

assemble into nanoparticles with influenza antigenic proteins displayed on the nanoparticle surface (*Nature* 499, 102–106 (2013)). Further engineering these recombinant fusion proteins, the scientists have developed nanoparticles that simultaneously display multiple strains of influenza viral protein antigens (the receptor-binding domain of hemagglutinin) on their surface. Due to the heterogeneity of the antigenic protein derived from multiple strains, these nanoparticles are referred to as mosaic nanoparticles.

Upon immunization of mice with mosaic nanoparticles displaying antigens from eight different H1N1 strains, the elicited antibodies neutralized a panel of H1N1 strains from 1918 through 2009 including the strains that had not been displayed on the mosaic nanoparticle. However, mice immunized with a mixture of the eight types of nanoparticles, each displaying a single antigenic protein, did not elicit a similar breadth of neutralizing antibody response.

NIAID is continuing development of these vaccine candidates through animal studies and moving toward clinical evaluation.

This technology is available for licensing for commercial development in accordance with 35 U.S.C. 209 and 37 CFR part 404, as well as for further development and evaluation under a research collaboration.

*Potential Commercial Applications:*

- Vaccine platform for seasonal influenza with broader protection coverage

*Competitive Advantages:*

- Nucleic acid or recombinant protein-based vaccine
- Increased ease of production compared to current seasonal influenza vaccines

*Development Stage:*

- In vivo (animal studies)

*Inventors:* Barney S. Graham, Hadi Yassine, Masaru Kanekiyo (all from NIAID).

*Publications:* Kanekiyo, M, et al. *Manuscript under revision.*

*Intellectual Property:* HHS Reference Number E-060-2015 includes U.S. Patent Application No. 15/540,898 filed June 29, 2017 (Pending); Canada Patent Application No. 2,974,346 filed December 31, 2015 (Pending); China Patent Application No. 201580076324.6 filed December 31, 2015 (Pending); Europe Patent Application No. 15825772.5 filed July 7, 2017 (Pending); India Patent Application No 201717026077 filed July 21, 2017 (Pending); Australia Patent Application No. 2015373928 filed July 21, 2017; Brazil Patent Application No.

BR112017014219-8 filed June 29, 2017; Israel Patent Application No. 253187 filed December 31, 2015; Japan Patent Application No. 2017-534796 filed June 28, 2017; South Korean Patent Application No. 10-2017-7021112 filed July 27, 2017; Singapore Patent Application No. 11201705264W filed June 23, 2017.

*Related Intellectual Property:* HHS Reference Number E-293-2011

*Licensing Contact:* Dr. Amy Petrik, 240-627-3721; amy.petrik@nih.gov. Collaborative Research Opportunity: The National Institute of Allergy and Infectious Diseases is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate or commercialize influenza monoclonal antibody technologies. For collaboration opportunities, please contact Dr. Amy Petrik, 240-627-3721; amy.petrik@nih.gov.

Dated: April 5, 2018.

**Suzanne M. Frisbie,**

*Deputy Director, Technology Transfer and Intellectual Property Office, National Institute of Allergy and Infectious Diseases.*

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**BILLING CODE 4140-01-P**

## DEPARTMENT OF HEALTH AND HUMAN SERVICES

### National Institutes of Health

#### Submission for OMB Review; 30-Day Comment Request; Generic Clearance for the Research Domain Criteria (RDoC) Initiative (National Institute of Mental Health)

**AGENCY:** National Institutes of Health, HHS.

**ACTION:** Notice.

**SUMMARY:** In compliance with the Paperwork Reduction Act of 1995, the National Institutes of Health (NIH) has submitted to the Office of Management and Budget (OMB) a request for review and approval of the information collection listed below.

**DATES:** Comments regarding this information collection are best assured of having their full effect if received within 30 days of the date of this publication.

**ADDRESSES:** Written comments and/or suggestions regarding the item(s) contained in this notice, especially regarding the estimated public burden and associated response time, should be directed to the: Office of Management and Budget, Office of Regulatory Affairs, [OIRA\\_submission@omb.eop.gov](mailto:OIRA_submission@omb.eop.gov) or by

fax to 202-395-6974, Attention: Desk Officer for NIH.

**FOR FURTHER INFORMATION CONTACT:** To request more information on the proposed project or to obtain a copy of the data collection plans and instruments, contact: Melba Rojas, NIMH Project Clearance Liaison, Science Policy and Evaluation Branch, Office of Science Policy, Planning and Communications, NIMH, Neuroscience Center, 6001 Executive Boulevard, MSC 9667, Bethesda, Maryland 20892, call 301-443-4335, or email your request, including your mailing address, to [nimhprapubliccomments@mail.nih.gov](mailto:nimhprapubliccomments@mail.nih.gov).

**SUPPLEMENTARY INFORMATION:** This proposed information collection was previously published in the **Federal Register** on January 29, 2018, pages 4062-4063 (83 FR 4062) and allowed 60 days for public comment. No public comments were received. The purpose of this notice is to allow an additional 30 days for public comment. The National Institute of Mental Health (NIMH), National Institutes of Health, may not conduct or sponsor, and the respondent is not required to respond to, an information collection that has been extended, revised, or implemented on or after October 1, 1995, unless it displays a currently valid OMB control number.

In compliance with Section 3507(a)(1)(D) of the Paperwork Reduction Act of 1995, the National Institutes of Health (NIH) has submitted to the Office of Management and Budget (OMB) a request for review and approval of the information collection listed below.

*Proposed Collection:* Generic Clearance for the Research Domain Criteria (RDoC) Initiative, 0925-NEW, National Institute of Mental Health (NIMH), National Institutes of Health (NIH).

*Need and Use of Information Collection:* This request serves as notice that the National Institute of Mental Health (NIMH) is seeking OMB approval of a generic plan to conduct information collections to interface with the scientific community and promote the RDoC Initiative. As the lead Federal agency for research on mental illnesses, NIMH's mission is to transform the understanding and treatment of mental illnesses through basic and clinical research, paving the way for prevention, recovery, and cure. To this end, NIMH launched the RDoC Initiative in 2009 to implement Strategy 1.4 of the 2008 NIMH Strategic Plan: "Develop new ways of classifying disorders based on dimensions of observable behaviors and brain functions." The aim of RDoC is to

guide research that begins with disruptions in neurobiological and behavioral mechanisms, and then works across systems to clarify connections among such disruptions and clinical symptoms. The information collected as

part of this generic clearance will allow NIMH to determine success of the RDoC Initiative, develop future directions and endeavors, and to help guide programmatic priorities for RDoC and the agency.

OMB approval is requested for 3 years. There are no costs to respondents' other than their time. The total estimated annualized burden hours are 490.

ESTIMATED ANNUALIZED BURDEN HOURS

Instrument type	Number of respondents	Number of responses per respondent	Average burden per response (in hours)	Total annual burden hours
Workshops .....	50	1	8	400
Interviews .....	10	1	30/60	5
Surveys .....	100	1	30/60	50
Focus Groups .....	10	1	1	10
Evaluation Forms .....	100	1	15/60	25
Total .....	270	270	.....	490

Dated: April 4, 2018.  
**Melba O. Rojas,**  
*Project Clearance Liaison, NIMH, NIH.*  
 [FR Doc. 2018-07859 Filed 4-13-18; 8:45 am]  
**BILLING CODE 4140-01-P**

**DEPARTMENT OF THE INTERIOR**

**U.S. Geological Survey**

[GX18DJ00COM0050]

**Federal Interagency Collaborative on Environmental Modeling and Monitoring**

**AGENCY:** U.S. Geological Survey (USGS), Interior.

**ACTION:** Notice of public meeting.

**SUMMARY:** The annual public meeting of the Federal Interagency Collaborative for Environmental Modeling and Monitoring (ICEMM) will convene to discuss developments in environmental modeling applications, tools and frameworks, as well as new operational initiatives among the participating agencies. The meeting this year will focus on the theme of "Monitoring and Model Data Fusion."

**DATES:** The meeting will be held on April 24-25, 2018, from 9:00 a.m. to 5:00 p.m.

**ADDRESSES:** The meeting will be held at U.S. Nuclear Regulatory Commission, Office of Nuclear Regulatory Research, 11555 Rockville Pike, Rockville, MD 20852.

**FOR FURTHER INFORMATION CONTACT:** Brenda Rashleigh, Assistant Laboratory Director for Water, U.S. Environmental

Protection Agency by email at *Rashleigh.Brenda@epa.gov*, or by telephone at (401) 782-3014; or Pierre Glynn, Chief, Water Cycle Branch, U.S. Geological Survey, by email at *pglynn@usgs.gov*, or by telephone at (703) 648-5823.

**SUPPLEMENTARY INFORMATION:**

*Background:* Federal agencies have been cooperating since 2001 under a Memorandum of Understanding (MOU) on the research and development of multimedia environmental models. (please see: <https://my.usgs.gov/confluence/display/cdi/Interagency+Collaborative+for+Environmental+Modeling+and+Monitoring>). The MOU, revised and reaffirmed in 2016, establishes a framework for facilitating cooperation and coordination among six agencies (the specific research organization within the agency is in parentheses):

- National Science Foundation;
- U.S. Army Corps of Engineers (Engineer Research and Development Center);
- U.S. Department of Energy (Office of Biological and Environmental Research);
- U.S. Environmental Protection Agency (Office of Research and Development);
- U.S. Geological Survey; and
- U.S. Nuclear Regulatory Commission (Office of Nuclear Regulatory Research).

These agencies are cooperating and coordinating in the research and development of multimedia environmental models, software, and related databases. Model development and simulation supports interagency

interests in human and environmental health risk assessment, uncertainty analyses, water supply issues, and contaminant transport.

*Purpose of the Public Meeting:* The MOU calls for an annual public meeting to provide an opportunity for other Federal and State agencies, the scientific community, and the public to be briefed on ICEMM activities and initiatives and to discuss technological advancements in multimedia environmental modeling.

*Proposed Agenda:* This year's ICEMM public meeting will be a workshop focusing on modeling and monitoring data fusion. The ICEMM Chair will open the meeting with an overview of the goals of the MOU and current activities of ICEMM, followed by a series of presentations on collaborative modeling and monitoring efforts by ICEMM and invited speakers. During the morning of the second day, the ICEMM agencies will discuss their programs addressing modeling and monitoring data fusion. During the afternoon of the second day, the chairs of the ICEMM Workgroups will discuss their activities and plans for fiscal years 2018 and 2019.

*Meeting Access:* The meeting will be available for onsite attendance or remotely through Web Meeting Services. To obtain onsite or web access, all interested attendees must pre-register by providing their full contact information and affiliation. (See **FOR FURTHER INFORMATION CONTACT**).

**Pierre Glynn,**

*U.S. Geological Survey.*

[FR Doc. 2018-07764 Filed 4-13-18; 8:45 am]

**BILLING CODE 4338-11-P**