A UNIQUE EDUCATIONAL OPPORTUNITY

The CBBI Program at Notre Dame is an NIH-funded program that offers students the opportunity to train in an interdisciplinary environment that provides significant cross-training at the interface of chemistry and biology-related disciplines. CBBI students are offered special research training opportunities by participating in extended internships in industry, government laboratories, other laboratories at Notre Dame, or in other academic institutions. Training is supplemented with external seminar speakers, biweekly meetings in which students present and discuss their research, career path seminars, and an annual symposium.

PROFESSIONAL DEVELOPMENT AND CAREER PLACEMENT

The CBBI Program prepares students for scientific careers with writing and presentation skills courses, workshops on CV preparation, interview techniques, and best teaching practices, as well as career development seminars and on-site recruitment visits from companies. Our graduates hold leadership positions in academia and industry.

▲ MMP-9 is involved in the recalcitrance of diabetic wounds to healing; the small molecule (R)-ND-336 inhibits MMP-9 and accelerates wound healing.
Early events in ovarian cancer metastasis.

Investigating the mechanisms of resistance to β-lactam antibiotics by penicillin-binding protein 2a (PBP2a) of methicillin-resistant Staphylococcus aureus.

RESEARCH AREAS

Biochemistry
Structural Biology
Bioorganic Chemistry
Biophysics
Design and Synthesis of Novel Therapeutics
Genetics and Genomics of Drug Resistance
Molecular and Cell Biology
Molecular Genetics and Macro biology
Novel Antibiotic Strategies
Pathobiology of Mycobacterial Diseases
Proteomics
Synthetic Organic Chemistry

RESEARCH FACILITIES

Advanced Diagnostics and Therapeutics
Biophysics Instrumentations Core Facility
Center for Nano Science and Technology
Center for Rare and Neglected Diseases
Center for Research Computing
Center for the Study of Biocomplexity
Chemical Synthesis and Drug Discovery
Computer Aided Molecular Design Facility
Eck Institute for Global Health
Flow Cytometry Facility
Freimann Life Science Center
Genomics and Bioinformatics Core Facility
Harper Cancer Research Institute
Notre Dame Integrated Imaging Facility
Mass Spectrometry and Proteomics Facility
Materials Characterization Facility
Molecular Structure Facility
Optics Facilities
Warren Family Research Center for Drug Discovery and Development

FINANCIAL SUPPORT

Students accepted into the CBBI Program are provided full financial support that includes tuition, stipends, health insurance, and travel funds for professional training.

CONTACT INFORMATION

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