## CELL BIOLOGY AND MOLECULAR GENETICS

**College of Computer, Mathematical, & Natural Sciences**  
1109 Microbiology Building  
301-405-5435  
www.cbmg.umd.edu

The Department of Cell Biology and Molecular Genetics participates in the teaching and advising of students in the following Biological Sciences Program specialization areas:

- **Biological Sciences:** Cell Biology and Genetics (CEBG)  
- **Biological Sciences:** Microbiology (MICB)  
- **Biological Sciences:** General Biology (GENB) Last names that begin with the letters N through Z

Our courses are taught in four basic areas that represent faculty research interests and expertise including:

- Cell and Developmental Biology  
- Genetics and Genomics  
- Microbiology, Microbial Pathogenesis and Immunology  
- Plant Biology

The requirements for the Biological Sciences major can be found here (https://academiccatalog.umd.edu/undergraduate/colleges-schools/computer-mathematical-natural-sciences/biological-sciences/ #requirementstext).

### Admission to the Biological Sciences Program

Biological Sciences is a limited-enrollment program. Specific information about admission requirements for the major can be found at the following link: http://www.lep.umd.edu/cmns-lep.pdf.

### Faculty

**Chair:** J. Dinman (Chair)  
**Director:** D. Straney (Assoc. Prof)  
**Associate Professors:** V. Briken, K. Cao, A. Jose, V. Lee, S. Mount, R. Stewart, W. Winkler, L. Wu (IBBR)  
**Assistant Professors:** D. Dwyer, S. Roy, M. Scull  
**Senior Lecturer:** P. Shields, K. Frauworth  
**Lecturers:** J. Buchner, M. Keller, E. Moctezuma  
**Affiliate Professors:** M. Colombini (Biol), J. Culver (AGNR), I. Hamza (AGNR), W. Jeffery (Biol), I. Mather (ANGR), D. Perez (AGNR)  
**Affiliate Associate Professors:** I. Ades (Biol), D. Perez (AGNR), L. Pick (Ent), M. Pop (CBCB), L. Taneyhill (AGNR), S. Xiao (IBBR)  
**Affiliate Assistant Professor:** Y. Li (BSOS)  
**Adjunct Professors:** P. Hobart (USAMRIID), A. McBride (Adjunct Prof), B. Moss (NIH), V. Vakharia (UMBI), O. White (TIGR), R. Wickner (NIH)  
**Adjunct Associate Professors:** E. Freed (NCI), K. Green (NIH)  
**Professors Emeriti:** N. Allwell, T. Cook (Prof Emeritus), R. Doetsch, E. Gantt (Dist Univ Prof), F. Hetrick, S. Joseph, G. Patterson, M. Pelczar, J. Reveal, B. Roberson, R. Weiner, S. Wolniak (Prof Emeritus), R. Yuan

### Programs

#### Majors

- Biological Sciences (https://academiccatalog.umd.edu/undergraduate/colleges-schools/computer-mathematical-natural-sciences/biological-sciences/biological-sciences) (Cell Biology and Genetics-CEBG)  
- Biological Sciences (https://academiccatalog.umd.edu/undergraduate/colleges-schools/computer-mathematical-natural-sciences/biological-sciences/biological-sciences) (General Biology-GENB) Last names N-Z  
- Biological Sciences (https://academiccatalog.umd.edu/undergraduate/colleges-schools/computer-mathematical-natural-sciences/biological-sciences/biological-sciences) (Microbiology-MICB)

### Advising

Advising is mandatory for certain students (freshmen, change in major, GPA of 2.5 or below). The Department in coordination with the Student Affairs Office of the College of Chemical and Life Sciences administers the advising of students in the following Biological Sciences specialization areas:

- Biological Sciences: Microbiology (MICB)  
- Biological Sciences: Cell Biology and Genetics (CEBG)  
- Biological Sciences: General Biology (GENB) Last names that begin with the letters N through Z

Advising assignments can be found by contacting the Cell Biology and Molecular Genetics Undergraduate Program Office, 1109 Microbiology Building (301-405-2766).

For advising in other Biological Sciences Specialization areas, see the Biological Sciences Major (https://academiccatalog.umd.edu/undergraduate/colleges-schools/computer-mathematical-natural-sciences/biological-sciences/biological-sciences) listing in this catalog.

### Opportunities

#### Undergraduate Research Experiences

Students may participate in Department hosted research experiences in faculty laboratories or laboratories at off campus locations. Please contact the Cell Biology and Molecular Genetics Undergraduate Office (301-405-2766) for more information or see the site: http://bsci.umd.edu/under "Research and Internships". Specific courses in the department that offer credit for the research are described at: http://cbmg.umd.edu/undergraduate/undergrad-research/ Areas of research in the CBMG department are described at: http://cbmg.umd.edu/research-areas/ with listing of faculty and their research.

### Honors Program

The Departmental Honors Program involves a long term (three semester) independent research project undertaken with a faculty advisor. Students
register for BSCI378H (research) and BSCI379H (seminar) each semester. Admission is based upon GPA. Students must arrange the research opportunity prior to application. Please contact the Cell Biology and Molecular Genetics Undergraduate Office for more information or see the site: http://cbmg.umd.edu/undergraduate/undergrad-research/undergrad-honors/.

**Student Societies and Professional Organizations**
All students interested in microbiology are encouraged to join the University of Maryland Student Chapter of the American Society for Microbiology. Sigma Alpha Omicron is the honors chapter of this group. The groups meet regularly on campus. Information is available through the Undergraduate Program Office.

**Scholarships and Financial Assistance**
The Office of Student Financial Aid (OSFA) administers all types of federal, state and institutional financial assistance programs and, in cooperation with other university offices, participates in the awarding of scholarships to deserving students. For information, visit: www.financialaid.umd.edu

**Awards and Recognition**
The department recognizes graduating seniors with awards funded by generous donors. These are listed at http://cbmg.umd.edu/cbmg-home/scholarships-awards/.