

# Mgr. Matouš GLANC, PhD

## Personal information

Born 4.1.1988 in Prague, Czechia; married, two children born 2017 and 2019  
[matous.glanc@psb.vib-ugent.be](mailto:matous.glanc@psb.vib-ugent.be); +32 488 239 152

## Research experience

**2019 – present: VIB-UGent Center for Plant Systems Biology**  
Postdoctoral researcher, team Bert De Rybel; Ghent (Belgium)

**2014 – 2019: Institute of Science and Technology Austria**  
Predoctoral researcher, team Jiří Friml; Klosterneuburg (Austria)

**2014 – 2015: Institute of Experimental Botany ASCR**  
Predoctoral researcher, team Eva Zažímalová; Prague (Czechia)

## Other professional experience

**2011 – 2014: Jules a Jim**  
Production and event manager, Management board member, Instructor; Prague (Czechia)

**2009 – 2014: Ramus**  
Co-founder, Chairman, Project coordinator; Prague (Czechia)

## Education

**2009 – 2019: Faculty of Science, Charles University** (Prague, Czechia)  
2014 – 2019 PhD; supervisor prof. Jiří Friml; *cum laude*  
2012 – 2014 Mgr.; supervisor prof. Viktor Žárský; *cum laude*  
2009 – 2012 Bc.; supervisor prof. Viktor Žárský

**2012 – 2013: Karlsruhe Institute of Technology** (Karlsruhe, Germany)  
ERASMUS practical internship; supervisor prof. Peter Nick

**1999 – 2007: PORG** (Prague, Czechia)  
High school

**2006: St. Albans school** (Washington D.C., USA)  
High school

**2002 – 2003: Urban Academy** (New York City, USA)  
High school

## Awards & fellowships

**FESPB Young Investigator award**, 2021  
**Marie-Sklodowska Curie individual fellowship**, 2021  
**EMBO long-term fellowship**, 2020  
**FEBS long-term fellowship**, 2020 (renounced)  
**FWO junior postdoctoral fellowship**, 2020 (renounced)  
**Poster prize** New Phytologist Next Generations Scientists Symposium, 2017  
**OEAD scholarship** for undergraduates, graduates and postgraduates, 2015

## Track record & Selected publications

ORCID: <https://orcid.org/0000-0003-0619-7783>

Total Publications: 15; Total citations: 476; h-index: 10 (Google Scholar)

**M. Glanc**<sup>\*</sup>, Plant cell division from the perspective of polarity.

*Journal of Experimental Botany*, in revision. Impact factor 6.992. <sup>\*</sup>*Invited review article*

L. Hoermayer, J. Friml, **M. Glanc**<sup>†</sup>, Automated Time-Lapse Imaging and Manipulation of Cell Divisions in Arabidopsis Roots by Vertical-Stage Confocal Microscopy.

*Methods in Molecular Biology* 2382, 105–114 (2022). <sup>†</sup>*Corresponding author*

**M. Glanc**<sup>#</sup>, K. Van Gelderen<sup>#</sup>, L. Hoermayer, S. Tan, S. Naramoto, X. Zhang, D. Domjan, L. Včelařová, R. Hauschild, A. Johnson, E. de Koning, M. van Dop, E. Rademacher, S. Janson, X. Wei, G. Molnár, M. Fendrych, B. De Rybel, R. Offringa, J. Friml, AGC kinases and MAB4/MEL proteins maintain PIN polarity by limiting lateral diffusion in plant cells.

*Current Biology* 31, 1–13 (2021). Impact factor 10.834, 10 citations. <sup>#</sup>*Equal contributions*

**M. Glanc**, M. Fendrych, J. Friml, Mechanistic framework for cell-intrinsic re-establishment of PIN2 polarity after cell division.

*Nature Plants* 4, 1082–1088 (2018). Impact factor 15.793, 38 citations.

M. Fendrych, M. Akhmanova, J. Merrin, **M. Glanc**, S. Hagihara, K. Takahashi, N. Uchida, K. U. Torii, J. Friml, Rapid and reversible root growth inhibition by TIR1 auxin signalling.

*Nature Plants* 4, 453–459 (2018). Impact factor 15.793, 123 citations.

## Peer review activities

**International journals** Journal of Plant Growth Regulation; International Journal of Molecular Sciences; Plants (*reviewer*); Current Biology, Development, Plant Cell, New Phytologist, Open Biology (*co-reviewer*)

**Funding agencies** DFG, Germany; GAUK, Czechia (*reviewer*); NSF, USA (*co-reviewer*)

## Other professional activities

**Conference presentations** 7 oral and 4 poster presentations at international conferences, including Plant Biology Europe 2021, ČSEBR PhD Conference 2021 (*invited lectures*)

**PhD co-promoter** Jim Renema (Ghent University), Monika Kubalová (Charles University)

**Student supervisor** Zlata Pavlovičová, Ludmila Včelařová, David Domjan (IST Austria), Simon Van Keer, Kenzo Vereecken (Ghent University)

## Languages

**Czech** Native speaker

**English** Full working proficiency

**German** Communicative/partial working proficiency

**French** Communicative/partial working proficiency