Molecular Neurobiotechnology Core Facility

The Molecular Neurobiotechnology Core Facility at Tulane and Louisiana State University was established to investigate a broad array of molecular mechanisms within the field of neuroscience. This facility provides the infrastructure for investigators interested in molecular neuroscience to exchange ideas, establish new collaborations, and produce research.

Equipment (cont.):

Beckman Biomek 2000 liquid handling station - for high throughput put nucleic acid purification, ELISA, and PCR set-up

BLS-2 Tissue Culture Facility - for tissue culture and recombinant viral production

Molecular Neurobiotechnology Core Facility

Faculty:
Jeff G. Tasker, Ph.D. - Co-director
   Email: tasker@tulane.edu
Bret N. Smith, Ph.D. - Co-director
   Email: bnsmith@tulane.edu
Staff:
Thomas C. Stuart Ph.D. - Associate director
   Email: tstuart1@tulane.edu

6400 Freret St.
1000 Percival Stern Hall
New Orleans, LA 70118
Phone: 504-862-8199
Goals

Excellence in the field of neuroscience research is an established tradition at Tulane and Louisiana State Universities. The Molecular Neurobiotechnology Core Facility provides the infrastructure for the neuroscience community to investigate molecular regulatory mechanisms that control various neural processes. By offering investigators the support mechanism to add molecular biology techniques to their laboratories, the power of molecular biology can be leveraged to further the pursuit of understanding how the brain functions.

Funding

The facility was funded by a generous grant from the State of Louisiana as a part of the Louisiana Neurobiotechnology Initiative, and is located on the uptown campus of Tulane University. It has one permanent staff member, and numerous graduate students, postdoctoral, and faculty affiliates.

Services and Training

- Real-time PCR
- Recombinant Viral Design/Production

Equipment

BioRad Real-time iQ-Thermocycler - for quantitative PCR & RT-PCR

Patch-clamp electrophysiology rig - for single-neuron collection

Molecular Devices

UV/Visible/Fluorescent plate reading spectrophotometers - for quantitative nucleic acid and protein spectral analysis