



INDIANA UNIVERSITY

INDIANA CENTER FOR REGENERATIVE  
MEDICINE AND ENGINEERING



## **Hands-on Practical Workshop:** **Mouse Genome Informatics**

Wednesday, November 14, 2018

9:00AM to 10:30AM

Location: IB 224, Ruth Lilly Medical Library building  
(975 W Walnut Street, Indianapolis).

Indiana Center for Regenerative Medicine and Engineering (ICRME) in collaboration with Mouse Genome Informatics (MGI, <http://www.informatics.jax.org>) is organizing a hands-on practical workshop on mouse genome informatics.

MGI is the international, informational database for the laboratory mouse, providing integrated genetic, genomic and biological data to the research community to facilitate the study of human health and disease. It is a free, highly curated resource providing searchable web and programmatic access to a complete catalog of mouse genes and genome features, functional annotations, variation, gene expression data, and a comprehensive index of mutant and knockout alleles, phenotypes and human disease models.

The workshop will include short seminar introductions to the various topics, followed by an interactive tutorial where attendees will work through biologically relevant exercises. Attendees are also invited to bring their own research-specific questions. The goals of the workshop is to familiarize research staff and trainees with common mouse genetic concepts and technology and to use MGI website to efficiently answer biological questions and obtain data.

### **The topics of workshop will include:**

- A brief introduction to concepts in model organism genetics
- MGI data structuring
- A brief introduction to allele nomenclature
- Gene and allele detail page navigation in MGI, including finding appropriate mice for exploring a gene, disease or phenotype
- Characterizing a gene list derived from mouse or human data (exome variants, QTLs, other systems analyses)
- Working with batch data

This workshop is free and open to all faculty, postdocs, fellows and learners throughout the IUSM and IUPUI community. Seats are limited (40) and registration is required. The registration to the workshop will be on first come first serve basis.

**Deadline to register is Friday, November 9<sup>th</sup> 2018. To reserve a seat please sign up on the following link <https://www.surveymonkey.com/r/BKXT89F>**