

Institute of Animal Physiology and Genetics CAS, v. v. i.

Brno branch

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Overview

The research focuses on the origin and evolution of structures in the orofacial area in model species of mammals including monitoring of the role and functions of morphogenetic mechanisms, primarily on the development of teeth and jaws. It also considers the evolution of the *Mus* genus, including various evolutionary aspects of the house mouse (hybridization, population structure, developmental stability, QTL mapping).

Organizational structure

Animal embryology laboratory and Mammal evolutionary genetics laboratory are part of the Department of Animal Physiology and Genetics of the CAS, headquartered in Liběchov, Rumburská 89.

Projects and grants

The research plan of both laboratories is focused on genetic, functional and developmental potential of animal cells, tissues and organisms and their use in medicine, ecology and agriculture. The animal embryology laboratory implements its program in embryology, odontology, molecular and biochemical fields. The research applies comparative aspects of animal organogenesis and histogenesis in the development of orofacial area, cell and tissue differentiations, regeneration and intercellular communication. The Mammal Evolutionary Genetics Laboratory engages in the research of genetic, genomic, population and evolutionary biological processes of phylogeny, phylogeography and evolution of mammals.

International cooperation

The Brno branch of the Institute of Animal Physiology and Genetics prepares and develops solutions to transnational research projects and exchange of students and researchers especially with Great Britain, France, Germany, USA and Japan.

Cooperation with universities

The institute contributes to raising the level of knowledge and education and the application of research results in practice. It participates in pre-graduate studies and also conducts postgraduate studies, doctoral programs and educates young scientists.

Public services

The Brno branch of the Institute of Animal Physiology and Genetics performs technical expertise in the field of dentistry, biomedicine and genetics. The researchers are actively involved in raising the general level of education, in teaching at universities and they participate in public discussions on various topics.



The team at Veveří, Part 1



The team at Veveří, Part