

Curriculum vitae



PERSONAL INFORMATION

Name: RNDr. Dimitrij Tyč
Place of birth: 3.2.1987, Bruntál
Nationality: Czech
Contact: △ Nad Okrouhlíkem 2365/17, Praha 8, 180 00
☎ +420 739 358 879
✉ tycd@seznam.cz

EDUCATION

2011 – present Ph.D. student, Department of Experimental Plant Biology, Faculty of Sciences, Charles University, Prague, programme: Plant Anatomy and Physiology, state exam fulfilled 19.03.2014
2018 RNDr., state rigorous examination, Department of Experimental Plant Biology, Faculty of Sciences, Charles University, Prague, fulfilled 25.6.2018
2009 – 2011 Mgr., Department of Experimental Plant Biology, Faculty of Sciences, Charles University, Prague, programme: Plant Anatomy and Physiology, specialization: Molecular Biology and Biochemistry of Plants, thesis: Transgene silencing in potato plants and tobacco cell line BY-2, fulfilled: 8.9.2011
2006 – 2009 Bc., Faculty of Sciences, Charles University, Prague, programme: Molecular Biology and Biochemistry Organisms, thesis: Using of IRES sequences for protein expression in plants, fulfilled: 17.9.2009
2002 – 2006 Grammar school, Gymnázium Rýmařov

WORK EXPERIENCES

2018 – present Graduated technical assistant, Station of apple breeding for disease resistance, Institute of Experimental Botany, Czech Academy of Sciences, v. v. i., Prague
2015 – present Researcher participating on teaching, Department of Experimental Plant Biology, Faculty of Sciences, Charles University, Prague
2011 – 2015 Ph.D. student, Department of Experimental Plant Biology, Faculty of Sciences, Charles University, Prague
2009 – 2011 Mgr. student, Department of Experimental Plant Biology, Faculty of Sciences, Charles University, Prague
2007 – 2009 Bc. student, Laboratory of Molecular Farming and DNA reparation, Institute of Experimental Botany, Czech Academy of Sciences, v. v. i., Prague

INTERNSHIP ABROAD

2013 3 months in Plant Virology Group, Department for Plant Biotechnology, Agricultural Biotechnology Institute, Gödöllő, Hungary

TRAINING COURSES

2017, 2018	Mentoring programme, Center for Environmental Education Toulcův dvůr, z.s., Prague
2017	University Education course, Charles University, Prague
2016	Practical Rhetoric and Presentation, Charles University, Prague
2013	Determination and Mapping of Old Fruit Varieties, Central Bohemian Uplands
2011, 2012	Determination and Mapping of Old Fruit Varieties, Northern Moravia
2011	Scientific Writing and Scientific Presentations workshops, Charles University, Prague

GRANTS

2020 – 2022	New UEB apple varieties suitable not only for organic cultivation. TA CR no. TJ04000490. Fellow researcher.
2018 – 2023	Center for Experimental Plant Biology. MEYS, co-financed by the European Union no. CZ.02.1.01/0.0/0.0/16_019/0000738. Fellow researcher.
2016 – 2019	Support for the process of commercializing the results of research and development at the Institute of Experimental Botany AS CR v.v.i. TA CR no. TG03010009. Fellow researcher. Fulfilled.
2013 – 2015	Apoplastic transport of small RNA in tobacco BY-2 cell line, thale cress plants and its role in RNAi. Charles University project GA UK no. 874213. Head researcher. Fulfilled.

TEACHING

2011 – present	MB130P08, MB130C73, Introduction to Horticulture
2014 – 2018	MB150C28, Cell Biology – a Practical Course
2012 – 2018	MB130C14A, Practical course of Plant Physiology
2016	MB130C30, Practical course Plant Cell
2015	Grafting and Budding practical course for national training camp Arachne, Prague
2014	MB180C27, Observations and Experiments on Organismal Level I

SCIENCE POPULARIZATION

2017 – 2019	Determination and presentation of old fruit varieties, ČSOP, Vlašim, Prague
2016 – 2019	Series of 26 non-reviewed popularization articles about pomology in local magazine <i>Rýmařovský horizont</i> . Available on-line from http://www.svcrymarov.cz/horizont.php
2017	International pomology conference Europom, Olomouc
2015, 2016	Plant Science day

LANGUAGE

Czech – native

English – active

German – passive

SKILLS

Common molecular and biochemical laboratory techniques, cloning, plant transformation etc.

MS Office, NCBI tools, Geneious, basics of Adobe Photoshop CS6, Genevestigator.

Pomology, apple breeding, old fruit variety determination, gardening, wine making, beekeeping, fishing.

Driving license category A, B.

LIST OF PUBLICATION

Tyč, D., Nocarová, E., Sikorová, L., et Fischer, L. (2017). 5-Azacytidine mediated reactivation of silenced transgenes in potato (*Solanum tuberosum*) at the whole plant level. *Plant Cell Reports*, 1–12. <https://doi.org/10.1007/s00299-017-2155-7> (IF 2.989)

Příbylová, A., Čermák, V., **Tyč, D.** et Fischer, L. (2019). Detailed insight into the dynamics of the initial phases of de novo RNA- directed DNA methylation in plant cells. *Epigenetics & Chromatin*, 12(1), 1–14. <https://doi.org/10.1186/s13072-019-0299-0> (IF 4.185)

Čermák, V., **Tyč, D.** Příbylová, A., et Fischer, L. (2019). Unexpected variations in posttranscriptional gene silencing induced by differentially produced dsRNAs in tobacco cells. *BBA - Gene Regulatory Mechanisms*, submitted

ORAL PRESENTATION ON CONFERENCES

Tyč, D., Příbylová, A., Fischer, L. Can plant Cells Import sRNAs from apoplast? Talk presented at: Czech Society of Experimental Plant Biology (CSEPB), 13th Student Days of Experimental Plant Biology, 2015 September 7-8, Brno, Czech Republic. L1-4

CO-AUTHOR OF POSTER PRESENTATIONS

Příbylová, A., **Tyč, D.**, Motylová, Š., Čermák, V., Fischer, L. The sound of BY-2 silence. Poster presented at: EPSO/FESPB 2016 Congress, 2016 June 26-30, Prague, Czech Republic. ID 824.

Čermák, V., **Tyč, D.**, Motylová, Š., Příbylová, A., Fischer, L. Řízené umlčování genu v buněčné linii tabáku BY-2. Poster presented at: 6. Metodické dny, 2014 October 19-22, Seč, Czech Republic.