



## Workshop Application for ICAR 2017

### **Proposed Workshop Title:**

The ADAPTOMICS workshop on emerging Brassicaceae model species (DFG SPP1529)

### **Workshop Date:**

Thursday June 22 (because of restricted availability of Dr. Tsiantis)

### **Proposed Workshop Topic:**

*Arabidopsis thaliana* is the most developed plant model, which continues to allow great scientific progress in the plant sciences. The very biology that facilitated the success of *Arabidopsis* as a model organism, however, implies that highly important research questions cannot be addressed in this species. The German DFG-funded Research Priority Programme 1529 ADAPTOMICS (“Evolutionary Solutions to Ecological Challenges: Molecular mechanisms underlying adaptive traits in the Brassicaceae *s.l.*”; [www.adaptomics-dfg.de](http://www.adaptomics-dfg.de)) has been working to fill this gap over the past six years. The goal of this research programme is to employ the benefits afforded by genomics and high-throughput sequencing technologies in order to address traits and scientific questions that cannot be studied in *Arabidopsis* alone, while taking maximal advantage of knowledge, tools and resources available for this closely related species. This workshop will showcase the successful development of novel Brassicaceae model species and genome-enabled approaches towards understanding the molecular mechanistic basis, ecological roles and evolutionary history of important phenotypic traits that are not found in *A. thaliana*. There will be one established speaker from within the ADAPTOMICS consortium (I) and two selected speakers from outside the consortium who are young PIs (II, III).

### **Organizers:**

Dr. Ute Krämer, Full Professor, Molecular Genetics and Physiology of Plants, Ruhr University Bochum, email: [Ute.Kraemer@ruhr-uni-bochum.de](mailto:Ute.Kraemer@ruhr-uni-bochum.de)

Dr. Miltos Tsiantis (see below)

### **List of Potential Speakers and Prospective Talk Topics (speakers have accepted):**

- I) **Prof. Dr. Miltos Tsiantis**, Director, Max Planck Institute for Plant Breeding Research, Cologne, Germany; email: [tsiantis@mpipz.mpg.de](mailto:tsiantis@mpipz.mpg.de); “Exploiting *Cardamine hirsuta* to understand the genetic basis for evolution of plant form”
- II) **Dr. Maheshi Dassanayake**, Assistant Professor, Louisiana State University, Baton Rouge, LA; email: [maheshid@lsu.edu](mailto:maheshid@lsu.edu); „The Genomic Basis of Extreme Edaphic Adaptations in *Schrenkiella parvula*“
- III) **Dr. Levi Yant**, Project Leader, John Innes Center, Norwich, UK; email: [levi.yant@gmail.com](mailto:levi.yant@gmail.com); „Insights from Population Genomics in Natural Populations of *Arabidopsis arenosa*“