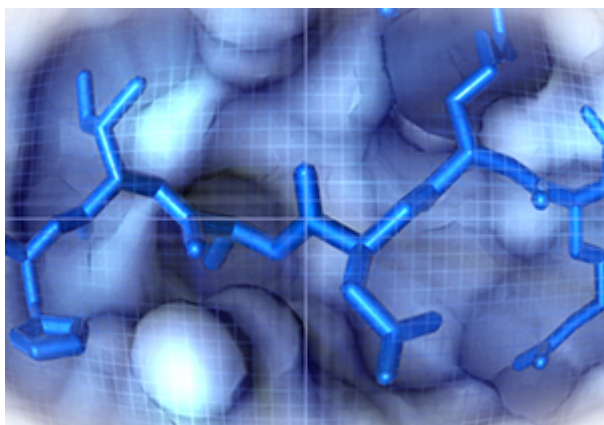


Postdoc Research Themes ^[1]

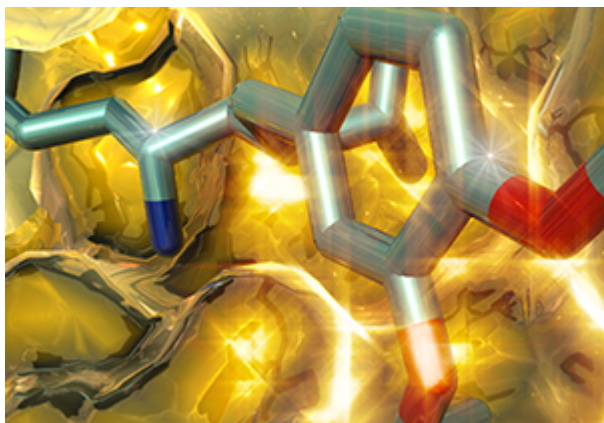
Our longstanding commitment to understanding the underlying molecular basis of disease not only deepens our knowledge of the biology, it enables us to turn scientific insights into medical breakthroughs. Research at NIBR comprises a broad range of areas from which postdoctoral scholars and their mentors create research projects. Ideally, these projects take advantage of the rich and unique drug discovery environment, including access to sophisticated research tools. Projects are often interdisciplinary in nature, combining biology and chemistry and/or computational approaches, or bridging different disease areas.



Cancer Biology

Research in cancer biology focuses on understanding genetic mechanisms of therapeutic resistance and pathogenic molecular mechanisms..

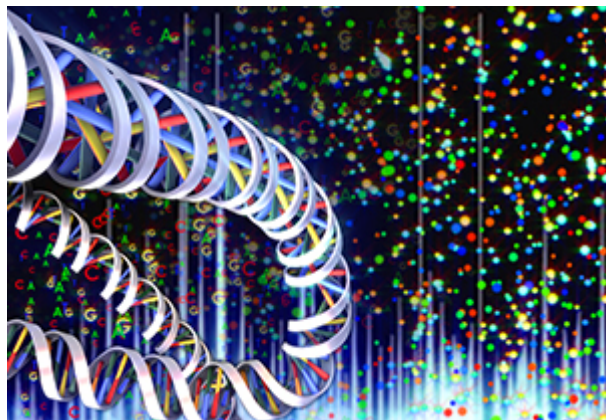
[Read more](#) ^[2]



Chemistry

Research in chemistry encompasses a broad range of areas, including chemical biology, modulation of RNA function, biochemical transformations....

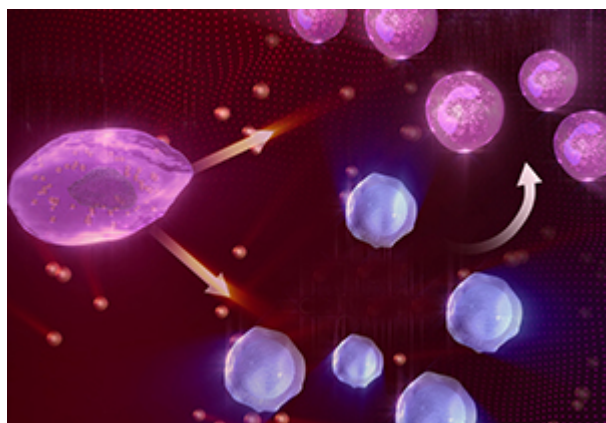
[Read more](#) [3]



Computational Sciences

Computational sciences span a broad range of research in computational chemistry and informatics...

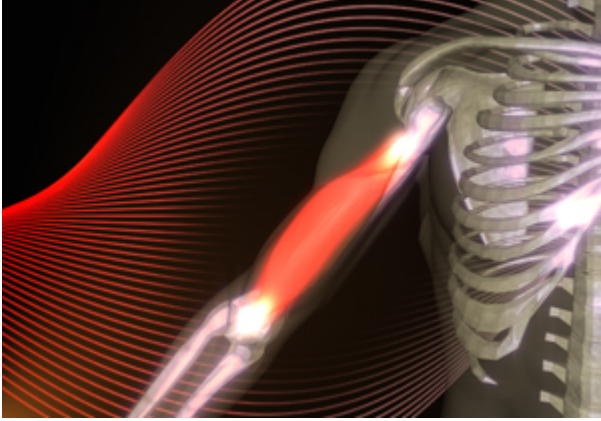
[Read more](#) [4]



Immunology

Our research focuses on understanding immune pathways important in disease pathophysiology. We focus on autoimmune and inflammatory diseases...

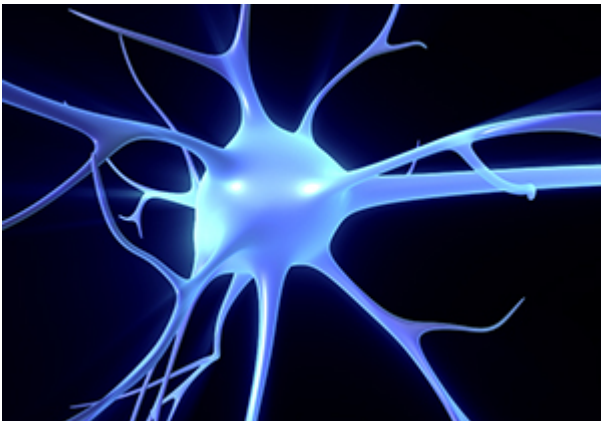
[Read more](#) [5]



Musculoskeletal

Our research focuses on muscle wasting associated with disuse (e.g., from cancer, chronic obstructive pulmonary disease, and aging), as well as tendon...

[Read more](#) [6]



Neurobiology

Our research builds on the latest advances in human and zebrafish genetics to probe pathways underlying the pathophysiology of...

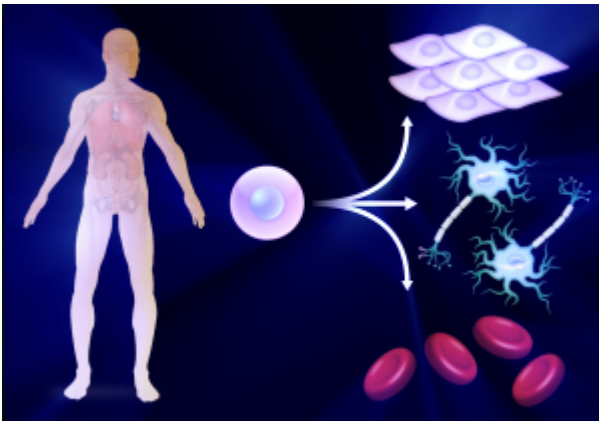
[Read more](#) [7]



Pathways Biology

NIBR focuses on core signaling pathways as an organizing principle to further understanding of disease mechanisms and identify novel targets...

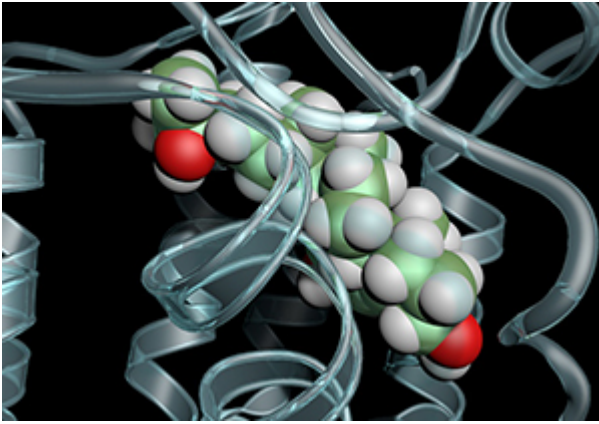
[Read more](#) [8]



Regenerative Medicine

Current research areas include stem cell biology and tissue/organ regeneration, in particular understanding the molecular mechanisms...

[Read more](#) [9]



Structural Biology

To gain understanding of molecular mechanisms relevant to disease biology, we use biophysical techniques such as X-ray crystallography, NMR...

[Read more](#) ^[10]

Source URL: <https://www.novartis.com/our-science/postdoc-program/research-themes>

Links

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