

**Czech Anatomical Society  
Czech Society for Histochemistry and Cytochemistry  
Faculty of Medicine, Masaryk University**

**MORPHOLOGY 2014**  
**48<sup>th</sup> International Congress on Anatomy**  
**51<sup>st</sup> Lojda Symposium on Histochemistry**

## **Programme**

Brno, September 7 - 9, 2014

## **Sunday, September 7, 2014**

- 14.00-17.00      **Registration**  
17.00-19.00      **Opening ceremony**

Welcome addresses

### **Winning Lecture of the 2014 Czech Anatomical Society Award**

*J. Beneš Jr., G. Ammirabile, B. Sanková, M. Campione, E. Krejčí, M. Pleschnerová, A. Kvasilová, D. Sedmera*

Effect of connexin40 deficiency on atrial activation in mice during prenatal development

### **Winning Lecture of the 2014 Czech Society for Histochemistry and Cytochemistry Award**

*A. Mifková, O. Kodet, P. Szabo, J. Kučera, B. Dvořánková, S. André, G. Koripelly, H-J. Gabius, J-M. Lehn, K. Smetana*

Synthetic polyamine BPA-C8 inhibits TGF- $\beta$ 1-mediated conversion of human dermal fibroblast to myofibroblasts and establishment of galectin-1-rich extracellular matrix in vitro

- 19.00      **Welcome Reception**  
20.00      **Meetings of the national committees of CAS and CSHC**

**Monday, September 8, 2014**

**09.00-10.45**      **Molecular Imaging**  
*Lecture Hall A*

*Chairperson: P. Dubový*

09.00-09.45      *Plenary lecture I*

**Cornelis J. F. Van Noorden (University of Amsterdam)**

Imaging enzymes at work: Metabolic mapping by enzyme histochemistry to study functional mechanisms of the isocitrate dehydrogenase IDH1 mutation in glioblastoma

09.45-10.00

**K. Smetana Jr.**

Cancer-associated fibroblasts and their position in the etiopathogenesis of disease

10.00-10.15

**B. Dvořánková, O. Kodet, T. Nedvědová, E. Krejčí, H. Strnad, M. Kolář, P. Dvořák, M. Grim, O. Naňka, K. Smetana**

New findings about cancer associated fibroblasts namely in skin melanoma.

10.15-10.30

**E. Krejčí, B. Dvořánková, M. Grim, J. Borský, K. Smetana**

Cellular and molecular characteristics of neonatal skin: Consequences for healing

10.30-10.45

**P. Dubový, I. Klusáková, I. Hradilová-Sviženská, V. Brázda**

Inflammatory profiling of the satellite glial cells in the dorsal root ganglia and their contribution to induction and maintenance of neuropathic pain

10.45-10.50      **Exhibitor Presentation**

10.50-11.30      **Coffee break + Posters**

11.30-12.10      **Plenary Session of CSHC**

12.10-13.00      **Lunch**

**13.00-15.00**

**Session dedicated to 500th anniversary  
of A. Vesalius birth (Lectures in Czech)**

*Lecture Hall A*

*Chairperson: O. Naňka*

13.00-13.30

**K. Černý**

The Oldest Images of Dissections in Bohemia

13.30-14.00

**J. Žytek**

Andreas Vesalius: His Predecessors and Immediate Successors

14.00-14.30

**R. Čihák**

First Atlas of Anatomy

14.30-14.50

**O. Procházková**

Anatomists at Prague Medical School in the first half of the 19th century

14.50-15.00

**O. Naňka**

Presentation of book "Anatomie od Vesalia po současnost"

15.00-15.40

**Coffee break + Posters**

**15.40-17.10**

**Embryology**

*Lecture Hall A*

*Chairperson: K. Smetana Jr.*

15.40-16.25

***Plenary lecture II***

**Abigail Saffron Tucker (King's College London)**

Morphology of the middle ear: linking evolution and development to clinical problems

16.25-16.40

**V. Křížková, L. Eberlová, L. Nedorost**

Development and morphology of the sensory organs: the organs of vision, hearing, and equilibrium

16.40-16.55

**R. Černý, V. Soukup, I. Horáček**

Development and evolution of the vertebrate primary mouth

16.55-17.10

**M. Buchtová, I. Veselá, H. Dosedělová, P. Krejčí**

Effect of FGF inhibitors on chondrogenesis

17.10-17.25

**Break**

**17.25-18.25**

**Morphology and Diseases**

*Lecture Hall A*

*Chairperson: Y. Mazurová, Z. Tonar*

17.25-17.40

**Z. Tonar, E. Prosecká, M. Rampichová, A. Litvinec, M. Králíčková, L. Vojtová, M. Plencner, M. Buzgo, A. Míčková, E. Amler**

Quantitative histology of bone defect regeneration in vivo

17.40-17.55

**Y. Mazurová**

Alterations in the SEZ neurogenic niche in the brain of Huntington's disease patients

17.55-18.10

**M. Kovalská, L. Kovalská, M. Petras, B. Tothová, M. Furjelová, V. Mestanová, K. Jurková, M. Adamkov, J. Lehotský**

Could induced hyperhomocysteinemia lead to Alzheimer's disease-like pathological features in animal model?

18.10-18.25

**I. Varga, M. Miko, T. Sláviková, L. Urban, M. Kajanová, K. Gergelyová, Š. Polák, J. Kyselovič**

The functional morphology and clinical significance of the interstitial cells of Cajal and interstitial Cajal-like cells (telocytes) – from Hirschsprung disease, through ectopic tubal pregnancy to possible regeneration of myocardium

**17.25-18.25 Clinical Anatomy**

**Lecture Hall B**

*Chairperson: D. Slížová*

17.25-17.40

**L. Redaj, M. Rozprávková, A. Boleková, K. Lovásová, D. Kluchová**

Topographic anatomical outline of difficult accessible and clinical significant orofacial area

17.40-17.55

**P. Póczos, H. Cebula, A. Kurbanov, L.A. Zimmer, J.L. Leach, J.C. De Battista, S. Froelich, P.V. Theodosopoulos, D. Slížová, J.T. Keller**

Internal carotid artery and endoscopic endonasal approaches. Anatomical considerations

17.55-18.10

**H. Vodová, P. Hroch, D. Slížová**

Most common peripheral nerve injuries of the limbs in orthopaedics and traumatology

18.10-18.25

**N. Smorodinová, L. Lantová, M. Bláha, V. Melenovský, J. Kautzner, T. Kučera**

Left and right atrial structural remodeling in hearts of patients with sinus rhythm and atrial fibrillation

**19.30-??? GET TOGETHER PARTY**

**Tuesday, September 9, 2014**

<b>9.00- 10.45</b>	<b>Early embryogenesis and structural imaging</b>
<i>Lecture Hall A</i>	<i>Chairperson: J. Mokry</i>

9.00-9.45 *Plenary lecture III*

**M. Anger, T. Awadová, K. Kovačovicová**

A glimpse into oocytes dividing their chromosomes - subcellular morphology in space and time

9.45-10.00

**A. Hampl, V. Slabá, R. Fedr, T. Bárta, P. Vaňhara, J. Jaroš, L. Kučera, M. Sedláčková, M. Ešner**

Many faces of embryonic stem cells

10.00-10.15

**J. Mihalik, J. Mašlanková, P. Solár, F. Horváthová, V. Almášiová, J. Vecanová, I. Hodorová, S. Rybárová**

Low deprenyl dose increases sperm concentration in rat

10.15-10.30

**M. Patzelt, J. Mrzilková, M. Franěk, J. Dudák, F. Krejčí, J. Žemlička, V. Musil, P. Zach, K. Michková, T. Voborník**

Usefulness of the micro-CT in the morphology

10.30-10.45

**D. Kaliba, Z. Wurst, J. Mrzilková, M. Patzelt, A. Bartoš, I. Ibrahim, P. Zach**

Commissural fiber tractography in AD patients

10.45-10.50 **Exhibitor Presentation**

10.50-11.25 **Coffee break + Posters**

11.25-12.10 **Plenary Session of CAS**

12.10-13.00 **Lunch**

**13.00-14.45 Clinical Morphology and Varia**

*Lecture Hall A*

*Chairperson: A. Hampl*

13.00-13.15

**D. Botman, R.J. Molenaar, W. Tigchelaar, C.J.F. Van Noorden**

Metabolic mapping of glutamate dehydrogenase and phosphate-activated glutaminase reveals glutamate dehydrogenase as a therapeutic target in IDH1R132-mutated glioblastom

13.15-13.30

**H. Vashendriya, K. Ploegmakers, U. Verbovšek, C. Silvestre-Roig, E. Aronica, W. Tigchelaar, T. Lah, R. Van Noorden**

SDF-1 $\alpha$ , CXCR4, osteopontin and cathepsin K in two types of perivascular niches in glioma

13.30-13.45

**S. Bálentová, E. Hajtmanová, B. Filová, V. Borbélyová, J. Lehotský, M. Adamkov**

Late effect of fractionated whole-brain irradiation in rats

13.45-14.00

**M. Furjelová, M. Kovalská, K. Gerenyiová, V. Mešťanová, M. Adamkov**

Carbonic anhydrase IX expression in correlation to clinicomorphological and biological parameters of breast carcinoma

14.00-14.15

**V. Kamarád, V. Palla, J. Chyliková, A. Kepřt**

Adipocyte size determination

14.15-14.30

**J. Dumková, A. Hampl, M. Buchtová, Z. Věčeřa**

The effect of inhaled nano-sized particles of lead oxide on mouse lungs

14.30-14.45

**K. Smíšková, R. Smíšek, Z. Smíšková**

Intervertebral disc herniation and scoliosis therapy with muscle chains training



**13.00-14.15 Anatomy and Teaching**

**Lecture Hall B**

*Chairpersons: D. Kachlík, R. Filipčíková*

13.00-13.15

**M. Bezdičková, R. Filipčíková, L. Machálek, R. Váverková, Z. Blažková**

Experience with embalming methods used in anatomical specimens

13.15-13.30

**R. Filipčíková, M. Bezdičková, R. Váverková, P. Hubáček, D. Kvapil, Z. Blažková, L. Machálek, M. Labonková**

Partnership network for theoretical and practical training of anatomical and clinical implications of emergency medicine and urgent pre-hospital care

13.30-13.45

**D. Kachlík, T. Štěpánková, V. Báča**

Andries van Wesel and his eponyms

13.45-14.00

**D. Kachlík, A. Blanková, B. Šolová**

Students as teachers in education of morphology

14.00-14.15

**D. Krajčí, D. Černochová, R. Lichnovská, B. Erdösová**

Question formats for electronic testing of practical knowledge in morphology

14.45 **Concluding remark**