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| Skeleton, from new research technologies to therapeutics. | | | |
|  |  | Hours and date | Online/presence |
| Bone: evolutionary developmental biology | a.Evolution and Development of Skeletal Tissues: Notochord.  **(Prof Eckhard P Witten)**  b. Evolution and Development of Skeletal Tissues: Cartilages and Bones.  **(Prof Adelbert De Clercq)**  c. Evolution and Development of Skeletal Tissues: Teeth.  **(Prof Adelbert De Clercq)** | 3 hours (1.30 h each day or 2 h and 1 h as it will be more convenient for you. The student calendar is booked for a total of 4 hours that in Italy meand 200 min)  **8-9 January 2024**  **9-11 am** | online |
| Modelling skeletal diseases: from cells to mammals | a.Cellular models for bone 1 hour on line **(Prof Martine Cohen-Solal**)  b.Osteoblast and osteocyte differentiation 1 hour on line (**Prof Amelie Coudert**)  c. Osteoclast and osteoclast-like cells : 1 hour on line (**Prof Amelie Coudert**) | 3 hours  (1.30 h each day or 2 h and 1 h as it will be more convenient for you. The student calendar is booked for a total of 4 hours that in Italy meand 200 min)  **10-11 January 2024**  **9-11 am** | online |
| Genetics and Omics; from Common to Rare bone diseases | a.Genetic analyses of complex bone phenotypes; the success of the GWAS approach (**Prof Kelly Rabionet)**  b.Genetic analyses of Mendelian bone phenotypes; the power of NGS  **(Prof Natàlia Garcia-Giralt)**  c.Single and multi-omics approaches to bone tissue and bone diseases.  **(Prof. Susanna Balcells)** | 3 hours  (1.30 h each day or 2 h and 1 h as it will be more convenient for you. The student calendar is booked for a total of 4 hours that in Italy meand 200 min)  **15-16 January 2024**  **9-11 am** | online |
| Innovative therapy targeting bone signaling pathway | a.WNT modulation using sclerostin antibody in bone fragility disorders. 1 hour on line (**Prof Antonella Forlino**)  b.TGFβ modulation using TGFβ antibodies: a novel approach for bone fragility. 1 hour on line (**Prof Roberta Besio**)  c.ER stress modulation in bone disorders using chaperone approaches 1 hour on line (**Prof Roberta Besio**) | 3 hours  (1.30 h each day or 2 h and 1 h as it will be more convenient for you. The student calendar is booked for a total of 4 hours that in Italy meand 200 min)  **17-18 January 2024**  **9-11 am** | online |