

# MORPHOLOGY 2012

47th International Congress on Anatomy and  
49th Lojda Symposium on Histochemistry

September 9 - 12, 2012  
Hradec Králové



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**Czech Anatomical Society  
Czech Society for Histochemistry and Cytochemistry  
Charles University in Prague  
Faculty of Medicine in Hradec Králové**



**MORPHOLOGY 2012  
47th International Congress on Anatomy  
49th Lojda Symposium on Histochemistry**

**Under the Auspices of**

**Prof. MUDr. RNDr. Miroslav Červinka, CSc.  
Dean of the Faculty of Medicine in Hradec Králové**

**MUDr. Zdeněk Fink  
Mayor of the City of Hradec Králové**

**September 9 – 12, 2012  
Hradec Králové, Czech Republic**

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# OLYMPUS

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### **Scientific Committee**

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Doc. MUDr. Yvona Mazurová, CSc.  
MUDr. Olga Procházková  
MUDr. Tomáš Soukup

### **General Information**

#### **Venue**

Faculty of Medicine (building of theoretical departments), Šimkova 870, Hradec Králové 500 38, Czech Republic

#### **Registration and Information Desk**

Ground floor of the Faculty of Medicine (building of theoretical departments), Šimkova 870

#### **Office Hours:**

Sunday, September 9, 2012	15:00 – 17:00
Monday, September 10, 2012	08:00 – 17:00
Tuesday, September 11, 2012	08:00 – 14:00
Wednesday, September 12, 2012	08:00 – 10:00

#### **Languages**

English, Czech, Slovak

#### **Oral Presentations**

Plenary sessions and sessions in section A will take place at main lecture hall (ground floor, front wing). Sessions in section B will take place at lecture hall I (1st floor, front wing). Plenary lectures – 20 min, lectures – 10 min, discussion – 5 min. Windows PC with CD-ROM and USB port are available in lecture halls. Presentation software is Windows 7, MS Office 10 (It supports lower versions of PowerPoint). Videos can be presented only through PowerPoint presentation. Speakers are kindly asked to hand in their presentations directly to the attendant at the lecture hall before beginning of each session. Participants can check their presentation at the e-Point during the congress, WiFi access to the internet will be available.

#### **Poster Presentation**

The size of poster panel is 100 cm by 100 cm. All posters will be displayed in corridors in front of lecture halls. Posters with numbers 1 - 35 will be presented on Monday, September

10, and posters with numbers 36 - 70 on Tuesday, September 11. Authors are asked to be present at posters during guided discussion of poster session.

### **Social Evening**

Congress dinner will take place at Nové Adalbertinum, Velké náměstí 32, 500 03 Hradec Králové (walking distance from the Faculty of Medicine about 600 m - see map) on Monday, September 10, from 19:00 till 22:00. Price 500,- CZK.

### **Transportation**

Faculty of Medicine can be reached from railway station or central bus station nearby by bus No. 2, 6, 7, 8, 12, 17 (for back course 11), station Magistrát města. Single basic fare is 15 CZK, fare paid to the driver in cash is 18 CZK.

### **Facultative afternoon programme on Tuesday, September 11**

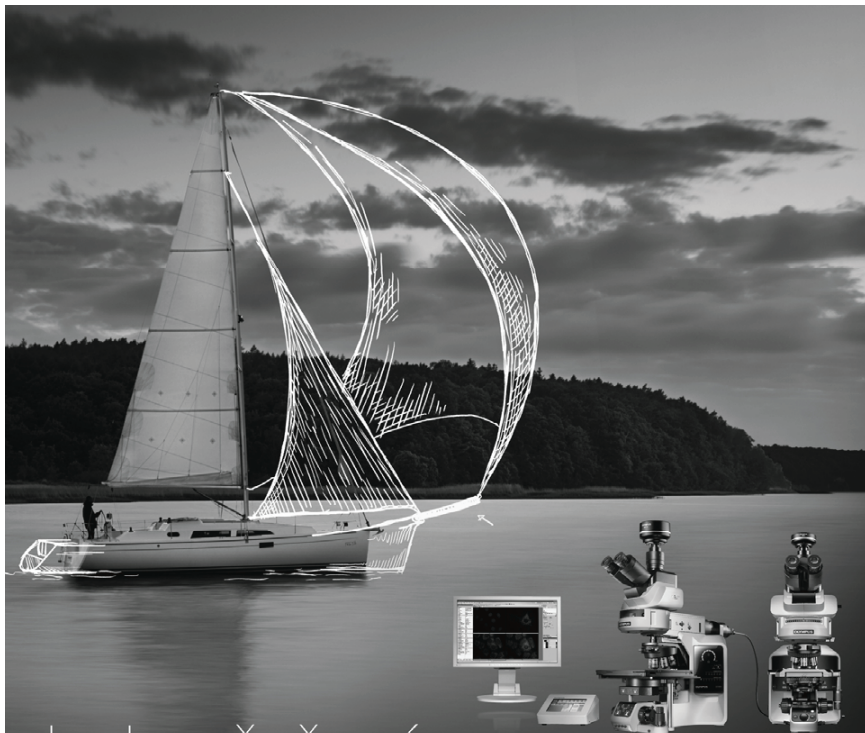
Sightseeing tour through the historic city of Hradec Králové by road train.  
Visit of Fortress Josefov casemates in Jaroměř (20 km from Hradec Králové).

### **Czech Anatomical Society – member of the Council of Scientific Societies of the Czech Republic**

Secretary office: Institute of Anatomy, Charles University in Prague, First Faculty of Medicine, U Nemocnice 3, CZ 128 00 Prague 2  
phone: 00 420 224 965 780, fax 00 420 224 965 770, e-mail: anat@lf1.cuni.cz  
<http://cas.lf1.cuni.cz>

### **Czech Society for Histo- and Cytochemistry – member of the Council of Scientific Societies of the Czech Republic**

Secretary office: Šimkova 870, CZ 500 38 Hradec Králové  
phone: +420 495 816 294, fax: +420 495 816 376, e-mail: mokry@lfhk.cuni.cz  
<http://www.cshc.cz>



# Jedno řešení pro všechny potřeby ?

## **Badatelské mikroskopy nové generace – Olympus BX3.**

**Jedinečná koncepce ovládní** – skutečně dálkově ovládaná stanice.

**Systémové řešení** – automatizace dokumentace i celého pracovního postupu.

**Přesnost a stabilita** – ostření pomocí revolverového nosiče objektivů, přesný motorizovaný stolek.

**Fluorescence bez kompromisu** – nová optická soustava „fly eye“ zajišťující kvalitní excitaci celého zorného pole s maximálním poměrem signál / šum.

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**Czech Anatomical Society  
Czech Society for Histochemistry and Cytochemistry  
Charles University in Prague  
Faculty of Medicine in Hradec Králové**

## **Programme**

### **MORPHOLOGY 2012**

**47th International Congress on Anatomy  
49th Lojda symposium on Histochemistry**

**September 9 – 12, 2012  
Hradec Králové, Czech Republic**

**Sunday, September 9, 2012**

**15:00 – 17:00 Registration**

**17:00 – 19:00 Opening Ceremony**

*Chairs: Grim M, Mokřý J*

**Words of Welcome**

**Prof. MUDr. RNDr. Miroslav Červinka, CSc.**

Dean of the Faculty of Medicine in Hradec Králové

**MUDr. Zdeněk Fink**

Mayor of the City of Hradec Králové

**Representatives of anatomical and histo- and cytochemical societies**

**Winning lecture of the 2012 Czech Anatomical Society & Olympus Award**

**Valach M, Fik Z**

Smooth Muscle Actin-Expressing Stromal Fibroblasts in Head and Neck Squamous Cell Carcinoma: Increased Expression of Galectin-1 and Induction of Poor-Prognosis Factors

**Winning lecture of the 2012 Czech Society for Histochemistry and Cytochemistry & Nikon Award**

**Čížková D, Vávrová J, Mičuda S, Filip S, Brčáková E, Brůčková L, Mokřý J**

Transplanted Bone Marrow Cells Participate in Reaction to Skeletal Muscle Injury

**Cultural programme**

**19:00 – 20:30**

**Welcome party and vernissage – anatomical paintings of Radek Petříček**

**20:00**

**Meetings of the national committees of CAS and CSHC**



## Monday, September 10, 2012

8:30 – 9:20

### Plenary Lecture and General Sponsor Lecture

*Chairs: Mokřý J, Adamkov M*

8:30 – 8:55

### **Thornell L-E, Lindström M, Pedrosa-Domellöf F**

Satellite Cells, Identification with Immunohistochemistry and Biological Significance

8:55 – 9:20

### *General Sponsor Lecture*

### **Jendrulek T – Olympus, Prague, Czech Republic**

Changes of Microscope Morphology – “What do you think Mr. Abbe?”

9:25 – 11:15

### Sessions in Section A – Morphogenesis

*Chairs: Smetana K Jr, Varga I*

9:25 – 9:40

### **Bonczek O, Krejčí P, Lochman J, Omelková T, Matalová E, Šerý O, Míšek I**

The Relationship between PAX9 Gene Mutations and Tooth Agenesis in Czech Population

9:40 – 9:55

### **Buchtová M, Richman JM**

The Role of BMP Inhibitors on Craniofacial Development

9:55 – 10:10

### **Smetana K Jr, Strnad H, Kodet O, Kolář M, Dvořánková B, Lacina L, Matoušková E**

Response of Epithelial Cells to Cancer-Associated Fibroblasts Is Not Tissue Specific

10:10 – 10:30 Coffee Break

10:30 – 10:45

### **Naňka O, Krejčí E, Peševski Ž, Sedmera D**

Physiological Role of FGF Signaling in Embryonic Cardiac Wall Growth and Adaptation to Pressure Overload

10:45 – 11:00

### **Varga I, Polák Š, Miko M, Mešťanová V, Adamkov M**

Thymic Hassall's Bodies – Their Structure and Possible Functions during Prenatal and Early Postnatal Development

11:00 – 11:15

### **Nourinezhad J, Gilanpour H, Radmehr B**

Morphological Features of Fetal Thoracic Sympathetic Chain in Sheep

**9:25 – 11:15**

**Sessions in Section B – Clinical Anatomy**

*Chairs: Stingl J, Kamarád V*

9:25 – 9:40

**Adamkov M, Kovalská M, Mešťanová V, Furjelová M, Varga I**

Importance of Antiapoptotic Protein Survivin in Human Tissues

9:40 – 9:55

**Kamarád V, Chylíková J, Carbolová T, Bužga M, Holéczy P, Dvořáčková J**

White Adipose Tissue Morphology in Morbid Obesity

9:55 – 10:10

**Menšíková H, Koňářík M, Brtko M, Báča V, Kachlík D**

Clinical Anatomy of Ulnar Artery

10:10 – 10:30 Coffee Break

10:30 – 10:45

**Stingl J, Pirk J, Straka Z, Šetina M, Kachlík D, Šach J, Martinča T, Musil V**

Morphology of Vasa Vasorum in the Explanted Bypassed Saphenous Veins

10:45 – 11:00

**Šedý J**

The Role of Orofacial Anatomy in Dentistry and Oral Surgery

11:00 – 11:15

**Mazaheri Y, Ranjbar R, Khaksary Mahabady M, Nourinezhad J**

Some Craniofacial Malformations in Sheep

11:20 – 11:30 Congress Photo

11:30 – 12:45 Lunch

**12:45 – 13:30**

**Sessions in Section A – Anatomy and Biomechanics**

*Chairs: Naňka O, Tonar Z*

12:45 – 13:00

**Tonar Z, Králíčková A, Eberlová L, Gregor T, Nedorost L, Kochová P, Kachlík D, Prosecká E, Daum O, Pálek R, Skála M, Glanc D, Liška V, Králíčková M, Witter K**

Quantitative Histology and X-ray Microtomography

13:00 – 13:15

**Čapek L, Buchvald P**

Modeling of Customized Implants

13:15 – 13:30

**Billon M, Henyš P, Čapek L, Kaláb M**

The Role of First Rib's Cartilage to the Forces Acting during Median Sternotomy

13:30 – 13:45

**Karimi H, Kondrood MA, Farshi Y**

Histological Structure of Trachea and Lung of Hedgehog (*Erinaceus europaeus*)

**12:45 – 13:30**

**Sessions in Section B – Clinical Anatomy**

*Chairs: Bába V, Polák Š*

12:45 – 13:00

**Havrlentová L, Holéczy P, Gergišáková H, Jakubovský J, Polák Š**

Omental Milky Spots

13:00 – 13:15

**Bartoška R, Horák Z, Polášek M, Macák D, Džupa V, Bába V**

Morphology and Biomechanics of Petrochanteric Fracture Treatment

13:15 – 13:30

**Báčová T, Kološtová K, Šajdíková M, Strakošová K, Netuková M, Bába V**

Immunocompetent Cells in Cornea

**14:00 – 14:40**

**Plenary Lecture and Sponsor Lecture**

*Chair: Mazurová Y*

14:00 – 14:25

**Šmigová J, Jůda P, Cmarko D, Raška I**

The Hunt for the Polycomb Group Proteins (PcG) Bodies in the Amazone Chromatin Forest

***Sponsor Lecture***

14:25 – 14:40

**Rozkošný I – Nikon spol. s r.o., Prague, Czech Republic**

New Age in Microscopy – Super Resolution Methods, Dedicated Time Lapse Imaging Systems

**14:50 – 15:50 Poster Session 1**

*Chair: Fiala P*

**15:50 Plenary Sessions of CAS and CSHC**

**19:00 Dinner**

**Tuesday, September 11, 2012**

**8:30 – 9:10**

**Plenary Lecture and Sponsor Lecture**

*Chairs: Dubový P, Slížová D*

8:30 – 8:55

**Mazurová Y**

Neural Stem Cells in the Research and Therapy of Neurodegenerative Diseases

***Sponsor Lecture***

8:55 – 9:10

**Kopecká J, Kurfürstová N – BARIA s.r.o.**

BARIA – New Trends in Research: Unique Products for Stem Cells Research, Stem Cells and Surfaces

**9:15 – 10:15**

**Sessions in Section A – Neurosciences**

*Chairs: Dubový P, Druga R*

9:15 – 9:30

**Druga R, Salaj M, Barinka F**

Calcium – binding Proteins Immunostaining in Retrosplenial Cortex of the Rat

9:30 – 9:45

**Bálenťová S, Hajtmanová E, Trylčová R, Kinclová I, Lehotský J, Dobrota D, Adamkov M**

Influence of Ionizing Radiation on the Adult Brain under Experimental Conditions

9:45 – 10:00

**Dubový P, Svíženská I, Klusáková I, Brázda V, Strejčková L**

Upregulation of IL-6 and Its Signaling Molecules after Nerve Injury: The Concept of Yin Yang for Reinnervation and Induction of Neuropathic Pain

10:00 – 10:15

**Caisberger F, Pejchal J, Kassa J, Skálová M, Slížová D**

Histopathological Changes after Nerve Agents Poisoning

10:15 – 10:35 Coffee Break

**10:35 – 11:35**

**Sessions in Section A – Stem Cells**

*Králíčková M, Grim M*

10:35 – 10:50

**Kodet O, Lacina L, Dvořánková B, Szabo P, Dvořák P, Smetana K Jr**

The Function of Stromal Fibroblast from Malignant Melanoma

10:50 – 11:05

**Čedíková M, Cendelín J, Houdek Z, Kulda V, Babuška V, Pacherník J, Vožeh F, Králíčková M**

P19-derived Neuroprogenitors and Naive Cells Survival after Intracerebellar Application in Lurcher Mutant and Wild Type B6CBA Mice

11:05 – 11:20

**Astapenko D, Chieng Jia Jun, Mazurová Y**

Are the Endogenous Neural Stem Cells Able to React to the Neurodegenerative Process in the Striatum?

11:20 – 11:35

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

Cellular Characteristics of Neonatal Human Skin: Consequences for Wound Healing – Preliminary Results

**9:15 – 11:35**

**Sessions in Section B – Experimental Medicine and Sponsor Lecture**

*Chairs: Jirkovská M, Rybářová S*

9:15 – 9:30

**Jirkovská M, Kučera T, Moravcová M, Žižka Z, Krejčí V**

Structure of the Placental Terminal Villous Core in Maternal Diabetes

9:30 – 9:45

**Novotný T, Wasserbauer R, Malíková J, Uhlík J, Vajner L**

Effective Stabilisation of Mast Cell Granules by Sodium Cromoglycate Affects Distribution of Pulmonary Periarterial MMP-13-producing Mast Cells During Acute and Chronic Hypoxia

9:45 – 10:00

**Rybářová S, Muri J, Hodorová I, Vecanová J, Mihalik J**

Expression of DNA Repair Proteins and their Correlation with Basic Prognostic Parameters in Non-Small-Cell Lung Cancer

10:00 – 10:15

**Zemanová Z, Lisá V, Kolínská J**

Germ *Lactobacillus paracasei* Accelerates Differentiation of the Rat Intestinal Cells in Culture

10:15 – 10:35 Coffee Break

10:35 – 10:50

**Szabo P, Kolář M, Dvořánková B, Smetana K Jr**

Activation of Normal Dermal Fibroblasts by Normal and Cancer Epithelial Cells: Lesson for Cancer Research

10:50 – 11:05

**Liška V, Daum O, Novák P, Třeška V, Vyčítal O, Brůha J, Pitule P**

Tumor Infiltrating Lymphocytes as Prognostic Factor of Early Recurrence and Poor Prognosis of Colorectal Cancer after Radical Surgical Treatment

11:05 – 11:20

**Brichová H, Zima T**

Differentiation of Neuroectodermal and Mesenchymal Cells in the Normal and Defective Telencephalon Tissue

***Sponsor Lecture***

11:20 – 11:35

**Soor D – BioTech a.s.**

The New Revolutionary Approach to the Stem Cell Processing

**11:40 – 12:40 Poster Session 2**

*Chair: Brichová H*

**12:40 Lunch**

**Facultative afternoon programme** – Sightseeing tour through Hradec Králové, visit of Fortress Josefov in Jaroměř (20 km from Hradec Králové)

## Wednesday, September 12, 2012

**8:30 – 9:10**

### **Plenary Lecture and Sponsor Lecture**

*Chairs: Kučera T, Vajner L*

8:30 – 8:55

### **Hagen GM, Raška I, Křížek P**

Super-resolution Microscopy Using Single Molecule and Structured Illumination Approaches

### ***Sponsor Lecture***

8:55 – 9:10

### **Kopecká J, Polínek J – Life Technologies Czech Republic s.r.o., Prague**

Labeling and Detection by Life Technologies – Advancements for Everyday Research and Breakthrough Discovery

**9:15 – 10:00**

### **Sessions in Section A – Various Topic**

*Chairs: Kučera T, Vajner L*

9:15 – 9:30

### **Adamčík R, Hřebíková H, Nožičková B, Mokřý J**

Decellularization as a Promising Approach for Tissue Engineering

9:30 – 9:45

### **Makovický Peter, Makovický Pavol, Chrenková M, Kulíšek V**

Our Experiences with Splitting of Muscle Fibers

9:45 – 10:00

### **Němečková I, Kudláčková Z, Popelová O, Štěrba M, Nachtigal P**

Endothelial Response to Sunitinib Treatment in Normotensive and Hypertensive Rats – Immunohistochemical Study

10:00 – 10:20 Coffee Break

**10:20 – 11:05**

### **Sessions in Section A – Various Topic**

*Chairs: Soukup T, Nachtigal P*

10:20 – 10:35

### **Pogorelova MA, Pogorelova VN, Pogorelov AG**

Morphological Changes of Early Mouse Embryo Subjected to Osmotic Stress

10:35 – 10:50

### **Dvořák J, Mokřý J, Sitorová V, Hadži Nikolov D, Ryška A, Richter I, Filip S, Petera J**

Primary Cilium – An Underestimate Organelle

**9:15 – 11:05**

**Sessions in Section B – Teaching of Morphology**

*Chairs: Holibková A, Krajčí D*

9:15 – 9:30

**Kachlík D**

FIPAT – Presence and Future of Anatomical Nomenclature

9:30 – 9:45

**Klepáček I, Zedníková Malá P**

“Bochdalek’s” Skull: Morphology Report and Reconstruction of Face

9:45 – 10:00

**Procházková O, Hájek P, Kuchař M**

Study of Anatomy on the Internet

10:00 – 10:20 Coffee Break

10:20 – 10:35

**Überall I, Flodr P, Křížová K, Faber E, Ehrmann J**

Virtual Microscopy: Applications in Medical Education

10:35 – 10:50

**Nohejlová J, Hájek P, Caisberger F**

The Issue of Macroscopic Staining of Brain Sections for Teaching Purposes

10:50 – 11:05

**Holibková A, Kamarád V**

Moravian Morphologists

**12:00 Closing Session**



## Vybavení laboratoří

- Laboratorní přístroje
- Laboratorní nábytek
- Spotřební materiál



## Výukové modely

- Anatomické
- Resuscitační
- Lékařské
- UZ a RTG



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## Posters

**Monday 14:50 – 15:50**

**Poster Session 1**

**Authors of posters with numbers 1 - 35 should be present**

**Tuesday 11:40 – 12:40**

**Poster Session 2**

**Authors of posters with numbers 36 - 70 should be present**

**1. Al-Kayssi D, Zach P, Bartos A, Zach P, Mrzilkova J, Tintera J, Ripova D**

Additional MRI Measurements Aiding with the Diagnosis of Alzheimer Disease

**2. Bednářová J, Švagr M, Bartoniček J, Naňka O**

Injury To The Lisfranc Ligament Complex In The Athlete: Clinical – Anatomical Correlation

**3. Bezdicikova M, Filipcikova R, Machalek L, Blazkova Z, Poprachova A**

Embalming Methods for Fixation and Preservation of Anatomical Specimens

**4. Blažková Z, Filipčíková R, Bezdičková M, Poprachová A, Kamarádová D, Grambal A, Praško Pavlov I, Kaiserová M**

Continuous Monitoring and a Description of the Interaction of Psychiatric and Neurological Manifestations in Patients with Huntington's Disease

**5. Bolekova A, Kluchova D, Lovasova K, Kolesar D**

New Pathway in Teaching and Learning Gross Anatomy for Dental Students

**6. Boženková E, Fictum P, Buchtová M**

Detection of Fibrillin 1 Mutations in Dogs with the Rupture of Aorta and the Suspicion of Marfan Syndrome

**7. Carbolová T, Kamarád V, Chylíková J, Dvořáčková J**

Morphometric Study of White Adipose Tissue Regional Differences

**8. Celá P, Horáková D, Buchtová M**

The Influence of FGF Inhibitors on the Formation of Mesenchymal Condensation During Chondrogenesis

**9. Čedíková M, Cendelín J, Houdek Z, Kulda V, Babuška V, Pacherník J, Vožeh F, Králíčková M**

P19-derived Neuroprogenitors and Naive Cells Survival after Intracerebellar Application in Lurcher Mutant and Wild Type B6CBA Mice

**10. Černochová D, Krajčí D, Pospíšilová E, Lichnovská R, Erdšosová B**

Practical Examination of Histology Slides Using Electronic Media

**11. Danielisová V, Burda J, Némethová M, Gottlieb M**

Neuroprotective Effect of Bradykinin in Rat Model of Focal Cerebral Ischemia

- 12. El Falougy H, Šelmeciová P, Kubíková E, Šteňová J**  
An Anatomical Study of the Recurrent Artery of Heubner
- 13. Endlicher R., Drahota Z, Staňková P, Milerová M, Kučera O, Ošťádal B, Červinková Z**  
Tissue Specific and Developmental Changes of the Sensitivity of Mitochondrial Permeability Transition Pore to Calcium Load and Oxidative Stress
- 14. Fiala P, Bolek L, Dvořák M, Khadang I, Chacón Gil P, Horák A**  
Use of Alternative Methods in Teaching Anatomy – Can They Replace Practical Sessions?
- 15. Filipčíková R, Bezdičková M, Kutěj V, Hubáček P, Dobiáš M, Vitovjak M, Blažková Z, Poprachová A, Březinová J, Oborná I**  
VTEC - Education Centre for Emergency Medicine and Clinical Anatomy
- 16. Furjelová M, Kovalská M, Tatarková Z, Mešťanová V, Adamkov M**  
Expression of the Hypoxia-Inducible and Tumor-Associated Carbonic Anhydrase IX in Human Breast Cancer
- 17. Gorošová A, Celá P, Buchtová M**  
Microscopic Anatomy of Vertebrates – A New Course for UVPS Students
- 18. Hájek P, Kachlík D**  
Case of a Bizarre Perineal Muscle
- 19. Haviarová Z, Varga I, Šelmeciová P, Elfalougy H**  
Variability of Hemiazzygos Vein
- 20. Haviarová Z, Výbohá D, Durdík Š, Kováč P, Štvrtinová V**  
VEGF in Varicose Vein Wall
- 21. Hesková G, Mellová Y, Holomáňová A**  
Variations of the Shape of the Root of the Posterior Ethmoidal Cells and Sphenoid Sinus
- 22. Hirschová M, Rozinek J, Tůmová L**  
Dog Ovary in the Early Perinatal Period
- 23. Hodorová I, Rybárová S, Vecanová J, Mihalik J**  
Comparison of Expression Pattern of Monoamine Oxidase B with Histopathological Subtypes and Tumour Grade of RCC
- 24. Hrebíková H, Adamčík R, Nožičková B, Mokrý J**  
Decellularization of Skeletal Muscle: Production of Ideal Tissue Engineering Scaffold?
- 25. Hubičková Heringová L, Maňáková E, Zemanová Z**  
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