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The Institute was created in 1954 from the Department of Physiology, founded in 1953 within the framework of the Institute of Biology of the Czechoslovak Academy of Sciences. Pursuant to Act No. 341/2005 Coll., the Institute became a public research institution as of 1 January 2007.

As a centre for basic medical and biological research, the Institute is primarily concerned with the following fields of research:

- A range of subjects in neurophysiology, from the mechanism of neurotransmitter release to their membrane receptors, to the regulation of body functions at the level of the whole organism.
- In cardiovascular physiology, work is concentrated on developmental aspects of the contractile function of the myocardium, experimental hypertension and physiology of the epithelium with a special emphasis on the role of proteins and cell membranes, and on the search for genetic markers of some diseases, such as, e.g., hypertension, diabetes, among others.
- In molecular and cell physiology, on subjects connected with cell metabolism, transport of high-energy substances and signal transduction which contribute to the elucidation of cell processes and intercellular interaction.

Joint Research Centres

- The Institute cooperates in joint departments with the following institutions:
- Cardiocentre of the Motol Faculty Hospital, V úvalu 84, 150 18 Prague 5, *phone*: +420 224 432 900, or 224 430 102
 - Faculty of Science, Charles University, Albertov 6, 128 43 Prague 2
 - Centre for the Study of Metabolism and Development of Clinical Nutrition, Faculty of Medicine of Charles University at Hradec Králové, Šimkova 870, 500 01 Hradec Králové, *phone* +420 495 832 166, *e-mail*: cmscn@lfhk.cuni.cz
 - Laboratory of Tumour Cell Biology, First Faculty of Medicine, Charles University, Kateřinská 32, 121 08 Prague 2, *e-mail*: sedo.a@pg.com
 - Laboratory of Cellular Biology – Joint Research Unit of the Department of Cellular Biology of the Institute of Physiology of the ASCR and the Institute of Cellular Biology and Pathology, First Faculty of Medicine, Charles University in Prague

Since 1952, the Institute has been publishing the bimonthly journal (in English) *Physiological Research* (initially, *Physiologia Bohemoslovaca*): <http://www.biomed.cas.cz/physiolres>

More detailed information about the organisational structure of the Institute and its research and specialised units can be found at the following URL: <http://www.biomed.cas.cz/fgu>
