



Seminar(i)

Early Vertebrates Evolution: a multidisciplinary approach

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Vertebrates are currently represented by three main groups: chondrichthyans, osteichthyans (including bony fishes and tetrapods) and cyclostoms. However, the evolution and early diversification of the group took place in the Lower Palaeozoic (at least 450 m.y ago) and some of the earliest vertebrates represent clades that are now extinct. Thus, understanding the evolution and diversification of our own lineage requires ineludibly the study of the fossil record.

The Early Vertebrate Evolution Research-group (EVER) aims to shed light on these and other related topics such as the evolutionary origin of bones, teeth or jaws. We use a multidisciplinary approach, combining traditional palaeontology with the application of some advanced technics in computed tomography, computed biomechanics or geometric morphometrics to the study of the vertebrate fossil record. Our main research topics span most of the different groups of early vertebrates (thelodonts, heterostracans, acanthodians, chondrichthyans, placoderms and osteichthyans, including the putative early vertebrate group of conodonts), focusing our work on their morphological, histological and functional diversity. In the present talk, we present briefly some of our recent advances in those research topics.

WHERE?

Seminar room ICBiBE
(semisoterrani de l'edifici d'instituts) - SS6

WHEN?

Thursday **13/10/2016** - 12:00 h