

CURRICULUM VITAE

Personal data

Zuzana Chumová

* 28. 1. 1986, Prague

Birth surname: Khodlová

Two children * 2010, * 2012

Education

- since 2011: Ph.D. study in Botany, Department of Botany, Faculty of Science, Charles University (supervisor P. Trávníček)
- 2008–2011: Lifelong learning programme – Profession oriented, Department of Teaching and Didactics of Biology, Faculty of Science, Charles University (supervisor J. Suda)
- 2008–2011: M.Sc. study in Vascular Plant Botany, Department of Botany, Faculty of Science, Charles University (supervisor P. Trávníček)
- 2005–2008: B.Sc. in Molecular Biology and Biochemistry of Organisms, Faculty of Science, Charles University (supervisor P. Trávníček)

Employment

- Since 2016: Laboratory of Flow Cytometry, Institute of Botany of the CAS
- Since 2016: Department of Botany, Faculty of Science, Charles University (part-time job funded from the Czech Grant Agency (GACR), PI: K. Marhold)
- Since 2015: Institute of Organic Chemistry and Biochemistry of the CAS, v.v.i. (half-time job, Synthetic Nanochemistry Research Group)
- Since 2009: Kalibro Projekt, s. r. o. (agreement on work, biology contractor)
- 2009–2010: Gymnázium Budějovická 680, Prague 4 (part-time job, biology teacher)
- 2008–2010: Czech Botanical Society (part-time job, librarian)

Fellowships

- 2007–2008: Erasmus (Université de Lausanne, Switzerland, Department of Ecology and Evolution), 7 month

Teaching

Lectures at Faculty of Science, Charles University in Prague

- Practices: Molecular markers in systematics and plant population biology (master course)

Other teaching

- Botanical lectures at Summer course of biology for secondary school students Arachne
- Lectures at Summer course of biology and chemistry for secondary school student of Biology and Chemistry Olympiad in Běstvina

Supervision of the thesis

- Gabriela Fuxová: Asexual reproduction of vascular plants (Lifelong learning programme – Profession oriented, Programme guaranteeing Department of Teaching and Didactics of Biology, Faculty of Science, Charles University; 2015)

Research interest

- phylogeny reconstruction
- polyploid and hybrid speciation
- use of molecular markers in plants
- cytogenomics (FISH, GISH)
- flow cytometry

SCI Publications

Chumová Z., Záveská E., Mandáková T., Krak K., Trávníček P. (2017) The Mediterranean: the cradle of *Anthoxanthum* (Poaceae) diploid diversity. *Annals of Botany*, Annals of Botany 120(2): 285–302.

Píšová S., Hroudová Z., **Chumová Z.**, Fér T. (2017) Ecological hybrid speciation in central-European species of *Bolboschoenus*: genetic and morphological evaluation. *Preslia* 89(1): 17–39.

Chumová Z., Mandáková T., Trávníček P. (2016) Are B-chromosomes responsible for the extraordinary genome size variation in selected *Anthoxanthum* annuals? *Plant Systematics and Evolution*, 2016, 302: 731–738, doi 10.1007/s00606-016-1295-5.

Chumová Z., Krejčíková J., Mandáková T., Suda J., Trávníček P. (2015) Evolutionary and Taxonomic Implications of Variation in Nuclear Genome Size: Lesson from the Grass Genus *Anthoxanthum* (Poaceae). *PLoS ONE*, 2015, sv. 10(7), s. e0133748.

Non-SCI Publications

Khodlová Z. & Trávníček P. (2012): Příběh obyčejné trávy s neobyčejnou evolucí – tomka vonná a její příbuzná. *Živa* 5: 229–232.

Grant projects

Project leader

- 2013–2015: Comprehensive insight into the evolution of polyploidy in *Anthoxanthum odoratum* aggregate (GAUK 541413)
- 2009–2011: Evolutionary history of the polyploid *Anthoxanthum odoratum* complex (Poaceae) in Europe (GAUK 66109)

Member of the team

- 2017–2019: Clues to the evolutionary success of orchids: assessing whole genome changes and rate of ecological speciation in a hyperdiverse lineage (GA CR 17-18080S; project leader Pavel Trávníček)
- 2016–2017: Genetic structure, evolutionary history and speciation limits of overlooked plant species *Arabidopsis arenosa* agg. tested by next generation sequencing (GAUK 391315; project leader: Gabriela Fuxová)
- 2011–2013: Parallel evolution or migration in the genus *Bolboschoenus* (Cyperaceae) at a worldwide scale? (GAUK 428311; project leader: Soňa Píšová)

Conference reports

- Chumová Z.** Trávníček P., Záveská E., Fuxová G., Mandáková T. Sweet Vernal Grass (*Anthoxanthum L.*) in Europe: Evolutionary History and Phylogenetic Relationships. International Conference on Polyploidy, Hybridization, and Biodiversity, Rovinj, Croatia, 11. – 14. 5. 2016. (poster presentation)
- Chumová Z.** Trávníček P., Záveská E., Mandáková T. Sweet Vernal Grass in Europe: Evolutionary History and Phylogenetic Relationships. Analytical Cytometry VII, Olomouc, Czech Republic, 3. – 6. 10. 2015. (poster presentation)
- Chumová Z.** Trávníček P., Záveská E., Mandáková T. Sweet Vernal Grass in Europe: The origin of polyploid genomes in one genus. XVth ESEB Meeting, Lausanne, Switzerland, 10. – 14. 8. 2015. (poster presentation)
- Chumová Z.** Trávníček P., Záveská E., Mandáková T. Sweet Vernal Grass in Europe: Evolutionary History and Phylogenetic Relationships. Mechanisms of plant speciation, Åkersberga/Stockholm, Sweden, 9. – 13. 6. 2015. (poster presentation)
- Chumová Z.**, Trávníček P., Záveská E., Mandáková T. On the origin of polyploids in grasses: multi-approach insight into evolutionary history of European *Anthoxanthum*. Plant Molecular Cytogenetics in Genomic and Postgenomic Era, Katowice, Poland, 23. – 24. 9. 2014. (poster presentation)
- Khodlová Z.**, Trávníček P., Krak K., Krejčíková J. Polyploid speciation in *Anthoxanthum*: far beyond a simple solution. International Conference on Polyploidy, Hybridization, and Biodiversity, Průhonice, Czech Republic, 7. – 10. 5. 2012. (poster presentation)
- Khodlová Z.**, Trávníček P., Krak K. Fylogenetická studie rodu *Anthoxanthum*. Conference of the Czech Botanical Society: Inspiration of doctorands in botany II. Prague, Czech Republic, 26. – 27. 11. 2011. (oral presentation)
- Khodlová Z.**, Trávníček P., Rauchová J., Krak K. Evolutionary history of the polyploid *Anthoxanthum odoratum* complex (Poaceae) in Europe. Conference of the Czech Botanical Society: Evolution aspects in plant biology, Prague, Czech Republic, 27. – 28. 11. 2010. (poster presentation)
- Khodlová Z.**, Trávníček P., Rauchová J., Kučabová V. Evolutionary history of the polyploid *Anthoxanthum odoratum* complex (Poaceae) in Europe. International Conference on Polyploidy, Hybridization and Biodiversity, Saint Malo, France, 17. – 20. 5. 2009. (poster presentation)