charles river

INSTITUTO DE INVESTIGACIÓN SANITARIA FUNDACIÓN JIMÉNEZ DÍAZ

HOSPITAL UNIVERSITARIO

FUNDACIÓN JIMÉNEZ DÍAZ

Charles River Seminar

Event Location

Aula Severo Ochoa

All participants are required to wear a mask.

Speaker

Jean Cozzi, PhD, Innovation Manager, Genetically Engineered Models and Services

Registration

Limited to 60 participants

Free but mandatory registration on our **website**

Contact

Carlos Garcia de la Torre

Business Development Manager

P: +34 616 526 178

carlos.garciadelatorre@crl.com

Tuesday, September 27, 2022 | 9h30 – 12h00

9h30 GENETICS OF RESEARCH MICE: FROM FICTION TO FACTS

Inbred mice have historically been essential models for scientific research, and will continue to be so. Indeed, genetic standardization plays a key role in reducing variances within study populations, it facilitates both the monitoring of therapeutic efficacy, and reduces differences between studies in order to maximize reproducibility of results.

However, recent studies have revealed that a high proportion of inbred mouse lines are genetically heterogenous populations. Genotyping inconsistencies, wrong colony management practices and lack of genetic testing controls all lead to poor mouse model genetic standardization.

This presentation will review how genetic background heterogeneity may arise within a colony, and what molecular testing approaches such as polymorphic markers analysis (SNPs and STRs) really tell us about mouse genetics.

10H30 OPTIMIZING COLONY MANAGEMENT FOR TRANSGENIC AND MUTANT RODENT COLONIES

Relevant colony management practices correlate to research data reproducibility, 3Rs, and cost savings. This presentation describes different scenarios that may be encountered when breeding an animal colony and the relevant tools that can be used to anticipate or solve issues so that research may advance faster and more safely.

- Embryology tools
- Lines refreshment
- 3Rs
- Molecular testing
- Genotyping

11:30 QUESTIONS/ANSWERS AND ROUND TABLE

**CRISPR/CAS9 is used under licenses to granted and pending US and international patents from The Broad Institute and ERS Genomics Limited.*