



Mercoledì 5 Febbraio 2014

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strutture](#)> [Studiare a psicologia](#)> [Personale](#)> [Comunicazioni](#)> [Documenti online](#)> [Link utili](#)> [Specializzazione](#)> [Bandi](#)[Home](#) / [Offerta formativa](#) / [Developmental and aging brain](#)**DEVELOPMENTAL AND AGING BRAIN**

M-PSI/01, 1° anno, 6 crediti

Corsi di laurea / indirizzi:

> Lauree magistrali N.O. DM 17/2010 / [Cognitive neuroscience and clinical neuropsychology \(CN2\)](#)

Prof. Casco Clara

Prof. Bislacchi Patrizia

[Sede e calendario lezioni](#)[Dati statistici votazioni esami](#)**Teaching language**

Inglese

**Educational And Training Objectives**

Fundamental knowledge of human brain architecture and its relation to brain function during the life-span

**Pre-requisites**

Basic knowledge of brain anatomy and physiology

**Course content**

There is growing awareness in cognitive neurosciences of the importance of understanding brain development from infancy (and even in utero) through childhood and then the continuing evolution of brain structure and function in adult and then ageing populations.

To fully appreciate a mature or ageing system, it is important to understand the processes underlying and contributing to its maturation, and how related processes continue to shape brain structure and function until death. The nature, extent and the rates of change vary by region and function assessed and are influenced by genetic and well as environmental factors, both due to physiologic influences and by diseases-related pathological processes.

**Recommended reading**

Huttenlocher P.R. (2012) Neural Plasticity. The Effects of Environment on the Development of the Cerebral Cortex. Harvard University press cap 1 - 2

Vogel, Power, Petersen, Schlaggar (2010) development of the brain's functional network architecture. Neuropsychological Review, 20, 362-375

Pscual-Leon A. et al. (2011) Characterizing brain cortical plasticity and network dynamics across the age-span in health and disease with TMS-EEG and TMS fMRI. Brain Topogra. 24, 302-315

**Teaching methods**

frontal lessons and practical sessions

**Assessment methods****Type of examination:** Oral**Teaching tools**

Laboratories on EEG registrations , TMS and co-registrations EEG-TMS

**COMUNICAZIONI AGLI STUDENTI (a cura del docente)**

Nessuna comunicazione disponibile.