

Name and brief description of initiative:

National Library of Medicine Grant Programs in Informatics and Knowledge Management

Brief description of goals of initiative:

The Extramural Programs Division of the National Library of Medicine (NLM) provides grants to organizations interested in advancing the sciences of biomedical informatics, bioinformatics, translational and public health informatics and the application of computers and telecommunication for storage, retrieval, access, and use of biomedical information. Both research and resource grants are offered.

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Website address of initiative: <http://www.nlm.nih.gov/ep>

Brief description of biomedical informatics and computational biology components and their goals:

NLM's extramural **research** grants support a wide range of research activities, including representation of biomedical knowledge in computers; organization and retrieval of multiple data types, including images; enhancement of human intellectual capacities through virtual reality, dynamic modeling, artificial intelligence, and machine learning; medical decision-making; natural language understanding of structured and unstructured text; the informatics of biological modeling across scales; linkage of phenomic and genomic information for large scale projects. Several types of grants are offered; innovative, high-risk /high-reward projects are encouraged.

Lists of recent awards are available at

<http://www.nlm.nih.gov/ep/AwardsResearch.html> for R01 grants;

<http://www.nlm.nih.gov/ep/AwardsSmallProjects.html> for R03 grants, and

<http://www.nlm.nih.gov/ep/AwardsExDev.html> for R21 grants.

NLM also offers extramural **resource** grants for knowledge management. The focus of knowledge management grants is optimizing the management of biomedical or biological information across organizational boundaries. These grants assist those who want to plan or implement integrated information resources that meet known needs of a community of users. Lists of recent awards are available at

<http://www.nlm.nih.gov/ep/AwardsInfoSys.html> for Knowledge management grants

and <http://www.nlm.nih.gov/ep/AwardsIAIMS.html> for planning grants.

Brief description of resources and tools available for sharing:

Project web sites of the funded grants describe the circumstances for sharing. NLM itself also has a wealth of resources available for sharing; see <http://www.nlm.nih.gov> for details.

Opportunities for collaboration or synergy with the NCBCs:

NLM's research grants and resource grants offer opportunities for NCBCs to extend their work in new directions. Current and recent recipients of NLM grants are a potential pool of collaborators for new projects.

Prepared by V. Florance 07/02/2006