

## **CoPGr CURRICULAR CHAMBER**

### **SUBJECTS PRESENTATION FORM**

SUBJECT'S ACRONYM: **RNP5750**

SUBJECT'S NAME: Physiopathology of the Basal Ganglia

CURRICULUM/AREA: Neurology/17140

FOCAL AREA: Neurosciences

INITIAL VALIDITY (Year/Semester):

N. OF CREDITS: 02

Theoretical Classes: 02      Practical Classes, Seminars and Others: 02      Hours of Study: 06  
DURATION IN WEEKS: 03

PROFESSOR(S) IN CHARGE:

USP Professor, n. 1741704 – Vitor Tumas

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

ACTUAL COSTS OF THE SUBJECT: BRL

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

#### **PROGRAM**

OBJECTIVES:

Developing studies program on the physiopathology of the basal ganglia integrating clinical aspects and basic mechanisms

JUSTIFICATION:

Creating a group of studies and research integrating the clinical area and the basic area with the objective of developing personnel and knowledge for future joint projects on the subject.

CONTENT (SYLLABUS):

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- 1) A THE PHYSIOLOGY OF BASAL GANGLIA
- 2) THE CLINICAL EXPRESSION OF THE DISEASES CAUSED BY PATHOLOGIES IN THIS SYSTEM
- 3) THE PARKINSON DISEASE
- 4) PARKINSONISM ANIMAL MODELS
- 5) THE COMPLICATIONS OF THE LEVODOPA THERAPY IN PARKINSON DISEASE
- 6) BASIC MECHANISMS OF LEVODOPA THERAPY COMPLICATIONS
- 7) ANIMALS MODELS OF MOTOR FLOUTINGS AND DYSKINESIAS BY THE CHRONIC USE OF DOPAMINERGIC AGENTS
- 8) CONTROVERSIES ON THE CURRENT OPERATION MODEL OF THE BASAL GANGLIA
- 9) MOLECULAR MECHANISMS OF PARKINSON DISEASE AND COMPLICATIONS OF THE LEVODOPA THERAPY
- 10) THE ROLE OF NITRIC OXIDE IN THE MOVEMENT PHYSIOLOGY
- 11) PLASTICITY MECHANISMS AT THE BASAL GANGLIA

Theoretical Classes:

- 1) The role of the Nitric Oxide in the motor behavior (Prof. Elaine E A Del Bel)
- 2) The Nitric Oxide and the l-dopa induced dyskinesias (Prof. Vitor Tumas)

- 3) Depression in Parkinson Disease.
- 4) Cognitive Alterations in Parkinson Disease (Prof . Vitor Tumas)
- 5) The Huntington Disease (Dr. Vitor Tumas)
- 6) Huntington-like Syndrome ( Dr Guilherme G R Rodrigues)

EVALUATION METHOD:

The evaluation will be made taking into account the students participation in the seminars