# PhD. in Life Imaging and Pharmacology

## Research Project

### Overview

### Project
Takotsubo syndrome is a stress-induced cardiomyopathy affecting mostly women. The clinical picture is that of an infarction without coronary artery obstruction, its prevalence is increasing and it exposes to fatal recurrences. There is no treatment. We have identified the metabolic pathways involved, making them potential therapeutic targets. Our objective is to explore these new therapeutic avenues by in vivo imaging and proteomic and transcriptomic approaches.

### Lines of Research
The main axes of this research topic are (1) to identify and/or confirm therapeutic targets by PETRUS imaging and molecular analysis, notably by Nanostring and p by mass spectroscopy, in order to (2) experimentally treat Takotsubo syndrome with drugs against the identified targets in the case of (a) a single stress and (b) repeated stress. Work on small laboratory animals.

### Skills
Willingness to pursue a career in medical research.
- Good organizational skills
- Relational skills
- Rigor
- Autonomy
The ability to adapt in an international multidisciplinary team, scientific curiosity and motivation are essential.

### Required degree
Master 2 en Sciences du Vivant

### Terms and conditions
Application to the PhD scholarship for 3 years: Doctoral School ED 563, deadline May 5, 2022: click [here](#).

## Hosting structure

### Laboratory
Team#2, In vivo Imaging Research, Paris Cardiovascular Research Center – PARCC Inserm U970.

### Manager
Bertrand TAVITIAN. [http://parcc.inserm.fr/research-teams/team/tavitian/](http://parcc.inserm.fr/research-teams/team/tavitian/)

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### Location
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## How to apply
Send CV and cover letter to bertrand.tavitian@inserm.fr before April 15, 2022.