• Provides leadership for a national program in diseases of the heart, blood vessels, lungs, and blood, blood resources, and sleep disorders;
• Plans, conducts, fosters, and supports an integrated and coordinated program of basic research, clinical investigations and trials, observational studies, and demonstration and education projects relating to the causes, prevention, methods of diagnosis, and treatment (including emergency medical treatment) of the heart, blood vessel, lung, blood diseases, and sleep disorders through research performed in its own laboratories and through contracts and research grants to scientific institutions and to individuals;
• Plans and directs research in the development, trial, and evaluation of drugs and devices relating to the prevention, treatment, and rehabilitation of patients suffering from such diseases and disorders;
• Conducts studies and research into the clinical use of blood and all aspects of the management of its resources;
• Supports training and career development of personnel in fundamental sciences and clinical disciplines for participation in basic and clinical research programs relating to heart, blood vessels, blood, lung diseases, blood resources, and sleep disorders; by individual and institutional research training awards;
• Coordinates with the other research institutes and with all Federal health programs relevant activities in the above diseases and disorders, including the related causes of stroke;
• Conducts educational activities, including the collection and dissemination of educational materials on these diseases and disorders, with emphasis on the prevention thereof, for health professionals and the lay public; and
• Maintains continuing relationships with institutions and professional associations and with international, national, state, and local officials, and voluntary agencies and organizations working in these areas.
Division of Lung Diseases

Office of the Director
(HNH31)

Airway Biology and Disease Program
(HNH32)

Lung Biology and Disease Program
(HNH33)

National Center on Sleep Disorders Research
(HNH34)
**Division of Intramural Research**

**Office of the Director (HNH6)**

- **Office of the Scientific Director (HNH61)**
  - Core Laboratories (HNH612)
  - Animal Program (HNH614)
  - Animal Program Surgery (A)
  - Animal Support Services (B)
  - Scientific Information Office (HNH615)
  - Office of Education (HNH616)
  - Office of the Scientific Director OOTC (HNH617)

**Office of Intramural Management (HNH611)**

- **Animal Support Services**
- **Office of Education**
- **Office of the Scientific Director**

**Cardiovascular Branch (HNH6203)**

- Laboratory of Mitochondrial Biology and Metabolism (A)
- Cardiovascular Branch Clinical (B)
- Advanced Cardiovascular Imaging Laboratory (C)
- Cardiovascular Branch OOTC (D)
- Laboratory of Cardiovascular Intervention (E)
- Echocardiography Laboratory (F)
- Laboratory of Cardiac Physiology (G)
- Laboratory of Obesity and Metabolic Diseases (H)

**Translational Vascular Medicine Branch (HNH6204)**

- Laboratory of Cardiovascular Medicine Branch (HNH6201)
- Laboratory of Molecular Biology (A)
- Laboratory of Experimental Atherosclerosis (B)
- Translational Vascular Medicine Branch Clinical (C)
- Laboratory of Cardiovascular Regenerative Medicine (D)
- Laboratory of Vascular and Matrix Genetics (E)
- Lipoprotein Metabolism Laboratory (F)
- Translational Vascular Medicine Branch OOTC (G)

**Population Sciences Branch (HNH6205)**

- Laboratory of Hemostasis and Platelet Biology (A)
- Laboratory for Cardiovascular Epidemiology and Genomics (B)
- Population Sciences Branch OOTC (C)
- Laboratory of Cardiovascular Medicine Branch (HNH6201)
- Laboratory of Vascular and Matrix Genetics (E)
- Translational Vascular Medicine Branch OOTC (G)

**Translational Vascular Medicine Branch OOTC (HNH6211)**

- Hematology Branch (HNH6212)
- Hematopoieses and Bone Marrow Failure Laboratory (A)
- Hematology Branch Clinical (B)
- Laboratory of Molecular Hematopoiesis (C)
- Stem Cell Allogeneic Transplantation Laboratory (D)
- Laboratory of Transplantation Immunotherapy (E)
- Laboratory of Molecular Genetics (F)
- Laboratory of System Genetics (G)
- Medical Signal & Image Processing Program (F)
- Muscle Energetics Laboratory (G)
- Single Cell Genomics Laboratory (H)
- Renal Cellular and Molecular Biology Section (I)
- System Biology Center OOTC (K)
- Laboratory of Theoretical Cellular Physics (K)

**Laboratory of Aging and Cancer Genetics (A)**

- Laboratory of Molecular Biology (A)
- Laboratory of Experimental Atherosclerosis (B)
- Translational Vascular Medicine Branch Clinical (C)
- Laboratory of Cardiovascular Regenerative Medicine (D)
- Laboratory of Vascular and Matrix Genetics (E)
- Lipoprotein Metabolism Laboratory (F)
- Translational Vascular Medicine Branch OOTC (G)

**Cell Biology and Physiology (HNH6216)**

- Laboratory of Cell and Tissue Morphodynamics (A)
- Membrane Biology Section (B)
- Laboratory of Cellular Physiology (C)
- Molecular Cell Biology Laboratory (D)
- Laboratory of Molecular Physiology (E)
- Developmental Neurobiology Laboratory (F)
- Laboratory of Protein Trafficking and Organelle Biology (G)

**Pulmonary Branch (HNH6211)**

- Laboratory of Molecular Machines and Tissue Architecture (A)
- Cell Biology and Physiology Center OOTC (B)
- Laboratory of Cell Biology (K)
- Laboratory of Cellular Biology (L)
- Laboratory of Microbiology (M)
- Laboratory of Host-Pathogen Dynamics (N)

**Laboratory of Structural Biophysics (A)**

- Laboratory of Biochemistry (B)
- Laboratory of Biochemical Dynamics (C)
- Laboratory of Advanced Microscopy and Biophotonics (D)
- Laboratory of Biopreservation Technology (E)
- Laboratory of Computational Biophysics (F)
- Laboratory of Membrane Biophysics (G)
- Laboratory of Protein Conformation and Dynamics (H)
- Laboratory of RNA Biophysics and Cellular Physiology (I)
- Laboratory of Theoretical Cellular Physics (K)

**Biochemistry and Biophysics Center (HNH616)**

- Laboratory of Molecular and Cellular Imaging (A)
- Laboratory of Imaging Technology (M)
- Laboratory of Molecular Imaging (N)
- Theoretical Molecular Biophysics Laboratory (P)
- Machine Shop (Q)
- Biochemistry and Biophysics Center OOTC (R)
- Laboratory of Ribonucleoprotein Biochemistry (F)
- Laboratory of Single Molecule Biophysics (I)
- BBC OOTC Brooks (V)

**Laboratory of Sickle Cell Genetics and Pathophysiology (A)**

- Laboratory of Pulmonary Physiology (B)
- Laboratory of Early Sickle Cell Disability Prevention (C)
- Sickle Cell Branch OOTC (D)
- Sickle Cell Branch Clinical (E)
- Cellular and Molecular Therapeutics Laboratory (F)
Center for Translation Research and Implementation Science

- Office of the Director (HNHA1)
  - Translation Research Branch (HNHA2)
  - Implementation Science Branch (HNHA3)
  - Health Inequities and Global Health Branch (HNHA4)