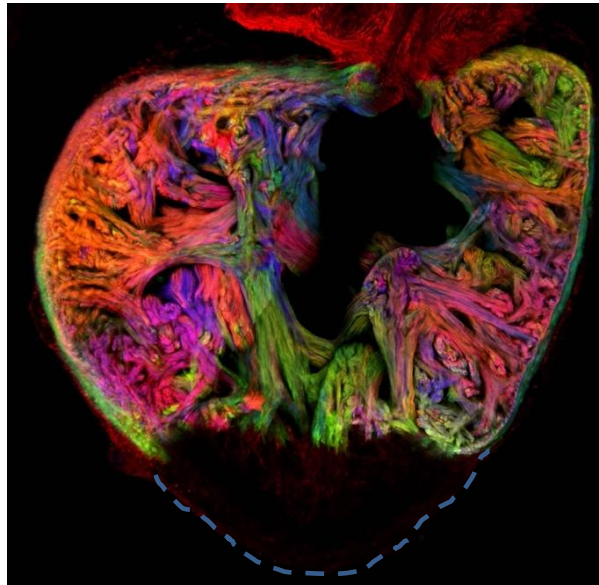




External seminars – Institut Curie



Genetics and Developmental Biology Unit (UMR3215 / U934)

Invité par/Invited by

F. Marmigère

Date

03/11/2025

Titre de la présentation/Title of the presentation

Examining Dynamic Behaviours during Zebrafish Heart Regeneration

Résumé/Short abstract

The adult zebrafish heart can robustly regenerate its heart following an injury unlike mammals. Uncovering the mechanisms by which this occurs is however limited to histological and next generation sequencing methods due to the inaccessibility of the heart at adult stages. We predict that heart regeneration is highly dynamic and consequently developed an ex vivo imaging set up that allows the long term culture of cardiac slices that is also compatible to live timelapse imaging. In this seminar, I will present our latest findings on the dynamics observed in various cell types that are actively participating in regeneration.

Mini-CV/Short CV (+ Picture of you)



Phong NGUYEN completed his PhD at the Australian Regenerative Medicine Institute (Melbourne, Australia) and focused on the development, growth and regenerative capacity of skeletal muscle stem cells and blood stem cells in the zebrafish. He then moved to the Hubrecht Institute (Utrecht, The Netherlands) where he developed imaging and single cell sequencing methods to study adult zebrafish heart regeneration. In 2024, he moved to Institut Curie to start his own group where he focuses on using his past research experience to understand the mechanisms that drive heart regeneration.