HIGHLIGHTS

• BMB has experienced exceptional growth: the major is 2.7x the size it was ten years ago, growing by an average of 50 undergraduates each year for the past five years.
• Professor Li-Jun Ma has been awarded a five-year $880,000 National Science Foundation Faculty Early Career Development (CAREER) grant to develop new anti-fungal therapies.
• The donation of a plant cell library of more than 2,000 species enables university researchers and industry partners to search for novel natural compounds with possible applications from human health to biofuels.
• Distinguished Professor Lila Gierasch has been the editor-in-chief of the Journal of Biological Chemistry from ASBMB since July of 2016.
• Faculty awarded over $3.7M in funding for research in the areas of biomedicine and in plant growth and development from the National Institutes of Health, the National Science Foundation, the U.S. Department of Agriculture, and the Burroughs Wellcome Fund.

EDUCATION

• 707 undergraduates
• 48 percent of majors are on the Dean’s List.
• All BMB majors participate in authentic, course-based laboratory research.

DEGREES

• BA/BS
• Five-year BS/MS
• PhD (through interdisciplinary graduate programs: Molecular and Cellular Biology, Plant Biology, Neuroscience and Behavior, and Organismic and Evolutionary Biology)

STUDENT ORGANIZATION

• UMass Biochemistry Club is an undergraduate chapter of the American Society of Biochemistry and Molecular Biology (ASBMB).

UNDERGRADUATE ACHIEVEMENTS

BMB undergraduates have been recognized on campus and off:

• Goldwater Scholar
• American Society of Plant Biologists Summer Research Fellowship
• Harvard Medical School Summer Honors Research Program
• Howard Hughes Medical Institute Summer Research Internship
• Stem Ambassadors
• Rising Researcher (UMass Amherst)
• Provost’s Undergraduate Research Fellows (UMass Amherst)
• Leaders in the Making Award (UMass Amherst)
• 21st Century Leaders (UMass Amherst)
• Field Alumni Scholarship (UMass Amherst)
• iCons (UMass Amherst)
• Junior Fellows (CNS)
• CNS Leadership Committee
• Senior Leadership Award (BMB)

BY THE NUMBERS FY17

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<th>Category</th>
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<tr>
<td>Tenure-track faculty</td>
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RESEARCH AREAS

Protein folding/trafficking and associated diseases:
How proteins are made, delivered to proper cellular location, and folded into functional 3-dimensional structures; how defects in these processes lead to disease.

Mechanisms of cellular signal transduction:
How signaling and metabolic networks are integrated and regulated to allow for proper cellular function and organismal development.

Plant and Environmental Interactions for Food, Fuel and Drugs:
How plants, microbes, and the environment interact: plants and nitrogen-fixing bacteria, plants and fungal pathogens, plants and heat stress, and plant natural products that are potential pharmaceuticals or biofuels.