



EVA BÁRTOVÁ

director

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<https://www.ibp.cz/en/research/departments/molecular-cytology-and-cytometry/group-of-the-structure-and-function-of-the-cell-nucleus>

<https://www.facebook.com/Cell-Nucleus-227403324081908>

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Eva Bártoová graduated from the Faculty of Science of Masaryk University (MU) in Brno. For two years, she was an assistant professor at the Department of Pathophysiology, the Faculty of Medicine, Masaryk University, Brno. In 1997 she was recruited as a young scientist at the Institute of Biophysics (IBP), wherein in 2005, she established her laboratory focused on epigenetics. In 2010, she became the associate professor of Genetics and Molecular Biology. Since 2016 she has been working as a department leader at IBP. In 2016-2017 she completed her internship at the 1st Medical Faculty of the Charles University in Prague, but in 2017, she became director of the Institute of Biophysics Czech Acad. Sci. In 2018, she received a bronze medal from Masaryk University (MU), which was awarded to the 100 best students graduating during 100 years of MU. Eva Bártoová defended her Research professor degree (DSc.) in 2019, and in 2020 she was elected as a member of the European Molecular Biological Society (EMBO member 2020), which is a prestigious award for scientists working in the field of molecular biology. So far, she has published more than 120 scientific papers; according to Google Scholar H-index is 29, and the number of citations is more than 3500. Under her leadership, more than 20 students defended their work, including eight dissertations. She works in three scientific councils (the Faculty of Medicine MU, the Faculty of Sciences MU, and the Czech Academy of Sciences). Also, EB has been working in panels of the Czech Science Foundation (the highest grant authority in the Czech Republic) for several years, and annually she is an opponent of many students' theses. Also, she is a member of the Molecular biology commission for doctoral dissertations at MU; and serves as an ad-hoc reviewer in many scientific journals, including NAR or Epigenetics & Chromatin, etc. As the director of the Institute of Biophysics, she supports parents' work with children, especially women in science. In this sense, she established a kid's corner at the institute, and she supports a part-time job for parents with small children. Also, she worked for the Strategy AV21, an activity of the Czech Academy of Sciences. The main scientific focus of Eva Bártoová concerns epigenetics and DNA repair; the most important discovery is the description of the function of OCT4 protein in DNA repair processes in embryonic stem cells. Her team studies the structure and function of chromatin in tumor and embryonic stem cells and during cell differentiation. The research group optimizes new modern approaches of high-resolution cytometry, especially the methodology of advanced confocal microscopy. The principles of advanced confocal microscopy and FISH technique Eva studied, in a frame of EU project 3D genome (coordinated by prof. Roel van Driel, Netherlands), and during her short-time visits in the laboratory of prof. Christoph Cremer (Heidelberg, Germany), a founder of 4pi super-resolution microscopy. Eva Bártoová is (was) PI of several national projects (approximately ten Czech projects), the prestigious EU project, Marie Curie, and two projects supported by Norway funds. In the case of international projects, for several years (2011-2014), she coordinated the work of Czech-Polish and Russian scientists, and following three years, she supervised the Czech-Norwegian cooperation. She also guarantees the work of the Czech Biophysical Society, which cooperates with the International Union of Pure and Applied Biophysics (IUPAB). She is also annually invited as a speaker at international conferences, such as the FEBS meeting in St. Petersburg (2013), Wilhelm Bernhard Workshop in Vienna (2015), Meeting on ES cell biology, Eilat, Israel (2017), or conference on the epigenetics of aging, Halle, Germany (2019), EMBO members' meeting 2021 in Heidelberg, and others.