tool. Patent protection is not being pursued for this technology.

Licensing Status: This technology is available as a research tool under a Biological Materials License.

Licensing Contact: Tara Kirby, PhD; 301-435-4426; tarak@mail.nih.gov.

Collaborative Research Opportunity: The National Cancer Institute—Frederick, Laboratory of Molecular Immunoregulation, is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate, or commercialize mFPR2 Transgenic and Knockout Mouse Models for Alzheimer's and Other Inflammatory Diseases. Please contact John D. Hewes, PhD at 301-435-3121 or hewesj@mail.nih.gov for more information.

Dated: March 23, 2010.

Richard U. Rodriguez,

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

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BILLING CODE 4140-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of Allergy and Infectious Diseases; 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 Allergy and Infectious Diseases Special Emphasis Panel; Ancillary Studies in Immunomodulation Clinical Trials.

Date: April 22, 2010.

Time: 11:30 a.m. to 4:30 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, 6700B Rockledge Drive, Bethesda, MD 20817. (Telephone Conference Call)

Contact Person: Paul A. Amstad, PhD, Scientific Review Officer, Scientific Review Program, Division of Extramural Activities, NIAID/NIH/DHHS, 6700B Rockledge Drive, MSC 7616, Bethesda, MD 20892-7616, 301-402-7098, pamstad@niaid.nih.gov.

(Catalogue of Federal Domestic Assistance Program Nos. 93.855, Allergy, Immunology, and Transplantation Research; 93.856, Microbiology and Infectious Diseases Research, National Institutes of Health, HHS)

Dated: March 24, 2010.

Jennifer Spaeth,

Director, Office of Federal Advisory Committee Policy.

[FR Doc. 2010-7089 Filed 3-29-10; 8:45 am]

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of Allergy and Infectious Diseases; Notice of Meeting

Pursuant to section 10(a) of the Federal Advisory Committee Act, as amended (5 U.S.C. App.), notice is hereby given of a meeting of the AIDS Research Advisory Committee, NIAID.

The meeting will be open to the public, with attendance limited to space available. Individuals who plan to attend and need special assistance, such as sign language interpretation or other reasonable accommodations, should notify the Contact Person listed below in advance of the meeting.

Name of Committee: AIDS Research Advisory Committee, NIAID, AIDS Vaccine Research Subcommittee.

Date: May 25–26, 2010.

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

Agenda: To discuss follow-up studies to the recent RV144 vaccine efficacy trial, and to discuss the use of the nonhuman primate model in AIDS vaccine research.

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

Contact Person: James A. Bradac, PhD, Program Official, Preclinical Research and Development Branch, Division of AIDS, Room 5116, National Institutes of Health/ NIAID, 6700B Rockledge Drive, Bethesda, MD 20892-7628. 301-435-3754. jbradac@mail.nih.gov.