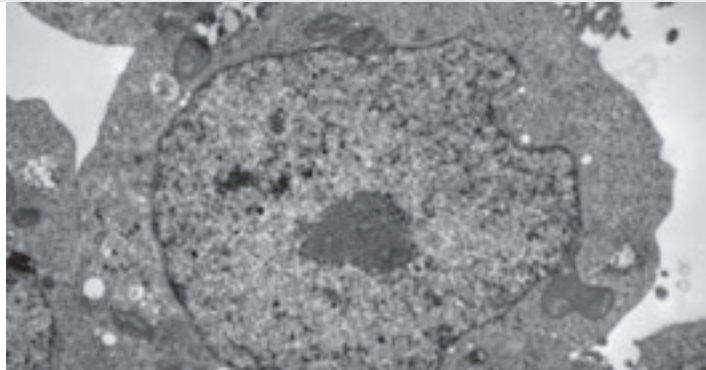




DEPARTMENT OF HISTOLOGY AND EMBRYOLOGY



ABOUT US

The Department is above all engaged in research projects dealing with the structure of lungs, respiratory passages and placenta under experimental and pathological conditions. The ultrastructural and molecular changes of cells and tissues are especially studied using various methods of basic histology, conventional histochemistry, immunohistochemistry and lectin histochemistry. The Department is equipped with a routine histological laboratory (tissue processor, microtomes including cryostat and vibratome), a special immunohistochemical laboratory, a laboratory of electron microscopy (ultramicrotomes, sputter coater), several light microscopes including a fluorescent one, a transmission electron microscope and computer image analyzers.

OUR TEAM

Jiří Uhlík, M.D., Ph.D.
Assoc. Prof. Luděk Vajner, D.V.M., Ph.D.
Petra Šimůnková, M.D.

WE OFFER

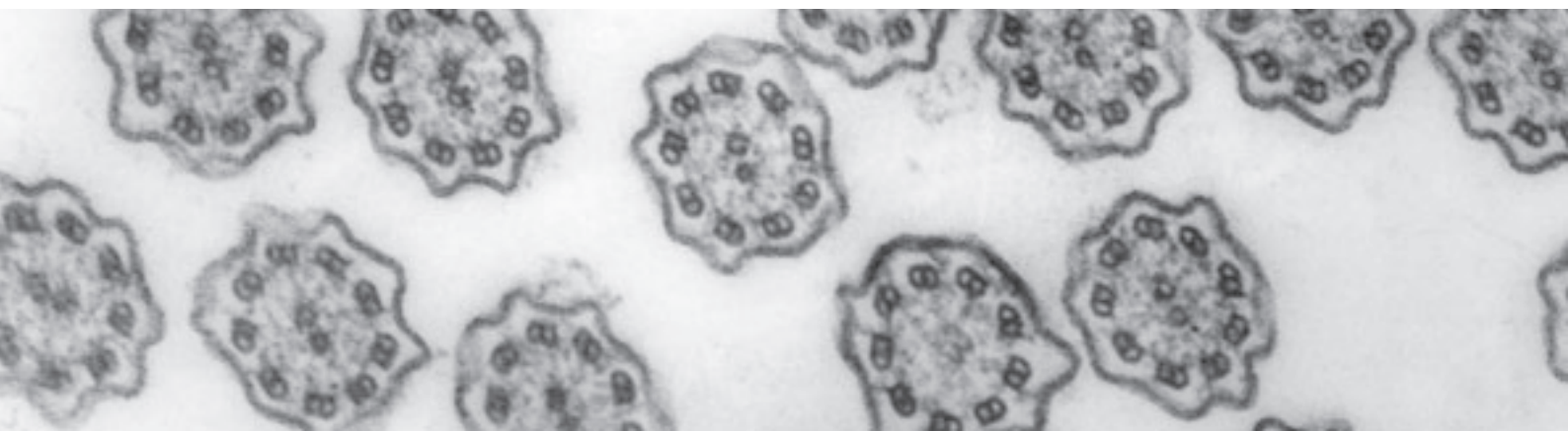
- Research on asthmatic airway wall remodeling, animal models
- Research on pulmonary and placental vessel wall remodeling
- Ultrastructure of respiratory cilia, high speed videomicroscopy
- TEM research and diagnostics
- Lectin histochemistry and immunohistochemistry in paraffin and frozen sections

PARTNERSHIPS & COLLABORATIONS

Project (Ministry of Health, Czech Republic) for conceptual development of research organization 00064203 (Motol University Hospital, Prague, Czech Republic)

CONTACT

Jiří Uhlík, M.D., Ph.D., Head of Department
Plzeňská 221, 150 00 Prague 5, Czech Republic
+420 257 296 251-3
jiri.uhlik@lfmotol.cuni.cz





SELECTED PUBLICATIONS:

Djakow, J., Svobodová, T., Hrach, K., Cinek, O., Uhlík, J., Pohunek, P.:

Effectiveness of sequencing selected exons of DNAH5 and DNAI1 in diagnosis of primary ciliary dyskinesia.

Pediatric Pulmonology 47 (9), 2012: 864-875.

Hvizdošová-Kleščová, A., Uhlík, J., Malina, M., Vulterinová, H., Novotný, T., Vajner, L.:

Remodeling of fetoplacental arteries in rats due to chronic hypoxia.

Exp. Toxicol. Pathol. 65 (1-2), 2013: 97-103.

Beránková, K., Uhlík, J., Hoňková, L., Pohunek, P.:

Structural changes are present in bronchial mucosa of young children in risk for developing asthma.

Pediatric Allergy and Immunology 25, 2, 2014: 136-142.

Uhlík, J., Šimůnková, P., Žaloudíková, M., Partlová, S., Jarkovský, J., Vajner, L.:

Airway Wall Remodeling in Young and Adult Rats with Experimentally Provoked Bronchial Asthma.

Int. Arch. Allergy Immunol. 164 (4), 2014: 289-300.

Hoňková, L., Uhlík, J., Beránková, K., Svobodová, T., Pohunek, P.:

Epithelial basement membrane thickening is related to TGF-Beta 1 expression in children with chronic respiratory diseases. Pediatric

Allergy and Immunology 25 (6), 2014: 593-599.

Novotný, T., Krejčí, J., Malíková, J., Švehlík, V., Wasserbauer, R., Uhlík, J., Vajner, L.:

Mast-cell stabilization with sodium cromoglycate modulates pulmonary vessel wall remodeling during 4-day hypoxia in rats.

Experimental Lung Research 41 (5), 2015: 283–292.

<http://histologie.lf2.cuni.cz/en/main>

