M U N I

Annex No. 11 to the MU Directive on Habilitation Procedures and Professor Appointment Procedures

PUBLIC LECTURE EVALUATION

Masaryk University	
Faculty	Faculty of Science
Procedure field	Biomolecular Chemistry and Structural Biology
Applicant	Konstantinos Tripsianes, Ph.D.
Lecture date	May 14, 2026
Lecture topic	Studying biomolecular structures, interactions, and molecular mechanisms by NMR
Persons present (number)	46 on-site, 5 online
Designated evaluators (board members)	prof. RNDr. Michaela Wimmerová, Ph.D. (on-site) prof. Mgr. Richard Štefl, Ph.D., (on-site) Prof. Cyril Dominguez (online) Prof. Georgios Spyroulias (online)

The habilitation lecture entitled "Studying biomolecular structures, interactions, and molecular mechanisms by NMR" was given at the Masaryk University Campus Bohunice, Building B11, room 2.05, and was also streamed on-line using MS Teams. The lecture was attended by four members of the habilitation committee and one of the reviewers, prof. Anastassis Perrakis. It provided a comprehensive and well-structured overview of the applicant's research activities and scientific achievements.

The lecture successfully combined an introduction to the principles and challenges of biomolecular NMR spectroscopy with the presentation of original methodological developments and their applications to biologically relevant systems. Particular attention was given to automated NMR resonance assignment and structure determination, followed by recent studies addressing the interplay between structured and intrinsically disordered protein regions and their functional implications for cellular signaling.

The presentation was especially impressive from a pedagogical perspective. Complex experimental approaches and molecular mechanisms were explained in a clear, accessible, and engaging manner, supported by well-chosen examples and effective visualizations. The applicant demonstrated an excellent ability to guide the audience from fundamental concepts to advanced research questions while maintaining scientific accuracy and depth.

The subsequent scientific discussion addressed both the specificity of multisite phosphorylation in intrinsically disordered protein regions and the potential of combining NMR spectroscopy with AI-based approaches for protein structure determination. All questions raised during the discussion were addressed clearly and comprehensively,

demonstrating the applicant's profound expertise, critical thinking, and ability to place his research in a broader scientific context.

The lecture convincingly illustrated the applicant's scientific independence, methodological expertise, and ability to integrate structural and functional approaches to address challenging biological questions. Overall, the presentation demonstrated both outstanding scientific competence and very good communication and teaching skills, fully consistent with the expectations of a habilitation candidate.

Conclusion

The lecture delivered by Konstantinos Tripsianes, entitled "Studying biomolecular structures, interactions, and molecular mechanisms by NMR" and delivered as part of the habilitation appointment procedure, **demonstrated** sufficient scholarly qualifications and pedagogical capabilities expected of applicants participating in a habilitation appointment procedure in the field of Biomolecular chemistry and structural biology.

The lecture took place in a hybrid form at 2 p.m. The above-mentioned members of the board attended the lecture and provided its evaluation. All designated evaluators are familiar with the text of the evaluation and agree with it.

Date: May 14, 2026

Michaela Wimmerová