APPLICATIONS/SELECTION

The IMPRS for Brain and Behavior accepts new students once a year. Applications from all countries are encouraged. Students with a Diploma or Master’s or equivalent degree can apply.

Exceptional candidates, first identified based on their online application materials, will be invited to attend a selection symposium which provides candidates with the opportunity to meet with faculty who have positions available and members of the selection committee.

To apply, or for more information visit: www.imprs-brain-behavior.mpg.de

For more information about IMPRS or the Max Planck Society see: www.mpg.de/en

WANT TO JOIN US?
Scan to find the latest information about IMPRS for Brain and Behavior.

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PARTNER INSTITUTIONS

www.imprs-brain-behavior.mpg.de
PROGRAM OVERVIEW

The first of its kind to unite two Max Planck Institutes on both sides of the Atlantic, and their university partners: the International Max Planck Research School (IMPRS) for Brain and Behavior offers a competitive world-class Ph.D. training and research program in the neurosciences.

Overall our research programs address how sensory information is encoded in neural circuits and is transformed ultimately to behavior. This research ranges from understanding molecular signaling cascades in spines during learning to understanding how sensory and motor circuits are activated in the awake behaving animal.

Students admitted to this IMPRS program will be trained in a large range of cutting-edge techniques which are currently instrumental in the quest for understanding brain circuit function in the whole animal and its role in defining behavior. Our mission is to equip students graduating from this program with an exceptional level of knowledge and skills that will form the basis of a successful career in neuroscience.

RESEARCH AREAS

- Neuronal circuits and behavior
- Mammalian sensory processing
- Biophysics of neurons and glia
- Nervous system development
- Learning and memory
- Molecular signaling in neurons
- Disorders of the nervous system

TECHNIQUES

- In vivo multiphoton imaging
- In vivo electrophysiology (whole-cell and extracellular)
- Free behavior
- Imaging protein function in vivo
- Technique development
- Advanced computational and statistical techniques
- Standard neuroscience techniques

CURRICULUM

IMPRS for Brain and Behavior curriculum comprises of both theoretical and hands-on training in advanced neuroscience techniques. Students take courses and attend scientific symposia at the partner institutions in Bonn, Germany and Florida, USA, with expenses covered—thereby exposing students to an exceptionally broad group of international scientists.

The thesis research project undertaken in an IMPRS research group is the program cornerstone. The doctoral thesis is expected to represent a major piece of independent, interdisciplinary research. Students are further supported in their research work by a thesis committee, a mentoring program, and other comprehensive measures for early career development. Introducing students to a scientific culture of interaction and cooperation is a major goal of this IMPRS, and is achieved via regular retreats, student conferences and social events.

DEGREES CONFERRED

Students may enroll in the Faculty of Medicine, University of Bonn for a Ph.D. in Neuroscience; the Faculty of Mathematics and Natural Sciences, University of Bonn for a Dr. rer. nat. degree; or in the Integrative Biology Program, College of Science of Florida Atlantic University for a Ph.D. degree.