

Curriculum vitae

RNDr. Vojtěch Dočekal

Born in Polička (Czech Republic).

Education

- 2016 B.S. (Bc.) in Chemistry, Charles University, Faculty of Science
Bachelor thesis: Stereoselective synthesis of spiro compounds containing cyclohexenecarboxylic acid (supervisor: Dr. Veselý, Charles University)
- 2018 M.Sc. (Mgr.) in Organic Chemistry, Charles University, Faculty of Science
Diploma thesis: Asymmetric allylic amination (supervisor: Dr. Veselý, Charles University)
- 2020 RNDr. in Organic Chemistry, Charles University, Faculty of Science
- 2018 - present Ph.D. in Organic Chemistry, Charles University, Faculty of Science
Ph.D. thesis: Development of catalytic systems suitable for the enantioselective synthesis of heterocycles (supervisor: Dr. Veselý, Charles University, anticipated completion in 2022)

Positions

- 2011 - 2013 Research internship, Institute of Organic Chemistry and Technology (group of prof. Sedláč), Faculty of Chemical Technology, University of Pardubice, Pardubice
- 2015 - present Research fellow, Department of Organic Chemistry (group of Dr. Veselý), Charles University, Prague

Teaching Experience

- 2020 - present Lecturer, Organic Chemistry Seminar (for non-chemistry field of bachelor study), Department of Organic Chemistry, Charles University
- 2019 - present Lab assistant, Chemistry Olympiad (competition for talented high-school students)

Awards

- 2021 Fulbright stipend
- 2018 Dean's Prize, Faculty of Science, Charles University
- 2013 Dean's Prize, Faculty of Chemical Technology, University of Pardubice
- 2013 1st class Diploma, Vernadsky National Contest of Student Research Projects, Moscow

Brief description of research interests

My research interest is focused on the organic synthesis of enantioenriched organic compounds. I am particularly interested in developing novel methodologies for the stereoselective synthesis of biologically active compounds, including the preparation of natural products.

Publications

Total number of publications in journals with IF: **7**

Sum of the times cited (overall number of citations, Google Scholar): **66**

Hirsch-index: **5**

Researcher ID: O-1278-2017, ORCID: 0000-0003-3957-7977

Recent publications:

- (1) Dočekal, V.; Vopálenská, A.; Měrka, P.; Konečná, K.; Jand'ourek, O.; Pour, M.; Císařová, I.; Veselý, J. Enantioselective Construction of Spirooxindole-Fused Cyclopentanes. *J. Org. Chem.* **2021**, *86*, 12623-12643. <https://doi.org/10.1021/acs.joc.1c01116>.
- (2) Dočekal, V.; Petrželová, S.; Císařová, I.; Veselý, J. Enantioselective Cyclopropanation of 4-Nitroisoxazole Derivatives. *Adv. Synth. Catal.* **2020**, *362*, 2597-2603. <https://doi.org/10.1002/adsc.202000231>.
- (3) Dočekal, V.; Formánek, B.; Císařová, I.; Veselý, J. A Formal [4 + 2] Cycloaddition of Sulfur-Containing Alkylidene Heterocycles with Allenic Compounds. *Org. Chem. Front.* **2019**, *6*, 3259-3263. <https://doi.org/10.1039/c9qo00886a>.
- (4) Hagenbuchner, J.; Obsilova, V.; Kaserer, T.; Kaiser, N.; Rass, B.; Psenakova, K.; Dočekal, V.; Alblova, M.; Kohoutova, K.; Schuster, D.; Aneichyk, T.; Vesely, J.; Obexer, P.; Obsil, T.; Ausserlechner, M. J. Modulating FOXO3 Transcriptional Activity by Small, DBD-Binding Molecules. *Elife* **2019**, *8*:e48876. <https://doi.org/10.7554/eLife.48876>.
- (5) Dočekal, V.; Šimek, M.; Dračínský, M.; Veselý, J. Decarboxylative Organocatalytic Allylic Amination of Morita–Baylis–Hillman Carbamates. *Chem. - A Eur. J.* **2018**, *24*, 13441-13445. <https://doi.org/10.1002/chem.201803677>.
- (6) Alblova, M.; Smidova, A.; Dočekal, V.; Vesely, J.; Herman, P.; Obsilova, V.; Obsil, T. Molecular Basis of the 14-3-3 Protein-Dependent Activation of Yeast Neutral Trehalase Nth1. *Proc. Natl. Acad. Sci. U. S. A.* **2017**, *114*, E9811-E9820. <https://doi.org/10.1073/pnas.1714491114>.
- (7) Zhang, K.; Meazza, M.; Dočekal, V.; Light, M. E.; Veselý, J.; Rios, R. Highly Diastereo- and Enantioselective Synthesis of α -Spiro- δ -Lactams by an Organocascade Reaction. *Eur. J. Org. Chem.* **2017**, 1749-1756. <https://doi.org/10.1002/ejoc.201700193>.

Contact

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