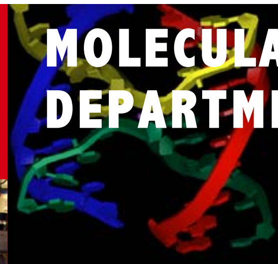
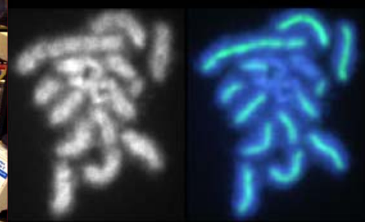
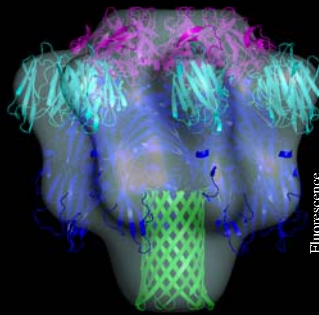
WESLEYAN UNIVERSITY

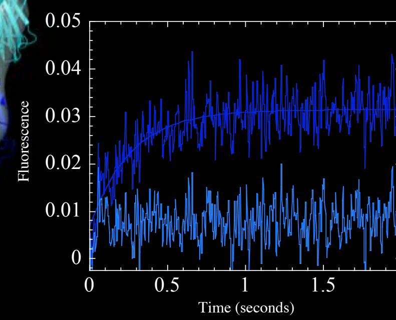
MOLECULAR BIOLOGY AND BIOCHEMISTRY DEPARTMENT

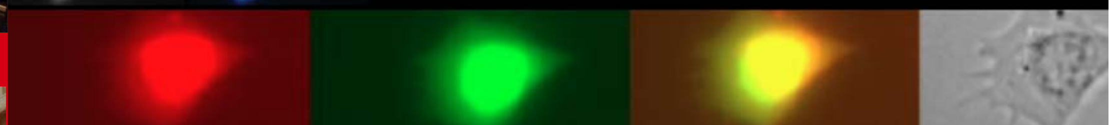
www.wesleyan.edu/mbb

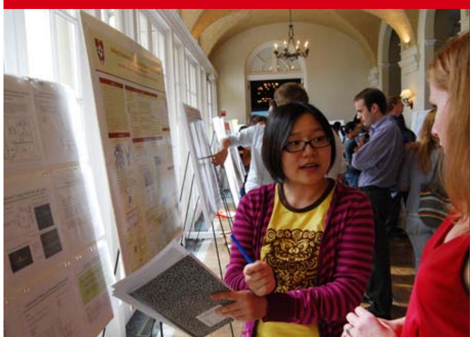












RESEARCH ORIENTED PH.D. PROGRAM WITH OPPORTUNITIES FOR SPECIALIZATION IN GENETICS, CELLULAR BIOLOGY, MOLECULAR BIOLOGY, BIOCHEMISTRY, BIOPHYSICS and BIOINFORMATICS

RESEARCH AREAS

- Macromolecular Structure Analysis by X-ray Crystallography, NMR, Optical Spectroscopy
- Transient Enzyme Kinetics
- Chromosomal Structure and Dynamics
- Transcriptional Regulation and Epigenetics
- Protein Translocation Mechanisms
- Olfactory Systems Biology

BENEFITS and RESOURCES

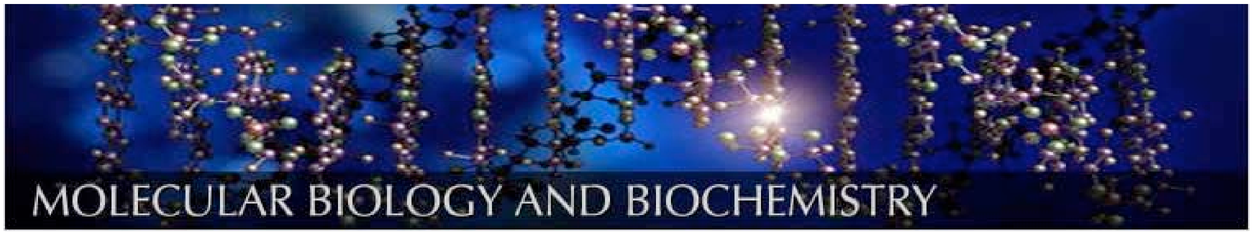
- Low Student / Faculty ratio resulting in personalized research training and career development
- Active research programs supported by extramural funds (NIH, NSF, etc.)
- Opportunity to develop teaching skills in a liberal arts environment
- Tutoring programs, including writing workshops
- Tuition assistantships ($23,465 / yr stipend), Health insurance, Daycare, Low cost of living; Proximity to major cities (Boston, New York)
- Graduate Student Association
- Free online application

ENTRANCE REQUIREMENTS

- Bachelors degree or higher
- GRE (general test), TOEFL for international students
- Three recommendation letters

FOR MORE INFORMATION, CONTACT
Anika Milik, Molecular Biology and Biochemistry Department
Hall-Atwater Laboratories, Wesleyan University, Middletown, CT 06459

Email: tmilik@wesleyan.edu; Phone: (860) 685-2640



MB&B FACULTY

Manju Hingorani: Transient kinetics of *S. cerevisiae* DNA replication and mismatch repair proteins.

Scott Holmes: Molecular genetics of gene silencing in *S. cerevisiae*: chromosome structure and function.

Robert Lane: Gene co-regulation and evolution in the olfactory system.

Amy MacQueen: Chromosome dynamics during meiosis in *C. elegans* and *S. cerevisiae*.

Michael McAlear: Molecular genetic analysis of the regulation of ribosome biogenesis in *S. cerevisiae.*

Ishita Mukerji: Fluorescence and UV resonance Raman spectroscopic analysis of protein and nucleic acid structures and interactions.

Donald Oliver: Genetic and biochemical study of protein translocation pathways in bacteria.

Rich Olson: X-ray crystallography and biophysical characterization of soluble/membrane proteins.

ASSOCIATED CHEMISTRY and BIOLOGY DEPARTMENT FACULTY

David Beveridge: Theoretical and computational biophysics and structural bioinformatics of proteins and nucleic acids.

Philip Bolton: NMR and fluorescence spectroscopy of proteins and nucleic acids.

Rex Pratt: Enzymology of β-lactamases and β-lactam antibiotics.

Irina Russu: NMR spectroscopy of proteins and nucleic acids.

Erika Taylor: Biological chemistry research on transition state and mechanism-based inhibitor design, and directed evolution of enzyme function.

Michael Weir: Drosophila developmental genetics, bioinformatics.