what is plant & microbial biosciences?

Researchers in PMB employ prokaryotes, eukaryotic microbes, mosses and vascular plants to address important questions about biological regulation and complexity relevant to all organisms.

Contact Information:

Program Directors:
Joseph Jez, Ph.D.
Petra Levin, Ph.D.

Program Coordinator:
Melissa Torres

http://dbbs.wustl.edu/divprograms/PlantMicroBioSci
To request information: dbbs-info@wustl.edu
## Recent Student Honors

- National Science Foundation Graduate Research Fellowship
- Kauffman Life Science Entrepreneur Fellowship
- McDonnell International Scholars Academy Fellowship
- Monsanto Graduate Excellence Award
- Spencer T. and Ann W. Olin Biomedical Research Fellow Award
- Washington University Imaging Sciences Pathway Fellowship
- American Society of Plant Biologists - Pioneer HiBred Graduate Fellowship
- American Society for Biochemistry and Molecular Biology Travel Award
- American Society of Plant Biologists Travel Award
- Banff Plant Metabolism Conference Travel Award
- Korea-US Science Cooperation Center Travel Award

## benefits

- Health, life and disability coverage are provided.
- Students in the Division enjoy access to all of Washington University’s educational, entertainment and recreational resources.
- The University’s MetroPass provides all students with free use of Metro-Link lightrail and Metro buses. MetroLink connects students to all Washington University campuses, Forest Park, Clayton, Lambert Airport and downtown.

## stipend and support

- Each student accepted into the Division is guaranteed a generous stipend and tuition is provided for the duration of training as long as all academic standards are upheld.
- Many students hold national fellowship awards, such as those offered by the National Science Foundation.
- Funds are provided for students to attend and participate in a scientific meeting.

DBBS celebrates diversity in all of its forms. We invite all students to apply, especially those from backgrounds historically underrepresented in the sciences such as African, Latin and Native Americans, those with disabilities and individuals from low-income backgrounds.

To learn more about diversity initiatives in DBBS please visit [http://dbbs.wustl.edu/divoutreach/Pages/DiversityOutreach.aspx](http://dbbs.wustl.edu/divoutreach/Pages/DiversityOutreach.aspx)

## program benefits

### typical schedule

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
<th>Third Year</th>
<th>Fourth Year &amp; Beyond</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Candidy</td>
<td>Qualifying Exam</td>
<td>Candidy</td>
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<tr>
<td>Research Rotations (3)</td>
<td>Thesis Research</td>
<td>Thesis Proposal</td>
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<tr>
<td>Required Courses</td>
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<tr>
<td>Modern Approaches in Plant &amp; Microbial Research</td>
<td>Nucleic Acids and Protein Biosynthesis</td>
<td>Experimental Design &amp; Analysis in Biological Research</td>
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<tr>
<td>Ethics and Research Science</td>
<td>Seminar in Plant &amp; Microbial Biology</td>
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<tr>
<td>Electives</td>
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<td>(6 credits needed)</td>
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<tr>
<td>How Plants Work: Plant Physiology, Growth &amp; Metabolism</td>
<td>Advanced Genetics</td>
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<tr>
<td>Fundamentals of Molecular Cell Biology</td>
<td>Developmental Biology</td>
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<tr>
<td>Molecular Microbiology &amp; Pathogenesis</td>
<td>Protein Analysis, Proteomics &amp; Protein Structure Lab</td>
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<tr>
<td>Bioenergy</td>
<td>Algae: Cell Biology and Molecular Evolution</td>
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<tr>
<td>Statistics for Medical and Public Health Researchers</td>
<td>Computational Molecular Biology</td>
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<tr>
<td>Metabolic Engineering and Synthetic Biology</td>
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### Teaching Assistantship
- (one semester)

### Journal Clubs and Seminars:
- Choice of several, including 1 required semester of Seminar in Plant and Microbial Biology

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**Admissions Information:**


September 1 - December 1

No Application Fee