Invitation to
VIBT & *ERASMUS*+ Lectures

Universität für Bodenkultur Wien
University of Natural Resources and Life Sciences, Vienna

Department für Angewandte Genetik und Zellbiologie
Department of Applied Genetics and Cell Biology

Prof. George Diallinas

Professor in Molecular Microbiology
Department of Biology, University of Athens, Greece

Dissection of membrane transporter structure and function – lessons from a fungal paradigm

Friday June 9th, 2017
Time: 11:15 am
Seminar Room DAGZ Muthgasse 18 - 4th floor (MUG2-04/54)

In his talk he will present highlights concerning how fungal genetics, combined with new methodologies for assaying their cellular expression and function, as well as, recent structural approaches, have led to the functional dissection of a prototypical purine transporter from the filamentous fungus *Aspergillus nidulans.*

Transporters are transmembrane proteins mediating the selective uptake or efflux of solutes, metabolites, drugs or ions across cellular membranes. Despite their immense biological importance in cell nutrition, communication, signaling and homeostasis, their study remains technically difficult mostly due to their lipid-embedded nature. In addition, the study of eukaryotic transporters presents an additional complexity due to multiple subcellular control mechanisms, which operate to ensure their proper membrane traffic, membrane localization and turnover. Model fungi present unique genetic tools to study eukaryotic transporter function.

Host: Joseph Strauss