

BIOINFORMATICS, GENOMICS, AND PROTEOMICS (Div III)

Advisory Committee

- Daniel P. Aalberts, Kennedy P. Richardson '71 Professor of Physics; affiliated with: Physics, BiGP (Bioinformatics, Genomics, and Proteomics); on leave Spring 2024
- Lois M. Banta, Halvorsen Professor for Distinguished Teaching and Research of Biology; on leave Spring 2024
- Rohit Bhattacharya, Assistant Professor of Computer Science
- Julie C. Blackwood, Associate Professor of Mathematics; on leave Spring 2024
- Victor A. Cazares, Assistant Professor of Psychology; affiliated with: Psychology, Neuroscience; on leave 2023-2024
- Pei-Wen Chen, Associate Professor of Biology; on leave Fall 2023
- Richard D. De Veaux, C. Carlisle and Margaret Tippit Professor of Statistics; on leave 2023-2024
- Joan Edwards, Samuel Fessenden Clarke Professor of Biology
- Amy Gehring, Philip and Dorothy Schein Professor of Chemistry, Director of the Science Center
- Katie M. Hart, Assistant Professor of Chemistry
- Cynthia K. Holland, Assistant Professor of Biology; on leave 2023-2024
- David W. Loehlin, Assistant Professor of Biology
- Luana S. Maroja, Professor of Biology, Chair of Biochemistry & Molecular Biology Program; affiliated with: Biology, BIMO (Biochemistry and Molecular Biology)
- Martha J. Marvin, Lecturer in Neuroscience
- Manuel A. Morales, Professor of Biology
- Anna M. Plantinga, Assistant Professor of Statistics
- Bob Rawle, Assistant Professor of Chemistry
- Robert M. Savage, Chair of Biology and Charles L. MacMillan Professor in Natural Sciences
- B Thuronyi, Assistant Professor of Chemistry
- Claire S. Ting, Professor of Biology

Bioinformatics, genomics, and proteomics are rapidly advancing fields that integrate the tools and knowledge from biology, chemistry, computer science, mathematics, physics, and statistics in research at the intersection of the biological and informational sciences. Inspired by the enormous amount of biological data that are being generated from the sequencing of genomes, these new fields will help us pose and answer biological questions that have long been considered too complex to address. Research in genomics, proteomics, and bioinformatics will also significantly impact society affecting medicine, culture, economics, and politics.

The Bioinformatics, Genomics, and Proteomics curriculum involves faculty from the Biology, Chemistry, Computer Science, Mathematics/Statistics, and Physics departments and was designed to provide students with an understanding of these revolutionary new areas of investigation. Students interested in graduate work in bioinformatics, genomics, and proteomics should take the BiGP courses and their prerequisites. Interested students are also encouraged to participate in independent research with members of the advisory faculty as they explore the development of these new fields.