

Masaryk University	
Faculty	Faculty of Science
Procedure field	Molecular Biology and Genetics
Applicant	doc. RNDr. Eva Bártoová, Ph.D., DSc.
Applicant's home unit, institution	Institute of Biophysics of the Czech Academy of Sciences
Board members	
Chair	prof. RNDr. Jan Šmarda, CSc. <i>Faculty of Science, Masaryk University</i>
Members	prof. RNDr. Jiří Doškař, CSc. <i>Faculty of Science, Masaryk University</i> prof. RNDr. Ivan Raška, DrSc. <i>Institute of Biology and Medical Genetics, First Faculty of Medicine, Charles University and General University Hospital in Prague</i> prof. RNDr. Libor Grubhoffer, CSc. <i>University of South Bohemia in České Budějovice; Biology Centre CAS</i> Dr. Jean-Louis Mergny <i>Institut Polytechnique de Paris, Palaiseau, France</i>

Evaluation of the applicant's scholarly/artistic qualifications

The Board recognized Eva Bártoová as an internationally respected scientist in the fields of epigenetics, chromatin structure, DNA repair, advanced microscopic techniques, and stem cell research. Recently, she has expanded her scientific interests to the study of RNA modifications related to DNA damage repair and mouse embryonic stem cell differentiation. Her scientific achievements are documented by nearly 120 original scientific articles registered in the Web of Science database, of which she is the first or corresponding author in 66 cases. These articles have been cited a total of 1766 times (excluding self-citations). Her h-index reaches a value of 26. More than half of the original scientific papers and review articles were published in journals ranked in the first or second quartile. Since 2019, she has published 15 papers, all in journals ranking in Q1 and Q2. She has also co-authored three chapters in scientific books and one domestic patent. As a Principal Investigator, she has been involved in 13 funded research projects, including prestigious international grants such as COST, Marie Curie, Norwegian Funds, and has been a member of the research team for three other projects. The Board agrees that doc. Bártoová is a mature personality whose scientific achievements clearly exceed the requirements for appointment as a professor in the field of Molecular Biology and Genetics.

Conclusion: The applicant's scholarly/artistic capabilities **meet** the requirements expected of applicants participating in a professor appointment procedure in the field of Molecular Biology and Genetics.

Evaluation of the applicant's pedagogical experience

Doc. Bártoová has been cooperating with Masaryk University for a long time, and actively participates in regular teaching in the form of lectures and exercises as a lecturer and thesis supervisor. She participated in teaching the courses Molecular Physiology of the Genome (10 semesters), Analytical Cytometry (13 semesters), Modern Methods of Cell Biology (3 semesters) at the Faculty of Science and taught the course Molecular and Cellular Pathophysiology at the Faculty of Medicine of Masaryk University for 2 semesters. All of the above courses were part of the curricula of the master's degree programs. Doc. Bártoová is very active as a supervisor of student theses: she has been or is a supervisor of 12 bachelor's theses, 13 master's theses and 10 doctoral theses. Nine of her ten doctoral students have successfully defended their dissertations, and one dissertation is currently being prepared for defence. All successfully defended dissertations to date have been of high scientific quality and positively evaluated by the relevant committees. Due to her expertise and pedagogical experience, doc. Bártoová is a sought-after expert in various professional committees, scientific boards and commissions for state doctoral examinations and defences. For example, as an external member of the Commission for State Doctoral Examinations and Defences, she frequently participates in doctoral procedures in the PhD degree program Molecular and Cellular Biology and Genetics at the Faculty of Science, MU (in 2017–2022, at least 50 times) and thus significantly contributes to their quality with her overview and pedagogical skills. Since 2010, she has also been an external member of the Doctoral Board of the PhD degree program Biochemistry at the Faculty of Science. The Board also acknowledges other pedagogical activities of doc. Bártoová, such as reviewing the habilitation theses at the Faculty of Science, Charles University in Prague, co-authoring two teaching texts published by Springer and Elsevier, and publishing popularisation articles in the journals Scientific American and Týden (in Czech). Overall, the Board gives a positive assessment of doc. Bártoová's pedagogical activities. Her open approach to teaching at the university, although she focuses mainly on experimental scientific work at the Institute of Biophysics of the Academy of Sciences, is exemplary in many respects.

Conclusion: The applicant's pedagogical capabilities **meet** the requirements expected of applicants participating in a professor appointment procedure in the field of Molecular Biology and Genetics.

Evaluation of the applicant as a respected and recognized scholarly or artistic figure in a given field

Doc. Bárťová has been the director of the Institute of Biophysics of the Academy of Sciences of the Czech Republic since 2018. She is a member of the Scientific Boards of the Faculty of Science MU, the Faculty of Medicine MU, and the Academy of Sciences of the Czech Republic. In the past, she served on the board of the Czech Science Foundation and has been a member of the editorial board of the Journal of Stem Cells since 2010. She is also a sought-after ad hoc reviewer for papers considered for publication in leading scientific journals, such as NAR. In 2020, she was awarded a membership in the prestigious EMBO. She actively participates in various professional committees and scientific societies, such as the Czech Society of Cell Biology, the Czech-Slovak Biological Society, the Czech Mycological Society, and the Czech Biophysical Society, of which she is the president. Her scientific erudition and the quality of her scientific work are reflected in the dense network of international relationships she has established between her laboratory and leading foreign institutions in Germany, the Netherlands, the United Kingdom, Israel, Russia, and Norway. In 2019, doc. Bárťová was awarded a bronze medal by Masaryk University. The Board considers doc. Bárťová to be a successful scientist who is recognised and respected in the international scientific community.

Conclusion: The applicant **is** a respected and recognized scholarly figure in his/her field. The applicant **has** made a significant contribution to the development of his/her field. The applicant **constitutes** a leading figure in his/her field of scholarship or research.

Secret vote results

Voting took place: electronically

Number of board members		5
Number of votes cast		4
of which	in favour	4
	against	0

Board decision

Based on the outcome of the secret vote and following an evaluation of the applicant's scholarly or artistic qualifications, pedagogical experience and role as a respected and recognized scholarly or artistic figure, the board hereby submits a proposal to the Scientific Board of the Faculty of Science of Masaryk University to **appoint the applicant professor** of Molecular Biology and Genetics.

In Brno on 20.10.2023

prof. RNDr. Jan Šmarda, CSc.