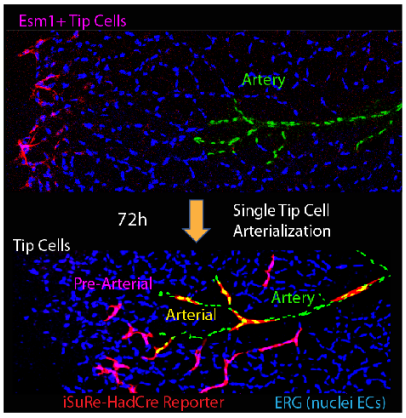
PhD position available in cardiovascular research at the CNIC, Madrid, SPAIN

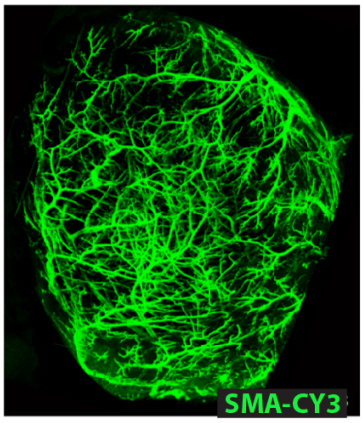
The project will be conducted in Rui Benedito's laboratory at the National Center for Cardiovascular Research (CNIC), utilizing cutting-edge genetic, imaging, and single-cell multi-omics techniques. The goal is to better understand and modulate artery growth and function during heart development, regeneration, and disease.

Coronary artery blockade and restricted blood flow to the heart muscle can lead to cardiac ischemia and myocardial infarction. Common treatments include invasive stenting or coronary artery bypass surgery. Interestingly, patients with extensive development of collateral coronary arteries often have better outcomes, maintaining normal heart function despite the arterial blockade. Gaining a deeper understanding of how these collateral arteries form could one day enable us to therapeutically induce their development in cases of cardiovascular ischemia. For more information about our research group, visit: https://www.cnic.es/es/investigacion/genetica-molecular-angiogenesis.

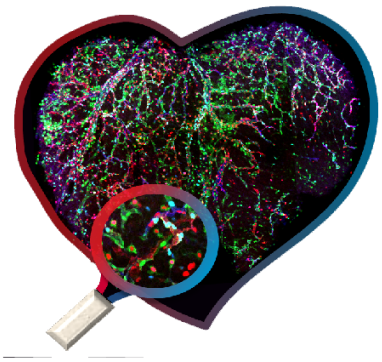
Developing Arteries



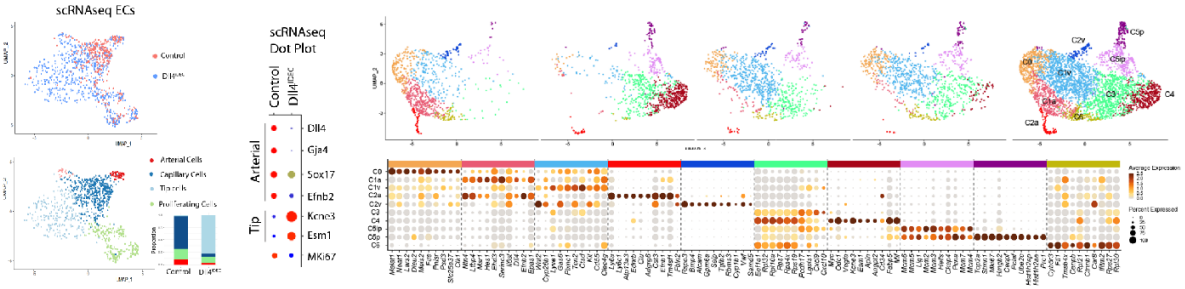
Adult Heart Arteries



Multispectral Genetic Mosaics



Single-cell and Spatial Multi-omics



CNIC is one of Spain's premier research institutes. We offer an exceptional opportunity to collaborate and engage with leading scientists in the field of cardiovascular biology within a dynamic and international environment.

We are seeking highly motivated candidates with a strong academic background and a passion for research. Applicants should hold a Master's degree in Biological Sciences with an academic average of 8.0/10 or higher. A strong interest in molecular biology, mouse genetics, bioinformatics, and cell biology is highly desirable.

To apply, please submit your CV, a cover letter, and academic transcripts to **rui.benedito@cnic.es**.

Early applications will be given priority. Application deadline: November 15th, 2024.