Objective of the Course:

The aim of this course is capacitating participants to localize and to interpret the most common skeletal alterations found in mice and rats. This will occur in the context of dedicated learning sessions devoted to the study of bone anatomy, histology, immunohistochemistry, ultrastructure and imaging. Each lecture will be followed by a practical session in which participants will work with real bone specimens, radiographs, histological preparations, and images from TEM and micro-CT.

In addition, the course will include seminars where specific skeletal abnormalities found in mutant mice will be discussed.

Duration: 4 days. 10-13 July 2017

Number of participants: 15 max

Tuition fee: € 950

The course will be held at the Center for Animal Biotechnology and Gene Therapy (CBATEG) and the School of Veterinary Medicine at the Universitat Autònoma de Barcelona (www.uab.cat)

Course Program:

1. Bone nomenclature. Skeletal design, bone architecture and types of bone.
2. Bone ontogeny. Osteogenesis
3. Bone structure and immunohistochemistry
5. Skeleton of the head
6. Vertebral column. Ribs and sternum
7. Skeleton of the thoracic limb: scapula, clavicle, humerus, radius, ulna, carpal, metacarpal, and digital bones
8. Skeleton of the pelvic limb: coxal, femur, patella, tibia, fibula, tarsal, metatarsal and digital bones

Speakers:

Jesús Ruberte (Course coordinator)
Professor of Animal Anatomy
Head of the Mouse Imaging Platform, CBATEG, UAB
Ilaria Bellantuono
Professor of Musculoskeletal Ageing, University of Sheffield
Marc Navarro
Professor of Animal Anatomy, UAB
Ana Carretero
Professor of Animal Anatomy, UAB
Víctor Nacher
Professor of Animal Anatomy, UAB
Luisa Mendes-Jorge
Professor of Animal Anatomy, University of Lisbon
David Ramos
Interdisciplinary Center of Research in Animal Health, Lisbon

DEADLINE FOR APPLICATIONS: 25th May 2017

Applications should be sent to: victor.nacher@uab.cat