

**Entity:** Vall d'Hebron Institut de Recerca (VHIR)

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**Research group, Unit or Department:** Cardiocirculatory Pathology

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**Student's tutor:** Javier Inserte

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**Positions available:** 1

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**Project description/ Research lines:**

The student will integrate in a group focused on the characterization of the mechanisms involved in post-infarct myocardial cell death and ventricular remodeling and on the development of new therapeutic strategies for the treatment of patients with acute myocardial infarction. The candidate will participate in different projects that analyse adverse postinfarct myocardial remodeling using in vivo mouse models:

1. Targeting the Ca<sup>2+</sup>-dependent proteases calpains as a new strategy to attenuate adverse ventricular remodeling
  2. Effect of obesity on the myocardial tolerance to ischemia
  3. Functional impact of modulating inflammation in heart remodeling by using transgenic mice with specific deletion of molecules with known roles in inflammation
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**Period for the internship:** *first/second semester*

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**Requirements:**

An interview with the candidate will be required

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**Where to apply:** Interested candidates please send a letter of intention, CV and academic records to Javier Inserte ([javier.inserte@vhir.org](mailto:javier.inserte@vhir.org))

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