

Příloha č. 12 směrnice MU Habilitační řízení a řízení ke jmenování profesorem

HODNOCENÍ PŘEDNÁŠKY PRO ODBORNOU VEŘEJNOST

Masarykova univerzita

Fakulta

Obor řízení

Uchazeč

Datum přednášky

Téma přednášky

Přítomno posluchačů

(počet)

Pověření hodnotitelé

(členové komise)

Přírodovědecká

Biochemie

doc. Mgr. Marek Petřivalský, Ph.D.

26.9.2019 12 00

Signalling pathways of NO in plant development and abiotic

stress responses

71..... (viz prezenční listinu v příloze)

prof. RNDr. Jiří Fajkus, CSc

prof. RNDr. Bořivoj Klejdus, Ph.D.

prof. RNDr. Zdeněk Glatz, CSc.

The public professorship lecture took place as a part of a scientific seminar of the Department of Biochemistry, Faculty of Science, Masaryk University. In addition, scientists from other departments of Faculty of Science and CEITEC were invited as well. Its theme "Signalling pathways of NO in plant development and abiotic stress responses" was selected by the committee members from three possibilities proposed by the applicant.

In his lecture, which was delivered in the English language, doc. Mgr. Marek Petřivalský, Ph.D. presented an overview of current knowledge of signalling pathways of nitric oxide (NO) in plants. He summarised a specific molecular mechanism of NO signalling integrated into signal perception and transduction during regulation of plant development and responses to environmental conditions. The key signalling pathways of NO based on protein post-translational modifications, such as S-nitrosylation, were then outlined in greater detail. Special attention was paid to the role of S-nitrosoglutathione reductase as a key enzyme regulating S-nitrosation status of plant proteins within signalling pathways of NO. In subsequent part of the lecture, NO functions in selected cases of plant abiotic stress responses were presented, including results of experimental studies published by MP's research group. doc. Mgr. Marek Petřivalský, Ph.D. concluded his lecture by an outline of future challenges and perspectives within the field of plant NO studies.

It can be stated that the lecture was well organized, easily understandable and interesting for the audience attending.

During the discussion which followed, doc. Mgr. Marek Petřivalský, Ph.D. answered both the questions from the committee members as well as several questions from the people present in the auditorium. At that point, the applicant demonstrated a sufficient orientation within the subject of his research interest.

Závěr

Přednáška doc. Mgr. Marka Petřivalského, Ph.D. "Signalling pathways of NO in plant development and abiotic stress responses", přednesená v rámci řízení ke jmenování profesorem, **prokázala** dostatečnou vědeckou kvalifikaci a pedagogickou způsobilost uchazeče, standardně požadovanou v rámci řízení ke jmenování profesorem v oboru Biochemie.

Brno dne 26.9.2019

prof. RNDr. Jiří Fajkus, CSc

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