



International Seminar on Paleontology, Evolution,
Paleoecosystems and Paleoprimateology
Room 410, build. B35 (3rd floor, northern wing)

Thursday 6th November 2025 – 13h

Postnatal development and evolution of craniofacial complex in rodents



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The skull is a highly integrated structure that is architecturally and functionally complex. At the same time, paradoxically, this unit is highly evolvable and exhibits a wide variety of shapes.

Epigenetic interactions during growth enable the skull to respond to mechanical stimuli and to compensate for and coordinate the growth of the various organs that make up the head in order to acquire and/or maintain certain functions.

They enable normal development by controlling bone remodelling. Despite this central role, the importance of these interactions in expressing differences between species and, in the longer term, in clade dynamics remains poorly understood.

The aim here is to study I) the establishment of craniofacial disparity in rodents during development and II) to assess the importance of epigenetic processes during this postnatal growth.

