

RESEARCH MODEL SEMINAR

Subjects:

Genetic Drift

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.

At this seminar, you will learn about the following topics:

- *The basis for genetic drift*
- *Case studies demonstrating genetic drift and its effects on experimental results*
- *Steps to ensure the long-term genetic and phenotypic stability of your mutant mice*

Key Differences among B6 Substrains

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.

At this seminar, we will discuss the following topics:

- *A brief historical perspective on the development of B6 inbred mice and different substrains*
- *Recent publications highlighting significant physiological and behavioral differences among different B6 inbred mice*
- *The significance for control selection and experimental design*
- *Key tips for avoiding common B6 research mistakes*

A more detailed agenda will follow.

When:

Wednesday 26 September 2018 from 12:30-16:00.

Registration from 12:30-13:00. Includes a coffee break.

Where:

Norwegian University of Science & Technology NTNU

Kunnskapssentere, Trondheim

Speaker:

Jutta Davidson, Charles River Laboratories

This seminar is free-of-charge. Registration is required:

REGISTER at <https://da.surveymonkey.com/r/N995S93>

Closing date for registration: Friday 21 September 2018.

Join in on our discussions with specialists. We look forward to seeing you!

Best regards,

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