

JANA PILÁTOVÁ

CURRICULUM VITAE

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EDUCATION

- Oct 2015 – Sep 2023** – **Doctoral studies** – Faculty of Science, Charles University “Cell inclusions in microscopic eukaryotes” and long-term internship in Faculty of Mathematics and Physics (*PI: Kateřina Schwarzerová, consultant: Peter Mojzeš, mentor: Julius Lukeš*)
- Oct 2020 – Jun 2022** – Lifelong learning course – Creative pedagogy, Theatre Faculty, Academy of Performing Arts
- Sep 2014 – Jun 2016** – **Master studies** – Faculty of Food and Biochemical Technology at University of Chemistry and Technology in Prague (***degree with honours***): “Production of lipids by microalgae and heterotrophic protists and isolation of lipids from microbial biomass” (*PI: Petr Kaštánek*)
- Oct 2013 – Sep 2015** – **Master studies** – Faculty of Science at Charles University (***degree with honours***): “Iron and copper metabolism in marine microalgae of the genus *Ostreococcus*” (*PI: Róbert Šuták*)
- Oct 2010 – Jun 2013** – **Bachelor studies** – Faculty of Science at Charles University (***degree with honours***): “Potential use of Eustigmatophyceae in the production of Biofuels” (*PI: Yvonne Němcová*)

EMPLOYMENT

- since Oct 2020** – **Researcher** – Biology Centre, Czech Academy of Science: Laboratory of molecular biology of protists (*PI: Julius Lukeš*), Laboratory of evolutionary protistology (*PI: Miroslav Oborník*)
- since Oct 2017** – **Researcher** – Division of Biomolecular Physics, Institute of Physics, Faculty of Mathematics and Physics, Charles University (*PI: Peter Mojzeš*)
- 2015–2023** – **Innovation Scout** – Centre for Knowledge and Technology Transfer at Charles University
- 2014–2016** – **Researcher** – Ecofuel Laboratories, s.r.o. – Optimization of lipid extraction from protists

COURSES, INTERNSHIPS & WORKSHOPS

- May–Aug 2023** – “Purine biocrystallization in *Candida albicans*”, EMBO Scientific Exchange Grant, Berman’s lab, Tel Aviv University, Israel, 3 months
- Nov 2021** – Experimental workshop, Observatoire océanologique de Villefrance sur Mer, CNRS, France, 1 week
- Nov 2021** – Experimental workshop, European Synchrotron Radiation Facility (ESRF), Grenoble, France, 1 week
- Aug 2021** – “Raman tweezer and cathodoluminescence”, Institute of Scientific Instruments, Czech Academy of Science, Czechia, 1 month
- Nov 2017** – “Electroporation based Technologies and Treatments”, Ljubljana, Slovenia, 1 week
- Sep 2016** – “Friends and Foes (ALFF): workshop on the eukaryotic diversity, phylogeny and evolution”, University of Ostrava, Czechia, 1 week
- Mar 2016** – “Numerical Modelling in Environmental Biotechnology”, Delft University of Technology, Netherlands, 2 weeks

Jul–Sep
2013

Internship: “DNA microarray chips in *Cyanidioschizon merolae*”, National Institute of Genetics,
Miyagishima lab, Mishima, Japan – 3 months

TEACHING & SUPERVISION

since 2016 Teaching Assistant – Faculty of Science, Charles University

LECTURING: *Special eukaryotic microbiology; Introduction to knowledge and technology transfer*

PRACTICAL COURSES: *Phycology I – practical course; Practical course of plant cell; Practical course of plant physiology; Exercise in protistology*

Consultant of master theses (Anna Rosenkrancová, Jan Ráček)

Reviewer of bachelor theses

SCIENTIFIC PUBLICATIONS

According to the Web of Science, I (co)-authored 7 peer-reviewed publications, 2 as the **first author**, 3 as **corresponding** (*) author, 1 article has been accepted, 1 article is under revision, 74 total times cited, H-index 4;

1. Cifrová, P., Voloshina, M., Hunt, L., Kubásek, J., Kampová, A., Kurtović, K., Vosolsobě, S., Schwarzerová, K., Albrechtová, J., **Pilátová, J.*** (2022): Evolutionary and ecophysiological traits of plant and algal cuticle – new challenges. *Annals of Botany*, under revision. IF = 5.04,
2. Škaloud, P., Škaloudová, M., Jadrná, I., **Pilátová, J.**, Shin, Woonghi, Kopecký, J. Unravelling the hidden complexity in diversity and pigment composition of a colonial flagellate *Synura sphagnicola* (Chrysophyceae, Stramenopiles). *Fottea*, just accepted. IF = 3.242
3. **Pilátová, J.*** Tashyreva, D., Týč, J., Vancová, M., Bokhari, S. N. H., Skoupý, R., Klementová, M., Küpper, H., Mojžeš, P., Lukeš, J. (2023) Massive accumulation of strontium and barium in diplomemid protists. *mBio*, 14(1): e03279-22. [10.1128/mbio.03279-22](https://doi.org/10.1128/mbio.03279-22), IF = 7.786
4. **Pilátová, J.*** Pánek, T., Oborník, M., Čepička, I., Mojžeš, P. (2022). Revisiting biocrystallization: purine inclusions are widespread in eukaryotes. *ISME J*, 16:2290–2294. [10.1038/s41396-022-01264-1](https://doi.org/10.1038/s41396-022-01264-1), IF = 10.302
5. Mojžeš, P., Gao, L., Ismagulova, T., **Pilátová, J.**, Moudříková, Š., Gorelova, O., Solovchenko, S., Nedbal, L. & Salih, A. (2020). Guanine, a high-capacity and rapid-turnover nitrogen reserve in microalgal cells. *Proceedings of the National Academy of Sciences*, 117(51): 32722–32730. [10.1073/pnas.2005460117](https://doi.org/10.1073/pnas.2005460117) IF = 11.205
6. Pilát, Z., Jonáš, A., **Pilátová, J.**, Klementová, T., Bernatová, S., Siler, M., Manka, T., Kizovsky, M., Růžička, F., Pantůček, R. & Neugebauer, U. (2020). Analysis of bacteriophage-host interaction by Raman tweezers. *Analytical Chemistry*, 92(18): 12304–12311. [10.1021/acs.analchem.0c01963](https://doi.org/10.1021/acs.analchem.0c01963) IF = 6.986
7. Barcytė, D., **Pilátová, J.**, Mojžeš, P., & Nedbalová, L. (2020). The arctic *Cylindrocystis* (Zygnematophyceae, Streptophyta) green algae are genetically and morphologically diverse and exhibit effective accumulation of polyphosphate. *Journal of Phycology*, 56(1): 217–232. [10.1111/jpy.12931](https://doi.org/10.1111/jpy.12931) IF = 2.70 – **TOP CITED ARTICLE**
8. Scheiber, I. F., **Pilátová, J.**, Malych, R., Kotabova, E., Krijt, M., Vyoral, D., Mach, J., Léger, T., Camadro, J.M., Prášil, O. & Lesuisse, E. (2019). Copper and iron metabolism in *Ostreococcus tauri*—the role of phytoferritin, plastocyanin and a chloroplast copper-transporting ATPase. *Metallomics*, 11(10): 1657–1666. [10.1039/c9mt00078j](https://doi.org/10.1039/c9mt00078j) IF = 3.69
9. Lelandais, G., Scheiber, I., Paz-Yepes, J., Lozano, J. C., Botebol, H., **Pilátová, J.**, Žárský, V., Léger T., Blaiseau, P.L., Bowler, C., Bouget F.-Y., Camadro J.-M., Sutak, R. & Bouget, F. Y. (2016). *Ostreococcus tauri* is a new model green alga for studying iron metabolism in eukaryotic phytoplankton. *BMC Genomics*, 17(1): 1–23. [10.1186/s12864-016-2666-6](https://doi.org/10.1186/s12864-016-2666-6) IF = 3.969

MEMBERSHIP IN SCIENTIFIC SOCIETIES

Czech Phycology Society; International Society of Protistology; International Society of Applied Phycology; International Society of Evolutionary Protistology; International Society of Endocytobiology

REVIEWER AT JOURNALS

Protist – Elsevier journal edited by Michael Melkonian (Botanical Institute, University of Cologne)

Symbiosis – Springer journal edited by David Richardson (Saint Mary's University)

Fottea – journal of the Czech Phycology Society edited by Aloisie Poulíčková (Palacký University in Olomouc)

Review editor – Frontiers of Plant Science – Aquatic Photosynthetic Organisms

PRESENTATIONS AT CONFERENCES

INVITED TALKS

2023: Department Plant and Environmental Sciences; Department of Molecular Genetics and Department of Chemical and Structural Biology, Weizmann Institute of Science, Rehovot, Israel (Lia Addadi, Dvir Gur, Assaf Vardi, Steve Weiner)

2023: The First Metabolostasis Conference Tel Aviv University, Israel, online

2023: Department of Molecular Microbiology and Biotechnology, Shmunis School of Biomedicine and Cancer Research, Faculty of Life Sciences, and Department of Materials Sciences and Engineering, The Iby and Aladar Fleishman Faculty of Engineering, Tel Aviv University, Israel (Ehud Gazid, Daniel Segal, Judith Berman)

2023: Algatech, Microbiology Institute of Czech Academy of Science, Třeboň, CZE

2023: Marine Biophysics Unit, Marine Genomics Unit, Evolution, Cell Biology and Symbiosis Unit, Okinawa Institute of Science and Technology, Japan

2022: Department of Plant and Microbial Biology and the Department of Molecular and Cell Biology, University of California, Berkeley, USA

2022: Department of Genetics, Stanford University School of Medicine, USA

2022: Regional Research Graduate Network in Oceanography, ETH Zurich, online

2021: Department of Experimental Plant Biology, Faculty of Science, University of South Bohemia, České Budějovice

INTERNATIONAL CONFERENCES – 9 SELECTED ORAL TALKS:

2023: 40th conference of the International Society of Endocytobiology, Chicago, USA – **AWARDED**; International Society of Evolutionary Protistology – virtual meeting;

2022: 51st Jírovec's Protozoological Days, Svatka, CZE; Protistology-UK meeting, London, CZE;

2021: 16th Students' Day of Plant Biology – **AWARDED**, online; Microscopy Conference – joint meeting of Dreiländertagung and Multinational Congress on Microscopy, Vienna, Austria; 50th Jírovec's Protozoological Days, Nové Hrad, CZE;

2019: 7th European Phycological Congress, Zagreb, Croatia – **AWARDED**; VIII European Congress of Protistology – ISOP Joint Meeting; 49th Jírovec's Protozoological Days, Kostelec nad Černými lesy, CZE,

2018: 16th VBC PhD Symposium: Metamorphosis, Vienna, Austria – **AWARDED**;

2017: 6th Congress of the International Society for Applied Phycology, Nantes, France – **AWARDED**

INTERNATIONAL CONFERENCES – 6 POSTERS

2023: 17th International Symposium on Biomineralization, Saint-Étienne, France;

2022: International Congress of Raman Spectroscopy, Long Beach, USA;

2021: XXVI. Annual Congress of Czech and Slovak Societies for Biochemistry and Molecular Biology with the cooperation of Austrian and German Biochemical Section, CZE;

2019: 6th International Congress on Microscopy and Spectroscopy, Ölüdeniz, Turkey; 7th European Phycological

Congress, Zagreb, Croatia;

2018: PSA/ISOP (Phycological Society of America and the International Society of Protistologists), Vancouver, Canada;

2017: International Congress of Protistology, Praha, CZE;

2014: 9th International BioMetals Symposium, Durham, North Carolina, USA

NATIONAL CONFERENCES – 8 SELECTED ORAL TALKS

2022: 63rd Conference of the Czech Phycological Society; Students' scientific conference Chantransia;

2021: 62nd Conference of the Czech Phycological Society;

2020: 2× 61st Conference of the Czech Phycological Society – **AWARDED**;

2019: 60th Conference of the Czech Phycological Society – **AWARDED**;

2018: 59th Conference of the Czech Phycological Society; Students' scientific conference Chantransia;

2017: Conference of the Czech Phycological Society;

2013: Students' scientific conference Chantransia

GRANT APPLICATIONS & SELF-ACQUIRED FUNDING

2023 Travel Grant for 40th International Society of Endocytobiology meeting, 1 680 USD.

2023 EMBO Scientific Exchange Grant – 3-month stay at Tel Aviv University. 9 770 EUR

2021–2022 Technology Agency of the Czech Republic: Automation of Raman spectral map analysis.
Co-PI: 30 000 EUR

2020–2023 Czech Science Foundation: Guanine crystals as nitrogen storage in *Chromera velia*. Co-researcher.

2021 Beamtime at European Synchrotron Radiation Facility (18 shifts), Grenoble, France. Co-researcher.
ID16A Nano-Imaging beamline X-ray NanoProbe. Estimated costs 80 000 EUR.

2019 Scholarships by the European Phycological Society. 380 EUR

2019 Holz-Conner Travel Grant by International Society of Protistology. 1 400 EUR

2017–2019 Charles University Grant Agency: Characterization of organelles in Eustigmatophyceae. PI: 30 000 EUR

MAIN COLLABORATIONS

Filip Peška, Martin Pilát (Department of Theoretical Computer Science and Mathematical Logic, Faculty of Mathematics and Physics, Charles University) – Mutual grant (2021–2022): Design of new data-processing software of Raman spectral mapping

Ansgar Gruber, Miroslav Oborník (Biology Centre, Czech Academy of Science, České Budějovice) – Mutual grant (2021–2023): Chromera guanine and nitrogen metabolism

Julius Lukeš, Daria Tashyreva (Institute of Parasitology, Czech Academy of Science, České Budějovice) – free-living heterotrophs diplomonads, intracellular crystalline inclusions – mutual publication under revision

Mariana Klementová, Lukáš Palatinus (Institute of Physics, Czech Academy of Science, Praha) – electron diffraction – mutual publication under revision

Marie Vancová, Jiří Týč (Biology Centre, Czech Academy of Science, České Budějovice) cathodoluminescence, electron microscopy – serial block face scanning electron microscopy – mutual publication under revision

Hendrik Küpper (Institute of Plant Molecular Biology, Czech Academy of Science, České Budějovice) – elemental analysis using synchrotron X-ray fluorescence analysis (European Synchrotron Radiation Facility, France)

Radim Skoupý (DELMIC, Netherlands) – electron diffraction, energy emission X-ray analysis – mutual publication under revision

Helena Chmelová (Institute of molecular genetics, Czech Academy of Science, Praha) – holographic microscopy

Fabien Lombard, Gabriel Gorsky (Villefranche sur Mer, France) – marine zooplankton filter-feeders

Dovile Barcyte (University of Ostrava, Ostrava) – microalgae, eustigmatophytes

Kamila Hurková, Jana Hajšlová, Milena Zacharyášová (University of Chemistry and Technology, Praha) – lipidomics
Aleš Tomčala (University of South Bohemia, České Budějovice) – HPLC – purine quantification
Frederik Leliaert (Meise Botanic Garden, Belgium) – microalgae, Cladophorophyceae, biomineralization
Antonio Calado (University of Aveiro, Portugal) – microalgae, dinoflagellates, eyespots, biocrystallization
Adrien Lapointe (University of Konstanz, Germany) – polyphosphate quantification in microalgae
Fabrice Not (Station Biologique de Roscoff, CNRS, Sorbonne Université, France) – planktomania.org
Zdeněk Pilát (Institute of Scientific Instrumentation, Czech Academy of Science, Brno) – Raman tweezer, ramanbase.org

AWARDS

- 2022** Best talk at 40th conference of the International Society of Endocytobiology, Chicago, USA
- 2021** Best students' talk at the 16th Student Days of Plant Biology, online
- 2020** Best students' talk at the 61st Czech Phycology Society Meeting, CZE
- 2020** 1st place and audience price in Famelab – Talking Science, national round, CZE
- 2019** Best students' talk at the 60th Czech Phycology Society Meeting, CZE
- 2019** Best students' flash talk at the 7th European Phycological Congress, Zagreb, Croatia
- 2018** 2nd place for presentation of Vienna BioCentre PhD Symposium “Metamorphosis – Transforming Science”, Vienna, Austria
- 2017** 1st place in “Play with your PhD”, 6th Congress of the International Society for Applied Phycology, Nantes, France
- 2016** Prize of the Dean of Faculty of Food and Biochemical Technology at University of Chemistry and Technology in Prague
- 2012–2016** Academic awards in six categories of PhotoContest “Science Is Beautiful” (www.vedajekrasna.cz) including **“total winner”**. Reprints were published in National Geographic Česko, Fotovideo, Naše příroda, online news: aktualne.cz, lidovky.cz; iFORUM CUNI; they became a part of traveling exhibitions in art galleries, schools, municipal offices, and museums

SCIENCE POPULARIZATION & VOLUNTEERING

- **Author of the script for 3D virtual reality educational animation**

Pilátová J., Kulich I. (2018) Plant vs intruder or How plant cells defend against fungal pathogens. Link: <http://y2u.be/X9MfXTVCE1A> with a Czech version: Rostlina versus vetřelec aneb Jak se rostlinné buňky brání před houbovými patogeny. Link: <http://y2u.be/857fNDG04e8>

- **Author of 15 popularizing articles**

Pilátová J. (2022): Revisiting biocrystallization: Purine biocrystals are widespread in eukaryotes. [Microbiology Nature Community, online](#)

Pilátová J. (2021): Mořský plankton v globálním koloběhu prvků. [Živa 69, 2021/3, 103–105](#)

Pilátová J. (2021): Mořský plankton, jak ho neznáte. [Živa 69, 2021/3, XCII–XCIII](#)

Pilátová J. (2020): Potenciál, který mají buňky. [Živa 68, 2020/3, LXXV–LXXVII](#)

Sabol P., **Pilátová J.** (2020): Jak funguje imunita u rostlin? [Živa 68, 2020/1, XVII–XIX](#)

Pilátová J. (2018): Kde je budoucnost biopaliv? Otázka s dosud otevřeným koncem. [Přírodovědci 2018/4; 20–21](#)

Pilátová J. (2018): Bestiář hnědých řas a jejich využití. [Nová botanika 1; 2018/1, 16–18](#)

Pilátová J. (2015): Pikoherbivoři, průhledné krávy oceánů. [Vesmír 94, 145, 2015/3](#)

Pilátová J. (2014): Exkurze do Makedonie a Srbska – na Balkán je cesta jako žádná ze sta. [Přírodověda populárně 2014, online](#)

Pilátová J. (2014): Jak si modrásek povídá s mravenci. [Vesmír 93, 675, 2014/12](#)

Pilátová J. (2013): Bakalář PLUS po prvním roce bilancuje. Přírodověda populárně – popularizační rubrika PŘF UK. [Přírodověda populárně 2013, online](#)

Pilátová J. (2013): Kam nechodí slunce, tam chodí extremofilní chemoautotrofové. [Přírodověda populárně 2013, online](#)

Pilátová J. (2013): Transplantace obezity? [Vesmír 92, 202, 2013/4](#)

Pilátová J. (2013): Holubí mléko aneb Když ještě holoubatům teče mléko po bradě. [Vesmír 92, 44, 2013/1](#)

Pilátová J. (2012): Duběnkový inkoust – Historie má inkoustové srdce. [Vesmír 91, 2012/3, 156–158](#)

- **Author of education texts for Biology Olympiad**

Bendová Z., Buchbauerová L., Černý J., Damaška A., Kleisner K., Nedvěďová T., Nunvář J., **Pilátová J.**, Sekereš J., Smyčková M., Vosolsobě S., Zemek O. (2016): Budiž světlo! Biologická olympiáda, Praha. [ISBN 978-80-213-2684-2](#)

Balážová A., Černý J., Damaška A., Dvořáková R. M., L. Faltejsek L., Holcová M., Kodejš K., Mikát M., Nunvář J., **Pilátová J.**, Smyčková M. (2015): Život je jen náhoda. Evoluce života na Zemi. Biologická olympiáda, Praha. [ISBN 978-80-213-2565-4](#)

Baláž V., Kodejš K., Kolář F., Nunvář J., **Pilátová J.**, Pospíšková M., Prach J., Sekereš J., Smyčka J., Synek P., Zemek O. (2014): Země živitelka aneb Příroda ve službách člověka. Biologická olympiáda, Praha. [ISBN 978-80-213-2470-1](#)

- **Author of education text for practical courses**

Pilátová J., Zouhar P. (2014): Molekulární biologie a fyziologie: Praktický kurz pro pokročilejší zájemce. Příručka k projektu Operačního programu Praha – Adaptabilita: Podpora vzdělávání studentů středních škol v přírodovědných předmětech a matematice, CZ.2.17/3.1.00/36215. Univerzita Karlova v Praze – Pedagogická fakulta, 100 s., ISBN 978-80-7290-746-5.

OUTREACH

Compelling way of communicating our scientific endeavors by personal stories of unexpected findings and synthesis of newly learned pieces of knowledge in a bigger picture. I am actively collaborating with the PR departments of Charles University and the Czech Academy of Sciences. I am also in direct contact with popular science media including the youtube channel "[Journey to the Microcosmos](#)" with 810 000 followers and 47 million views. I initiated the upgrade and translation of the French popularizing VR platform [planktomania.org](#).

INTERNATIONAL ONLINE PRESS & BLOGS

Japanese television report from science-art exhibition at Okinawa Institute of Science and Technology

- <https://www3.nhk.or.jp/lnews/okinawa/20230328/5090022464.html>
- <https://www.paru.cas.cz/novinky/novinka/6821-umelecka-instalace-/>

Popular article for Nature Microbiology Communities:

- <https://microbiologycommunity.nature.com/posts/revisiting-biocrystallization...>
- <https://microbiologycommunity.nature.com/videos/revisiting-biocrystallization...>

Blog of International Society for Evolutionary Protistology:

- <https://www.isep-protists.com/post/a-secret-nitrogen-reserve-in-microalgae>

Others public blogs:

- <https://www.miragenews.com/revisiting-biocrystallization-purine-800459>

CZECH NATIONAL ONLINE PRESS, BLOGS & BROADCASTING

Massive accumulation of strontium and barium in diplomemid protists

- RADIO INTERVIEW: <https://plus.rozhlas.cz/vedci-nasli-poklad-z-druhohorniho-more-vymrela-planeta-ozila-driv-nez-cekali-8934021>
- <https://ct24.ceskatelevize.cz/veda/3560309-klicovym-clankem-zivota...>
- <https://www.scienceweek.cz/klicovym-clankem-zivota-v-oceanech-byl-temer-neznamy-prvok-jeho-rolu-popsal-cesky-vyzkum-iid-188493>
- <https://www.prirodovedci.cz/aktuality/rozreseni-paleo-oceanologicke-zahady>

Purine biocrystallization revisited in eukaryotes

- <https://www.ukforum.cz/rubriky/veda/8449-biokrystaly...>
- <https://blog.aktualne.cz/blogy/pavla-hubalkova.php?itemid=42868>
- <https://vedavyzkum.cz/blogy-a-komentare/pavla-hubalkova/trpytive...>
- <https://prazska.drba.cz/zpravy/zdravi/9187-novy-vyzkum-biokrystalu...>

Guanine crystals as high-capacity and rapid-turnover reserve in coral endosymbionts

- <https://www.prirodovedci.cz/aktuality/tajna-zasobarna-dusiku-pro-rasy>
- <https://www.mff.cuni.cz/cs/verejnost/aktuality/tajna-zasobarna-dusiku-pro-rasy>

Raman laser tweezer in bacteriophage infection diagnostics – potential alternative to antibiotics

- <https://www.isibrno.cz/cs/kdyz-antibiotika-nestaci-objev-ceskych-vedcu-zrychli-fagovou-terapii>
- <https://techfocus.cz/temata/Ramanova+pinzeta>
- <https://ct24.ceskatelevize.cz/regiony/3185043-vedci-v-brne-nasli-zpusob...>
- <https://ceskavedadosveta.cz/brnensti-vedci-dokazi-efektivne-zjistit...>
- <https://sciencemag.cz/kdyz-antibiotika-nestaci-objev-ceskych-vedcu-zrychli-fagovou-terapii/>
- <https://www.tyden.cz/rubriky/domaci/cesti-vedci...>

GERMAN NATIONAL ONLINE PRESS & BLOGS

- <http://ct.moreover.com/...>
- <https://www.labo.de/zell-und-mikrobiologie/kristalliner...>
- <https://www.innovations-report.de/fachgebiete/biowissenschaften-chemie/kristalliner...>

POPULARIZATION & VOLUNTEERING

- since 2017** Active performer: Day of Plant Fascination (2017, 2019), Festival of Science (2018, 2021), Science Fair (2019), Junior Conference (2019)
- 2019** Popularization of marine plankton through French project planktomania.org – translation
- 2019** Two invited lectures for (future) biology teachers: 3D virtual reality for teachers, Department of biology education – departmental seminar and lecture series “Biologie čtená podruhé”
- 2019–2022** Plant vs Intruder for Gymnázium Benešov (2019, 2020), Škola da Vinci (2022)
- 2014–2017** 4 practical courses for high school students and teachers on molecular biology and physiology
- 2014–2016** Lecturing for motivated young biologists “Arachne” and “Fluorescenční noc”
- 2012–2018** Volunteering in Biology Olympiad preparation team – organizing regional and national rounds of the competition, preparing practical, theoretical tests, and biology-themed brochures
- 2012–2018** Volunteering and organizing 2-week summer science camps for talented young biologists and chemists of 120 students in Běstvína (bestvina.cz), preparing the best of them for the International Biology Olympiad in which they scored highest levels (gold, silver, and bronze medals)
- 2012–2014** Guide in Prague Botanic Garden
- 2016** Volunteer at sample collection of plants species: Smyčka, J., Roquet, C., Boleda, M., Alberti, A., Boyer, F., Douzet, R., ... & Lavergne, S. (2022). Tempo and drivers of plant diversification in the European mountain system. *Nature Communications*, *13*(1), 1-13.
- since 2013** Volunteering in sample collection of free-living anaerobic protists in Japan, South Africa, Canada, Tanzania, Croatia, Turkey

INTERESTS

biking, scuba diving, kayaking, judo, microphotography, history of science