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Intellectual Property: HHS Reference No. E-161-2014/0—U.S. Provisional Patent Application No. 62/011,462 filed 12 June 2014

Licensing Contact: Kevin W. Chang, Ph.D.; 301-435-5018; changke@mail.nih.gov

Autodock Vina Software Process for Efficient Large-Scale Cognate Ligand Screening

Description of Technology: The invention pertains to software processes, additions, and docking approaches to Autodock Vina that speeds the rate and efficiency of analyzing ligand interactions with a receptor by cognate ligands and rewards conformations in the scoring algorithm for residue interactions that are based on the biological data. The score is multiplied by a weighting factor to control the degree of ligand-residue interactions that are considered. This multiplier is then added to the docking score for confirmation. This new scoring mechanism is used to score each compound in each generation of the evolutionary genetic algorithm. This docking approach can be used to score and rank compounds in large-scale virtual screening applications. The software includes logic for converting SDF formatted to an Autodock Vina compatible format (containing approx. 25,000 compounds each) and submits the job to the portable batch system on the computing cluster to convert into PDBC files (a concatenated file type). Modified Vina software stores the analyzed binding pocket in RAM that does not have to be recomputed upon every docking process. This increases the efficiency of the docking algorithm by several orders of magnitude. The software on the head node intelligently monitors memory usage, CPU usage and docking speed. Based on this information, the head node elastically controls the load on each node.

Potential Commercial Applications:

- Drug screening.
- Ligand identification.

Competitive Advantages:

- Speed.
- Batch processing.
- Efficient CPU processing.

Development Stage: In vitro data available.

Inventors: Marvin Gershengorn, Umesh Padia, Janak Padia, Elizabeth Geras-Raaka (all of NIDDK).

Intellectual Property: HHS Reference No. E-289-2014/0—Software Tool. Patent protection is not being pursued for this technology.

Licensing Contact: Michael Shmilovich, Esq.; 301-435-5019; shmilovm@mail.nih.gov.

Collaborative Research Opportunity: The National Institutes of Diabetes and Digestive and Kidney Diseases is seeking statements of capability or interest from parties interested in collaborative research to further develop, evaluate or commercialize Cognate Ligand Identification. For collaborative opportunities, please contact Anna Amar at 301-451-2305 or aamar@mail.nih.gov.

Dated: November 10, 2014.

Richard U. Rodriguez,

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

[FR Doc. 2014-27083 Filed 11-14-14; 8:45 am]

BILLING CODE 4140-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of Mental Health: 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 Mental Health Special Emphasis Panel; NIMH Career Transition Award for Tenure-Track and Tenured Intramural Investigators (K22).

Date: December 2, 2014.

Time: 12:30 p.m. to 1:30 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health Neuroscience Center, 6001 Executive Boulevard, Rockville, MD 20852 (Telephone Conference Call).

Contact Person: Ingrid Y. Li, Ph.D., Health Science Administrator Division of Extramural Activities, National Institute of Mental Health, NIH Neuroscience Center, 6001 Executive Blvd., Room 6154-C,

Bethesda, MD 20892, 301-443-1421, ili1@mail.nih.gov.

(Catalogue of Federal Domestic Assistance Program No. 93.242, Mental Health Research Grants, National Institutes of Health, HHS)

Dated: November 7, 2014.

Carolyn A. Baum,

Program Analyst, Office of Federal Advisory Committee Policy.

[FR Doc. 2014-27060 Filed 11-14-14; 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 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: National Institute of Environmental Health Sciences Special Emphasis Panel; Alternative Toxicological Methods Support Contract for the National Toxicology Program (NTP).

Date: December 11, 2014.

Time: 1:00 p.m. to 5:00 p.m.

Agenda: To review and evaluate contract proposals.

Place: National Institute of Environmental Health Sciences, Keystone Building, Conference Room 2166, 530 Davis Drive, Research Triangle Park, NC 27709, (Telephone Conference Call).

Contact Person: RoseAnne M. McGee, Scientific Review Officer, Scientific Review Branch, Division of Extramural Research and Training, Nat. Institute of Environmental Health Sciences, P.O. Box 12233, MD EC-30, Research Triangle Park, NC 27709 (919) 541-0752, mcgee1@niehs.nih.gov.

(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: November 7, 2014.

Carolyn Baum,

Program Analyst, Office of Federal Advisory Committee Policy.

[FR Doc. 2014-27059 Filed 11-14-14; 8:45 am]

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 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 Allergy and Infectious Diseases Special Emphasis Panel Modeling Immunity for Biodefense (U19).

Date: December 8–10, 2014.

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

Agenda: To review and evaluate grant applications.

Place: Sheraton—Silver Spring, Magnolia Ballroom, 8777 Georgia Avenue Silver Spring, MD 20910.

Contact Person: Quirijn Vos, Ph.D., Scientific Review Officer, Scientific Review Program, Division of Extramural Activities, DHHS/NIH/NIAID, 6700B Rockledge Drive, MSC 7616, Bethesda, MD 20892, 301-451-2666, qvoss@niaid.nih.gov.

Name of Committee: National Institute of Allergy and Infectious Diseases Special Emphasis Panel Beyond HAART: Innovative Approaches to Cure HIV-1 (U19).

Date: December 10–12, 2014.

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

Agenda: To review and evaluate grant applications.

Place: Hyatt Regency Bethesda, Baccarat Suite, One Bethesda Metro Center, Bethesda, MD 20814.

Contact Person: Betty Poon, Ph.D., Scientific Review Officer, Scientific Review Program Division of Extramural Activities, NIAID/NIH/DHHS, 6700B Rockledge Drive, MSC 7616, Bethesda, MD 20892-7616, 301-402-6891, poonb@mail.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: November 7, 2014.

David Clary,

Program Analyst, Office of Federal Advisory Committee Policy.

[FR Doc. 2014-27058 Filed 11-14-14; 8:45 am]

BILLING CODE 4140-01-P

DEPARTMENT OF HOMELAND SECURITY

[Docket No. DHS-2013-0074]

Request for Comments and Answers to Specific Questions To Inform Development of the National Critical Infrastructure Security and Resilience (NCISR) Research and Development (R&D) Plan

AGENCY: Science and Technology Directorate, DHS.

ACTION: Notice and Request for Comments and Answers to Specific Questions.

SUMMARY: This Notice requests general comments and answers to specific questions to inform development of the National Critical Infrastructure Security and Resilience Research and Development Plan (NCISR R&D Plan) called for in Presidential Policy Directive (PPD) 21, Critical Infrastructure Security and Resilience. As part of a comprehensive national review process, the Department of Homeland Security (DHS) is soliciting public comments to support the DHS Science and Technology Directorate (S&T) in writing the NCISR R&D Plan. Critical infrastructure includes cyber and physical assets, systems, and networks comprising the 16 critical infrastructure sectors identified in PPD-21.

DATES: Written comments are encouraged and will be accepted until December 17, 2014.

ADDRESSES: You may submit comments, identified by docket number DHS-2013-0074, by any of the following methods:

- Federal eRulemaking Portal: <http://www.regulations.gov>. Follow the instructions for submitting comments.
- Email: R&DWG@hq.dhs.gov. Include the docket number DHS-2013-0074 in the subject line of the message.
- Mail: Kristin Wyckoff, DHS/S&T/RSD, 445 Murray Lane SW., Mail Stop 0208, Washington, DC 20528-0208.

Docket: For access to the docket to read background documents or comments received, go to <http://>

www.regulations.gov. For more information on submitting written comments, see the **SUPPLEMENTARY INFORMATION** section below.

FOR FURTHER INFORMATION CONTACT: Kristin Wyckoff, DHS/S&T/RSD, 445 Murray Lane SW., Mail Stop 0208, Washington, DC 20528-0208.

SUPPLEMENTARY INFORMATION:

I. Public Participation

DHS invites interested persons to provide input and answers to specific questions to inform the identification of national R&D priorities for the NCISR R&D Plan. Input is welcome from stakeholder groups, private and public entities, and individuals on content to be included to best fulfill the intended purpose of the plan. Comments that will provide the most assistance to DHS will include a rationale for the stated answer or recommendation, along with supplemental data, information, or authority that supports the response.

II. Additional Instructions for Written Submissions

All written submissions must include the words “Department of Homeland Security” and the docket number for this action. All comments received (via any of the identified methods) will be posted without change to <http://www.regulations.gov>, including any personal information provided. Please submit your comments and material by only one means to avoid the posting of duplicate submissions.

If you submit comments by mail, your submission should be an unbound document and no larger than 8.5 by 11 inches to enable copying and electronic document management. Please limit submissions to a maximum of ten pages of text if possible. If you want DHS to acknowledge receipt of comments by mail, include with your comments a self-addressed, stamped postcard that includes the docket number for this action. DHS will date your postcard and return it to you via regular mail.

III. Background

On February 12, 2013, President Obama signed PPD-21,¹ Critical Infrastructure Security and Resilience, which builds on the extensive work done to date to protect and enhance the resilience of the Nation’s critical infrastructure. This directive aims to clarify roles and responsibilities across the Federal Government and establish a more effective partnership with owners

¹ PPD-21 can be found at: <http://www.whitehouse.gov/the-press-office/2013/02/12/presidential-policy-directive-critical-infrastructure-security-and-resil>.