

## POSTDOCTORAL POSITIONS IN DRUG/ALCOHOL ADDICTION, STRESS, EMOTION, CHRONOBIOLOGY

The Department of Integrative Physiology and Neuroscience has openings for up to four postdoctoral positions for NIH and NSF-funded research programs. We are specifically welcoming applications from highly motivated individuals with interest in one or more of the following basic research areas: *neurobiology of drug/alcohol addiction, stress, emotion; and chronobiology*. The Department of Integrative Physiology and Neuroscience (<http://ipn.vetmed.wsu.edu/>) is an academic unit of the Washington State University College of Veterinary Medicine (<https://wsu.edu/>). International neuroscience faculty within the department form highly collaborative research units that study substance abuse, ingestive behavior, stress, and sleep neurobiology. Furthermore, the department offers baccalaureate and doctoral degree programs in Neuroscience, in addition to postdoctoral training. The department is housed in an award-winning, ultra-modern BSL-2 research facility on the Pullman campus of Washington State University, and it is equipped with state-of-the-art microscopy, imaging, electrophysiology, cell biology, and behavioral testing equipment. Pullman is a college town located in the heart of the Palouse, on the Southeast border of Washington State, with easy access to innumerable outdoor recreation opportunities. It has received accolades for highest quality of life, healthy community, safety, and green transportation (<http://www.pullman-wa.gov/about-pullman/awards-and-recognitions>).

### Qualifications:

- Recent Ph.D. in neuroscience or in another relevant field (e.g., chemistry, biology, psychology)
- Evidence of strong background and research productivity
- Excellent writing skills

**Contact:** Send current CV and names of 3 references to one or more of the following principal investigators, depending on research interests. Note, collaborations and team mentoring are available.

### **Rita Fuchs**

E-mail: [ritafuchs@vetmed.wsu.edu](mailto:ritafuchs@vetmed.wsu.edu)

Website: <https://labs.wsu.edu/fuchslokensgard/>

Interests – neural circuits and cellular mechanisms of cocaine and heroin relapse, drug memory reconsolidation, impulsive decision making, endocannabinoid mechanisms.

Techniques – operant conditioning; IV and vapor drug self-administration; pharmacological, viral, and optogenetic manipulations; Western blotting, immunohistochemistry, *in vivo* calcium imaging.

### **Iliia Karatsoreos**

E-mail: [iliak@vetmed.wsu.edu](mailto:iliak@vetmed.wsu.edu)

Website: <http://ipn.vetmed.wsu.edu/people/faculty-ipn/profile/ilia-karatsoreos>

Interests – Mechanisms of neurobehavioral and physiological adaptation to environmental challenges, including regulation of circadian rhythms and sleep, stress neurobiology and physiology, metabolism, and immune/inflammatory processes.

Techniques – Behavioral testing, transcriptomic and protein analyses, EEG and implanted telemetry, respirometry, analysis of neural structure/function, opportunity for *in vivo* calcium imaging.

### **Ryan McLaughlin**

E-mail: [ryanmclaughlin@vetmed.wsu.edu](mailto:ryanmclaughlin@vetmed.wsu.edu)

Website: <http://ipn.vetmed.wsu.edu/people/faculty-ipn/profile/ryan-j.-mclaughlin>

Interests – neurobiological and behavioral effects of exogenous and endogenous cannabinoids during development: implications for stress coping, emotional behavior, cognition, and addiction.

Techniques – behavior, biochemistry, operant conditioning, neuroendocrinology, *in vivo* electrophysiology (anesthetized and freely-behaving preparations), cannabis vapor self-administration.

### **David Rossi**

E-mail: [rossid@vetmed.wsu.edu](mailto:rossid@vetmed.wsu.edu)

Website: <https://ipn.vetmed.wsu.edu/people/faculty-ipn/profile/david-rossi>

Interests – Neural mechanisms of drug & alcohol abuse/addiction, including genetic & environmental influences, as well as impacts of abusive drug/alcohol exposure in adults and during development.

Techniques – *In vivo* and *in vitro* electrophysiology, opto- and chemo-genetics, microscopy and behavior.