

PUBLIC LECTURE EVALUATION

Masaryk University

Faculty	Faculty of Medicine
Procedure field	Anatomy, Histology and Embryology
Applicant	doc. MUDr. Marek Joukal, Ph.D.
Lecture date	15. 11. 2024, 14.00
Lecture topic	The Blood-Cerebrospinal Fluid Barrier and Choroid Plexus in Disease
Persons present (number)	32
Designated evaluators (board members)	prof. RNDr. Ondřej Slabý, Ph.D. Professor Cecilia Brassett prof. MUDr. Karel Smetana, DrSc. prof. MUDr. Mgr. Zbyněk Tonar, Ph.D.

Associate Professor Marek Joukal presented the public lecture “The Blood-Cerebrospinal Fluid Barrier and Choroid Plexus in Disease”. The lecture comprehensively summarized the role of the choroid plexus and blood-cerebrospinal fluid barrier in inflammatory diseases, ischemic stroke, subarachnoid hemorrhage, the neuroinflammatory reaction of the choroid plexus following peripheral nerve injury, the role of the choroid plexus in neurodegenerative diseases and cancers. Assoc. Prof. Joukal presented his research data about cellular and molecular events in the choroid plexus following peripheral nerve injury and subarachnoid hemorrhage. At the end of the presentation, Assoc. Prof. Joukal provided future perspectives on the choroid plexus and blood-cerebrospinal fluid barrier research. I want to emphasize that the candidate presented complicated nervous system reactions very illustratively, showing his excellent teaching abilities. The lecture lasted 40 minutes, followed by an enriched 20-minute discussion session. The committee and audience members asked Assoc. Prof. Joukal several challenging questions. The questions were focused on the role of the inflammatory cytokines in blood-cerebrospinal fluid barrier permeability, future perspectives in Alzheimer's disease research and the role of the choroid plexus in its pathophysiology. Despite the complexity of the questions, Assoc. Prof. Joukal demonstrated deep insight into the topic and impressive academic discussion skills.

Conclusion

The lecture delivered by doc. MUDr. Marek Joukal, Ph.D., entitled "The blood-cerebrospinal fluid barrier and choroid plexus in disease" and delivered as part of the professor appointment procedure, **demonstrated** sufficient scholarly qualifications and pedagogical capabilities expected of applicants participating in a professor appointment procedure in the field of Anatomy, Histology and Embryology.

Date: 15. 11. 2024

prof. RNDr. Ondřej Slabý, Ph.D.

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