POSTDOCTORAL RESEARCH FELLOW POSITIONS IN PAIN AND ANALGESIC MECHANISMS

The Hohmann laboratory in the Gill Center for Biomolecular Science and Department of Psychological and Brain Sciences at Indiana University Bloomington is seeking to recruit two postdoctoral research fellows to join a dynamic laboratory working at the highly translational interface between chronic pain and drug abuse liability.

We are investigating the impact of cannabinoids, functionally biased cannabinoids, therapeutic antibody agonists and other non-addicting analgesic strategies on neuropathic pain and drug reward using rodent subjects. The *in vivo focused position* involves behavioral pharmacology and evaluations of wildtype, knockout and conditional knockout mouse lines used to achieve cell type specific deletions. Experience with rodent models of cancer or neuropathic pain and/or methodologies for studying drug reward is preferred but not required. The *cell and molecular biology-focused position* involves mechanistic investigations involving dissected (for qPCR, western blot, ELISA) or perfused (for immunohistochemistry) tissues derived from wildtype and conditional knockout mice as well as primary cell culture (assays of tumor cell viability and cytotoxicity of normal cells) and high throughput plate-based assays. The ideal candidate for this position will have experience with immunohistochemistry and microscopy approaches, qPCR, western blot, primary cell culture/mammalian cell culture handling, and high-throughput plate-based assays (for which knowledge of kinetic assays is preferred) along with willingness to work in a collaborative environment with other researchers in the Hohmann lab and Gill Center. Candidates who combine expertise in molecular biology and translational mouse models are strongly encouraged to apply.

The Pain and Addiction laboratory uses approaches ranging from the gene to circuit to whole animal level (e.g. in vivo assessments of pathological pain, unwanted side effects on motor, memory function, respiratory depression and assessments of drug reward using intravenous and oral drug self-administration, in vivo voltammetry, conditioned place preference). Resources for in vitro and in vivo electrophysiology are also available in the lab. The Hohmann laboratory is funded by the National Institute on Drug Abuse, the National Cancer Institute and Indiana's Addiction Grand Challenge Initiative. Qualified candidates should have a Ph.D. in neuroscience, molecular biology, pharmacology, biological psychology or related fields. The laboratory consists of a dynamic group of research scientists, postdoctoral fellows, graduate students, undergraduate researchers and a laboratory manager.

Interested candidates should forward their CVs and names of three references to:

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