

Neuro-psychiatry genetics

Objectives and Description

Research in psychiatry is a highly dynamic and fast-moving field. This course aims to introduce students (clinicians and neuroscientists) to the study of etiopathogenic factors of neuro-psychiatric disorders.

Techniques including epidemiological and molecular genetics, gene expression regulation, brain imaging, neuropsychology evaluation, development of animal models, and tools for gene x gene and gene x environment interactions are undergoing important developments in psychiatric disorders research. These will be illustrated by state-of-the-art results obtained in the study of various diseases: bipolar disorder, schizophrenia, suicidal behaviour, autism, intellectual disability, attention deficit and hyperactivity disorders.

No writing final exam, but each student receives two scientific articles from two different teachers: for one article, the student will give a 10 min PowerPoint presentation, followed by a 10 min discussion with the group animated by another student. For the second article, the student is in charge of the animation of the discussion.

Contenu :

Molecular genetics of psychiatric disorders

Epigenetics and psychiatric disorders

Animal models

Pharmacogenetic and biomarkers of the response to the treatment

Neuro-imaging

Psychotic disorders and immuno-inflammatory hypothesis

Autistic spectrum disorders and developmental hypothesis

Suicidal behavior: a trans-nosographical entity

Genetic of substance abuse disorders

Bipolar disorders and circadian hypothesis

Contacts

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