

## Technical training

### I. Theoretical training

⇒ **Object** : Vectorology

#### 1. Gene transfer technical

- A. Vectors properties and function for gene transfer (physical and chemical methods, viral methods such as AAV)
- B. Gene transfer applications

#### 2. Lentiviral vectors

- A. Development and safety
- B. Production and purification
- C. Quality control

#### 3. Viral vectors applications

- A. Discovery and validation of gene candidates : cell and animal models
- B. Bioproduction
- C. Reprogramming

The number of participants in a session is limited to 10-15 people to allow good interaction with the audience.

### II. “*In vitro*” practical training

⇒ **Object** : How to use lentiviral vectors from the delivery to transduction?

1. Receipt of viral vector
2. Conservation mode of viral vectors
3. Thawing of viral vectors
4. Re-aliquoting process

**5. Use of viral vectors: Applications**

- A. Implementation of key concepts (titles, level of purity, MOI)
- B. Transduction of immortalized and / or primary cells in L2 with GFP expressing vectors
- C. Evaluation of the expression

**6. Factors influencing the interpretation of results**

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**III. "In vivo" practical training**

⇒ **Object** : How to do stereotactic infection of lentiviral vectors on rodents and analyzed transduced brains?

- 1.** Stereotactic injection in the mouse brain
- 2.** Intra cardiac perfusion and fixation / organs recovery
- 3.** Freezing of the fixated organs
- 4.** Cryostat sectioning
- 5.** Immuno stainings

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Trainings are run by trained, qualified application specialists at customer site or at Vectalys facility. If you are interested in a quotation, please contact us.