### Testi in italiano

#### Lingua insegnamento
Inglese

#### Contenuti (Dipl.Sup.)
- Neurogenesis in the adult CNS: evidences, functional implications and possible clinical use
- Neural stem cells: sources, handling and potential for brain repair
- Anatomical and functional CNS plasticity: models and analyses
- Neural transplantation: concept, models and technical procedures
- Parkinson’s disease: clinical presentation, models and experimental therapeutic approaches
- Alzheimer’s disease: clinical presentation, models and experimental therapeutic approaches
- Further topics may be added and discussed, should they be considered of interest

#### Testi di riferimento
There is no textbook. Scientific articles and reviews on specific topics will be provided during classes

#### Obiettivi formativi
The course seeks to provide the basic tools for the understanding of the physiopathological, symptomatological, diagnostic and therapeutic aspects of some of the most important neurodegenerative diseases, and their modeling in animals. The feasibility of these models and the potential for translating the arising experimental data into sound clinical practice, will be addressed. The students will therefore be able to associate the neural pathology recapitulated by each model to the most suitable/updated strategies for its diagnosis or therapy.

#### Prerequisiti
Basic knowledge in subjects such as chemistry, biochemistry, anatomy and physiology is required

#### Metodi didattici
Lectures
### Testi in inglese

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| Modalità di verifica dell'apprendimento | Oral exam |

| Programma esteso | Neurogenesis in the adult CNS: evidences, functional implications and possible clinical use  
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