



## Workshop on Colony Management

November 10-12, 2020

**Schedule is subject to change.**

*Registered Attendees will receive access to our Canvas LMS approximately two weeks in advance of the course. Pre-recorded content will be available upon initial login to Canvas. Live sessions, including Q&A sessions, will be recorded and made available on-demand within 48 hours. Participants will have the opportunity to submit questions via Canvas in advance of each Q&A session. Participants will have access to all course materials until December 12<sup>th</sup>, 2020. The times of all live sessions are shown in Eastern Standard Time.*

### **Tuesday, November 10**

#### **Welcome, Introductions & Canvas**

Jennifer Corrigan, M.S., The Jackson Laboratory

#### **Mouse Genetics and Strain Nomenclature**

Alicia Valenzuela, M.S., The Jackson Laboratory

#### **Colony Set-up, Breeding Strategies and Q&A**

Jason Beckwith, M.S., The Jackson Laboratory

#### **Genetic Background Effects on Phenotype**

Greg Cox, Ph.D., The Jackson Laboratory

#### **Genetic Quality Control**

Jenny Morgenweck, Ph.D., The Jackson Laboratory

#### **Mouse Genome Informatics and Other Resources (Lecture & Problem Set)**

David Shaw, M.S., The Jackson Laboratory

#### **LIVE SESSION (Eastern Standard Time)**

**11:00 am EST Live Q&A Session with Faculty:** Alicia Valenzuela, Jason Beckwith, Greg Cox, Jenny Morgenweck and David Shaw

Moderated by Jennifer Corrigan, M.S., The Jackson Laboratory

## **Wednesday, November 11**

### **Practical Guidelines for Maintaining Mouse Health**

Bonnie Lyons, D.V.M., The Jackson Laboratory

### **Maintaining Severely Immune Compromised Mice**

Bonnie Lyons, D.V.M., The Jackson Laboratory

### **Eliminating Infectious Contaminants**

Bonnie Lyons, D.V.M., The Jackson Laboratory

### **Cryopreservation: A Cool Approach to Colony Management**

Rob Taft, Ph.D., The Jackson Laboratory

### **Using Assisted Reproductive Technologies (ARTs) to Rederive, Rescue, and Rapidly Expand Colonies**

Rob Taft, Ph.D., The Jackson Laboratory

### **The Microbiome**

James Fahey, Ph.D., DVM, DACVM, The Jackson Laboratory

### **Nutritional Aspects of Maintaining Animal Health and Phenotype**

Jessie Chouinard, Ph.D., Land O' Lakes Purina

### **LIVE SESSION (Eastern Standard Time)**

**11:00 am EST Live Q&A Session with Faculty:** Bonnie Lyons, Rob Taft, James Fahey and Jessie Chouinard  
Moderated by Jennifer Corrigan, M.S., The Jackson Laboratory

## **Thursday, November 12**

### **Technologies & Repositories: PDX, CRISPR-Cas, KOMP, T1D, & JAX Mice**

Peter Kelmenson, BA, The Jackson Laboratory

### **Tools for Analyzing Colony Data**

Vivek Philip, Ph.D., The Jackson Laboratory

### **Behavioral Phenotyping Using Computer Vision Systems**

Vivek Kumar, Ph.D., The Jackson Laboratory

### **Effects of Housing Density on the Physiological Well-being of Research Mice**

Karen Svenson, Ph.D., Senior Scientific Program Manager, The Jackson Laboratory

### **Animal Care and Use Committees**

Kristin Blanchette, M.S., The Jackson Laboratory

### **Breeding Efficiency Using Electronic Tracking**

Carrie LeDuc, B.S., Transnetyx and Abigail Ames, B.A., The Jackson Laboratory

### **Using Database Systems for Colony and Data Management**

Charles Donnelly, B.S., and Julie Morrison, B.S., RockStep Solutions Inc.

### **LIVE SESSION (Eastern Standard Time)**

**11:00 am EST Live Q&A Session with Faculty:** Peter Kelmenson, Vivek Philip, Vivek Kumar, Karen Svenson, Brenda Kick, Carrie LeDuc, Abigail Ames, Charles Donnelly and Julie Morrison  
Moderated by Jennifer Corrigan, M.S., The Jackson Laboratory