

Eva Mikulášková (*1981)

Employer:

Masaryk University, Faculty of Science, Department of Botany and Zoology, Kotlářská 2, Brno, Czech Republic; researcher – bryologist, lecturer of bryological courses

The Silva Tarouca Research Institute for Landscape and Ornamental Gardening, Department of Forest Ecology, Lidická 25/27, Brno, Czech Republic; researcher – bryologist

Education

2012 Ph.D. in Charles University, Faculty of Science, Department of Botany, Prague, Czech Republic; specialization: Botany; Doctoral thesis: “Biology, ecology and invasion characteristics of *Campylopus introflexus* in the Czech Republic“

2004 Mgr. in Charles University, Faculty of Science, Department of Botany, Prague, Czech Republic; specialization: Biology; Master thesis: „Biodiversity and ecology of the bryophytes in selected core zones of the National Park Šumava.“

Jobs and positions

2018 – present The Silva Tarouca Research Institute for Landscape and Ornamental Gardening; Department of Forest Ecology, Brno, researcher – bryologist;

2017 – present A self-employed person in the field of professional bryological surveys.

2006 – present Masaryk University, Faculty of Science, Department of Botany and Zoology, researcher – bryologist, teacher, supervisor of bryological theses

2010 – 2018 Maternity leave (with part-time jobs in current positions)

2005–2009, 2017 Administration of Šumava National Park, Vimperk, researcher - bryologist.

2003–2006 Charles University, Faculty of Science, Department of Botany, researcher – bryologist.

Research interest: bryofloristics, ecology of bryophytes, mire bryophytes, taxonomy of *Sphagnum*, epiphytic and epixylic bryoflora in natural forests, invasive mosses, bryophyta on alluvial river deposits, molecular methods (isozymes, AFLP, microsatellites, Sanger sequencing, NGS RAD-seq), population ecology of mire bryophyta, restoration of peat bogs.

Teaching: Biology and ecology of bryophytes – lectures and practical course, Bryological field excursion, Mire ecology field excursion; Supervisor of several Bc. and 2 Mgr. thesis in Masaryk University, Faculty of Science, Department of Botany and Zoology.

Other: 2010-2022 vice-chairman of Bryology-lichenology section of the Czech Botanical Society; since 2010 technical editor of reviewed bryology-lichenological journal *Bryonora*

Grant projects:

Grant Agency of the Czech Republic (2019-2022) GJ19-20530Y: “Current refugia of endangered fen plants and drivers of their genetic diversity along the large-scale gradient of habitat connectivity” (EM applicant).

Norway Grants NF-CZ07-ICP-3-104-2015: “DNA barcoding of cryptogams, including biosystematic studies of selected groups” (Bilateral Scholarship Programme; main applicant: A. Košuthová) - EM co-applicant

Grant Agency of the Czech Republic (2010-2014) GAP505/10/0638: “Calcium tolerance in *Sphagnum*, its physiological and genetic backgrounds, and consequences in mire ecology” (applicants: M. Hájek, T. Hájek) - EM research team member.

Grant Agency of Masaryk University (2013) MUNI/C/0921/2012: “Effect of emission load to epiphytic bryophytes (*Bryophyta*) on oaks (*Quercus spp.*)” (applicant J. Procházková) - EM grant of project

Grant Agency of Charles University (2004-2006) •. 258/2004: •Invasion and population biology of the moss *Campylopus introflexus* (Hedw.) Brid.“ (applicants: Z. Soldán, E. Mikulášková)

University Development Fund (Ministry of Education; G4B 2003); „Ecological study of bryophytes and lichens in Šumava National Park“ (applicants: J. Váha, O. Peksa, E. Mikulášková)

Scientometric parameters

ResearcherID: AAE-3798-2019, ORCID ID: 0000-0002-6122-4265, 17 papers indexed at Web of Science (h-index 8), 193 WOS cites, (accessed 30.11.2022)

Five selected publications:

- Mikulášková E., Hájek M., Veleba A., Johnson M.G. & Hájek T. (2015): Local adaptations in bryophytes revisited: the genetic structure of the calcium-tolerant peatmoss *Sphagnum warnstorffii* along geographic and pH gradients. – *Ecology and Evolution* 5: 229–242.
- Mikulášková E., Veleba A., Šmerda J., Knoll A. & Hájek M. (2017): Microsatellite variation in three calcium-tolerant species of peat moss detected specific genotypes of *Sphagnum warnstorffii* on magnesium-rich bedrock. – *Preslia* 89: 101–114.
- Yousefi, N., Mikulášková, E., Stenøien, H. K., Flatberg, K. I., Košuthová, A., Hájek, M., & Hassel, K. (2019). Genetic and morphological variation in the circumpolar distribution range of *Sphagnum warnstorffii*: indications of vicariant divergence in a common peatmoss. *Botanical Journal of the Linnean Society*, 189(4), 408-423.
- Matyášek, R., Krumpolcová, A., Lunerová, J., Mikulášková, E., Rosselló, J. A., & Kovařík, A. (2019). Unique epigenetic features of ribosomal RNA genes (rDNA) in early diverging plants (bryophytes). *Frontiers in plant science*, 10, 1066.
- Hájek, M., Dítě, D., Horsáková, V., Mikulášková, E., Peterka, T., Navrátilová, J., ... & Horsák, M. (2020). Towards the pan-European bioindication system: Assessing and testing updated hydrological indicator values for vascular plants and bryophytes in mires. *Ecological Indicators*, 116, 106527.

In Brno, 29th November, 2022