

## CARDIOVASCULAR STUDIES IN VERTEBRATES



### INTRODUCTION

The research group Cardiovascular Studies in Vertebrates centers its studies on morphology and embryonic development of the cardiovascular system in vertebrates, as well as aetiology and pathophysiology of cardiovascular diseases. The group regularly carries out research projects in collaboration with the Heart Area of the Virgen de la Victoria Hospital in Málaga, and has a wide experience in research and teaching. Academic work integrates various collaborations with private and public centers.

### RESEARCH TOPICS

- Morphology, embryonic development and evolution of the outflow tract, cardiac valves and myocardium in vertebrates.
- Morphology and morphogenesis of congenital anomalies of semilunar cardiac valves and coronary arteries in mammals.
- Etiology and fisiopathology of the bicuspid aortic valve.
- Etiology of the congenital anomalies of the coronary arteries.

### SCIENTIFIC-TECHNICAL SERVICES

- Aquarium for marine and freshwater species.
- Management and maintenance of rodent strains.
- Laboratories equipped for necropsies and morphological studies (anatomy, histomorphology, optical and electron microscopy, injection-corrosion, immunohistochemistry) and molecular (DNA, RNA and protein extraction, PCR, WB, immunoprecipitation).
- Advice, training and research about the research topics.

RESEARCH GROUP LEADER: FRANCISCO DE BORJA FERNÁNDEZ CORUJO  
PAI CODE: BIO203

### CONTACT

PHONE: 952 137 371 | FAX: 952 131 668

E-MAIL: [borjafe@uma.es](mailto:borjafe@uma.es)

ADDRESS: Dpto. Biología Animal. Facultad de Ciencias. Campus Teatinos, s/n. 29071- Málaga