NIAMS MISSION

The NIAMS mission is to support research into the causes, treatment, and prevention of arthritis and musculoskeletal and skin diseases; training of basic and clinical scientists to carry out this research; and dissemination of information on research progress in these diseases.

STRATEGIC PLAN GOAL

The goal of the plan is to advance and accelerate research into the causes, treatment, and prevention of arthritis and musculoskeletal and skin diseases. The ultimate goal of these efforts is to develop patient-centered, personalized ways to improve outcomes and thereby “turn discovery into health.”

For More information

Read the full NIAMS Strategic Plan:
https://www.niams.nih.gov/about-niams/strategic-plan-fiscal-years-2020-2024

NIAMS Website: www.niams.nih.gov

Contact NIAMS: NIAMSinfo@mail.nih.gov

National Institute of Arthritis and Musculoskeletal and Skin Diseases

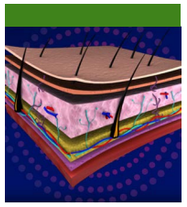
About Our Strategic Plan

NIAMS

National Institute of Arthritis and Musculoskeletal and Skin Diseases

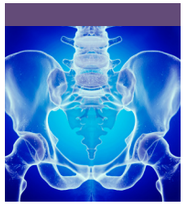
SYSTEMIC RHEUMATIC AND AUTOIMMUNE DISEASES RESEARCH

NIAMS Systemic Rheumatic and Autoimmune Diseases programs address basic, translational, and clinical research, including clinical trials and observational and mechanistic studies, focused on immune-mediated arthritis and autoimmune-related acute and chronic disorders in adults and children.



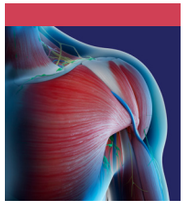
SKIN BIOLOGY AND DISEASES RESEARCH

NIAMS Skin Biology and Diseases programs support basic, translational, and clinical research in skin, including both common and rare skin diseases. These programs include investigations of the basic molecular, cellular, and developmental biology of skin, as well as studies of skin as an immune, sensory, endocrine, and metabolic organ.



BONE BIOLOGY AND DISEASES RESEARCH

NIAMS Bone Biology and Diseases programs support research on the control of bone formation, resorption, and mineralization as well as the effects of signaling molecules on bone cells. They support clinical studies of interventions to prevent fractures associated with osteoporosis and research into less common bone diseases.



MUSCLE BIOLOGY AND DISEASES RESEARCH

NIAMS Muscle Biology and Diseases programs encourage research on muscle developmental biology, growth, maintenance, and hypertrophy; physiology of contraction; structural biology of the contractile apparatus; disease mechanisms; biomarkers and outcome measures; and development and clinical testing of therapies for conditions including the muscular dystrophies.

JOINT BIOLOGY, DISEASES, AND ORTHOPAEDICS RESEARCH

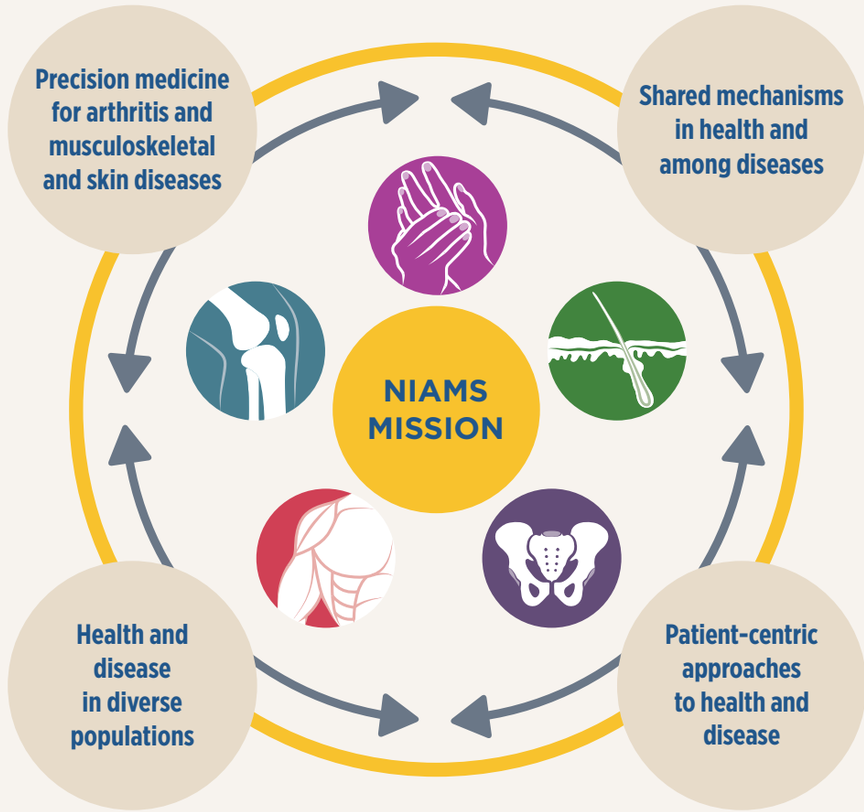
NIAMS Joint Biology, Diseases, and Orthopaedics programs support a broad spectrum of research centered on the interplay among the body's muscles, bones, and connective tissues. They encourage tissue engineering and regenerative medicine research, molecular biology, imaging, and clinical research, and the treatment and prevention of orthopaedic conditions.

CROSS-CUTTING SCIENTIFIC THEMES

The Strategic Plan includes research objectives related to the Institute's five disease- or tissue-specific areas. However, modern biomedical and behavioral research increasingly crosses those traditional disease- and tissue-specific boundaries. Many scientific challenges and opportunities within the NIAMS mission are not unique to any one field, disease, or scientific or clinical discipline. Therefore, the FYs 2020-2024 plan includes cross-cutting scientific themes relevant to many areas of the NIAMS mission. These themes provide a framework for understanding the convergence of ideas, knowledge, and approaches across fields.

Emerging technologies have yielded a wealth of data that can be integrated with clinical information to build sophisticated new models of health and disease. In the coming years, these approaches are expected to advance knowledge in many NIAMS mission areas and yield more personalized treatments for patients.

Different demographic groups often have distinct health concerns and disparities exist among groups regarding health outcomes for diseases within the NIAMS mission. To achieve the goal of improving public health, NIAMS-funded research must be applicable to health and disease in many populations.



Increasingly, researchers are discovering commonalities among seemingly disparate diseases and revealing how basic processes, such as immunity, inflammation, regeneration, and metabolism, play a role in maintaining health or causing disease. The discovery of shared molecular, physiological, and behavioral components across different diseases is blurring the traditional boundaries of biomedical science.

Efforts to integrate the patient perspective into research have progressed significantly in recent years. New tools are available to capture patient-reported data for use in clinical trials and patient care. This integration offers promise for more holistic therapies to improve health and enhance the patient experience.