

eligible submission (a) complies with the rules in this **Federal Register** notice, (b) follows the detailed submission instructions at <http://pir.nlm.nih.gov/challenge/>, (c) is complete (e.g., meets the Submission Requirements above), and (d) is confirmed by NLM that the executable is an implementation of the submitted source code, can be run on the submitted virtual machine using directories DC and DR as input, and the output matrix is the same as the submission's matrix MRC.

Eligible submissions will proceed to the judging process, and will be evaluated based on how well the submissions can match pill images across a large number of queries. NLM has developed evaluation software and created directories of images to use in selecting the Challenge winners. For example, directories DRJ and DCJ (J for Judging) contain reference and consumer-quality images similar to those in directories DR and DC provided to potential Challenge participants, and the ground truth matrix for judging MGTJ has $MGTJ(i,j)=1$ if $DCJ(i)$ and $DRJ(j)$ are photos of the same pill, else $MGTJ(i,j)=0$. The evaluation software calculates the mean average precision (MAP) for directories and ground truth matrix such as DRJ, DRC, and MGTJ. Mean average precision is a widely used measure for evaluating how well information retrieval systems (for example, search engines) retrieve results across a large number of queries. The MAP formula and examples of MAP calculations for this Challenge are at http://pir.nlm.nih.gov/challenge/MAP_example.

The eligible submissions will be submitted to the evaluation software. The submission with the highest MAP score will be recommended as the first place winner, with the second, third, fourth, and fifth best MAPs, respectively being recommended to earn second place, third place, and two honorable mentions. In the event of tied scores, the tied submissions will be tested against additional DRJ and DCJ directories until a winner is determined. Dr. Terry Yoo will serve as the judge for the competition, thereby overseeing the evaluation software process and being responsible for its proper application.

Additional Information

The NLM Computational Photography Project for Pill Identification (C3PI) is a research and development project in the Office of High Performance Computing and Communications (OHPCC) within the NLM Lister Hill National Center for Biomedical Communications (LHNCBC). C3PI computer scientists conduct computer vision R&D in text-

and image-based search and retrieval. C3PI's overall goal is to help improve the prescription drug information made available to health professionals and consumers. The NLM "Pill Image Recognition Request for Information" (PIR RFI) (<https://www.fbo.gov/index?s=opportunity&mode=form&id=a1a694718366ea7cbaf8f715047d63e18&tab=core&cview=0>) was a pilot for this Challenge. The RFI was announced in February 2015 and responses were due in May 2015. RFI responses were used to test, evaluate, and as needed refine the components of the Challenge, including its instructions. NLM appreciates the work done by the parties that responded to the RFI.

Dated: January 11, 2016.

Betsy L. Humphreys,

Acting Director, National Library of Medicine, National Institutes of Health.

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DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

National Institute of Nursing Research; 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 Nursing Research Special Emphasis Panel; MHealth Tools for Underserved Populations.

Date: February 9, 2016.

Time: 10:00 a.m. to 1:00 p.m.

Agenda: To review and evaluate grant applications.

Place: National Institutes of Health, One Democracy Plaza, Office of Review, National Institute of Nursing Research, National Institutes of Health, 6701 Democracy Boulevard, Suite 710, Bethesda, MD 20892, (Telephone Conference Call).

Contact Person: Mario Rinaudo, MD, Scientific Review Officer, One Democracy Plaza, Office of Review, National Institute of Nursing Research, National Institutes of Health, 6701 Democracy Boulevard, Suite

710, Bethesda, MD 20892, 301-594-5973, mrinaudo@mail.nih.gov.

Name of Committee: National Institute of Nursing Research Initial Review Group.

Date: February 18, 2016.

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

Agenda: To review and evaluate grant applications.

Place: Bethesda Marriott Suites, 6711 Democracy Boulevard, Bethesda, MD 20817.

Contact Person: Weiqun Li, MD, Scientific Review Officer, National Institute of Nursing Research, National Institutes of Health, 6701 Democracy Blvd., Ste. 710, Bethesda, MD 20892, (301) 594-5966, wli@mail.nih.gov.

Name of Committee: National Institute of Nursing Research Special Emphasis Panel; Palliative and End-of-Life Care Research.

Date: February 24, 2016.

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

Agenda: To review and evaluate grant applications.

Place: Bethesda Marriott Suites, 6711 Democracy Boulevard, Bethesda, MD 20817.

Contact Person: Tamizchelvi Thyagarajan, Ph.D., Scientific Review Officer, National Institute of Nursing Research, National Institutes of Health, Bethesda, MD 20892, 301-594-0343, tamizchelvi.thyagarajan@nih.gov.

(Catalogue of Federal Domestic Assistance Program Nos. 93.361, Nursing Research, National Institutes of Health, HHS)

Dated: January 11, 2016.

Sylvia Neal,

Program Analyst, Office of Federal Advisory Committee Policy.

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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; DDK-D Member Conflict SEP.

Date: February 5, 2016.