

RNDr. Jan Ponert

Borned 19.6.1985 in Czech Republic

Research interest:

Orchid biology. My main interest is orchid physiology, mainly seed dormancy and early developmental stages after germination (protocorms). In our laboratory, we focused on saccharide transfer between orchids and symbiotic fungi in mycorrhizal symbiosis. I am interested also in orchid taxonomy and systematics. In botanical garden, we grow a large orchid collection.

Employment:

Prague Botanical Garden: curator of terrestrial orchid collection.

Charles University, Faculty of Science: research associate at the Department of Experimental Biology.

Academic qualifications:

Doctorate (Ph.D.): 2009 – continue. Anatomy and Physiology of Plants, Charles University, Faculty of Science.

Doctorate (RNDr.) 2009/2010 - Anatomy and Physiology of Plants, Charles University, Faculty of Science.

Master's degree (Mgr.): 2007 – 2009. Anatomy and Physiology of Plants, Charles University, Faculty of Science.

Bachelor's degree (Bc.): 2004 – 2007. Molecular Biology and biochemistry of organisms, Charles University, Faculty of Science.

Scientific publications with IF:

Jan Ponert, Helena Lipavská: Utilization of exogenous saccharides by protocorms of two terrestrial orchids. *Plant Soil and Environment*, 2017, 63: 152-158. (journal IF 1.2)

Eva Hřibová, Kateřina Holušová, Pavel Trávníček, Beáta Pterovská, **Jan Ponert**, Hana Šimková, Barbora Kubátová, Jana Jersáková, Vladislav Čurn, Jan Suda, Jaroslav Doležel, Jan Vrána. The Enigma of Progressively Partial Endoreplication: New Insights Provided by Flow Cytometry and Next-Generation Sequencing. *Genome Biology and Evolution*, 2016, 8 (6): 1996–2005. doi:10.1093/gbe/evw141. (journal IF 4.1)

Jan Ponert, Pavel Trávníček, Truong Ba Vuong, Romana Rybková, Jan Suda: A New Species of *Cleisostoma* (Orchidaceae) from the Hon Ba Nature Reserve in Vietnam: A Multidisciplinary Assessment. *PlosOne*, 2016, 11(3): e0150631. doi: 10.1371/journal.pone.0150631. (journal IF 3.1)

Leonid V. Averyanov, **Jan Ponert**, Phi Tam Nguyen, Nong Van Duy, Nguyen Sinh Khang, Van Canh Nguyen: A survey of *Dendrobium* Sw. sect. *Formosae* (Benth. & Hook.f.) Hook.f. in Cambodia, Laos and Vietnam. *Adansonia*, 2016, 38 (2): 199-217. (journal IF 0.2)

Pavel Trávníček, **Jan Ponert**, Tomáš Urfus, Jana Jersáková, Jan Vrána, Eva Hřibová, Jaroslav Doležel, Jan Suda: Challenges of Flow-Cytometric Estimation of Nuclear Genome Size in Orchids, a Plant Group with Both Whole-Genome and Progressively Partial Endoreplication. *Cytometry Part A*, 2015, 87A (10): 958-966. doi: 10.1002/cyto.a.22681. (journal IF 3.2)

Jan Ponert, Tomáš Figura, Stanislav Vosolsobě , Helena Lipavská, Martin Vohník, Jana Jersáková: Asymbiotic germination of mature seeds and protocorm development of *Pseudorchis albida* (Orchidaceae) are inhibited by nitrates even at extremely low concentrations. *Botany*, 2013, 91(10): 662-670, [dx.doi.org/10.1139/cjb-2013-0082](https://doi.org/10.1139/cjb-2013-0082). (journal IF 1.2)

Pascal Bruggeman, Truong Ba Vuong, Romana Rybková, **Jan Ponert**: *Arisaema claviforme* sp. nov. and a new record of *Arisaema* (Araceae) from Vietnam. *Nordic Journal of Botany* 31 (5): 556–560, 2013. doi: 10.1111/j.1756-1051.2013.00111.x (journal IF 0.6)

Jana Jersáková, Pavel Trávníček, Barbora Kubátová, Jana Krejčíková, Tomáš Urfus, Zhong Jian Liu, Anthony Lamb, **Jan Ponert**, Katharina Schulte, Vladislav Čurn, Jan Vrána, Ilija J. Leitch, Jan Suda: Genome size variation in Orchidaceae subfamily Apostasioideae: filling the phylogenetic gap. *Botanical Journal of the Linnean Society*, 2013, 172, 95–105. (journal IF 2.6)

Teaching:

One semestral course Orchid biology (Charles University, Faculty of Science, yearly from 2010).

One semestral course Orchideology (University of South Bohemia, 2016, 2012/2013, 2010/2011)

One semestral course Introduction to horticulture (Charles University, Faculty of Science, yearly from 2012).