Breeding strategies and maintenance of GA-lines

- Breeding strategies: maintenance, production, expansion
  - In-house lines
  - Newly created lines
  - Imported lines

- Application of nomenclature rules
  - Use of databases: MGI, IMSR, IMPC,
- Calculation of breeding performance indicators

Genetic quality control

- Genetic background
- Gene(s)/ allele(s) of interest
- Design a genetic quality control programme

Phenotyping / welfare assessment

- Mousewelfareterms.org
- Checking and recording
- Welfare assessment

Cryopreservation

- Strategies: embryo/ sperm/ ovary
- Storage, archiving and annotation

Rederivation

- Strategies: embryo/ hysterectomy

Artificial reproductive techniques (ART)

- Strategies: what, when and how to apply

This course has been redesigned and addresses the following topics: colony organisation and management of GA rodent models including the more complex ones, breeding principles and practices, animal identification and characterisation, cryo-banking strategies and the use of relevant databases accessible via the Web. Participants will be invited to present one or more cases from their daily practice in an interactive learning environment that stimulates lively discussion and sharing of experiences. Participants are advised to familiarise themselves with the preparatory materials, which will be made available through the FGB-course website.

Target audience: Breeding coordinators, colony managers, senior animal technologists