

15. 03. 2019

**Title of presentation:** Native plant communities and response to anthropogenic changes: importance of environmental tolerance and evolutionary adaptations

### **Curriculum vitae**

Name: Petr Dostál  
Nationality: Czech  
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### **Research interests**

I am a plant community ecologist. I am interested in how biotic interactions determine abundance and distribution of plant populations. In my previous research I investigated how native organisms can promote or, in contrast, reduce dominance of exotic plants. Currently, I explore local abundance patterns of plant species as a result of fitness and niche differences (*sensu* Chesson (2000) *Annu. Rev. Ecol. Syst.* 2000. 31:343–66). Further, I examine an association between plant species abundance and phenotypic plasticity.

### **Academic career**

Since 2013 Research Fellow at the Institute of Botany, Průhonice CAS, Czech Republic  
2013–2016 Post-Doctoral Fellow, University of Bern, Fischer Laboratory (Plant Ecology), Switzerland  
2010–2012 Sciex-NMSch Post-Doctoral Fellow, University of Bern, Fischer Laboratory (Plant Ecology), Switzerland (15 months)  
Since 2005 Post-doctoral Researcher, Institute of Botany, Průhonice CAS, Czech Republic  
2002–2005 Research Assistant at the Institute of Botany CAS, Průhonice, Czech Republic  
1997–2005 Ph.D., Plant Ecology. Charles University, Faculty of Sciences, Department of Botany, Prague, Czech Republic (during October 2000–March 2002 interrupted due to alternative military service).  
1992–1997 M.Sc., Botany. Charles University, Faculty of Sciences, Department of Botany, Prague, Czech Republic

### **Three most important publications:**

Dostál, P. Plant competitive interactions and invasiveness: searching for the effects of phylogenetic relatedness and origin on competition intensity. *American Naturalist*, 2011, 177, 655–667

Dostál, P., Müllerová, J., Pyšek, P., Pergl, J. & Klínerová, T. The impact of an invasive plant changes over time. *Ecology Letters*, 2013, 16, 1277–1284

Dostál, P, Tasevová, K, Klínerová, T. Linking species abundance and overyielding from experimental communities with niche and fitness characteristics. *Journal of Ecology*, 2019, 107, 178– 189.