Cell & Molecular Biology

Take biological principles and expand on how they can be used for the betterment of humankind. CMB is the study of cells and the macromolecules (DNA, RNA, protein, lipids, carbohydrates) that define their structure and function. The B.S in CMB provides students with a solid foundation in cell biology, molecular biology, microbiology, biochemistry, and molecular genetics. Students can build careers that make meaningful contributions to global medical and environmental issues, biofuels, and the genetic engineering of crops for productivity and disease resistance.

Areas of Opportunity

- Research and development
- Biotechnology and biomedical
- Health service administration
- Social and economic development
- Quality analysis and quality assurance
- Medical field
- Biological agriculture engineering
- Public health surveillance
- Scientific journalism

Common Employers

- Private research foundations
- Universities and colleges
- Commercial and academic medical laboratories
- Public health departments
- National Institutes of Health
- Nonprofit organizations
- Federal and state government (USDA, Dept of Agriculture)

Professional Organizations

- AMP - Association for Molecular Pathology
- ASABE - The American Society of Agricultural and Biological Engineers
- ASBMB- American Society for Biochemistry and Molecular Biology
- ASCB - American Society of Cell Biology
- CDC - Centers for Disease Control and Prevention
- NIH- National Institutes of Health

Strategies on Entering the Field

- Develop excellent communication and interpersonal skills and demonstrate a high energy level.
- Acquire internships in federal or state government.
- Become skilled in the use of computers and laboratory equipment.
- Join related student organizations at your university.
- Maintain a high grade point average and faculty relationships for networking and potential graduate school applications.
- A master's degree is sufficient for teaching at some two year-institutions. Volunteer or intern in a healthcare setting such as a hospital, rehabilitation facility, pharmacy, etc. based on your interests.
- Obtain graduate or professional degree.

Created by: Center for Career and Experiential Education 2022
All information provided by: What Can I Do With This Major? and URI.