Discipline **MCP5845**  
*Advanced Topics in Genetics and Molecular Cardiology*

**Subject Area:** 5131

**Created:** 16/09/2015

**Active since:** 16/09/2015

**Number of credits:** 2

**Hours:**

<table>
<thead>
<tr>
<th>Theoretical (per week)</th>
<th>Practical (per week)</th>
<th>Self-study (per week)</th>
<th>Duration</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>5</td>
<td>0</td>
<td>10</td>
<td>2 weeks</td>
<td>30 hours</td>
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**Faculty Member Responsible:**

Jose Eduardo Krieger

**Objectives:**

The aim of the course is to discuss advanced topics in genetics and molecular cardiology in the areas of biomarkers associated with cardiovascular diseases; vascular remodeling and strategies for cardiac regeneration therapy. Format: Subject identification and discussion of texts in sections of up to 1h directly with the course coordinator, scheduling of individual meetings. The student is expected to spend at least 10 hours per week preparing 10-20 manuscripts for discussion throughout 3 weeks.

**Background:**

The prevention and treatment of cardiovascular diseases are increasingly dependent on integrated knowledge that includes genetic approaches, preclinical and clinical experimentation, and strategies for implementing new knowledge in the health system to serve the population. These measures represent a challenge for researchers, educators, health professionals and the health system. In this context, this course is intended to familiarize the health professional with new research strategies aimed at the prevention and treatment of cardiovascular diseases.

**Content:**

The student will be able to identify the experimental strategies used in biomarkers research associated with cardiovascular disease or vascular remodeling or strategies for cardiac regeneration therapy; the student will become familiarized with the evolution and state of the art research in this field and will be able to identify the main challenges in this area of study.

**Assessment method:**
The abilities acquired will be assessed on the basis of a final open-book exam intended to test objectiveness and preciseness of the answers.

**Observation**

Course offered to maximum of 5 participants

**Bibliography:**

Será objeto de pesquisa do aluno após discussão com o coordenador do curso.

The bibliography will be the subject of the research of the student after discussion with the course coordinator.