

Predoctoral Training in Breathing Research and Therapeutics (BREATHE)

The University of Florida Breathing Research and Therapeutics (BREATHE) Training Program is recruiting **2 predoctoral fellows** funded by an institutional training grant from the National Institutes of Health. BREATHE gives trainees the opportunity to engage in meaningful translational research partnerships and develop successful careers in respiratory research. Fellows benefit from a rich interdisciplinary training environment that includes over 30 potential mentors from across the Colleges of Public Health & Health Professions, Medicine, Veterinary Medicine, Engineering, and Health & Human Performance at UF.

In the BREATHE cross-training model, clinical researchers establish strong basic research foundations, and basic scientists are exposed to meaningful clinical experiences. Guided by co-mentoring teams, trainees have the opportunity to explore a variety of research areas, experimental approaches, clinical problems, and therapeutic approaches:

- **Areas of interest:** Respiratory neurobiology/neuroplasticity and muscle biology, airway defense, swallowing/dysphagia, therapeutic intermittent hypoxia, hyperbaric oxygen, and clinical translation
- **Experimental approaches:** Cell/molecular, whole-animal physiology, human physiology, neurotechnology, gene therapy (AAV), brain and muscle imaging, and human clinical trials
- **Clinical problems:** Neurodegenerative (ALS, Pompe, PD, AD), traumatic (SCI and TBI) and ischemic (stroke) neural injury, muscle genetic disorders (DMD), cancer cachexia, heart failure, and opioid-induced respiratory depression
- **Therapeutic approaches:** Intermittent hypoxia, gene therapy, pharmacology, neurotechnology, nanotechnology, sleep fragmentation, and physical rehabilitation

NIH training grants require US citizenship or permanent resident status. Trainees receive tuition waivers, stipends (based upon NIH guidelines), and professional development funds.

Our program believes that trainees from diverse backgrounds and life experiences bring unique perspectives, creativity, and talents to address complex scientific problems. Individuals from historically underrepresented groups, disadvantaged or underserved backgrounds, and/or disabilities are highly encouraged to apply.

For more information about the program, email BREATHE Center Director Dr. Gordon Mitchell at gsmitch@ufl.edu. Copy Assistant Director Kate Casey-Sawicki at ksawicki@ufl.edu.

Apply by **May 12th** to ensure eligibility: <https://breathe.php.ufl.edu/training/breathe-application/>. Positions will begin in August.



Scan to learn more about the
BREATHE Training Program!