

National Institute of Biomedical Imaging and Bioengineering - HN8

The general purpose of the National Institute of Biomedical Imaging and Bioengineering (NIBIB) is to conduct, coordinate, and support research, training, dissemination of health information, and other programs with respect to biomedical imaging, biomedical engineering, and associated technologies and modalities with biomedical applications. Specifically, NIBIB (1) researches and develops new techniques and devices with respect to biomedical imaging and bioengineering resulting in more effective interventional procedures applicable to a broad spectrum of diseases; (2) conducts related research in physics, engineering, mathematics, computer science, and other disciplines to develop crosscutting capabilities in biomedical imaging and bioengineering; (3) performs technology assessments and outcome studies in order to evaluate the effectiveness of biologics, materials, processes, devices, procedures, and informatics; (4) advances existing imaging and bioengineering modalities, including imaging, biomaterials, and informatics; (5) coordinates research in techniques broadly applicable for screening for diseases and disorders; (6) develops target-specific agents that will enhance images and have potential to identify and delineate a broad spectrum of diseases; (7) develops advanced engineering and imaging technologies and techniques for research from the molecular and genetic levels to the whole organ and body levels; (8) coordinates the activities of NIBIB with related activities of other NIH Institutes and Centers and with other Federal agencies; and (9) coordinates the activities of Congressionally mandated committees and advisory councils in the area of biomedical imaging and bioengineering.

Office of the Director - HN81

(1) Provides leadership and direction for, and evaluation and coordination of, the activities of the National Institute of Biomedical Imaging and Bioengineering (NIBIB); (2) provides advice and consultation to the NIH Director on all policy matters concerning biomedical imaging and bioengineering; (3) Establishes policy in the areas of research and training grants support and strategies for developing and disseminating research and program information; and (4) supports research and development programs of enabling technologies for biomedical research and facilitates the transfer of those technologies to improve the quality of life and health in support of the NIH.

Office of Administrative Management - HN812

(1) Responsible for operational (personnel, equipment, facilities, and information technology), public policy, communications, and financial aspects of Institute activities; (2) coordinates and prepares Institute responses to Congressional, media, extramural science community, and public inquiries; (3) coordinates preparation of Congressional testimony, budget projections, and responses to special NIH and extramural requests; and (4) coordinates with other components to prepare financial, legislative, and operational projections and responses to related activities.

Office of Science Policy and Public Liaison - HN8122

(1) Provides leadership and advice in support of and on behalf of the Institute in the science policy and public liaison areas; (2) develops, coordinates, and implements science policy and special planning activities; (3) monitors Congressional actions and legislation; (4) provides legislative analyses on activities that may impact the Institute; (5) develops and coordinates Congressional testimony; (6) coordinates with the OFM to ensure that information released to Congress and the public is correct and appropriate; (7) coordinates science policy briefings, strategic planning activities, and planning efforts to address special research issues; (8) coordinates relations and interactions with constituents, advocacy groups, Congressional staff, media, and the general public; (9) serves as the Institute's point-of-contact and referral office for external inquiries; and (10) develops and implements NIBIB programs in communication, outreach, and education aimed at the public, health professionals, and the research community.

Office of Financial Management - HN8123

(1) Plans and executes all aspects of the Institute's financial management; (2) formulates, presents, and executes budget; (3) advises Institute staff on financial management issues; (4) monitors and tracks the financial status of all Institute activities; (5) monitors FTE ceilings and tracks FTE use; (6) maintains liaison with the NIH Office of Budget and keeps informed of all policies and instructions related to financial management; and (7) coordinates with the OSPPL to ensure that budget and fiscal information is correct and appropriate for responses to Congressional and public inquiries.

Office of Operational Management - HN8124

(1) Coordinates Institute activities required for day-to-day operations, facilities management, human resources, personnel and administrative policy, information technology, equipment, and contracts; (2) coordinates with budget and other elements to ensure that staff, facility, and equipment expenses and projections are accurate and appropriate; (3) ensures compliance with NIH, DHHS, and federal personnel and operational guidelines; (4) serves as Institute representative on appropriate NIH committees; (5) maintains and supports Institute desktop and network computer systems, and (6) coordinates staff general training needs and activities.

Office of Research Administration - HN813

Responsible for all aspects of administration of extramural science programs including (1) application receipt and review; (2) management of grants; (3) extramural grants policy; (4) liaison with relevant NIH organizations; (5) NIH-wide ethics issues (patient rights, animal rights, stem cells, etc.); (6) NIBIB science administration records and files; and (7) coordination of the NACBIB.

Office of Extramural Policy - HN8132

(1) Develops and implements NIBIB policy concerning extramural grants administration; (2) coordinates development of solicitations (PAs and RFAs), posting and monitoring of ENS information and comment resolutions, and submission of text to the NIH Guide; (2) provides liaison to the Extramural Programs Management Council (EPMC); (3) maintains policies and handles issues concerning human subjects, animal experiments, stem cell research, conflict of interest, etc.; (4) coordinates staff training related to science administration and grants policy; and (5) coordinates NACBIB meetings and liaison.

Office of Scientific Review - HN8133

(1) Serves as the focal point for Institute-conducted initial scientific merit review of grant applications and research and development contract proposals; (2) determines review criteria and structure of review groups; (3) provides scientific review administrators and support staff for initial review groups; (4) works with program staff to develop application protocols and initiatives and to facilitate reviews; (5) provides representation to the Review Policy Committee; (6) serves as liaison to the CSR Division of Receipt and Referral; and (7) serves as Institute point-of-contact for review and referral issues (i.e., 901s, ARAs, \$ 500k letters, negotiation of receipt dates, and related trouble shooting).

Office of Grants Management - HN8134

(1) Serves as the focus for all business-related activities associated with the award, administration, and negotiation of grants and cooperative agreements for NIBIB; (2) ensures quality stewardship of federal funds in accordance with applicable policies, procedures, and laws; and (3) provides representation to the Grants Management Advisory Committee (GMAC).

Laboratory of Molecular Imaging and Nanomedicine - HN862

To develop molecular imaging probes for better understanding of biology, early diagnosis of disease, monitoring therapy response, and guiding drug discovery/development. Specifically, the laboratory will engage in (1) PET/SPECT radiochemistry to develop novel methods for incorporation of radionuclides into tracers for the study of biologically important processes and translation into clinically relevant human disease; (2) molecular imaging toolbox approach that integrate medicinal chemistry, in silico computer modeling and systems biology to develop multifunctional and multimodality imaging agents; (3) biological molecular imaging to identify disease specific markers and develop new probes with cellular and molecular biology oriented techniques and methods; (4) all-in-one sophisticated multifunctional theranostic agents that carry and deliver gene therapeutics and chemotherapeutics while simultaneously providing real-time, in vivo imaging that shows responses to those therapeutics.

Biomedical Engineering and Physical Science Shared Resource Program - HN863

Contributes to the advancement of NIH research by serving as a core resource to scientists throughout the NIH intramural research program. Develops and applies methods of engineering and the physical sciences for the solution of problems in biology and medicine through: (1) collaborative research with NIH intramural scientists in the areas of measurement, imaging, mathematical analysis and modeling, and the design of specialized research protocols and equipment; and (2) developing theoretical and experimental methods, including novel instrumentation, to meet long-term needs of the NIH Intramural Research Program.

Division of Health Information Technology - HN875

Responsible for (1) coordinating extramural activities on health informatics and bioinformatics; (2) identifying specific opportunities for the NIBIB to pursue within this broad area of research; (3) develop leading research programs in the identified area(s); and (4) coordinating and supporting Institute-wide, NIH-wide, and government agency-wide committees and other activities, which contribute to furthering research in the areas of health IT, bioinformatics, and telehealth.

Office of Program Evaluation and Strategic Partnerships - HN876

(1) Evaluates and coordinates NIBIB extramural science programs and extramural program operations to encompass all programmatic administrative functions; (2) assists in accelerating the translation of basic discoveries and innovations into new diagnostic and therapeutic technologies; (3) initiates and facilitates the development of SBIR and other programs focused on emerging technologies of national importance; (4) facilitates clinical evaluation of new technologies and strategic alliances between the federal, private sector, and international stakeholders; (5) evaluates and reports extramural science programs including routine portfolio analyses; and (6) coordinates human and animal subject protection and management of issues relating to women, children, and minorities and for LGBT communities.

Intramural Research Programs - HN86

Responsible for all aspects of NIBIB intramural research, including staffing, facilities, and research programs. Also includes the Laboratory of Bioengineering and Physical Science which contributes to the advancement of NIH research by the application of engineering, mathematics, and the physical sciences to the solution of problems in biology and medicine through: (1) consultations and collaborative research with NIH intramural scientists in the areas of measurement, imaging, mathematical analysis and modeling, and the design of specialized research protocols and equipment; (2) proposing and developing theoretical and experimental methods, including novel instrumentation, to meet long-term needs of the NIH Intramural Research Program; and (3) serving as a liaison to other NIH and non-NIH organizations with bioengineering and physical science expertise to obtain and disseminate information on technological resources and development applicable to NIH intramural research problems.

Extramural Science Programs - HN87

Responsible for all aspects of extramural science programs including (1) program planning, development, implementation, analysis, and evaluation; (2) grants and portfolio management; (3) intra-NIH and inter-agency collaborations; (4) inter-disciplinary training; (5) technical workshops and conferences; (6) program demographics and analysis; (7) program operational policies and referral guidelines; (8) response to investigator inquiries and requests; and (9) organization and staffing.

Division of Discovery Science and Technology - HN872

Responsible for promoting, fostering, and managing basic bioengineering and biomedical imaging research and development of novel technologies that can be applied to biomedical research and medical practice with the ultimate goal of improving public health.

Division of Applied Science and Technology - HN873

Responsible for translating (i.e., supporting feasibility studies and engineering modifications for validation) enabling technologies, methods, and devices to research and clinical applications. This can involve intra-institute, inter-institute, and inter-agency collaborations and communication.

Division of Inter-Disciplinary Training - HN874

Coordinates all aspects of inter-disciplinary research training and education including (1) program development and implementation; (2) grant support; (3) extramural communication and liaison; (4) serving as NIBIB representative to the Training Advisory Committee (TAC); and (5) serving as the point-of-contact for external inquiries concerning training.