

Helena Bestová

Date and place of birth: 22.01.1987, Liberec, Czech Republic

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Education

- 2012-present Ph.D. study, Department of Botany, Faculty of Science, Charles University in Prague; thesis: "Patterns and processes in desmid communities: Insights from functional and phylogenetic approaches"
- 2010-2012 Master's degree in Botany, Department of Botany, Faculty of Science, Charles University in Prague; thesis: "Phylogenetic structure of desmid communities"; diploma with honours
- 2006-2010 Bachelor's degree in Biology., Department of Botany, Faculty of Science, Charles University in Prague; thesis: "Revitalization and biodiversity recovery of peat bogs: a case study of the Babín pools"

Profesional experience

- 2017-present, Charles University in Prague, researcher
- June 2018 – September 2018, Centre d'Ecologie Fonctionnelle et Evolutive (CEFE), Montpellier, France, trainee

Teaching experience

Botany of non-vascular plants (for bachelor students) – practical course

Exercise in Protistology

Field course in botany

Phycological field excursion

supervision of Bachelor and Master thesis

Publications

Steinová J., Škaloud P., Yahr R., **Bestová H.**, Muggia L., Reproductive and dispersal strategies shape the diversity of mycobiont-photobiont association in *Cladonia* lichens. *Molecular Phylogenetics and Evolution* 134, 2019

Bestová H., Munoz F., Svoboda P., Škaloud P., Violle C.; Ecological and biogeographical drivers of freshwater green algae biodiversity: from local communities to large - scale species pools of desmids. *Oecologia* 186, 2018

Jurdíková K., Kulichová J., **Bestová H.**, Leliaert F. & Škaloud P.; Exploration of Nuclear DNA Markers for Population Structure Assessment in the Desmid *Micrasterias rotata* (Zygnematophyceae, Streptophyta), *Journal of Eukaryotic Microbiology*, 2014

Grant projects

- 2017 - present Czech Science Foundation - Generating the species – towards a better understanding of speciation mechanisms in eukaryotic microorganisms, co-researcher, principal researcher Pavel Škaloud
- 2012 – 2014 Science foundation of the Charles University - Phylogenetic structure of desmid communities; principal researcher
- 2011 – 2012 Science foundation of the Charles University - Relative contributions of neutral and niche-based processes to the desmid community structure along local spatial scale; co-researcher, principal researcher: Svoboda, P.
- 2010 – 2012: Science foundation of the Charles University - Population dynamics in desmids (Zygnematophyceae, Streptophyta) on small spatial scale; co-researcher, principal researcher: Jurdíková, K.

Stays abroad

- June – September 2018, Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier, France, traineeship
- September - December 2016: Centre d'Ecologie Fonctionnelle et Evolutive , Montpellier, France, French Government scholarship programme
- November 2014 - July 2015: Centre d'Ecologie Fonctionnelle et Evolutive, Montpellier, France, Erasmus+ traineeship program
- August - December 2008: Universitet i Bergen, Norway, Erasmus program

Conferences

Bestová H., Škaloud P., Lenormand T. and Violle C. 2017; "Size, shape, and growth: allometric scaling and morphological diversification of Micrasterias", 58th meeting of the Czech phycological society, Ostrava; presentation

Bestová H., Munoz F., Svoboda P, Škaloud P. and Violle C. 2016; "Functional biogeography of desmids", 57th meeting of the Czech phycological society, Prague; presentation

Bestová H., Munoz F., Svoboda P, Škaloud P. and Violle C. 2015; "Everything is NOT everywhere: network and trait-based approaches to microbial communities", Annual Meeting of British Ecological Society, Edinburgh, GB; presentation

Bestová H., Violle C. and Škaloud P. 2014; "The environment selects and limiting similarity matters! Trait-based biogeography of green algae"; Joint 2014 Annual Meeting of British and French Ecological Society, Lille, FR; poster

Bestová H., Škaloud P. 2013; "Processes structuring desmid communities – phylogenetic approach"; 98th ESA Annual Meeting, Minneapolis, MN (USA); poster

Languages

English – highly proficient in spoken and written English

Spanish – basic communication skills

French – basic communication skills

Skills

Computer skills: Advanced programming in R (S), MS Office, Adobe

Data analysis: Analysis of ecological data, species distribution modelling, phylogenetic analysis, image analysis (ImageJ)

Molecular techniques: nucleic acid isolation, protein isolation, PCR and cloning

Isolation of monoclonal algal cultures from natural samples and cultivation

Light microscopy and freshwater algae determination, advanced in desmid determination

In Prague 25.3.2019

Helena Bestová