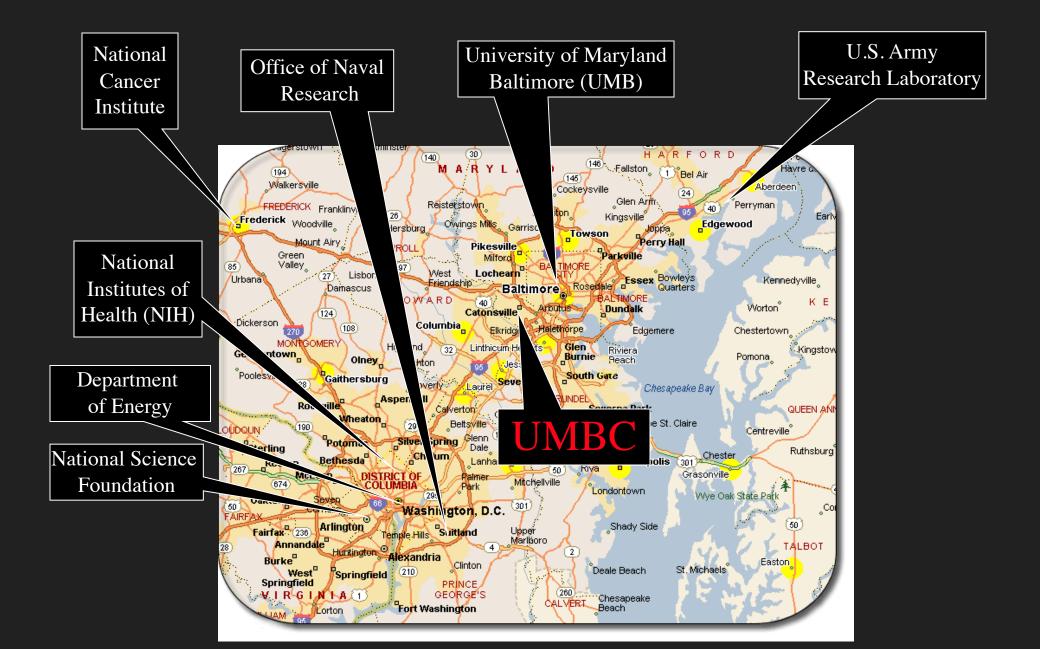
Chemistry and Biochemistry Virtual Open House



Where We Are?



Who Are We?

UMBC Chemistry and Biochemistry

- Medium Size Research University
- 18 Research Active Faculty
- ~ 60 graduate students
- Student-centric program
- Strong external research support and connections with NIH, NSF, DoD, DoE and other local institutions





What Does Mid-sized Mean for You?

 We are big enough to have internationally recognized research program and state-of-the-art and oneof-a-kind facilities



• Sufficiently small to maintain a close student-mentor relationship



Biochemistry

- Dr. Songon "Song" An
- Dr. Deepak Koirala
- Dr. Herana Kamal Seneviratne
- Dr. Aaron Smith
- Dr. Mike Summers

Analytical Chemistry

- Dr. Chengpeng Chen
- Dr. Brian Cullum
- Dr. Minjoung Kyoung
- Dr. William LaCourse
- Dr. Herana Kamal Seneviratne





- Organic Chemistry
 - Dr. Lisa Kelly
 - Dr. Marie-Christine Daniel-Onuta
 - Dr. Marcin Ptaszek
 - Dr. Katherine Seley-Radtke
 - Dr. Paul Smith

- Inorganic Chemistry
 - Dr. Joseph Bennett
 - Dr. Marie Christine Daniel-Onuta
 - Dr. Zeev Rosenzweig

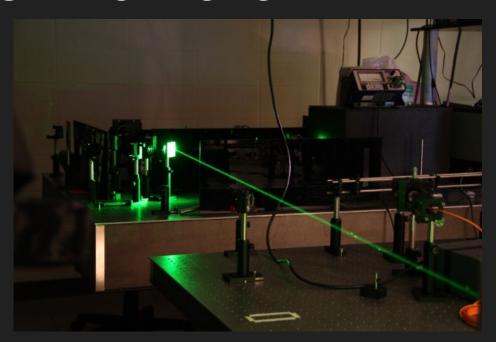


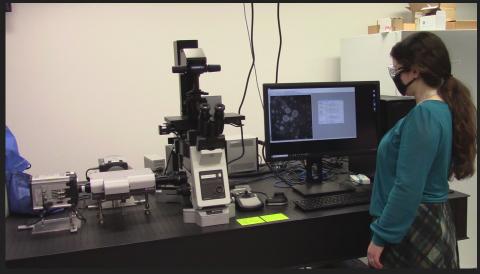


- Physical Chemistry
 - Dr. Bradley Arnold
 - Dr. Christopher Geddes
 - Dr. Lisa Kelly
 - Dr. Joel Liebman



- Dr. Joseph Bennett
- Dr. Joel Liebman





- Nanomaterials for biosensing and drug delivery
- Drug design and synthesis
- Drug metabolism
- Intracellular biochemistry
- RNA structure and functions
- 4D superresolution microscopy
- Bioinorganic chemistry
- Structural biology
- Microfluidics and 3D bioprinting
- Organic photonics for biosensing and solar energy conversion
- Computational material chemistry
- Ultrafast spectroscopy for determining photochemical mechanisms





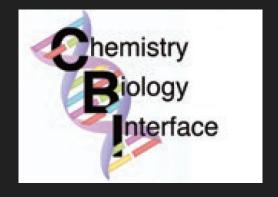
Numerous Affiliated Programs

- Chemistry-Biology Interface (CBI) Program
- Meyerhoff Graduate Program
- SCIART (Science/Art) Program
- Career Centers and Workshops
- Extensive Collaboration Opportunity with Academic, Government, and Industrial Partners









Chemistry/Biology Interface Graduate Program

- Cross-disciplinary studies in both Chemistry and Biology
- ➤ Ph.D. will be obtained in either Chemistry or Biology with additional focus in other discipline
- Opportunity to do cutting edge research with state-of-the-art equipment and an internationally known faculty
- Program benefits include:
 - ▶Research Assistantships
 - Biweekly seminars on topics at the Chemistry/Biology interface
 - ► Laboratory work in both Chemistry and Biology
 - ► Advanced coursework in both Chemistry and Biology
 - >Travel to National Conferences

G-RISE/Meyerhoff Graduate Training Program

- > Providing research experiences for underrepresented groups receiving a Ph.D. in biological sciences, biochemistry, chemistry, mechanical engineering, and psychology.
- ➤ Supported by the Minority Biomedical Research Support (MBRS) Branch of the National Institutes of Health (NIH) through the Initiative for Minority Student Development (IMSD) Program.
- > Program benefits include:
 - > All usual graduate program benefits + :
 - Monthly discussions & annual retreats
 - ✓ Community building & mentoring
 - Interaction within a diverse campus community



https://meyerhoffgrad.umbc.edu/

After Graduation.....

Our Alumni Find Top Jobs in Diverse Areas of Research and Business of Their Choice:

- Academia (Harvard, UCLA, Johns Hopkins, U. Cin, etc.)
- National Research Labs (NIH, NCI, ARL, NRL, DOE, JHUAPL, NASA, etc)
- Chemical Industry (ThermoFisher, Shimadzu Sci., Leidos, BASI)
- Pharmaceutical Industry (Astrazeneca, GlaxoSmith Kline, Latham BioPham, US Pharmacopeia, AmbioPharm, etc.)



