



Drosophila Introduction Course - LANDING IN THE DROSOPHILA WORLD

Target public: **Beginner-level students using or interested in using the Drosophila model**

Maximum number of students: **15** **Where:** CCU **When:** 20-23, September 2019

First Day – **Friday, September 20, 2019**

- Historical view about the Drosophila model
- Drosophila classification, Drosophila in nature
- Drosophila in the lab (maintenance, stocks versus experimental conditions)
- Drosophila life cycle, Drosophila morphology
- Male and females, Virgins, Crosses
- Contaminants and quarantine proceedings
- Drosophila genetics toolkit
- Drosophila Nomenclature
- Drosophila genomic background and experimental controls
- Forward and Reverse Genetics

Second Day – **Saturday, September 21, 2019**

- Drosophila in the lab – practical session
 - Developmental stages
 - Crosses
 - Mutants, balancers and markers
 - Recombinants

Third Day – **Sunday, September 22, 2019**

- Transgenic animal production – theoretical and practical session
- Binary systems – practical session
- Dissections

Fourth Day – **Monday, September 23, 2019**

- Drosophila tools (spatial and temporal expression)
- Drosophila Genomic, Databases and Stock Centers
- Practical Drosophila data mining
- Behavior experiments
- Seminars** – Drosophila as a model in biology and medicine