

PUBLIC LECTURE EVALUATION

Masaryk University

Faculty	Faculty of Medicine
Procedure field	Anatomy, Histology and Embryology
Applicant	MUDr. Marek Joukal, Ph.D.
Lecture date	20.4.2021
Lecture topic	Spread of neuroinflammatory reaction to the nervous system after peripheral nerve injury
Persons present (number)	32
Designated evaluators (board members)	prof. RNDr. Ondřej Slabý, Ph.D. doc. MVDr. Aleš Hampl, CSc. prof. MUDr. David Kachlík, Ph.D. prof. Lars Klimaschewski, MD, PhD

The habilitation public lecture of MUDr. Marek Joukal, Ph.D. took place on 20th April 2021 in the seminary room 1S06 at the Department of Anatomy, Faculty of Medicine MU (F01B2). The lecture topic was "Spread of neuroinflammatory reaction to the nervous system after peripheral nerve injury" and was presented in English.

The lecture was done in a hybrid mode. In person were present: the applicant MUDr. Marek Joukal Ph.D., the chairman of the committee prof. RNDr. Ondřej Slabý, Ph.D., the committee member doc. MVDr. Aleš Hampl, CSc. and other 7 attendees; via MS Teams were present the committee member prof. Lars Klimaschewski M.D., Ph.D, the committee member prof. MUDr. David Kachlík, Ph.D and other 21 attendees. Total number of lecture attendees was 32. I would like to highlight presence of the vice-dean prof. MUDr. Petr Štourač, Ph.D., the head of the Neurosurgery Clinic prof. MUDr. Radim Jančálek, Ph.D., the head of the Neurology clinic prof. MUDr. Milan Brázdil, Ph.D. Moreover, reviewers of Dr. Joukal's habilitation thesis prof. MUDr. et Mgr. Zbyněk Tonar, Ph.D. and prof. RNDr. Ivan Varga, Ph.D. et Ph.D. attended the lecture.

The lecture fully summarized general neuroinflammatory reaction in the nervous system following peripheral nerve injury. Dr. Joukal explained general molecular and cellular events of neuroinflammation. He gave an overview of nociception, nerve injury and experimental models of peripheral nerve injury. In addition, he demonstrated role of the nervous system barriers in spread of neuroinflammation to the higher levels of the central nervous system. At the end of presentation, Dr. Joukal provided perspective research plan of hot topics in the field of neuroinflammation. I would like to emphasize that the candidate presented complicated

reactions of the nervous system in a very illustrative way which showed his excellent teaching abilities.

The lecture lasted 45 minutes, followed by enriched discussion session. The committee and audience asked Dr. Joukal several challenging questions. The questions were focused on a role of neuroinflammation in nerve regeneration and its clinical application. The role of the blood-DRG barrier in spread of inflammatory response to the higher levels including its phylogenetical role was also highly discussed. Despite questions complexity, Dr. Joukal expressed very impressive skills for academic discussion.

Conclusion

The lecture delivered by MUDr. Marek Joukal, Ph.D., entitled "Spread of neuroinflammatory reaction to the nervous system after peripheral nerve injury lecture title" and delivered as part of the habilitation procedure **demonstrated** sufficient scholarly qualifications and pedagogical capabilities expected of applicants participating in a habilitation procedure in the field of Anatomy, Histology and Embryology.

Date:

prof. RNDr. Ondřej Slabý, Ph.D.

doc. MVDr. Aleš Hampl, CSc.

23. 04. 2021

V