CBBI

AN OPPORTUNITY TO TRAIN IN AN INTERDISCIPLINARY ENVIRONMENT AT THE INTERFACE OF CHEMISTRY, BIOCHEMISTRY, AND BIOLOGY.

THE UNIVERSITY OF NOTRE DAME AND SOUTH BEND

The 1,250-acre campus of the University of Notre Dame is located in South Bend, Indiana—26 miles from Lake Michigan and 90 miles from Chicago. Extensive recreational facilities are available on campus, including an ice rink, an Olympic-size pool, two golf courses, tennis courts, fitness rooms, and indoor tracks. South Bend and Notre Dame offer an active arts culture that includes guest and resident artists, theater companies, and symphonies. Numerous Notre Dame athletic events are available.

CONTACT INFORMATION

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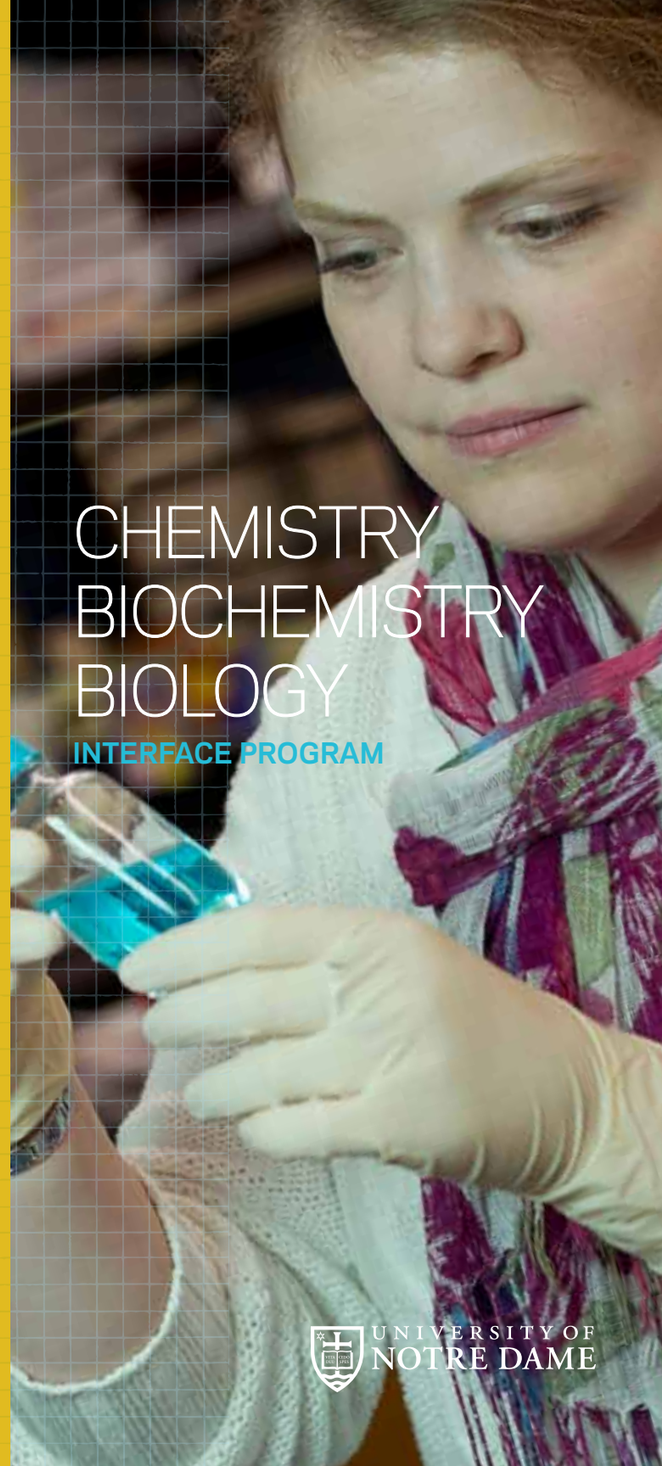

CHEMISTRY BIOCHEMISTRY BIOLOGY

INTERFACE PROGRAM

UNIVERSITY OF NOTRE DAME

PROFESSIONAL DEVELOPMENT AND CAREER PLACEMENT

The Chemistry-Biochemistry-Biology Interface 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.

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.

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, biochemistry, and biology. 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 retreat.

In vitro membrane tubulation induced by the Golgi associated protein FAPP1 on a membrane sheet.

Iejimalides isolated from sea slugs have antitumor properties. The total synthesis and the mechanism of action in prostate cancer are being studied.

Rational drug design: SB-3CT, the first mechanism-based inhbitor for gelatinase, shows promise in mouse models for cancer and stroke.

RESEARCH AREAS

Bioorganic and Medicinal Chemistry
Biophysics and Structural Biology
Computational Chemistry
Drug Metabolism and Pharmacokinetics
Fluorescence Imaging
Genetics and Genomics of Drug Resistance
Immunology
Molecular and Cell Biology
Molecular Genetics
Natural Products Chemistry
Protein Folding
Proteomics
Rational Drug Design

RESEARCH FACILITIES

Center for Environmental Science and Technology
Center for Nano Science and Technology
Center for Rare and Neglected Diseases
Center for Research Computing
Center for the Study of Biocomplexity
Eck Institute for Global Health
Freimann Life Science Center
Harper Cancer Institute
Lizzadro Magnetic Resonance Research Center
Mass Spectrometry Facilities
Molecular Structure Facility
Optics Facilities
W.M. Keck Center for Transgene Research