

Aging and Neurodegenerative diseases

Elodie Martin and Veronique Monnier

Effectives: 30

Language: English

Prerequisites: None

Where?

Campus Grands moulins

When?

October 17-21

Evaluation:

Paper analysis (30%)

Final exam (70%)

Questions:

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Number ECTS: 3

Total numbers of

hours: 30 hours

Teaching format:

Conferences given by specialists of the field

Teaching objectives

- To provide an overview of the current knowledge in the field of aging, with a particular focus on genetic aspects.
- To illustrate the respective contributions of animal models of aging in our understanding of the mechanisms involved in this highly complex biological process, from the cellular to the organismal level.
- To present neurodegenerative diseases (Alzheimer and tauopathies, Parkinson, Fronto-temporal dementia, ALS, Trinucleotide repeat disorders) from different angles: genetic, epidemiological, clinical and pathophysiological.
- To illustrate various ways to modelize these diseases in animal and cellular models.

Teaching outline

- ✓ 3 conferences per day
- ✓ Research paper analysis by groups of 2-3 students
- ✓ Final exam at the end of the week (Friday afternoon)