

## **CIR 877 INTRODUCTION TO MOLECULAR IMAGE**

**Workload:** 30 h

**Credits:** 02

**Nature:** Optional Master and PhD

**Professor:** Marcelo Henrique Mamede Lewer

**Disciplines Syllabus:** It aims to present the basic concepts of molecular imaging and its correlations with anatomy. The course will support the following lines of research: 1) Molecular and Pathophysiological Basis of Neoplasms and 2) Correlation between Surgical Image, Morphology and Pathophysiology. It consists of theoretical lectures aimed at the knowledge of the molecular image and its correlations with the systemic anatomy. The classes will be held at the Faculty of Medicine of UFMG with 02 hours of weekly duration. The theoretical exposition will be followed by a discussion group, contextualizing the research projects related to the themes exposed. Students will participate by presenting their research projects followed by discussion. The teaching resources include datashow, virtual libraries, internet, websites, teleconferences, videos, laboratories. The concept is based on written evaluation at the end of the course, also considering frequency, participation in activities and integration with colleagues and teacher.

### **Bibliographic References:**

- 1- Manual de Técnicas em Ressonância Magnética. Editores: Fernanda Ferreira e Marcelo Nacif. Rio de Janeiro – Editora Rubio, 2011.
- 2- Oncologia Molecular. Editores: Carlos Gil Ferreira, José Cláudio Rocha. 2ª Edição. São Paulo. Editora Atheneu, 2010.
- 3- PET e PET/CT em Oncologia. Editores: Celso Dario Ramos, José Soares Júnior. São Paulo. Editora Atheneu, 2011