Jana Voříšková **Curriculum vitae**

Institute of Microbiology, Czech Academy of Sciences
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EDUCATION

Ph.D., Faculty oaf Science, Charles University, Czechia **2009-2013**
Specialization: Molecular and cell biology, genetics and virology

M.Sc., Faculty of Science, Charles University, Czechia **2007-2009**
Specialization: Molecular biology and genetics of eukaryotes

B.Sc., Faculty of Science, Charles University, Czechia **2004-2007**
Specialization: Molecular biology and biochemistry of organisms

RESEARCH INTERESTS

Molecular microbial ecology with focus on soil microorganisms. Structure and function of fungal and bacterial communities in soil ecosystems. Climate change and the response of microbes to predicted environmental shifts. Microbial control over organic matter transformation and nutrient cycling.

RESEARCH EXPERIENCE

Academy of Sciences of the Czech Republic **2019-present**
Institute of Microbiology, Laboratory of Environmental Microbiology
Research Scientist

Lawrence Berkeley National Laboratory **2016-2019**
Climate and Ecosystem Sciences Division
Postdoctoral Fellow

Geological Survey of Denmark and Greenland **2013-2015**
Department of Geochemistry
Postdoctoral Fellow

University of Copenhagen **2013-2015**
Center for Permafrost
Postdoctoral Fellow

Academy of Sciences of the Czech Republic **2007-2013**
Institute of Microbiology, Laboratory of Environmental Microbiology
Ph.D. Candidate, Undergraduate Student

Career Gaps – Maternity leaves **2019, 2022**

RESEARCH FUNDING

Response of soil microbial communities to changing climate in Arctic tundra **2024**
Principal Investigator, Joint Genome Institute – Community Science Program

Response of microbial communities to changing climate in Arctic tundra soils **2021-2026**
Principal Investigator, Czech Science Foundation; 900,000 EUR

MicroWar: Response of soil microbial communities to climate warming: from local to global scale **2021-2025**
Marie Skłodowska-Curie Individual Fellowship; 150,000 EUR

BRYOSOIL: Effects of bryophytes changes on belowground soil microbial ecosystems under long-term experimental warming in Norway **2021**
Co-Principal Investigator, INTERACT

Fungal community in hardwood forest soil - identification of active decomposers and expression of extracellular enzymes **2011-2013**
Principal Investigator, Grant Agency of Charles University; 30,000 EUR

Characterization of soil microbial communities engaged in lignocellulose decomposition using the combination of stable isotope probing with metaproteomics and metagenomics **2011**
FEMS Research Fellowship, Research stay at University of Greifswald, Germany; 2,000 EUR

SKILLS

Microbiology: isolation of bacterial and fungal strains from soil, anaerobic cultivation, microbial growth assays, bacterial transformation
Biochemistry: enzyme assays, analysis of fungal biomarkers
Molecular biology: DNA, RNA and protein extraction from environmental samples and microbes, PCR, qPCR, DGGE, TRFLP, molecular cloning
Sequencing Technologies: amplicon and shotgun library preparation; 454, Illumina and Oxford Nanopore platforms
Data analysis: sequence analysis, statistical analysis, R studio, QIIME, Statistica, SAS, Canoco, PRIMER
Field work: soil sample collection in temperate and arctic ecosystems
Transferable skills: project management, mentoring, problem-solving skills, critical thinking, written and oral communication
Languages: English-fluent, Czech-native speaker, French-basic, Danish-basic

AWARDS

FEMS Congress Grant for Young Scientists **2019**
28th Congress of Czechoslovak Society for Microbiology

Research Award of Mycological Society of America **2018**
Forest fungal ecology postdoctoral research award

TerraGenome travel award **2017**
Multiomics for Microbiomes Conference

Director's Award for the best publication **2013**
Institute of Microbiology, Czech Academy of Sciences

Director's Award for the best Ph.D. thesis **2013**
Institute of Microbiology, Czech Academy of Sciences

SERVICES

Member of Evaluation Panel **2024-present**
Czech Science Foundation

Board member of Gender and Equity Team **2023-present**
Institute of Microbiology, Czech Academy of Sciences

Board member of Berkeley Lab Postdoc Association **2016-2018**
Lawrence Berkeley National Laboratory

Reviewer for Grant Proposals: National Science Foundation, Grant Agency of the University of South Bohemia, INTERACT

Reviewer for Journals: New Phytologist, Environmental Microbiology, Soil Biology and Biochemistry, Molecular Ecology, Fungal Diversity, FEMS Microbiology Ecology, Microbial Ecology, Fungal Ecology, PLOS ONE, Plant and Soil

SELECTED PUBLICATIONS
OUT OF 23 PEER-REVIEWED PUBLICATIONS, H-INDEX 18, TOTAL CITATIONS 2513 (WOS)

D'Alò, F., Tosadori, G., Zucconi, L., Onofri, S., Canini, F., Roos, R.E., Klanderud, K., Voříšková, J. (2024) Soil microbial community responses to long-term experimental warming in an alpine Dryas octopetala heath in Norway. Applied Soil Ecology 200, 105430.

Wu, X., Spencer, S., Gushgari-Doyle, S., Yee, M. O., Voříšková J., Li, Y., Alm, E., Chakraborty, R. (2020) Culturing of 'Unculturable' Subsurface Microbes: Natural Organic Carbon Source Fuels the Growth of Diverse and Distinct Bacteria from Groundwater. Frontiers in Microbiology 11, 3171.

Voříšková, J., Elberling, B., Priemé, A. (2019) Fast response of fungal and prokaryotic communities to climate change manipulation in two contrasting tundra soils. Environmental Microbiome, 14:6.

Svendsen, S.H., Schostag, M., Voříšková, J., Kramshøj, M., Priemé, A., Jacobsen, C.S., Rinnan, R. (2018) Emissions of biogenic volatile organic compounds from arctic shrub litter are coupled with changes in the microbial community composition. Soil Biology and Biochemistry 120: 80-90.

Bang-Andreasen,T., Nielsen, J. T., Voříšková, J., Heise, J., Rønn, R., Kjøller, R., Hansen, H.C.B., Jacobsen, C.S. (2017) Wood ash induced pH changes strongly affect soil bacterial numbers and community composition. Frontiers in Microbiology 8:1400.

López-Mondéjar, R., Voříšková, J., Větrovský, T. and Baldrian, P. (2015) The bacterial community inhabiting temperate deciduous forests is vertically stratified and undergoes seasonal dynamics. Soil Biology and Biochemistry 87: 43-50.

Voříšková, J., Brabcová, V., Cajthaml, T., Baldrian, P. (2014) Seasonal dynamics of fungal communities in a temperate oak forest soil. New Phytologist 201: 269-278.

Voříšková, J., Baldrian, P. (2013) Fungal community on decomposing leaf litter undergoes rapid successional changes. ISME Journal 7: 477-486.

Baldrian, P., Kolařík, M., Štursová, M., Kopecký, J., Valášková, V., Větrovský, T., Žifčáková, L., Šnajdr, J., Rídl, J., Vlček, Č., Voříšková, J. (2012) Active and total microbial communities in forest soil are largely different and highly stratified during decomposition. ISME Journal 6: 248-258.

Voříšková, J., Dobiášová, P., Šnajdr, J., Vaněk, D., Cajthaml, T., Šantrůčková, H., Baldrian, P. (2011) Chemical composition of litter affects the growth and enzyme production by the saprotrophic basidiomycete *Hypholoma fasciculare*. Fungal Ecology 4: 417-426.

SELECTED PRESENTATIONS

Researcher's Night, 2024
Neviditelní ale mocní: jak mikroorganismy z Arktidy mohou ovlivnit světové klima

Student workshop FRESHERS: Skills for Research Career, 2023
Postdoc Abroad: From Prague via Copenhagen to Berkeley

Polar Ecology Conference, 2020; contributing oral
Fast response of fungal and bacterial communities to climate change manipulation in two contrasting tundra soils

International Mycological Congress (IMC10), 2014; invited oral
Structure and dynamics of fungal communities in forest soils

International Symposium on Microbial Ecology (ISME 14), 2012; contributing oral
Seasonal changes in fungal community structure and function in deciduous forest soil