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# National Center for Integrative Biomedical Informatics

*The University of Michigan Medical School*



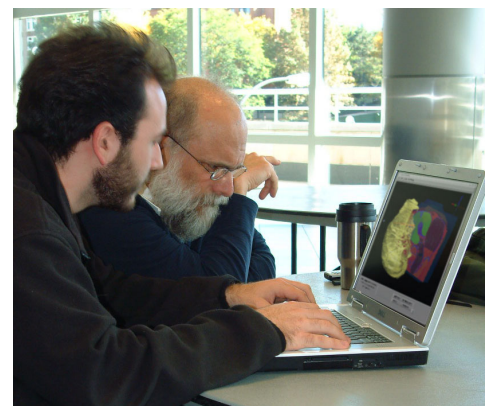
**T**HE NATIONAL CENTER FOR INTEGRATIVE BIOMEDICAL INFORMATICS (NCIBI) is one of seven National Centers for Biomedical Computing (NCBC) in the NIH Roadmap. NCIBI is based at the University of Michigan and is part of the UM Center for Computational Medicine and Bioinformatics (CCMB). The Center develops interactively integrated analytical and modeling technologies to acquire or create context-appropriate molecular biology information from emerging experimental data, international genomic databases and the published literature. The Center is focusing on outreach, training and educational programs as well to broaden the use of applicable methods and analyses.



The NCIBI supports information access and data analysis workflow of collaborating biomedical researchers, enabling them to build computational and knowledge models of biological systems validated through focused work on specific diseases.

The initial Driving Biological Problems are **Prostate Cancer Progression**, organ-specific complications of **Type 1 Diabetes**, genetic and metabolic heterogeneity of **Type 2 Diabetes**, and genetic susceptibility and phenotypic subclassification of **Bipolar Depressive Disease**.

The NCIBI allows scientists to easily explore and understand complex diseases by building a user-centric environment containing integrated biomedical information. NCIBI is organized in a problem-centric style that harnesses the power of genomics, bioinformatics, proteomics, pathways and integrated systems. It provides customizable workflow environments and natural language processing (NLP) of full-text biomedical research literature. By creating user environments with specialized and general data and information tuned to researchers studying specific problems, NCIBI accelerates their research and develops and applies new models to enhance their work.



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