

RNDr. Michal Hála, Ph.D. – Curriculum vitae

Education and Occupation

born on January 31st, 1974 in Prague

1995- bachelor degree (Bc.) in chemistry at the Faculty of Science, Charles University

1997- master degree (Mgr.) in biochemistry, summa cum laude, at the Faculty of Science, Charles University. Diploma thesis „Biochemical and biophysical characterisation of the maize photosynthetic apparatus“, supervisor prof. RNDr. Danuše Sofrová, CSc.

2005 - doctorate (Ph.D.) in plant anatomy and physiology at the Faculty of Science, Charles University. PhD thesis „Characterization of Angiosperm RAB Geranylgeranyl Transferase“. Supervisor doc. RNDr. Viktor Žárský, CSc.

1999 -2011 full-time contract at the Institute of Experimental Botany, v.v.i., Laboratory of Cell Biology as principal researcher

since **2012** full-time contract at the Department of Plant Experimental Biology, Faculty of Science, Charles University as Assistant Professor

Teaching activities

Guarantor of master and bachelor courses:

Practical courses in plant physiology MB130C14A (od r. 2012)

Plants and stress MB130P23 (od r. 2012)

Chapters from plant biochemistry MB130P53 (od r. 2012)

Chapters from plant biochemistry MB130P53 (od r. 2012)

Participating in the master and bachelor courses:

Plant Physiology MB130P13

Plant Physiology (english) MB130P13E

Supervised student works (defended/ running):

Bachelor degree– 6/1

Master degree– 3/0

PhD degree–1/1

Passed courses and visits

1996- international course „Carotenoids“, Pecs, Hungary

1998- half-year visit at the University of Vienna, Vienna, Austria oriented on isolation of plant REP using methods of molecular biology and biochemistry

2000- tree-months visit at the Catholic University of Lueven, Belgium focused on mastering of membrane isolation and separation on Percoll gradient

2007 a 2009-2010- visit in the laboratory of Dr. Ian Moore at the University of Oxford, Oxford, UK focused on identification of RAB GTPases interactors

Grants (investigator or co-investigator)

2006-2008 GA CR (204/06/P467). RAB GTPases prenylation complex in Arabidopsis thaliana and its role in cell. **Investigator: Michal Hála,**

2009-2010 Academy of Sciences of the Czech Republic. Programm of international co-operation support AS CR (M200380971), Elucidating a role of the RAB GTPases in the terminal stage of the plant exocytosis – interactions and localization. **Investigator: Michal Hála**

2011-2014 GA CR (P305-11-1629). Functions of the plant exocyst tethering complex in exocytosis, cell division and cell wall biogenesis. Investigator: Viktor Žárský; **Co-investigator: Michal Hála**

2023- 2025 GA CR (23-05564S) FASS/TON2 functions in moss cell morphogenesis and phylogenetic insights into the TTP complex evolution. **Co-investigator.**

Scientific memberships

2018- 2023 Member of the Biology board of the Grant Agency of Charles University (GAUK)

Publications in last 5 years

Batystová K, Synek L, Klejchová M, Janková Drdová E, Sabol P, Potocký M, Žárský V, **Hála M.** (2022). Diversification of SEC15a and SEC15b isoforms of an exocyst subunit in seed plants is manifested in their specific roles in Arabidopsis sporophyte and male gametophyte. **Plant J.** 110(5):1382-1396. doi: 10.1111/tpj.15744. **IF 7.2**

Brejšková L, **Hála M,** Rawat A, Soukupová H, Cvrčková F, Charlot F, Nogué F, Haluška S, Žárský V. (2021). SEC6 exocyst subunit contributes to multiple steps of growth and development of Physcomitrella (Physcomitrium patens). **Plant J.** 106(3):831-843. doi: 10.1111/tpj.15205. **IF 7.091**

Saccomanno A, Potocký M, Pejchar P, **Hála M,** Shikata H, Schwechheimer C, Žárský V. (2021). Regulation of Exocyst Function in Pollen Tube Growth by Phosphorylation of Exocyst Subunit EXO70C2. **Front Plant Sci.** 11:609600. doi: 10.3389/fpls.2020.609600. **IF 6.627**

Hála M, Žárský V. (2019). Protein Prenylation in Plant Stress Responses. **Molecules** 24(21):3906. doi: 10.3390/molecules24213906. **IF 3.267**

Janková Drdová E, Klejchová M, Janko K, **Hála M**, Soukupová H, Cvrčková F, Žárský V. (2019). Developmental plasticity of *Arabidopsis* hypocotyl is dependent on exocyst complex function. **J Exp Bot.** 70(4):1255-1265. doi: 10.1093/jxb/erz005. **IF 5.908**

Rawat A, Brejšková L, **Hála M**, Cvrčková F, Žárský V. (2017). The *Physcomitrella patens* exocyst subunit EXO70.3d has distinct roles in growth and development, and is essential for completion of the moss life cycle. **New Phytol.** 216(2):438-454. doi: 10.1111/nph.14548.

Synek L, Vukašinović N, Kulich I, **Hála M**, Aldorfová K, Fendrych M, Žárský V. (2017). EXO70C2 is a key regulatory factor for optimal tip growth of pollen. **Plant Physiol.** 174(1):223-240. doi: 10.1104/pp.16.01282.

Non-impact publications

Michal Hála- Pohyb vody v rostlině, *Živa* 2/2023

Michal Hála – I rostliny bojují se stresem, *Vesmír* 2/2021