

PUBLIC LECTURE EVALUATION

Masaryk University

Faculty**Procedure field****Applicant****Lecture date****Lecture topic**

Persons present
(number)

Designated evaluators
(board members)

Faculty of Medicine

Pathological Physiology

MUDr. Jaromír Gumulec, Ph.D.

10. 12. 2021, 13.30

Determinants of prostate cancer cell stiffening and new approaches to study this

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prof. MUDr. Kateřina Kaňková, Ph.D.

prof. MUDr. Martin Vokurka, CSc.

prof. Dr. Michael Hausmann

prof. Ing. Jiří Burša, Ph.D.

doc. Mgr. Petr Beneš, Ph.D.

Dr. Jaromír Gumulec delivered his lecture "*Determinants of prostate cancer cell stiffening and new approaches to study this*" on Friday 10th December 2021 in hybrid form (due to the current epidemiological measures in COVID-19 pandemics). The duration of the lecture was 45 minutes and the lecture was delivered in fluent English. The presentation was very clear and well organized to allow audience to follow the research topic and dr. Gumulec credible original contributions to the field easily. The candidate presented novel technological approaches on a new, highly challenging subject, mechano-physical parameters of cells in relation to cancer and metastasis with a clear focus on high-throughput non-invasive techniques. The discussion following the lecture (question being asked by physically present as wells as online audience) was live and entertaining and dr. Gumulec promptly reacted and covered all remaining gaps. All members of the habilitation board concluded that Jaromír Gumulec was able to present cellular pathophysiology of invading cancer cells and relevant modern methodology in a very clear, focused way so that also non-experts in the relevant fields could understand the major points. The answers to the questions were convincing. Therefore, both scientific and pedagogical qualities of dr. Gumulec were presented convincingly and in outstanding quality.

Conclusion

The lecture delivered by MUDr. Jaromír Gumulec, Ph.D., entitled "Determinants of prostate cancer cell stiffening and new approaches to study this" and delivered as part of the habilitation appointment procedure, **demonstrated** sufficient scholarly qualifications and pedagogical capabilities expected of applicants participating in a habilitation procedure in the field of Pathological Physiology.

Date: 13.12. 2021, Brno

prof. MUDr. Kateřina Kaňková, Ph.D.

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