The Graduate Program in Neuroscience is dedicated to providing a center of excellence for the training of outstanding graduate students in the field of Neuroscience. Our Graduate Program is an interdisciplinary program of study leading to a Ph.D. degree in Neuroscience. We look to prepare the next generation of scientists who will advance our understanding of the brain/nervous system. We have more than 100 neuroscientists who investigate a wide range of research interests, at levels ranging from ion channels to complex subsystems of the mammalian brain, from single cells to regulation of behavior, from the genome to the clinic.

The required core curriculum includes an introductory course in molecular and cell biology and biochemistry, and specialty courses in neuroscience, synaptic physiology, biostatistics and hypothesis testing. Electives offer additional advanced courses in their particular areas of interest. Our Ph.D. students earn a competitive stipend that is guaranteed for the duration of their studies. After completing their degree, they are highly sought after and routinely appointed as postdoctoral fellows at prestigious institutions. MD/PhD graduates have been awarded highly competitive residencies at top teaching hospitals.

Our program enhances interaction among our internationally renowned faculty, and enables graduate students to take advantage of the full depth and breadth of neuroscience research conducted at our university. Interaction with faculty members happens through laboratory rotations, a variety of journal clubs, seminars, and professors rounds. Our curriculum puts an emphasis on critical thinking skills through innovative courses. Coursework is completed and students are doing research in their thesis laboratories within 18 months of starting the program and are encouraged to write and submit individual grants to federal and private funding agencies.

Optical imaging of intrinsic signals—visual cortex of a mouse responding to a bar of light moving across different regions of its visual receptive field.

Neuron from the hippocampus with a fluorescent protein highlighting its dendritic spines.
A group of students, postdoctoral fellows and faculty members go to area schools and teach students about neuroscience during Brain Awareness Week.

The University of Maryland, Baltimore campus is located in the heart of historic downtown Baltimore, offering all the amenities of city life while maintaining easy access to the countryside and the irresistible appeal of the Chesapeake Bay.

Visit our website:  
http://lifesciences.umaryland.edu/neuroscience/

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