

CoPGr CURRICULAR CHAMBER

SUBJECTS PRESENTATION FORM

SUBJECT'S ACRONYM: **RNP5782**

SUBJECT'S NAME: Neurology of the Diseases Parkinson and Schizophrenia: Experimental Approaching

CURRICULUM/AREA: Neurology/17140

FOCAL AREA: Neurosciences

INITIAL VALIDITY (Year/Semester):

N. OF CREDITS: 02

Theoretical Classes: 20 Practical Classes, Seminars and Others: 05 Hours of Study: 05

DURATION IN WEEKS: 01

PROFESSOR(S) IN CHARGE:

USP Professor, n. 2090840 – Elaine Aparecida Del Bel Belluz Guimarães

External Professor, n. USP, n. 4866188 – Ana Carolina de Castro Issy Pereira

External Professor, n. USP, n. 8182096 – Mariza Bortolanza

ACTUAL COSTS OF THE SUBJECT: BRL

(Presenting, if applicable, the budget foreseen for the year, as an attachment)

PROGRAM

OBJECTIVES:

Presenting some behavioral and molecular experimental approaches for investigating neurobiology, symptoms and complications of diseases related to the dysfunction of the dopaminergic system: Parkinson and schizophrenia. Presenting a critical analysis of the experimental models validity for investigating new therapeutic tools.

JUSTIFICATION:

Presenting updated concepts on basic experimental preparations for investigating neurobiological processes and their utility as useful pre-clinical models for investigating new therapeutic agents. Creating studies group for integration of the basic and clinic areas. Offering opportunities for discussion and perspective of joint projects.

CONTENT (SYLLABUS):

General concepts about typical and atypical neurotransmitters classification criteria focused on the dopaminergic and nitroergic systems; (2) Biochemical, morphological and behavioral evidences of the interaction between the dopaminergic and nitroergic neurotransmitter systems; (3) Basic molecular techniques for the investigation of the dopaminergic and nitroergic systems; (4) Engagement of the dopaminergic system in the neurobiology of the systems of two neurodegenerative and neuropsychiatric pathologies, Parkinson and schizophrenia diseases; (5) General criteria of validation of animal models for studying the symptoms of Parkinson and schizophrenia diseases; (6) Animals models as pre-clinical tools for investigating new therapeutic tools; (7) The neuroinflammatory hypothesis - activation of the immunological system on the etiology of neurodegenerative/neuropsychiatric diseases; (8) Molecular techniques for the investigation of neuroglia activation processes.

EVALUATION METHOD:

1. Assessment of the frequency and participation in the classes.
2. Seminar.

NOTES:

The classes will be taught in the morning hours. In the afternoon, in alternate days, discussions on the themes approached in the course will be proposed.