

Marie Hronková

Institute of Plant Molecular Biology, Biology Centre of Czech Academy of Science
Faculty of Science, Department of Experimental Plant Biology, University of South
Bohemia, České Budějovice
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Curriculum vitae:

Born: 22 November 1965 in Kroměříž, Czech Republic

Education:

Ing (MSc equivalent), Faculty of Agronomy, University of Agriculture (now Mendel University),
Brno, 1984-1989

PhD – in Plant Physiology and Immunology, Faculty of Science, University of South
Bohemia, České Budějovice, 1992-1993, 1999-2003 (“The role of abscisic acid in photosynthesis and
water transport in plants”)

Professional (scientific) interest and skills: plant physiology (photosynthesis-gas exchange, stable
isotopes, plant hormones), molecular biology - expression analysis - (Real time RT-PCR),
transcriptomics, microscopy (light, fluorescence, confocal)

Professional experience:

Institute of Experimental Botany, Czech Academy of Sciences, České Budějovice, Czech Republic:
Research Assistant 1989-1990

Institute of Plant Molecular Biology, Czech Academy of Sciences, Ceske Budejovice, CR:
Research Fellow 1990 - 2003, Research Scientist 2003 - 2006

Biological Centre CAS CR- Institute of Plant Molecular Biology, Ceske Budejovice, CR
Research Scientist 2006-present- part time

Faculty of Science, University of South Bohemia, Ceske Budejovice, Czech Republic
Research Fellow (2005 - present)- part time

Married, 3 children

1994-1999 and 2002-2005 maternity leave

Abroad Stays (Research Experience): Department of Biology, University of Antwerp, Wilrijk,
Belgium, 1992, 3 months

Teaching:

University of South Bohemia České Budějovice:

Courses: **Plant Physiology** (part of course),

Cell Biology (part of course),

Phytohormones, growth and development of plants I. and II. (grant, part)

Memberships: FESPB – (and Czech part of organisation KEBR), SEB

Languages: Czech (native), English (active), Russian and German (passive)

Selected publications:

Skalák, J.; Černý, M.; Jedelský, P.; Dobrá, J.; Ge, E; Novák, J.; Hronková, M.; Dobrev, P.; Vaňková,
R.; Brzobohatý, B: Stimulation of ipt overexpression as a tool to elucidate the role of cytokinins in
high temperature responses of *Arabidopsis thaliana*

Journal of Experimental Botany, **67** (9), 2861-2873. **IF=5.677**

Hronkova, M; Wiesnerova, D; Simkova, M; 2015. Light –induced STOMAGEN-mediated stomatal
development in *Arabidopsis* leaves. *Journal of Experimental Botany*, **66** (15), 4621-30. **IF= 5,3**

Santrucek J, Vrablova M, Simkova M, **Hronkova M**, Drtinova M, Kveton J, Vrabl D, Kubasek J, Mackova J, Wiesnerova D, Neuwithova J, Schreiber L. 2014. Stomatal and pavement cell density linked to leaf internal CO₂ concentration. *Annals of botany* **114**, 191-202. **IF = 3.295**

Mackova H, **Hronkova M**, Dobra J, Tureckova V, Novak O, Lubovska Z, Motyka V, Haisel D, Hajek T, Prasil IT, Gaudinova A, Storchova H, Ge E, Werner T, Schmuelling T, Vankova R. 2013. Enhanced drought and heat stress tolerance of tobacco plants with ectopically enhanced cytokinin oxidase/dehydrogenase gene expression. *Journal of Experimental Botany* **64**, 2805-2815., **IF = 5.242**

Mackova J, Vaskova M, Macek P, **Hronkova M**, Schreiber L, Santrucek J. 2013. Plant response to drought stress simulated by ABA application: Changes in chemical composition of cuticular waxes. *Environmental and Experimental Botany* **86**, 70-75. **IF = 2.578**

The most cited:

Vrabl, D.; Vaskova, M.; **Hronkova, M.**; et al.: Mesophyll conductance to CO₂ transport estimated by two independent methods: effect of variable CO₂ concentration and abscisic acid . *Journal of Experimental Botany*, 60 (8), 2315-2323, 2009 **IF= 5,3, 38 citations**

Others:

Melišová, I.; **Hronková, M.**; Holková , L.; Klemš, M.;, Smutná, P. 2015. Use of ABA treatment for the activation of drought protective mechanisms in barley under non-stress conditions. *Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis* , 63 (1), , 87-93

Grants - Finished:

GAAV A601410505

Patterns of isotopic composition of plant organs – a marker of photosynthetic activity, environmental conditions and leaf anatomy (2005-2008)

GAČR 206/08/0787 Environmental and physiological control of stomatal morphogeny (2008-2011)

GAČR P501/12/1261:Carbon dioxide signalling in leaf gas exchange and development (2012-2014) all above projects: co-applicant BC CAS CR, applicant - Prof. J. Šantrůček–Faculty of Science, South Bohemia University

NAZV QH91192 (2009-2011)