Areas of Emphasis

There are 20 faculty involved in the program. Their work covers a wide range of fields in Neurobiology, including molecular, cellular, and behavioral biology. The broad areas of research emphases at UTSA are:

- CNS Patterning and Cell Fate
- Cognitive Processing in Bilinguals
- Physiology and Biochemistry of Learning and Memory
- Age-related and Pathological Neurodegeneration
- Mechanisms of Reward and Addiction in Dopamine Neurons
- Mathematical Theory of Neurons and Nervous Systems
- Striatal and Hypothalamic Oscillators
About the Program

UTSA offers a PhD in Neurobiology with an interdisciplinary program for graduate training that is built on the principle that research science is best mastered in the laboratory. Our program prepares students for careers in academic and research science by emphasizing training in the experimental skills required to formulate and tackle problems in brain science. Our diverse and rigorous faculty research programs provide extensive opportunity for training and focus in research areas covering the entire range of interdisciplinary neuroscience, i.e., molecular, cellular, systems, behavioral, computational, and cognitive neuroscience.

Facilities

UTSA’s Doctoral program in Neurobiology offers an outstanding opportunity for graduate training in an exceptionally interactive and collaborative environment. Students receive training in state-of-the-art laboratories that are utilizing innovative technologies including human event related potentials, dynamic clamp electrophysiology, in vivo optogenetics, micro-computer tomography, inducible genetic mutants, and dynamical systems analysis of neurons. Available facilities include instrumentation and training analysis cores in proteomics, confocal imaging, and 2-photon excitation microscopy. The nearby Research Imaging Institute at the UT Health Sciences Center provides additional facilities for human cognitive studies including functional Magnetic Resonance Imaging (fMRI), Positron Emission Spectroscopy (PET) and Transcranial Magnetic Stimulation (TMS).

Financial Support

UTSA Neurobiology PhD students receive financial support for the duration of their PhD, including tuition and a competitive stipend. Support is made possible through a combination of UTSA funds, federal grants to faculty members, and teaching assistantships. Eligible students should apply for training grants via NIH-funded Minority Biomedical Research Support Program, which supports stipend, tuition and fees, health insurance, and travel to scientific meetings. See http://www.utsa.edu/mbrs for details.

How to Apply

Applications for admission, inclusive of all supporting documentation, must be received by February 1 for acceptance to the Fall incoming class. Applications are accessed and submitted online at http://graduateschool.utsa.edu/graduate-admissions/graduate-application. A complete application should contain:

- The application form
- Official transcripts
- 3 letters of recommendation from persons of professional rank
- GRE scores
- TOEFL scores (if applicable)
- A recent resume
- A statement of research experience and interest

UTSA is an equal opportunity institution. Women, minorities and residents of South Texas are encouraged to apply.

For more information, contact:

Karla Kidd
Neurobiology PhD Program Administrator
(210) 458-6568
neurobiology@utsa.edu
http://utsa.edu/biology

For information about Neuroscience at UTSA, Visit the UTSA Neurosciences Institute online: http://neuroscience.utsa.edu