

Czech Anatomical Society

Czech Society for Histochemistry and Cytochemistry

Masaryk University, Faculty of Medicine, Department of Anatomy

MORPHOLOGY 2024

**55th International Congress of Czech Anatomical Society
60th Lojda Symposium on Histochemistry**

PROGRAMME

- SUNDAY
- MONDAY
- TUESDAY

September 8–10, 2024

Telč, Czech Republic

SUNDAY, SEPTEMBER 8, 2024

17:00–19:00 Opening Ceremony

Chairs: Ondřej Naňka, Ingrid Hodorová, Jaroslav Mokrý, Marek Joukal

Words of Welcome

- President of CAS: doc. MUDr. Ondřej Naňka, Ph.D.
- President of SAS: prof. MUDr. Ingrid Hodorová, Ph.D.
- President of CSHC: prof. MUDr. Jaroslav Mokrý, Ph.D.

Winners' Lectures

Chairs: Naňka O., Mokrý J.

Czech Anatomical Society – Best PhD thesis Award – Winner's Lecture

Fojtík Petr

Syndesmotic lesion in fracture-dislocations of the ankle - Maisonneuve fracture

Czech Society for Histo- and Cytochemistry & BARIA Award – Winner's Lecture

Bretová Karolína

Subpial astrocytes reactivity in the medial prefrontal cortex in the experimental neuropathic pain model

Koubová Kateřina

PTEN and soluble epoxide hydrolase in intestinal cell differentiation

Annual Prize of the Czech Anatomical Society (Bochdalek Prize of CAS)

Musilová Zuzana

Use of free radial forearm and pronator quadratus muscle flap: Anatomical study and clinical application

Khadanovich Anhelina

The communication patterns between the lateral antebrachial cutaneous nerve and the superficial branch of the radial nerve

On the 60th Anniversary of the Lojda Symposium on Histochemistry

Dubový Petr

The memory of Professor Zdeněk Lojda, a pioneer of Czechoslovak histochemistry and a prominent person in Czech science

19:00 Music performance

19:00–20:30 Welcome evening

MONDAY, SEPTEMBER 9, 2024

8:00–8:30 Lecture Hall A – Invited Lecture

Chair: Dubový P.

Kmiec Z., Kiežun J. (Med. Univ. Gdańsk, Poland)

The galaninergic system in the progression of colorectal cancer: the role of immunohistochemistry

8:40–10:00 Lecture Hall A – Molecular and Cell Biology L5

Chairs: Adamkov M., Smetana K., Jr.

Smetana K., Jr., Lacina I., Raška M., Malý P.

Targeting the IL-6 receptor alpha chain to manipulate the cancer microenvironment

Cigerová V., Adamkov M., Grendár M.

SATB2 as a good prognostic marker for colorectal cancer

Krajňáková B., Mešťanová V., Hurta Csizmár S., Výbohová D., Adamkov M.

The role of PRMT5 and DSG2 in precancerous lesions of the uterine cervix.

Mešťanová V., Krajňáková B., Kúdela E., Kalman M., Hurta Csizmár S., Adamkov M.

Prognostic role of E2 & E4 proteins in progression of the cervical lesions

Lacková L., Samec M., Mazuráková A., Dvorská D., Braný D., Kajo K., Adamkov M., Kubatka P.

Epigenetic modulation via Salvia officinalis L. in chemopreventive model of breast carcinoma

8:40–10:00 Lecture Hall B – Experimental Morphology

Chairs: Faghani M., Hampl M.

Faghani M., Alijani M., Mohammadghasemi F., Esmaeili-bandboni A.

Beneficial effects of quercetin on mouse epididymal sperm parameters induced by nicotine

Mohammadghasemi F., Daeihamed M., Fallah Kochakam N., Taghizadeh Valdi A., Faghani M., Farzanegan A.

Tocopherol alleviates oxidative stress and increases androgen receptors in mice testicular tissues under forced swimming in warm water

Čimborová K., Pelková V., Kotasová H., Bohačiaková D., Sedláková V., Hampl A.

From decellularization to proteomics: exploring the lung extracellular matrix across species

Hampl M., Jandová N., Novaková M., Romanová A., Kavková M., Parobková V., Kompaníková P., Čada Š., Zikmund T., Kohoutek J., Buchtová M.
CDK13 mouse mutants as useful models of the CHDFIDD disorder

Pavlíková Z., Zahradníček O., Jelínek Michaelidesová A., Šrámek J., Davídková M., Hovoráková M.

Potential protective interaction of hyperthermia and hydrocortisone addition on fibroblasts proliferation

10:00–10:30 Coffee Break

10:30–11:00 Lecture Hall A – Invited Lecture

Chair: Joukal M.

Brassett Cecilia (Univ. Cambridge, UK)

From Pupil to Professional: The role of anatomy in the journey of a medical student in Cambridge

11:10–12:25 Lecture Hall A – Clinical Anatomy

Chairs: Hodorová I., Joukal M.

Vrzgula M., Josayová L., Lovásová K., Hodorová I.

Ultrasound-guided treatment of upper arm muscle spasticity: an anatomical and radiological study

Musilová Z., Joukal M.

Vascular supply of the dorsal portion of the wrist joint capsule and dorsal capsulotomy

Kohut P., Mezera V., Goals W., Zajíc P., Beneš M., Kachlík D.

Anatomical relationships and variations of the lateral femoral cutaneous nerve to surrounding structures during minimally invasive total hip arthroplasty via the anterior approach

Malakhov S., Shmarhalov A., El Falougy H., Lukáčíková P., Polák Š.

Canals of the zygomatic bone: a morphometric study on dry adult human skulls

Vecanová J., Hvizdošová N., Hodorová I.

Case of the persistence of the female processus vaginalis (canal of Nuck) and review of literature

11:10–12:25 Lecture Hall B – Neurosciences I

Chairs: Dubový P., Kubíčková L.

Dubový P., Rokoský Z., Rábová A.

Priming and signal transduction of delta opioid receptors in dorsal root ganglia neurons in a mouse experimental model of neuropathic pain - utilizing immunohistochemical detection to elucidate intracellular processes

Kubíčková L., Bahavan B., Karafiátová E., Leung V., Joukal M.

The Expression and Cellular Distribution of DOR in Two Different Animal Models During the Orofacial Neuropathic Pain

Voleská E., EmamiAref P., Kubíčková L., Joukal M., Zamani A.

Neuropathic pain and immunoreactive dynamics: Investigating the influence of paclitaxel in brain ventricles

EmamiAref P., Kubičková L., Bakhshinejad B., Dubový P., Joukal M., Zamani A.

The reaction of choroid plexus to chemotherapy

Solár P., Šerý O., Vojtíšek T., Krajsa J., Srník M., Dziedzinská R., Králík P., Kessler M., Dubový P., Joukal A., Balcar V. J., Joukal M.

The Blood-Cerebrospinal Fluid Barrier as a Potential Entry Site for the SARS-CoV-2 Virus

12:15–13:15 Lunch

13:15–13:30 Congress Photo

13:30–15:00 Lecture Hall A – Developmental Morphology

Chairs: Tonar Z., Buchtová M.

Zavhorodnia I., Samec M., Hešková G., Straka L., Janík M., Výbohová D.

Morphological characteristics of developmental anomalies of the thyroid gland: a prospective autopsy-based study

Burianová A., Čížková K., Tauber Z., Koubová K.

In vitro model of trophoblast

Olbertová K., Hrčkulák D., Jesionek W., Kříž V., Hrubá E., Ešner M., Kořínek V., Buchtová M.

Lgr5: an old player with a potentially new role in the mesenchymal cells during development

Mihalik J., Čurgali K., Petrášová D., Hodorová I.

Antioxidant enzymes SOD1 and 2 in rat embryos and female genital organs during preimplantation period of pregnancy

Tonar Z., Vaňková L., Malečková A., Křížková V.

Single Best Answer (SBA) questions for formative and summative assessment in histology and embryology classes

Křížková V., Vaňková L., Bufka J.

Embryology applied (not only) in Pediatrics

13:30–15:30 Lecture Hall B – Symposium on Quality of Teaching Anatomy

15:00–16:00 Coffee Break – Poster Session

16:00–17:00 Lecture Hall A – Oral Morphology

Chairs: Křivánek J., Šedý J.

Šedý J., Kachlík D., Žižka R.

Ligaments of the temporomandibular joint: new classification

Žižka R., Šedý J., Tauber Z.

A histological observation of human immature permanent tooth after failed regenerative endodontic treatment and subsequent root canal treatment

Gonzalez Lopez M., Azam M., Kavková M., Lavický J., Henys P., Sadílek V., Buchtová M., Vořechovský M., Křivánek J.

How is the renewal of ever-growing teeth controlled? Integrating the concepts of regeneration and repair

Steklíková K., Dalecká L., Kubovčík J., Corneloup C., Pantalacci S., Hovořáková M.

Novel genes involved in the first lower mouse molar enamel knot establishment and its early maturation

16:00–17:15 Lecture Hall B – Clinical Morphology

Chairs: Tauber Z., Mokrý J.

Mokrý J., Čížková D., Reims H. M., Sullivan G.J., Almaas R.

Light microscopy structure of liver parenchyma in Aagenaes syndrome patients

Čížková D., Bezrouk A., Mokrý J., Sullivan G.J., Reims H. M., Almaas R.

Liver ultrastructure in paediatric patients with Aagenaes syndrome

Kolesová H., Neffová K., Zábrodská E., Olejníčková V., Mašek J., Sedmera D.

Jagged1 disrupted signaling in conditional deletion mouse model and single nucleotide variant of patient-based mouse model causes severe cardiac defects – morphology and physiology.

Makovický P., Tůmová E., Makovická M., Volek Z.

The influence of feed restrictions on small bowel parameters on an experimental rabbit model

Tauber Z., Burianová A., Koubová K., Mrštík M., Jirkovská M., Čížková K.

The interplay of inflammation and placenta in maternal diabetes: insights into Hofbauer cell expression patterns

17:15–17:45 Meetings of society committees of the CAS and CSHC

17:45–18:15 Plenary meetings of the CAS and CSHC

19:30 Social evening

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9:00–10:30 Lecture Hall A – Neurosciences II.

Chairs: Zamani A., Kubíčková L.

Cesnáriková S., Sedník J., Fojtík P., Amruz Černá K., Pospíšilová V., Váňová T., Bohačiaková D.

Unraveling Alzheimer's Disease Mechanisms Using 3D Cerebral Organoids Derived from Induced Pluripotent Stem Cells

Jeřábková K., Orviská P., Zareravasan A., Dianat M., Joukal A., EmamiAref P., Brázda V., Zamani A.

Investigate the Role of Choroid Plexus in Alzheimer's Disease

Orviská P., EmamiAref P., Jeřábková K., Brázda V., Zamani A.

Tau phosphorylation and neuroinflammatory response to A β in choroid plexus cells

Báleントvá S., Kalenská D., Borbélyová V., Filová B., Muríň P., Kecskés I.

Ionizing radiation-induced histological and functional changes in the brain under experimental conditions

Zamani A., Kocourková K., Kadlecová M., Mikulka F., Minaříková R., Smolka P., Rábová A., EmamiAref P., Kubíčková L., Hašanová K., Joukal M., Minařík A.

In vitro study of materials for functional replacements in nerve tissue regeneration

Báčová T., Dvořáková V., Vilímek M., Kachlík D., Báča V., Horák Z.

Changes in the loading of anatomical structures of the intact eye and the eye implanted with an artificial intraocular lens during blunt impact in a biomechanical model

9:00–10:20 Lecture Hall B – Anatomical Terminology

Chairs: Musil V., Nařka O.

Nařka O., Bartoníček J.

Terminology of the growing long bone: A historical study

Musil V., Modrý M., Stingl J., Kachlík D.

Evolution of the term naming the 8th cranial nerve

Stingl J., Riedlová J., Mrzílková J., Musil V.

Finis coronat opus

Pořízková K., Račanská M.

Anatomical Nomenclature from a Linguistic Perspective: a Data-Driven Approach

Šimon František

Slovak and Czech anatomical terms with prefixes pred- / před-, i. e. in front of, and za-, i. e. behind.

Sponsor Lecture

Krupa Michal (Elsevier Health)

Anatomy Academy: Empowering Education for In-depth Understanding

10:30–11:00 Coffee Break

11:00–12:00 Lecture Hall A – Varia

Chairs: Račanská M.

Korim F., Kuricová M., Ivašková S., Eberlová L.

Incidence of duplication of the caudal vena cava in companion animals

Shbat A., Moraes C., Malá-Zedníková P., Beránek M., Kvasilová A., Klepáček I.

Face approximations of the Czech Countess Sidonia von Schlick

Čížková Kateřina

New ImageJ/Fiji script for assessment of nuclear receptor translocation

12:00–12:15 Closing ceremony

12:15 Lunch