13:15 – 13:30 Registration

13:30 – 14:30
Genetic Drift – What It Is and How to Minimize Its Impact on Your Research
The phenotypes of genetically modified mouse strains depend on the genetic mutation and background. Genetic background is subject to genetic drift that may result in phenotypic drift over time.
Speaker: Dr. Brian Soper, Senior Technical Information Scientist, The Jackson Laboratory

14:30 – 15:30
Key Differences among B6 Substrains and the Research Impact
The C57BL/6 inbred mouse (B6) is the most commonly used research strain. This strain is the most well characterized the first to have its entire genome sequenced, and the genetic background strain of choice for most targeted mutations and transgenics. The universal acceptance and demand for B6 mice has necessitated their production from multiple sources, introducing genetic and phenotypic variability that has important consequences for accurately interpreting and repeating research results.
Speaker: Dr. Brian Soper, Senior Technical Information Scientist, The Jackson Laboratory

15:30 – 15:45 Coffee Break

15:45 – 16:45
Transgenic Colony Management and Troubleshooting Problems
This seminar talk will focus on the main parameters that impact transgenic colonies and their development, highlighting the embryology tools to help with management. Topics covered will include: health status, environment parameters, genetics and special tools to help manage colonies.
Speaker: Dr. Jean Cozzi, Head of European Embryology, Surgery and Model Creation Platforms, Charles River