Targets for heart regeneration: mechanisms controlling cardiomyocyte proliferation
Cardiovascular diseases are the leading cause of mortality. Conventional treatments do not correct the defects in cardiomyocytes and congestive heart failure prognosis remains poor. Thus, the replacement of lost cardiomyocytes is a primary target of regenerative medicine research.

Our project aims to identify the developmental mechanisms controlling cardiomyocyte proliferation, leading to the identification of clinically relevant targets for heart repair. We will evaluate their role in cardiac diseases. In particular, we will investigate the role of the growth factor FGF10 as a potential target for heart regeneration.

This project will thus contribute to a greater understanding of regulatory steps controlling cardiomyocyte proliferation, the most promising approach for cardiac repair over the coming years, and will inform future cardiac repair strategies.