BIOLOGICAL SCIENCES

Cornell University provides exciting opportunities for undergraduates interested in exploring and conducting research in almost every aspect of the biological sciences. The biological sciences major at Cornell University brings together faculty members from the College of Agriculture and Life Sciences, College of Arts and Sciences, College of Human Ecology, and the College of Veterinary Medicine. This collaborative effort reflects the program's extensive size and the diverse teaching and research interests of its faculty, evident in the offering of more than 380 biology courses and the flexible design of the undergraduate curriculum.

Biological sciences majors enroll in either the College of Agriculture and Life Sciences or the College of Arts and Sciences at Cornell University. Although the core coursework for the major is the same, students will need to fulfill distinct college requirements, leading to variations in the overall courses required to complete their degrees.

Based on individual goals, students shape their undergraduate journey within the biological sciences major by enrolling in one of the two colleges, adapting their core major requirements, and choosing one concentration from the thirteen possible options. Biological Sciences majors build a strong foundation in biology, chemistry, physics, and mathematics, progressing to advanced studies in genetics and biochemistry before delving into upper-level biology courses aligned with their chosen concentration. A significant proportion of biological sciences majors engage in research during their undergraduate tenure at Cornell. Students who want to graduate with honors must apply to the Honors Program in the biological sciences major by the end of their junior year, maintain a minimum cumulative GPA of 3.0, and produce a thesis based on original research conducted under the direct supervision of a Cornell faculty member.

The departments of Ecology & Evolutionary Biology (http://ecologyandevolution.cornell.edu/), Microbiology (https://cals.cornell.edu/microbiology/), Molecular Biology and Genetics (https://cals.cornell.edu/molecular-biology-genetics/), Neurobiology & Behavior (http://www.nbb.cornell.edu/), the Plant Biology (https://cals.cornell.edu/school-integrative-plant-science/school-sections/sips-plant-biology-section/) section of SIPS, and Biomedical Sciences (http://www.vet.cornell.edu/biosci/) participate in the major and minor, as does the Division of Nutritional Sciences (http://www.nutrition.cornell.edu/). Research and teaching in biology at Cornell is not limited to these departments, however: there are over 300 biology faculty on the Ithaca campus alone, with more at Weill Cornell Medicine.

Faculty members are actively engaged in research at the frontiers of the subjects they are teaching, creating intellectual excitement and vitality that give students a genuine feeling of participation in scholarly undertakings. In the classroom, undergraduates hear about important discoveries, and they are also encouraged to be directly involved in this discovery by pursuing an independent research project. Cornell undergraduates are exposed to a broad diversity of biological problems and challenged to use a variety of investigative approaches to develop solutions.

General Information

The biological sciences major provides a unified curriculum for undergraduates enrolled in either the College of Agriculture and Life Sciences or the College of Arts and Sciences. Courses in biological sciences are foundational and integral to many other disciplines and serve as basic requirements in several programs, departments, and colleges at Cornell.
Graduate study in the biological sciences is administered by specialized fields within the Graduate School, as described in the Fields of Study catalog.

Programs of Study

Major

- Biological Sciences Major (BA) (https://catalog.cornell.edu/programs/biological-sciences-ba/)
- Biological Sciences Major (BS) (https://catalog.cornell.edu/programs/biological-sciences-bs/)

Concentrations

As part of the biological sciences major requirements, all students must complete a concentration. The concentration provides students with the opportunity to specialize in a particular biological discipline or, in the case of the General Biology concentration, take upper-level courses from multiple areas in biology. Students choose one of the concentrations listed below:

- Animal Physiology
- Biochemistry
- Biodiversity and Systematics
- Computational Biology
- Ecology and Evolutionary Biology
- General Biology
- Genetics, Genomics and Development Human Nutrition
- Marine Biology
- Microbiology
- Molecular and Cell Biology
- Neurobiology and Behavior
- Plant Biology

Minor

Biological Sciences Minor (https://catalog.cornell.edu/programs/biological-sciences-minor/) (discontinued effective Fall 2021)

Shoals Marine Laboratory (SML)

Consult the Shoals Marine Laboratory website for current offerings: www.shoalsmarinelaboratory.org (https://www.shoalsmarinelaboratory.org).

Shoals Marine Laboratory is a teaching and research facility located on the Isles of Shoals archipelago in the Gulf of Maine. Each summer Shoals offers a variety of introductory and advanced courses, along with independent research opportunities, in basic biology, marine biology, marine science and natural resource management. The lab, which is run cooperatively by Cornell and the University of New Hampshire, has a national reputation for excellence, and is North America's largest marine field station focusing on undergraduate education. Appledore Island, home of SML, is noted for its marine and terrestrial biota sustainability program, and place in New England history. Students and faculty form a tight-knit community at Shoals, and can literally and figuratively immerse themselves in their academic explorations. Please refer to the Shoals Marine Laboratory section under Biological Sciences for a list of courses (BIOSM) offered. Students interested in marine biology should visit the

Shoals website and fill out an on-line inquiry form, or contact the Cornell Academic Coordinator listed on the staff page.

Cornell courses offered at SML are full-time and intense (most courses run for two weeks and award 3 Cornell credits). Courses fulfill Cornell major and concentration requirements (for example: BIOSM 1780 Evolution and Marine Diversity, BIOSM 1500 Investigative Marine Biology Laboratory and BIOSM 1610 Ecology and the Marine Environment). Students on Appledore Island come from all Cornell majors and colleges, and across the globe. A typical day combines lectures, laboratory and field work (in boats and on the shore). Field trips include investigations of nearby islands or habitats on the mainland, and collecting and research excursions aboard the laboratory's 47-foot research vessel, John M. Kingsbury, or the 36-foot research vessel, John B. Heiser. Paid research internship opportunities (marine biology, seabirds, marine education, historic garden interpretation and curation, and sustainable engineering) are also available. Field experience and practical hands-on learning in Appledore Island's intertidal and subtidal zones, and seabird colonies, is an integral part of the SML experience.

Special Academic Opportunities

Independent Research

Biological Sciences majors are encouraged to conduct research with Cornell faculty members. Students interested in beginning research should contact faculty members who have compatible research interests. View the OUB's "Find on-campus Research" to learn more about best practices for contacting faculty, and faculty research projects. Faculty members may consider the student's academic accomplishments, interests and career goals, and the availability of space and equipment when agreeing to supervise a student in their laboratory.

Students can receive academic credit via BIOG 2990 Introduction to Research Methods in Biology or BIOG 4990 Independent Undergraduate Research in Biology for conducting research that is biological in nature under the supervision and mentorship of Cornell faculty members based at the Ithaca campus. Students conducting research for the first time enroll in BIOG 2990 Introduction to Research Methods in Biology, an S–U course designed to introduce students to research. After conducting research for at least one semester or summer, students may enroll in BIOG 4990 - Independent Undergraduate Research in Biology. To enroll in BIOG 2990 Introduction to Research Methods in Biology or BIOG 4990 Independent Undergraduate Research in Biology students must submit an online enrollment form that will be sent to their faculty mentor for approval. Prior to submitting the enrollment form, students should meet with their mentor to discuss expectations for the semester. Students enrolling in BIOG 4990 Independent Undergraduate Research in Biology must also submit descriptions of their research projects, including the objectives, methods, and significance of the research. Students engaging in undergraduate research and participating in BIOG 2990 Introduction to Research Methods in Biology and BIOG 4990 Independent Undergraduate Research in Biology will be trained in diverse skills, and learning outcomes from each course may include several of the following:

BIOG 2990 Introduction to Research Methods in Biology

Students will be able to:

- Discuss the general research area with other lab members in a casual setting
- Discuss and/or apply methodology used in their field with accuracy and precision (with the assistance of a mentor)
- Generate reproducible results in the lab
- Discuss research questions, and/or hypotheses and predictions for that research question they are working on
- Understand the importance of correctly/Learning how to organize data effectively and maintain appropriate records (e.g., meta-data) such that their mentor can easily access
- Search the literature to become familiar with scientific studies related to their field of interest
- Read and discuss scientific literature relevant to their field

BIOG 4990 Independent Undergraduate Research in Biology

Students will be able to:

- Search the literature to become familiar with the existing body of work relevant to their research area
- Explain how their research fits into existing knowledge within that field of study, demonstrating understanding of "the big picture"
- As relevant, formulate or describe hypotheses and predictions for the research question they are working on
- Work collaboratively with other researchers – including their mentor – demonstrating effective, professional communication and problem-solving skills
- Apply appropriate procedures and technical skills to answer a research question with the guidance of a mentor
- Organize data effectively and maintain appropriate records (e.g., meta-data) such that their mentor can easily access these data and understand all components of data files
- Analyze & interpret data
- Explain their research project either verbally or in writing to multiple audiences including others in their field and a broader audience (educated, non-specialist)
- Practice iterative writing related to their research (for example, writing abstracts, research descriptions, or manuscript drafts with repeated revisions)
- Reflect on their research experience to identify personal strengths and opportunities for growth, and how the experience informs their future educational and career goals

Honors Program

The Biological Sciences Honors Program is designed to offer advanced training in research through the completion of an original research project under the direct guidance of a member of the Cornell faculty who acts as their honors supervisor. Biological Sciences majors planning on graduating with honors apply to the honors program in the summer after their junior year. Applications and information are available on the honors page (https://biology.cornell.edu/research/honors/) of the Office of Undergraduate Biology website. To qualify for the program, Arts & Sciences students must be in the Biological Sciences major. CALS students from other majors may apply as long as there is significant biological content in the research. Students must have completed at least 30 credits at Cornell or have junior standing as a transfer and have a cumulative Cornell grade point average (GPA) of at least 3.0. Students accepted into the honors program are required to attend honors meetings during their senior year, submit a honors thesis that is approved by the honors committee, maintain a 3.0 Cornell cumulative GPA through graduation, and give a public presentation of their research. The Biological Sciences Honors Committee formally accepts the thesis

and awards the level of honors. Arts & Sciences students' honors levels are determined by students' cumulative GPA after their penultimate semester and CALS students' honors levels are determined as indicated on the CALS honors website (https://cals.cornell.edu/undergraduate-students/student-research/research-honors-program/).

Students interested in the honors program are strongly encouraged to begin their research projects in their junior year and often spend the following summer at Cornell engaged in full-time research on their thesis project.

It is possible to study abroad and successfully complete the honors program. Students are encouraged to meet with their academic and research advisor during their sophomore year to carefully plan their academic and lab schedule to meet the requirements of the honors program.

Application forms, deadlines, and details about the program can be found on the honors page (https://biology.cornell.edu/research/honors/) of the Office of Undergraduate Biology website.

Policies and Procedures

Admission

If you want to major in biological sciences at Cornell, apply to either the College of Arts and Sciences (http://as.cornell.edu/admissions/) or the College of Agriculture and Life Sciences (http://admissions.cals.cornell.edu/). Since courses, concentrations, research opportunities, major advising services, and requirements for the biological sciences major are the same in both colleges, we advise you to make your college choice according to your secondary interests. It's the non-biology course options and requirements that vary from college to college. Students should spend time visiting both college websites to learn more about their respective academic offerings beyond biology.

Admission to the major after matriculation generally requires:

- being in good standing with your college;
- passing two or more required biology courses with a C or better;
- and presenting a reasonable plan to satisfactorily complete the major by your expected graduation date.

For specific requirements and eligibility, we encourage students to review The Office of Undergraduate Biology Admissions page (https://cals.cornell.edu/biological-sciences/admission-biological-sciences-major/).

***Students who externally transferred to Cornell and are interested in applying for Internal Transfer to the Biological Sciences major or adding as a double major will only be considered if they were admissible to the major in accordance with transfer admissions criteria for biological sciences at the time of matriculation to Cornell.

Advising

The Office of Undergraduate Biology (OUB), 216 Stimson Hall, biology.cornell.edu (https://biology.cornell.edu/), staff provides academic, personal and career advising and supports student success through a multi-dimensional, developmental approach. OUB and faculty advisors complement one another to foster intellectual curiosity and help students understand the goals and requirements of the biological sciences major. OUB staff provide services, develop programs, and utilize technology to support holistic development and well-being. The staff assists students in exploring undergraduate curricular, co-curricular, and extra-curricular opportunities as well as the diverse career paths available to our graduates. In collaboration with faculty advisors and university colleagues, OUB staff teach and empower students to utilize resources and to become self-regulated learners who think critically about and take responsibility for their educational experience and career aspirations.

Students interested in marine biology are encouraged to visit the Shoals Marine Laboratory website (http://www.shoalsmarinelaboratory.org/) and contact the Cornell Academic Coordinator listed on the staff page. Students interested in other biology-related majors should visit the appropriate advising office: Biology & Society (http://sts.cornell.edu/bio-society/), HBHS (https://www.human.cornell.edu/dns/academics/undergraduate/hbhsmajor/), BEE (https://bee.cals.cornell.edu/), BME (https://www.bme.cornell.edu/), E&S (https://cals.cornell.edu/education/degrees-programs/environment-sustainability-major-and-minor/), Animal Science (https://ansci.cals.cornell.edu/), Nutritional Sciences (https://www.human.cornell.edu/dns/academics/undergraduate/), Global & Public Health (https://www.human.cornell.edu/dns/academics/undergraduate/gphsmajor/), Human Development (https://www.human.cornell.edu/hd/).

Curriculum Committee

Decisions about the curriculum are made by the Biology Curriculum Committee. The committee meets monthly, consists of the Directors of Undergraduate Study (https://biology.cornell.edu/about/directors-undergraduate-study/) for the concentrations, and welcomes advice and suggestions from all interested parties. The committee is chaired by the Hays and James M. Clark Director Office of Undergraduate Biology who can be reached via the Office of Undergraduate Biology website (http://biology.cornell.edu/).

Forbidden Overlaps

Because the department offers many courses with overlapping content, students must choose their courses carefully to ensure that they will receive credit for each course they take. Listed below are courses that have similar content or forbidden overlap. Students will receive credit for only one of the courses (or course sequences) in each group:

Code	Title	Hours
Group A		
BIOG 1440	Introductory Biology: Comparative Physiology	3
BIOG 1445	Introduction to Comparative Anatomy and Physiology, Individualized Instruction	4
Group B		
BIOMG 3300	Principles of Biochemistry, Individualized Instruction	4
BIOMG 3310	Principles of Biochemistry: Proteins and Metabolism	3
BIOMG 3320	Principles of Biochemistry: Molecular Biology	2
BIOMG 3350	Principles of Biochemistry: Proteins, Metabolism, and Molecular Biology	4
NS 3200	Introduction to Human Biochemistry	4
Group C		
BIOG 1500	Investigative Biology Laboratory	2
BIOSM 1500	Investigative Marine Biology Laboratory	3
Group D		
BIOEE 1540	Introductory Oceanography	3
BIOEE 1560	Introductory Oceanography with Laboratory	4
Group E		

BIOMG 2800	Lectures in Genetics and Genomics	3
NTRES 2830	DNA, Genes and Genetic Diversity	4
Group F		
BIOEE 1780	An Introduction to Evolutionary Biology and Diversity	4-5
BIOSM 1780	Evolution and Marine Diversity	4
BIOEE 1781	Introduction to Evolution and Diversity	4
Group G		
BIOMI 2500	Public Health Microbiology	3
BIOMI 2600	Microbiology of Human Contagious Diseases	3
Group H		
BIOEE 1610	Introductory Biology: Ecology and the Environment	3-4
BIOSM 1610	Ecology and the Marine Environment	3

Organization

The departments of Ecology & Evolutionary Biology (http://ecologyandevolution.cornell.edu/), Entomology (http://www.entomology.cornell.edu/), Microbiology (http://www.micro.cornell.edu/), Molecular Biology and Genetics (http://www.mbg.cornell.edu/), Neurobiology & Behavior (http://www.nbb.cornell.edu/), the Plant Biology (http://www.plantbio.cornell.edu/) section of SIPS, and Biomedical Sciences (http://www.vet.cornell.edu/biosci/) participate in the major, as does the Division of Nutritional Sciences (http://www.nutrition.cornell.edu/). Research and teaching in biology at Cornell is not limited to these departments, however. there are over 300 biology faculty on the Ithaca campus alone, with more at Weill Cornell Medicine.

The Office of Undergraduate Biology (OUB) is located at 216 Stimson Hall (607-255-5233, bioadvising@cornell.edu), biology.cornell.edu (https://cals.cornell.edu/biological-sciences/). The OUB provides comprehensive, academic, career, and research advising to current and prospective biological sciences majors and minors, as well as alumni and faculty. Our primary mission is to serve the diverse needs of our majors as they navigate the curriculum and achieve their academic and career aspirations.

The Shoals Marine Laboratory, a cooperative venture with the University of New Hampshire, is located on Appledore Island in the Gulf of Maine. Shoals Marine Laboratory provides academic advising for students interested in marine sciences and in SML programs: both short-term courses and semester plans.

Please visit the Shoals Marine Laboratory website (http://www.shoalsmarinelaboratory.org/) and contact the Cornell Academic Coordinator listed on the staff page.

Study Abroad

Cornell biological sciences majors study all over the world. Students can plan a study abroad experience (even if they are pre-med or pre-grad) as long as they plan early. Students can count up to two courses taken abroad toward the major with appropriate approval. To count a course toward a concentration, students must get their faculty advisor's approval. For approval of any other biological sciences major requirement, or other questions, please contact the OUB.

Visit the Office of Global Learning (https://globallearning.cornell.edu/) in B50 Caldwell Hall to explore opportunities in different countries and regions, review evaluations from students who've been abroad, discuss financial aid, and connect with staff who can answer your questions.

Transferring Credit

Once matriculated, biological sciences majors are required to complete all core biology courses (introductory cluster courses, biochemistry, evolution, genetics) and concentration courses at Cornell or during an approved Study Abroad semester. Exceptions in specific situations may be petitioned via the biological sciences petition process. Other courses must be approved by the respective department at Cornell and the student's home college.

External transfer students can generally apply **one transfer course** toward the following (Evolution, Genetics, Genetics Lab, or Biochemistry) and **one advanced course of up to 3 credits** toward a concentration. A student can also count two courses towards (Evolution, Genetics, Genetics Lab, or Biochemistry) or two advanced courses towards a concentration.

Students must obtain approval from the Office of Undergraduate Biology to receive credit for biology courses taken during an approved Study Abroad semester (see section above). Students can count up to two study abroad courses toward major requirements.

Use of Animals in the Biological Sciences Curriculum

Live animals may be used for teaching in certain courses in the biological sciences. Some animals will require humane euthanasia after they have been used for teaching. From the Cornell Center for Animal Resources and Education (CARE (https://ras.research.cornell.edu/care/humane_care.html)), "Cornell University regards the study of animals in teaching and research as essential to continued progress in science, medicine, agriculture, and education. When animal use is necessary, we maintain the highest ethical standards for their use and care." All Cornell faculty members, postdoctoral fellows, graduate students, undergraduates, and research personnel involved in the care and use of animals in teaching and research are required to familiarize themselves with and to follow Cornell Policy 1.4 Care and Use of Live Vertebrate Animals in Research and Teaching (https://policy.cornell.edu/sites/default/files/policy/vol1_4.pdf). Any student concerns regarding the use of animals in teaching should first be addressed with the faculty member responsible for the course.

Faculty

College of Agriculture and Life Sciences & Biological Sciences

Adler, Kraig K., Ph.D., U. of Michigan. Prof. Emeritus, Neurobiology and Behavior

Agrawal, Anurag, Ph.D., U. of California, Davis. James A. Perkins Professor of Environmental Studies, Ecology and Evolutionary Biology/Entomology

Alani, Eric E., Ph.D., Harvard U. Prof., Molecular Biology and Genetics

Angert, Esther R., Ph.D., Indiana U. Prof., Microbiology

Barbash, Daniel A., Ph.D., U. of California, Berkeley. Prof., Molecular Biology and Genetics

Bemis, William E., Ph.D., U. of California, Berkeley. Prof., Ecology and Evolutionary Biology

Bentolila, Stephane, Ph.D., Université Claude Bernard-Lyon I, Associate Research Professor, Molecular Biology and Genetics

Bruns, Peter J., Ph.D., U. of Illinois. Prof. Emeritus, Molecular Biology and Genetics

Buchon, Nicolas, Ph.D., Universite d´ Auvergne Clermont I, France. Assoc. Prof., Entomology

Burton, Aisha T. Ph.D., Indiana U. Assistant Research Professor, Microbiology

Calvo, Joseph M., Ph.D., Washington State U. William T. Keeton Prof. Emeritus, Molecular Biology and Genetics

Chabot, Brian F., Ph.D., Duke U. Prof. Emeritus, Ecology and Evolutionary Biology

Chery, Joyce G., Ph.D., U. of California at Berkeley, Asst. Prof., Plant Biology Section, School of Integrative Plant Science (Bailey Hortorium)

Clayton, Roderick K., Ph.D., California Inst. of Technology. Prof. Emeritus, Plant Biology Section, School of Integrative Plant Science

Crepet, William L., Ph.D., Yale U. Prof., Plant Biology Section, Bailey Hortorium, School of Integrative Plant Science (Bailey Hortorium)

Crickard, Brooks, Ph.D., Pennsylvania State U., Asst. Prof., Molecular Biology and Genetics

Danforth, Bryan N., Ph.D., U. of Kansas. Prof., Entomology

Davies, Peter J., Ph.D., U. of Reading (UK). Prof. Emeritus, Plant Biology Section, School of Integrative Plant Science

Davis, Jerrold I., Ph.D., U. of Washington. Prof. Emeritus, Plant Biology Section, School of Integrative Plant Science (Bailey Hortorium)

Dhondt, André A., Ph.D., Ghent State U. (Belgium). Edwin H. Morgens Professor of Ornithology, Ecology and Evolutionary Biology/Laboratory of Ornithology

Dörr, Tobias, Ph.D., Northeastern University. Asst Professor, Department of Microbiology

Doyle, Jeffrey J., Ph.D., Indiana U. Prof., Plant Breeding and Genetics Section/Plant Biology Section, Bailey Hortorium, School of Integrative Plant Science

Ellwood, Ian T., Ph.D., Massachusetts Institute of Technology. Asst. Prof., Neurobiology and Behavior

Feaga, Heather A. Ph.D., Pennsylvania State University. Asst. Prof., Microbiology

Feeny, Paul P., Ph.D., Oxford U. (UK). Prof. Emeritus, Ecology and Evolutionary Biology

Fernandez-Ruiz, Antonio., Ph.D., Complutense U. of Madrid. Asst. Prof., Neurobiology and Behavior

Feschotte, Cedric, Ph.D., Université Pierre & Marie Curie, Prof. Molecular Biology and Genetics

Fitzpatrick, John W., Ph.D., Princeton U. Prof., Ecology and Evolutionary Biology/Laboratory of Ornithology

Flecker, Alexander S., Ph.D., U. of Maryland. Prof., Ecology and Evolutionary Biology

Fox, Thomas D., Ph.D., Harvard U. Prof., Molecular Biology and Genetics

Frank, Margaret. Ph.D., Cornell U. Asst. Prof., Plant Biology Section, School of Integrative Plant Science

Fromme, Joseph C., Ph.D., Harvard U. Prof., Molecular Biology and Genetics

Gallagher, Kelley, Ph.D., U of California, San Diego. Asst. Prof., Microbiology

Gandolfo, Maria A., Ph.D., Univ. de Buenos Aires (Argentina), Assoc. Prof., Plant Biology Section, Bailey Hortorium, School of Integrative Plant Science

Gilbert, Cole, Ph.D., U. of Kansas. Prof., Entomology

Goldberg, Michael L., Ph.D., Stanford U. Prof. Emeritus, Molecular Biology and Genetics

Gordon, Swanne., Ph.D., U. of California Riverside. Asst. Prof., Ecology and Evolutionary Biology

Graef, Martin, Ph. D., University of Cologne, Asst. Prof., Molecular Biology and Genetics

Greischar, Megan A., Ph.D., The Pennsylvania State U. Asst. Prof., Ecology and Evolutionary Biology

Gunn, Laura, Ph.D., Australian National University., Asst. Prof., Plant Biology Section, School of Integrative Plant Science

Hajek, Ann, Ph.D., U. of California, Berkeley, Prof., Entomology

Han, Chun, Ph.D., College of Medicine, U. of Cincinnati. Assoc. Prof., Molecular Biology and Genetics

Hanson, Maureen R., Ph.D., Harvard U. Prof., Molecular Biology and Genetics/Liberty Hyde. Prof., Plant Biology Section, School of Integrative Plant Science

Harrington, Laura, Ph.D., U. of Massachusetts. Prof., Entomology

Harris-Warrick, Ronald M., Ph.D., Stanford U. Prof., Neurobiology and Behavior

Harvell, C. Drew, Ph.D., U. of Washington. Prof. Emeritus, Ecology and Evolutionary Biology

Hay, Anthony, Ph.D., U. of California. Assoc. Prof., Microbiology

Helmann, John D., Ph.D., U. of California, Berkeley. Prof., Microbiology

Hendry, Tory A., Ph.D., U. of Michigan, Asst. Prof., Microbiology

Hewson, Ian, Ph.D., U. of S. California. Prof., Microbiology

Holgerson, Meredith A., Ph.D., Yale U. Asst. Prof., Ecology and Evolutionary Biology

Houlton, Benjamin Z., Ph.D., Princeton U. Prof., Ecology and Evolutionary Biology

Howarth, Robert W., Ph.D., Massachusetts Inst. of Technology/Woods Hole Oceanographic Institution. David R. Atkinson Prof. of Ecology and Environmental Biology, Ecology and Evolutionary Biology

Hu, Fenghua, Ph.D., Baylor College of Medicine, Assoc. Prof. Molecular Biology and Genetics

Hua, Jian, Ph.D., California Inst. of Technology. Assoc. Prof., Plant Biology Section, School of Integrative Plant Science

Ingram, John W., Ph.D., U. of California, Berkeley. Prof. Emeritus, Plant Biology Section, School of Integrative Plant Science (Bailey Hortorium)

Kemphues, Kenneth J., Ph.D., Indiana U. Prof. Emeritus, Molecular Biology and Genetics

Kessler, André, Ph.D., Max Planck Inst. for Chemical Ecology/Friedrich Schiller U. of Jena (Germany). Prof., Ecology and Evolutionary Biology/ Boyce Thompson Inst. for Plant Research

Kim, Jaehee, Ph.D., Stanford, Asst. Prof., Computational Biology

Kingsbury, John M., Ph.D., Harvard U. Prof. Emeritus, Plant Biology Section, School of Integrative Plant Science

Lis, John T., Ph.D., Brandeis U. Barbara McClintock Professor of Molecular Biology and Genetics

Lodge, David M. Ph.D., U. of Oxford (UK). Prof., Ecology and Evolutionary Biology

Loeb, Greg, Ph.D., U. of California, Davis. Prof., Entomology

Lopez-Sepulcre, Andre, Ph.D., U. of Jyväskylä, Finland. Prof., Ecology and Evolutionary Biology

Losey, John, Ph.D., U. of Maryland. Prof., Entomology

Lovette, Irby J., Ph.D., U. of Pennsylvania. Fuller Professor of Ornithology, Ecology and Evolutionary Biology/Laboratory of Ornithology

MacIntyre, Ross J., Ph.D., Johns Hopkins U. Prof. Emeritus, Molecular Biology and Genetics

Markenscoff-Papadimitriou, Eirene C., Ph.D., U. of California, San Francisco, Asst. Prof., Molecular Biology and Genetics

Marks, Peter L., Ph.D., Yale U. Prof. Emeritus, Ecology and Evolutionary Biology

McCune, Amy R., Ph.D., Yale U. Prof. Emeritus , Ecology and Evolutionary Biology

Moeller, Andrew H., Ph.D., Yale U. Asst. Prof., Ecology and Evolutionary Biology

Moghe, Gaurav, Ph.D., Michigan State, Asst. Prof., Plant Biology Section, School of Integrative Plant Science

Morin, James G., Ph.D., Harvard U. Prof. Emeritus, Ecology and Evolutionary Biology

Murdock, Courtney, Ph.D., U. of Michigan. Assoc. Prof., Entomology

Nasrallah, June B., Ph.D., Cornell U. Prof., Plant Biology Section, School of Integrative Plant Science

Nasrallah, Mikhail E., Ph.D., Cornell U. Prof. Emeritus, Plant Biology Section, School of Integrative Plant Science

Niklas, Karl J., Ph.D., U. of Illinois. Prof. Emeritus, Plant Biology Section, School of Integrative Plant Science

Nisbett, Lisa-Marie, Ph.D., Stony Brook U., Asst. Research Prof., Microbiology

Nixon, Kevin C., Ph.D., U. of Texas, Austin. Prof., Plant Biology Section, School of Integrative Plant Science (Bailey Hortorium)

O'Grady, Patrick, Ph.D., U. of Arizona. Prof. Entomology

Oliva, Azahara., Ph.D., U. of Szeged, Hungary. Asst. Prof., Neurobiology and Behavior

Owens, Ian, Ph.D., U. of Leicester. Ecology and Evolutionary Biology, Laboratory of Ornithology

Owens, Thomas G., Ph.D., Cornell U. Assoc. Prof. Emeritus, Plant Biology Section, School of Integrative Plant Science

Paolillo, Dominick J., Jr., Ph.D., U. of California, Davis. Prof. Emeritus, Plant Biology Section, School of Integrative Plant Science

Pawlowski, Wojtek., Ph.D., U. of Minnesota, Prof., Plant Biology Section, School of Integrative Plant Science (Bailey Hortorium)

Parthasarathy, Mandayam V., Ph.D., Cornell U. Prof. Emeritus, Plant Biology Section, School of Integrative Plant Science

Peters, Joseph, Ph.D., U. of Maryland. Prof., Microbiology

Poveda, Katja, Ph.D., Georg-August U. (Germany). Assoc. Prof., Entomology

Raguso, Robert A., Ph.D., U. of Michigan. Prof., Neurobiology and Behavior

Rayor, Linda, Ph.D., U. of Kansas. Sr. Res. Assoc., Entomology

Reed, Robert D., Ph.D., U. of Arizona. Prof., Ecology and Evolutionary Biology

Reeve, H. Kern, Ph.D., Cornell U. Prof., Neurobiology and Behavior

Roberts, Jeffrey W., Ph.D., Harvard U. Robert J. Appel Prof., Emeritus, Cellular and Molecular Biology, Molecular Biology and Genetics

Rodriguez, Eloy, Ph.D., U. of Texas. Prof., Plant Biology Section, School of Integrative Plant Science (Bailey Hortorium)

Roeder, Adrienne, Ph.D., U. of California, San Diego. Assoc. Prof., Plant Biology Section, School of Integrative Plant Science

Rose, Jocelyn, Ph.D., U. of California, Davis. Prof., Plant Biology Section, School of Integrative Plant Science

Sanderson, John, Ph.D., U. of California, Riverside. Assoc. Prof., Entomology

Scanlon, Michael, Ph.D., Iowa State U. Prof., Plant Biology Section, School of Integrative Plant Science

Schmidt, Marian, Ph.D., U. of Michigan, Asst. Prof., Microbiology

Scott, Jeffrey G., Ph.D., U. of California, Riverside. Prof., Entomology

Schwarz, Eric, Ph. D., California Institute of Technology, Assistant Research Professor, Molecular Biology and Genetics

Searle, Jeremy B., Ph.D., U. of Aberdeen (UK). Prof. Emeritus , Ecology and Evolutionary Biology

Sedigh-Sarvestani, Madineh, Ph.D., Penn State U., Asst. Prof., Neurobiology and Behavior

Shalloway, David I., Ph.D., Massachusetts Inst. of Technology. Prof. Emeritus, Molecular Biology and Genetics

Shapleigh, James P., Ph.D., U. of Georgia. Assoc. Prof. Emeritus, Microbiology

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