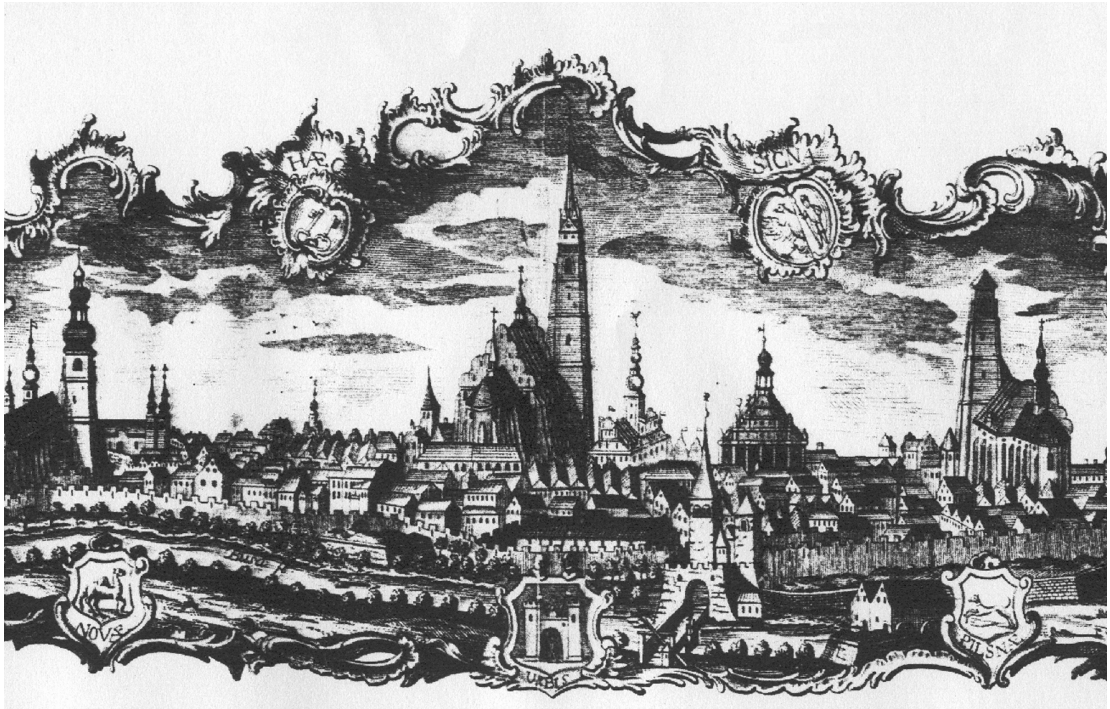


CZECH ANATOMICAL SOCIETY  
CZECH SOCIETY FOR HISTOCHEMISTRY AND CYTOCHEMISTRY  
CHARLES UNIVERSITY IN PRAGUE  
FACULTY OF MEDICINE IN PILSEN



# Morphology 2009

45<sup>th</sup> International Congress on Anatomy  
46<sup>th</sup> Lojda Symposium on Histochemistry

## Programme

ŠAFRÁNEK BUILDING, ALEJ SVOBODY 31, PILSEN, CZECH REPUBLIC

PILSEN, SEPTEMBER 7–9 2009

## **Organizers**

Czech Anatomical Society

Czech Society for Histochemistry and Cytochemistry

Department of Anatomy, Faculty of Medicine in Pilsen, Charles University in Prague

Department of Histology and Embryology, Faculty of Medicine in Pilsen, Charles University in Prague

International Federation of Medical Students Association

## **Under the Auspices of**

Doc. MUDr. Milada Emmerová, CSc.

President of the Pilsen Region

Doc. MUDr. Jaroslav Koutenský, CSc.

Dean of the Faculty of Medicine in Pilsen, Charles University in Prague

## **Scientific Committee**

Doc. RNDr. Pavel Fiala, CSc.

Head of the Department of Anatomy, Faculty of Medicine in Pilsen

Doc. MUDr. Jitka Kočová, CSc.

Head of the Department of Histology and Embryology, Faculty of Medicine in Pilsen

Doc. MUDr. Milena Králíčková, Ph.D.

Prof. MUDr. RNDr. Jaroslav Slípka, DrSc.

Prof. MUDr. Jiří Valenta, DrSc.

## **Organizing Committee**

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MUDr. Pavla Chacón Gil

MUDr. Ismail Khadang

MUDr. Věra Křížková, Ph.D.

MUDr. Omid Moztarzadeh

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Marie Kutzendörferová

MUDr. Mgr. Zbyněk Tonar, Ph.D.

Ing. Petr Vais

Zdeňka Valdhauserová

## **Editor**

MUDr. Mgr. Zbyněk Tonar, Ph.D.

## General information

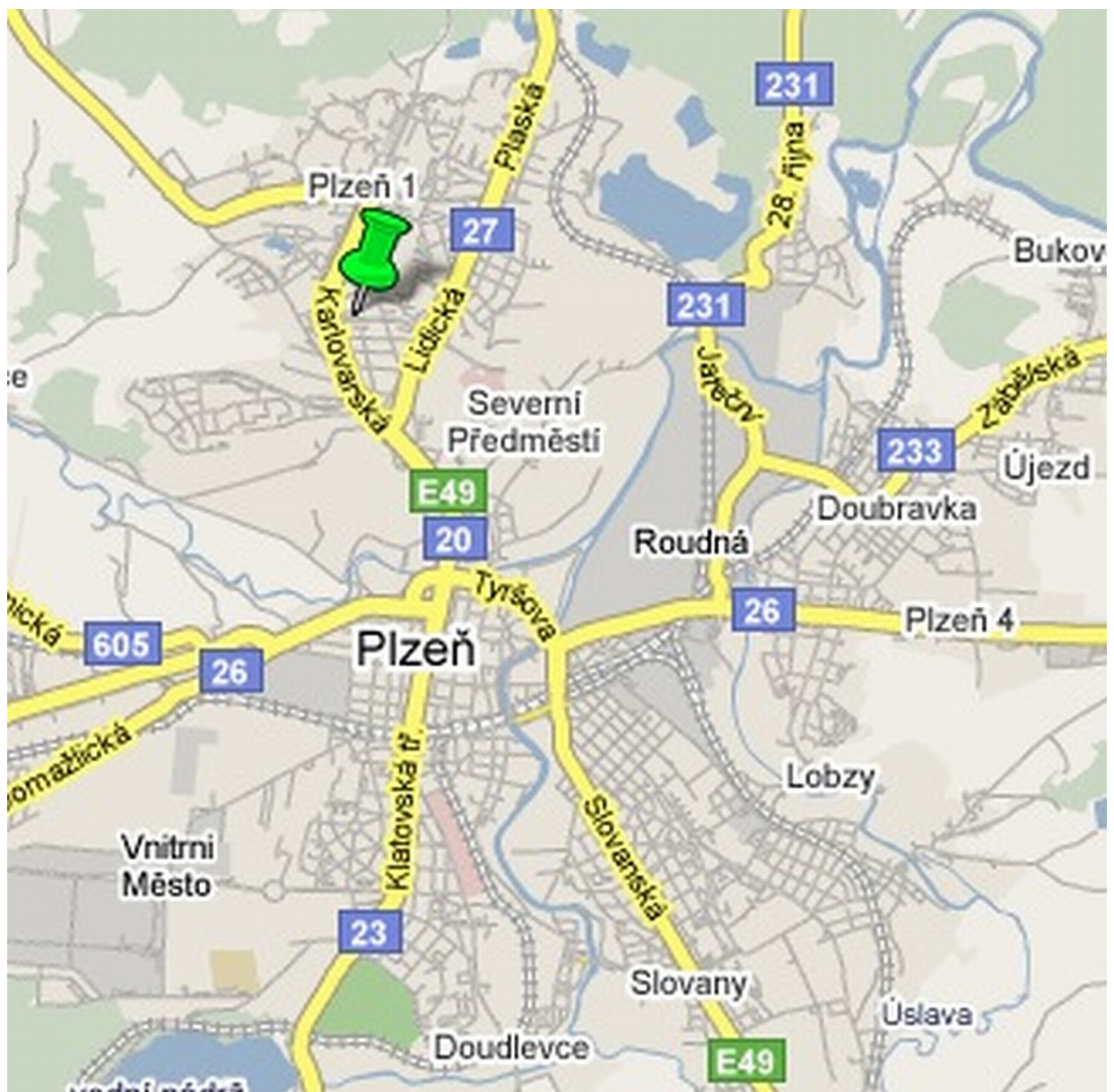
### Date

September 7–9 2009

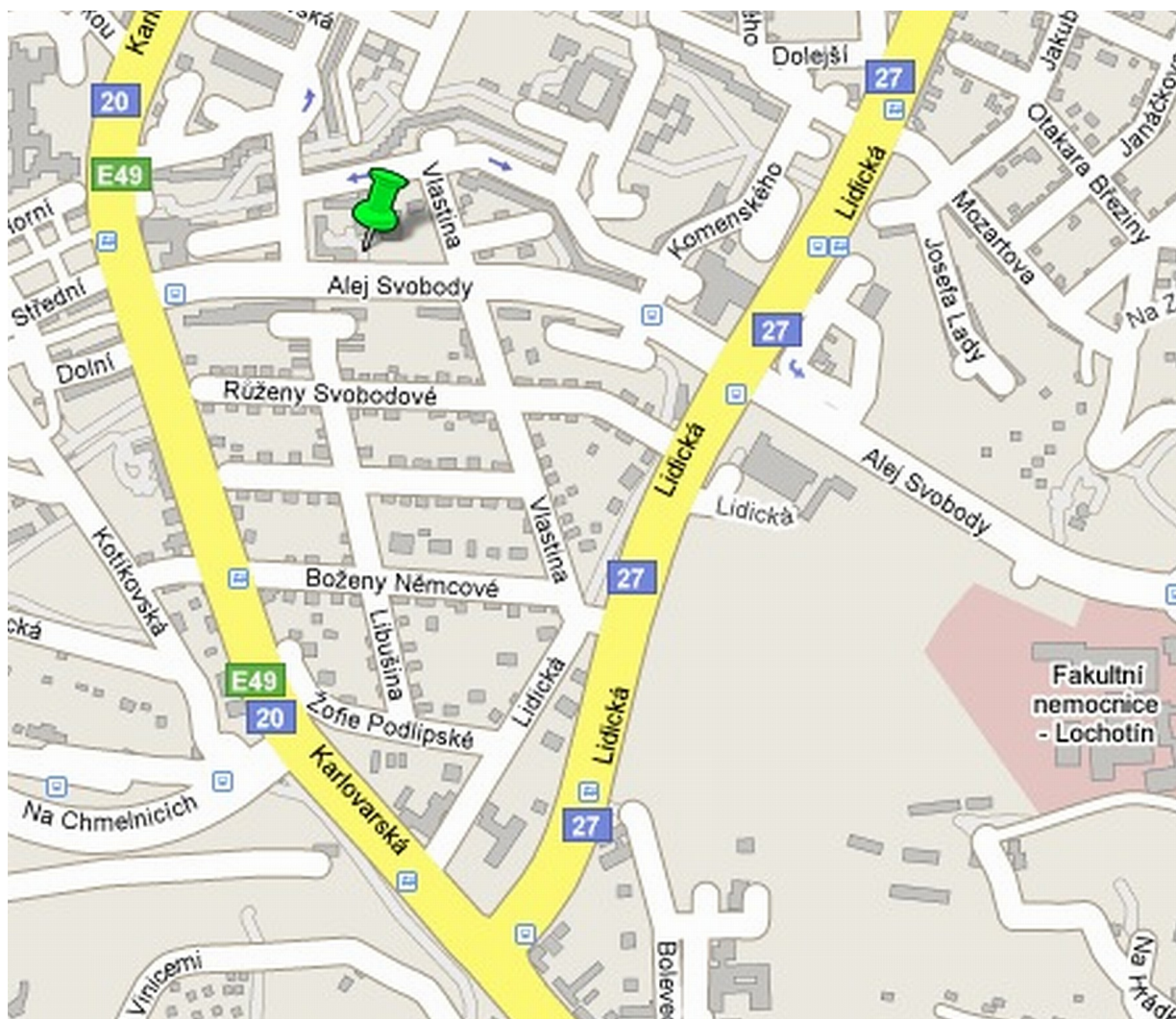
### Venue

Faculty of Medicine in Pilsen, Šafránek Building (Šafránkův pavilon), Alej Svobody 31, Pilsen.

GPS: 49°46'2.371"N, 13°22'2.053"E (marked with pin-head on the map):







## Registration and information desk

Entrance hall of the Šafránek Building, Alej Svobody 31, Pilsen.

Office hours:

Monday, September 7 2009 7.30–18.00

Tuesday, September 8 2009 7.30–18.00

Monday, September 9 2009 7.30–13.00

Phone: +420 377593500 (reception of the Šafránek building)

## Registration fee

**CZK 1000** – regular registration before the deadline, – members of ČAS, ČSHS, SAS

**CZK 1200** – non-members registration, spot registration

**CZK 200** – postgraduate students

**free** – pregraduate students

A copy of the bank-payment should be presented at the registration.

## **Official language**

Czech, Slovak, English

## **Congress secretariat**

Department of Histology and Embryology  
Faculty of Medicine in Pilsen  
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## **Topics**

- Anthropology
- Cellular and molecular morphology
- Clinical anatomy
- Cyto- and histochemistry
- Education programs in morphology
- Embryology and developmental biology
- Experimental morphology
- Neuroanatomy
- Varia

## **Oral presentation**

**Lectures** – 10 minutes + 5 minutes discussion

**Available devices** – LCD projector, PC with Office 2003, CD-ROM, USB port, VGA connector, sound system, laser pointer, visualizer presenter and overhead projector (please, request if necessary).

Lecturers are kindly asked to hand their presentations to the attendant at the lecture hall before each session starts.

## Poster presentation

The size of poster panel is 1×1 m (poster size A0 will also fit). Poster sections according to the programme will be announced in the entrance hall. Pushpins will be available. Authors are expected to be present during the poster session.

## Publication of papers

Manuscripts for publication in extenso in Pilsen Medical Report <http://www.lfp.cuni.cz/PlzenskySbornik> should be submitted in electronic form at the registration desk.

## Exhibitors

OLYMPUS C&S spol. s r.o.

HELAGO-CZ s.r.o.

SIGMA-ALDRICH spol. s r.o.

## Sponsors

ČEZ GROUP

Leica Microsystems – MIKRO, spol. s r.o.

OLYMPUS C&S spol. s r.o.

The City of Pilsen

SIGMA-ALDRICH spol. s r.o.

## Refreshment

A lunch will be available for registered participants in the dining room in the Šafránek Building. The price is not covered by the registration fee. Price of the lunch (ordered beforehand) is CZK 100. Refreshment will be available at the snackbar.

## Social programme

### Welcome reception

It will take place in the Hotel CD Plzeň, Karlovarská 83, 323 00 Pilsen, on Tuesday, September 8, 2009, from 19.00 till 24.00 (entrance fee CZK 400). The hotel is only 420 meters in the South-West direction from the conference venue, GPS Loc: 4945'55.934"N, 1321'48.201"E. Restaurant and rooms have Wi-Fi Internet connection.

### Guided tour

Guided tour in the City Hall of Pilsen (information will be available at the reception desk).

## Plenary meetings

**Plenary meeting of the Czech Anatomical Society** will take place on Tuesday, September 8 2009, 11.00–12.30

**Plenary meeting of the Czech Society for Histochemistry and Cytochemistry** will take place on Tuesday, September 8 2009, 16.00–17.00

## **Transportation**

### **From the Pilsen Main Rail Station**

Take the tram No. 1 – direction “Košutka” or “Bolevec”, exit “ U Družby” stop (less than 30 minutes).

### **From the Pilsen Main Coach Station**

Take the tram No. 2 – direction “Světovar”, exit “V sadech Pětatřicátníků” stop, change for the tram No. 4 – direction “Košutka”, exit “U Družby” stop (less than 30 minutes).

### **Transport tariffs**

**CZK 12** Full non-changing fare

**CZK 12** Full changing fare 30 minutes for “Plzeňská karta” owners, PilsenCard,  
<http://www.plzenskakarta.cz>

**CZK 20** Full non-changing fare – a ticket bought from the driver

**CZK 6** Discount non-changing fare

**CZK 6** Discount changing fare 30 minutes (“Plzeňská karta” owners)

# Lectures



# Monday, September 7, 2009

## OPENING CEREMONY AND PLENARY LECTURES

10.00–12.30

Lecture hall A, Šafránkův pavilon, 2<sup>nd</sup> floor

**Chair:** Grim M., Mechírová E., Čihák R., Dubový P., Fiala P., Kočová J.

10.00–10.30	<b>Ceremonial opening</b>
10.30–11.00	<b>Grim M.</b> Anatomy in perspective of modern time
11.00–11.30	<b>Slípka J.</b> Charles Darwin's double jubilee
11.30–11.50	<b>Čížková D.</b> Expression of intermediate filaments in intact and regenerating muscle spindles of the rat hind limb skeletal muscles. <i>Prize winning lecture of the Czech Anatomical Society and Olympus C&amp;S</i>
11.50–12.10	<b>Karbanová J.</b> The stem cell marker CD133 (Prominin-1) is expressed in various human glandular epithelia. <i>Prize winning lecture of the Czech Society for Histochemistry and Cytochemistry and Nikon</i>
12.10–12.30	<b>Sponsors</b>

*12.30–12.45 The official congress photo of all the participants will be taken in front of the venue.*

*12.45–13.30 Lunch*

# Monday, September 7, 2009

## SECTION A1

### CELLULAR AND MOLECULAR BIOLOGY

14.00–15.45

### Lecture hall A, Šafránkův pavilon, 2<sup>nd</sup> floor

Chair: Grim M., Mechírová E.

14.00–14.15	<b>Mokrý J., Soukup T., Bouchal J., Mičuda S., Suchánek J., Brůčková L., Víšek B., Vokurková D., Kučerová L.:</b> Telomere length in dental pulp stem cells
14.15–14.30	<b>Krejčí E., Grim M.:</b> Microarray analysis of neural crest stem cells isolated from human hair follicles
14.30–14.45	<b>Guller L., El Hassoun O., Kopáni M., Lackovičová L., Valášková Z., Mravec B., Hulín I., Beňuška J., Kubíková E., Mizeráková P., Jakobovský J.</b> Morphology of lymphoid patches in rats peritoneum
14.45–15.00	<b>Dumková J., Sedláčková M., Žáková J.:</b> Ultrastructural changes of primordial and primary human ovarian follicles after frozen-thawed procedure
15.00–15.15	<b>Dvořánková B., Szabo P., Chovanec M., Strnad H., Kolář M., Čada Z., Smetana K. Jr.</b> Epithelial-mesenchymal interaction in vitro: the model for cancer biology
15.15–15.30	<b>Ráček O., Sedláčková M., Dvořák P., Hampl A.</b> Human embryonic stem cells CCTL14 line – comparison of low and high number passage
15.30–15.45	<b>Lacina L., Kideryová L., Dvořánková B., Szabo P., Smetana K. Jr.</b> Phenotypic characterization of human keratinocytes in culture reveals differential stromal effects of fibroblasts from various fibrohistiocytic tumors

15.45–16.30 *Coffee break*

# Monday, September 7, 2009

## SECTION B1

### EMBRYOLOGY AND DEVELOPMENTAL BIOLOGY

14.00–15.45

### Lecture hall B, Šafránkův pavilon, 1<sup>st</sup> floor

**Chair:** Vacek Z., Pospíšilová V.

14.00–14.15	<b>Roshangar L., Rashidi B., Soleimani Rad J., Nikzad B.</b> Ultrastructural and morphometrical study of endometrium in mice treated with progesterone and/ Viagra
14.15–14.30	<b>Slípka J., Slípka J. Jr., Horder T., Pospíšilová V.</b> Spiraculum as an evolutionary precursor of the tympanic cavity
14.30–14.45	<b>Naňka O., Valášek P., Sedmera D., Grim M.</b> Tissue hypoxia – physiological component of developmental mechanisms
14.45–15.00	<b>Beneš J., Šebestová B., Sedmera D.</b> Functionality of bundle branches in developing hearts of Cx40 deficient mice
15.00–15.15	<b>Černý R., Soukup V.</b> Neural crest cells, dental regulatory network and the evolution of teeth
15.15–15.30	<b>Štembírek J., Buchtová M., Matalová E., Míšek I.</b> Mini-pig embryo – suitable model for an early tooth development investigation
15.30–15.45	<b>Zahradníček O., Horáček I., Tucker A.S.</b> Development and evolution of the venom-conducting canal in viperous fangs

*15.45–16.30 Coffee break*

# Monday, September 7, 2009

## SECTION A2

### CELLULAR AND MOLECULAR BIOLOGY, EXPERIMENTAL MORPHOLOGY

16.30–18.15

### Lecture hall A, Šafránkův pavilon, 2<sup>nd</sup> floor

**Chair:** Smetana K. Jr., Pomfy M.

16.30–16.45	<b>Houdek Z., Cendelín J., Kulda V., Babuška V., Vožeh F., Králíčková M., Hatina J., Uher P., Zech N., Pacherník J.</b> The comparison of P19-derived neuroprogenitors and undifferentiated cells survival after intracerebellar application into B6CBA mice
16.45–17.00	<b>Pomfy M., Varga J., Staško P., Bujdoš M., Jonecová Z., Veselá J., Tóth Š.</b> The ischemic preconditioning effect on jejunal morphology after intestinal transplantation
17.00–17.15	<b>Tóth Š., Pomfy M., Varga J., Staško P., Bujdoš M., Jonecová Z., Veselá J.</b> The ischemic preconditioning effect on serotonin-positive cells in jejunal mucosa after intestinal transplantation
17.15–17.30	<b>Kopani M., Mouneimne Y., Miglierini M., Lancok A., Chaban R., Jurecka S., Dekan J., Caplovicova M., Guller L., Melnik M., Jakubovsky J.</b> Iron oxides in human spleen
17.30–17.45	<b>Smetana K. Jr., Frolová L., Tlaskalová-Hogenová H., André S., Gabius H.-J.</b> Detection of galectin-3 in patients with inflammatory bowel diseases: new serum marker of active forms of IBD?
17.45–18.00	<b>Beneš J., Melenovský V., Sedmera D.</b> Morphological changes in volume overload heart failure rat model
18.00–18.15	<b>Kochová P., Tonar Z., Witter K., Mezerová J.</b> Surface density of dermo-epidermal lamellae and mechanical testing of suspensory apparatus of equine hoof

# Monday, September 7, 2009

## SECTION B2

### EMBRYOLOGY AND DEVELOPMENTAL BIOLOGY

16.30–17.45

### Lecture hall B, Šafránkův pavilon, 1<sup>st</sup> floor

**Chair:** Míšek I., Šubrtová D.

16.30–16.45	<b>Králíčková M., Houdek Z., Šíma R., Uher P., Hüttelová R., Baborová P., Křížan J., Šíma P., Zech N.</b> The developmental potential of embryo and success of infertility treatment correlate with LIF gene mutations and NKT cells in follicular fluid
16.45–17.00	<b>Zemanová Z., Jirsová Z., Heringová Hubičková L., Kubínová L.</b> Proliferation of tubular and glomerular epithelia in various nephron populations of the 5-day chick embryonic kidney
17.00–17.15	<b>Kučera T., Strilić B., Lammert E.</b> Lumen formation in mouse dorsal aorta
17.15–17.30	<b>Jirkovská M., Kaláb J., Jadrníček M., Kubínová L., Moravcová M., Krejčí V., Žižka Z.</b> Spatial organization of villous capillaries in diabetic placentas
17.30–17.45	<b>Mikušová R., Pospíšilová V., Pavlíková D., Polakovičová S., Polák Š.</b> Morphological picture of thymus in children with ventricular septal defect

# Tuesday, September 8, 2009

SECTION A3

NEUROANATOMY

9.00–10.00

Lecture hall A, Šafránkův pavilon, 2<sup>nd</sup> floor

Chair: Druga R., Polák Š.

9.00–9.15	<b>Břichová H.</b> Experimental fetal alcohol syndrome - differentiation of neuroectodermal and mesenchymal cells in the defective brain vesicle
9.15–9.30	<b>Druga R., Barinka F., Salaj M.</b> SMI-32 immunoreactive neurons in the piriform cortex of the rat
9.30–9.45	<b>Druga R., Kubová H., Mareš P.</b> Status epilepticus-induced early neuronal degeneration in cortical and subcortical structures
9.45–10.00	<b>Barinka F., Druga R., Kubová H.</b> Characterization of interneuronal populations in perirhinal cerebral cortex in rat

*10.00–10.30 Coffee break*

*10.30–12.00 Plenary meeting of the Czech Anatomical Society, lecture hall A, 2<sup>nd</sup> floor*



# Tuesday, September 8, 2009

## SECTION B3

### EDUCATIONAL PROGRAMMES IN MORPHOLOGY

9.00–10.00

**Lecture hall B, Šafránkův pavilon, 1<sup>st</sup> floor**

**Chair:** Kočová J., Jakubovský J.

9.00–9.15	<b>Drahošová I., Vodová H., Hájek P.</b> Topographic anatomy of limbs in Learning Management System
9.15–9.30	<b>Kikalová K., Machálek L., Holibka V., Bezděková M., Kutal M.</b> Neuroanatomy I. Structures of the CNS
9.30–9.45	<b>Luňáček L., Konečný J., Machálek L., Bezdičková M., Filipčíková R., Charamza J., Kikalová K., Laichman S.</b> Photographic Interactive Atlas of Human Body: Chest and limbs
9.45–10.00	<b>Tonar Z., Cimetrman R., Kochová P.</b> Generating images of serial sections of model histological structures with known statistical properties

*10.00–10.30 Coffee break*

*10.30–12.00 Plenary meeting of the Czech Anatomical Society, lecture hall A, 2<sup>nd</sup> floor*

# Tuesday, September 8, 2009

SECTION A4

ANTHROPOLOGY, CLINICAL ANATOMY

14.00–15.15

Lecture hall A, Šafránkův pavilon, 2<sup>nd</sup> floor

Chair: Stingl J., Slížová D.

14.00–14.15	<b>Kachlík D., Turyňa R., Kujal P., Báča V., Stingl J.</b> “Tributal veins” of vena cava inferior
14.15–14.30	<b>Lovásová K.</b> Clinical importance of pterygomandibular space
14.30–14.45	<b>El Hassoun O., Danihel L’., Jakubovský J., Beňuška J., Guller L., Labaš P., Mizeráková P., El Falougy H., Lukáč L’., Kubíková E.</b> Blood supply of the appendix wall during acute appendicitis
14.45–15.00	<b>Kubíková E., Mizeráková P., Cingel’ V., Labaš P., Šteňová J., Barčíková A., Beňuška J.</b> Nerve supply of human appendix
15.00–15.15	<b>Valenta J.</b> Morphology as the basis of clinical practice

*15.15–16.00 Coffee break*

*16.00–17.00 Plenary meeting of the Czech Society for Histochemistry and Cytochemistry, lecture hall B, 1<sup>st</sup> floor*

*17.00–18.00 Poster session. Chair: Stingl J., Ehrmann J.*

# Tuesday, September 8, 2009

## SECTION B4

### CYTO- AND HISTOCHEMISTRY

14.00–15.15

## Lecture hall B, Šafránkův pavilon, 1<sup>st</sup> floor

Chair: Mokrý J., Vajner L.

14.00–14.15	<b>Soleimani Rad J., Roshangar R., Mohammadnejad D., Soleimani Rad S., Ghasemi F. M.</b> Morphological and histochemical detection of apoptosis in spermatogenic epithelium induced by anticancer drug study
14.15–14.30	<b>Rybářová S., Hodorová I., Vecanová J.</b> Relationship between the expression of p53, MDR1/P-glycoprotein and XRCC1 in breast cancer and their prognostic significance
14.30–14.45	<b>Tribulova N., Radosinska J., Bacova B., Lin H., Knezl V., Okruhlicova L., Weismann P., Slezak J.</b> Alterations of connexin-43 distribution and expression in relationship to incidence of lethal arrhythmias
14.45–15.00	<b>Hodorová I., Vecanová J., Rybářová S.</b> Renal cell carcinoma and Wilms tumor – expression of MDR proteins
15.00–15.15	<b>Křížková V., Korabečná M., Kočová J., Třeška V., Tonar Z., Moláček J., Tolinger P., Nedorost L., Eberlová L.</b> Detection of specific components in the aneurysmatic abdominal aortic wall

*15.15–16.00 Coffee break*

*16.00–17.00 Plenary meeting of the Czech Society for Histochemistry and Cytochemistry, lecture hall B, 1<sup>st</sup> floor*

*17.00–18.00 Poster session. Chair: Stingl J., Ehrmann J.*

# Wednesday, September 9, 2009

SECTION A5

VARIA

9.00–11.00

Lecture hall A, Šafránkuv pavilon, 2<sup>nd</sup> floor

Chair: Fiala P., Sedláčková M.

9.00–9.15	<b>Fiala P., Khadang I., Bláhová O.</b> Nanoindentation of human osteons
9.15–9.30	<b>Khadang I., Fiala P.</b> Structure of the human alveolar bone
9.30–9.45	<b>Mizeráková P., Kubíková E., El Falougy H., Labaš P., Durdík Š., Guller L., Polák Š., Beňuška J.</b> Slovak splenology, individually from the morphologist view
9.45–10.00	<b>Gálfiová P., Varga I., Pospíšilová V., Durdík Š., Jakubovský J., Polák Š.</b> Morphological analysis of sinuses in human spleen
10.00–10.15	<b>Naňka O., Grim M.</b> A. Kohn (1867–1959) – fiftieth anniversary of the death
10.15–10.30	<b>Soukup T., Procházka E., Hroch M., Fuksa L., Brčáková E., Cermanová J., Kolouchová G., Urban K., Mokrý J., Martínková J., Mičuda S.</b> MTX released in vitro from bone cement inhibits human stem cell proliferation in S/G2 phase
10.30–10.45	<b>Báča V., Koňářík M., Kníže J., Velemínský P., Grill R., Kachlík D., Džupa V.</b> Morphological differences of the human pelvis after about 1000 years period
10.45–11.00	<b>Báča V., Grill R., Otčenášek M., Horák Z., Kachlík D., Smržová T., Doubková A., Džupa V.</b> Pelvic floor trauma in relationship to pelvic fractures – 3D PC modelling

*11.00–11.30 Coffee break*

*11.30–12.00 Conclusion*

**Notes:**

# Posters



## ANTHROPOLOGY

1. **Marčeková M., Neščáková E., Mellová Y., Hešková G., Kunertová L., Výbohová D., Mello M.:** The influence of the nourishment on the somatic growth of children in the 3rd month of age
2. **Riedlová J., Palyzová D., Zikmund J.:** Preparation of metabolic risks simulation in newborns in the early phase of cardiovascular illnesses
3. **Riedlová J., Paulová M., Vignerová J., Lhotská L.:** Growth charts for Czech children population up to 24 months age and new WHO growth standards

## CELLULAR AND MOLECULAR MORPHOLOGY

4. **Adamkov M., Halašová E., Rajčáni J., Lauko L', Kovalská M., Výbohová D., Varga I., Polák Š.:** Expression of p53 and survivin in basal cell carcinomas of skin
5. **Balková S., Buchtová M., Matalová E., Míšek I.:** Cloning of chicken AML1-EVI-1 fusion protein
6. **Danišovič L., Varga I., Hollý D., Polák Š.:** Human dental pulp-derived stem cells – complex characterisation
7. **Konieczna A., Lichnovská R., Erdősová B., Ehrmann J.:** Differential expression of MRP1 in embryonal/fetal kidney
8. **Král T., Matalová E., Míšek I., Buchtová M.:** Detection of apoptosis-related factors during dental lamina regression
9. **Lauschová I., Krejčířová L., Doubek M., Klabusay M., Mayer J.:** Hematopoietic cells CD133+ and CD34+ selected and cultivated from bone marrow of leukemic patients
10. **Carvalho L.C., Polizello J.C., Mattiello-Sverzut A.C.:** Histomorphometric alterations produced by neuromuscular electric stimulation associated to manual passive stretching of the rat gastrocnemius muscle
11. **Carvalho L.C., Polizello J.C., Mattiello-Sverzut A.C.:** Passive stretching applied once a day after immobilization of the female rat gastrocnemius muscle is more effective than twice a day.
12. **Pavlovský L., Křížková V., Korabečná M., Eberlová L., Nedorost L., Törlinger P.:** The detection of a neurofilament protein in different tissues
13. **Sedláčková M., Hampl A., Ráček O.:** The development of surface structures of human embryonic stem cells growing in colonies – a comparison of two cell lineages
14. **Valach J., Dvořánková B., Lacina L., Mazánek J., Smetana K. Jr.:** Comparative analysis of squamous cell carcinoma with normal keratinocytes cocultured with fibroblasts from the same tumor

## CLINICAL ANATOMY

15. **Bezdičková M., Filipčíková R., Blažková Z., Vaverka P., Langová K., David O., Laichman S.:** Anatomical features and changes of muscles in Huntingtons disease (HD) patients and people at the risk
16. **Filipčíková R., Vaverka P., Bezdičková M., Blažková Z., David O., Laichman S.:** Postural stability testing of military forces of Czech Republic using Neurocom Balance devices in different conditions
17. **Hájek P., Kachlík D.:** A case of double variant of arterial system in the upper extremity: arteria brachialis accessoria et arteria mediana
18. **Kachlík D., Koňářík M., Čupka T., Báča V.:** Anatomical aspects of the vena saphena magna termination arrangement
19. **Kheck M., Kachlík D., Kheck M. Sr., Báča V.:** The arrangement of omental feeding vessels
20. **Kočová J., Hes O., Boudová L., Křížková V., Opatrná S., Třeška V., Horčíčka V.:** Histology and immunohistochemistry of the peritoneal membrane
21. **Kott O.:** Status of condylar cartilage in human temporomandibular joint
22. **Matonoha P., Svíženská I., Fiedler. J.:** Visualization of human brain vessels with colored silicone
23. **Mrzílková J., Zach P., Bartoš A., Kutová M., Řípková D.:** Volumetric changes of hippocampus, cerebellum and pons in patients with Alzheimer disease
24. **Putnová I., Odehnalová S., Stehlík L., Štembírek J., Usvald D., Horák V., Míšek I., Buchtová M.:** Disruption of teeth eruption in piglets with cleft lip with/without cleft palate
25. **Salaj M., Malíková H., Drugová B., Barinka F., Druga R.:** Two cases of the retroaortic left renal vein. An anatomical and MRI study
26. **Talebpour F.:** Study of lumbosacral joint indexes in the students age group of 20–29 years
27. **Uhlík J., Svobodová T., Djakow J.:** Late electron microscopic confirmation of primary ciliary dyskinesia in two sisters with Kartagener syndrome
28. **Weismann, P., Tedla, M., Valach, M., Varga, I., Profant, M., Beňuška, J., Mráz, P.:** Effects of radiotherapy on tissues of swallowing organs in patients treated for head and neck cancer.

## CYTO- AND HISTOCHEMISTRY

29. **David M., Dubový P., Klusáková I., Svíženská I.:** Quantitative alterations of laminin-1 and matrix metalloproteinase-3 in spinal nerve roots of two neuropathic pain models

30. **Gunčová I., Mazurová Y., Rudolf E.:** Immunohistochemical characteristics of neurodegenerative process in a transgenic rat model of Huntingtons disease
31. **Krejčířová L., Lauschová I., Tichý F.:** Distribution of heavy metals in the kidneys of foetus and mouse females after peroral administration during pregnancy - a histochemical study
32. **Kubíková E., Barčíková A., Mizeráková P., Guller L., Kolenová L., Lukáč L', Kopáni M., Beňuška J., Novotný J., Polák Š.:** Neuron specific enolase in the vermiform appendix wall
33. **Kubíková E., Mizeráková P., Guller L., Barčíková A., Kolenová L., Lukáč L', Kopáni M., Cingel' V., Beňuška J.:** Glial acidic protein in the vermiform appendix wall
34. **Kubíková E., Mizeráková P., Guller L., Barčíková A., Kolenová L., Lukáč L', Kopáni M., Šteňová J., Beňuška J.:** Neurofilaments in the vermiform appendix wall
35. **Kubíková E., Mizeráková P., Guller L., Barčíková A., Kolenová L., Lukáč L', Kopáni M., Beňuška J.:** S-100 protein in the vermiform appendix wall
36. **Kučera T., Hroudová H., Aldhoon B., Melenovský V., Kautzner J.:** Fibrosis, CTGF and TGF-beta expression in patients with heart failure and atrial fibrillation
37. **Pleschnerová M., Krejčí E., Grim M., Šnajdr P.:** Testing the applicability of newly developed anti-c-Myb antibody
38. **Szabo P., Dvořánková B., Lacina L., Smetana K. Jr.:** Epithelial-mesenchymal interaction - influence on chemokines production in vitro
39. **Vecanová J., Hodorová I., Rybářová S.:** The role of glutathion S-transferase in anti-cancer drug resistance in breast cancer patients

## EDUCATIONAL PROGRAMMES IN MORPHOLOGY

40. **Bezdičková M., Filipčíková R., Bebarová L., Laichman S.:** Helpful tools in Anatomy practices and dissection
41. **Buchtová M., Kociánová I., Čížek P., Tichý F.:** Experimental embryology - a new course for student of the UVPS Brno
42. **Eberlová L., Pavlíková L., Fiala P., Štěpánek D., Vais P., Junek T.:** E-learning in teaching anatomy
43. **Filipčíková R., Bezdičková M., Vaverka P., Blažková Z., David O., Laichman S.:** On-line demonstration and videofilms application in Anatomy Education
44. **Konečný J., Luňáček L., Machálek L., Bezdičková M., Filipčíková R., Charamza J., Kikalová K., Laichman S.:** Photographic interactive atlas of human body. Chest and Limbs

45. **Mentel J., Varga I.:** Clinical anatomy of canalis inguinalis
46. **Nedorost L., Tomanová V., Eberlová L., Tonar Z., Moztarzadeh O., Adle-  
rová V.:** Online atlas of dental and bone histology
47. **Salaj M., Hergetová E., Druga R.:** Comparison between the results of current  
assessment at practicals and the results of the final exam in anatomy
48. **Šubrtová D., Čížková D., Šimčík D., Mokrý J.:** Digitized images of fetal tissues  
and organs for embryology education

## EMBRYOLOGY AND DEVELOPMENTAL BIOLOGY

49. **Kočová J., Nedorost L., Tonar Z., Boudová L., Slípka J., Klíma M.:** The  
lymph sacs as an important phase in the development of the lymph system in mam-  
mals
50. **Kovalská M., Ostrup O., Petrovičová I., Strejček F., Adamkov M., Le-  
hotský J., Laurinčík J.:** Embryonic nucleogenesis during inhibition of RNA -  
polymerase II transcription
51. **Maňáková E., Hubičková L.:** Cell proliferation and differentiation during early  
development of pancreas
52. **Patlevič P., Boleková A., Kluchová D.:** Distribution of NOS positive structures  
in the dorsal horn of spinal cord during postnatal development
53. **Pleschnerová M., Kolesová H., Grim M.:** Identification of endothelial cells and  
their precursors in quail embryo
54. **Šebestová B., Sedmera D.:** Inhibition of endothelin signaling impairs conduction  
system development in mouse

## EXPERIMENTAL MORPHOLOGY

55. **Cornachione A.S., Caçao-Benedini L.O., Benedini-Elias P.O.C., Mattiello-  
Sverzut A.C.:** Twenty-one days of eccentric exercise increment further capillari-  
zation of soleus muscle in adult rats than in baby rats after immobilization
56. **Kolenová L., Dluhošová K., Šišovský V., Jakubovský J., Tribulová N.:** Influe-  
nce of conexins in hypertriacylglycemic rat myocardium by the omega-3 unsaturated  
fatty acids and by the Atorvastatin
57. **Mellová Y., Mello M., Výbohová D., Hešková G., Kunertová L., Mar-  
čeková M., Adamicová K., Mičková D.:** Histotoxicity of local anaesthetics -  
perineural application
58. **Mokrý J., Filip S., Vávrová J., Čížková D., Šinkorová Z., Mičuda S., Fuksa  
L.:** Distribution of lin-/CD117+ stem cells after transplantation in lethally irradiated  
mice

59. **Novotný T., Malíková J., Wasserbauer R., Uhlík J., Vajner L.:** The role of disodium cromoglycate in redistribution of pulmonary mast cells during a short-time hypoxia
60. **Škácha M., Sedmera D.:** Effect of maternal hypothyreosis on CNS development

## NEUROANATOMY

61. **Balentova S., Adamkov M., Myers A.C.:** Identification and immunohistochemical characterisation of mouse esophageal enteric neurons projecting axons to the trachealis muscle
62. **Boleková A., Patlevič P., Kluchová D.:** Nitrergic structures of three weeks old rat spinal cord are identical to the adult ones
63. **Klusáková I., Kubíček L., Kopáček R., Dubový P.:** Alterations in the vascular architecture of the dorsal root ganglia of rat neuropathic pain model
64. **Mareš V., Burian J., Lisá V., Marek M., Tomandl I.:** The LVR-15 nuclear reactor epithermal beam induced damage, defense and regeneration in the immature rat brain and glioma cell cultures
65. **Mechírová E., Domoráková I., Burda J., Danielisová V.:** Quantitative evaluation of ischemic-reperfusion injury in the rabbit spinal cord using Fluoro Jade B and NeuN
66. **Ragan L., Waczulíková I., Bilický J., Guller L., Beňuška J.:** Intercaudate distance as a CT marker of enlarged cerebral ventricles
67. **Špakovská T., Lovásová K., Dorko F., Kluchová D., Boleková A.:** NADPH-diaphorase positivity in rat hippocampus during postnatal development

## VARIA

68. **Báča V., Otčenášek M., Grill R., Kachlík D., Smržová T., Škubal J., Džupa V.:** Historical background of the pelvic floor description.
69. **Khadang I., Fiala P.:** Structure of the human alveolar bone
70. **Čech P., Kachlík D.:** 190th anniversary of the birth of famous Czech pathologist Václav Treitz
71. **Čech P., Kachlík D., Lískovec T., Musil V.:** Frequency of the surname Adamkiewicz and its noneponymous alternatives to the term artery in articles indexed in the Medline database
72. **Čech P., Kachlík D.:** The 160th birth anniversary of the Czech gynecologist Karel Pawlík
73. **Kachlík D., Báča V.:** Development of the abdominal circulation studies of the unpaired organs

74. **Klepáček I., Naňka O.:** CT examination of the “Bochdalek’s skull” displayed in the Prague anatomical museum
75. **Krs O., Slížová D., Slezák R., Šimůnek A., Karásková M.:** Morphology of nanomaterials (SiO<sub>2</sub>, TiO<sub>2</sub>, ZnO) applied in vitro onto the surfaces of dental tissues in scanning electron microscope
76. **Machálek L., Charamza J., Bezdičková M., Kikalová K.:** The superficial ulnar artery – a case report
77. **Machálek L., Kikalová K., Bezdičková M., Charamza J.:** The variation of the anterior forearm muscles - a case report
78. **Moztarzadeh O., Nedorost L., Tonar Z.:** Evaluation of osteointegration of dental implants
79. **Musil V., Kachlík D., Stingl J.:** Forgotten morphological monograph of A.S.D. Synnestvedt
80. **Němečková A., Strouhal E.:** Case of a malignant tumour from the Necropolis of Isola Sacra near Rome (2<sup>nd</sup>-3<sup>rd</sup> cent. AD)
81. **Výbohová D., Mellová Y., Adamicová K., Hešková G., Mello M., Marčková M., Kunertová L.:** Quantitative microvascular changes of the subpapillary vascular plexus within the cutaneous lesions of lichen ruber planus



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