8 FIGURES LEGENDS AND CREDITS BY RESEARCH AREA

VASCULAR PATHOPHYSIOLOGY

1 Confocal image of an E8.5 mouse ventricle stained for B-catenin, showing the polygonal surface of ventricular cardiomyocytes. Nuclei were labeled with DAPI (blue). (José Luis de la Pompa)

2. Collagen deposition in an atherosclerotic plaque in the aortic root of a progeroid Apoe-/- LmnaG609G/G609G mouse fed a high-fat diet for 8 weeks, starting at 8 weeks of age. Red, alpha smooth muscle actin; white, collagen III; blue, Hoechst 33342. (Vicente Andrés)

3. Confocal microscopy merged images of ACTA2 (red) immunostaining and DAPI-stained nuclei (blue) in a primary culture of vascular smooth muscle cells. (Juan Miguel Redondo)

MYOCARDIAL PATHOPHYSIOLOGY

1. Methodology for monitoring and predicting atrial remodeling progression in patients with atrial fibrillation. (David Filgueiras)

2. Liver-infiltrating neutrophils stained with anti-Mrp14 (blue) and anti-NE (red); nuclei are stained with with Sytox Green. (Magdalena Leiva, Guadalupe Sabio).

3. Cardiac macrophages in CX3CR1GFP/+ mice after myocardial infarction. Representative images of 30 μm maximum intensity projections of cardiac macrophages labeled with GFP (green), CD68 (red), and DAPI (blue) from CX3CR1GFP/+ mouse hearts isolated 3 (left) and 7 (right) days after injury. (Mercedes Ricote)

CELL AND DEVELOPMENTAL BIOLOGY

1. Transmission electron microghaph (TEM) of a ransversel section of the luminal side of an aortic endothelial cell. The plasma membrane (PM) and its mechanosensing invaginations, caveolae (pseudocoloured in yellow), are highlighted. (Miguel Ángel del Pozo).

2. Localization of the I/A-band region of titin in neonatal mouse cardiomyocytes using HaloTag labeling (Jorge Alegre-Cebollada, Maria Rosaria Pricolo)

3. Artistic rendering of the supportive role of resident macrophages in the heart. (Andrés Hidalgo).

4. Multi-color high resolution imaging of a mouse heart to identify relevant cell populations. Scale bar, 50 μm (Miguel Torres, Ghislaine Lioux, Valeria Caiolfa)