Director of Research

Head of the Microbial Molecular Genetics Laboratory

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Curriculum Vitae

Research Staff

Christos Gournas: Researcher

Curriculum Vitae

Ada Biratsi, Post-Graduate Fellow (PhD candidate)

Mirsini Charicleous, Undergraduate Student (Diploma Thesis)

Loudres Arias Salazar, Erasmus student

Research Interests

Our group is primarily interested in several aspects concerning: 1) regulation of expression, structure-function relationships, specificity, cell biology and evolution of amino acid transporter proteins and 2) the lateral organization of the fungal plasma membrane. Our model organism of choice is the non-pathogenic ascomycetes *Aspergillus nidulans*, a classic model genetic system since the 1950's. Two *A*.

nidulans

amino acid transporters have been cloned and studied in detail in respect to their transcriptional, post-translational/functional and cellular control of expression. In addition, we have introduced

A. nidulans

as a novel model system for the expression and/or functional characterization of heterologous transporter genes (Argyrou et al. 2001). In parallel, the last 7 years we have been studying the lateral compartmentation of

A. nidulans

plasma membrane and how this organization is implicated in different cellular processes. In particular we are focusing on "eisosomes" static plasma membrane compartments that constitute nanoscale furrow-like invaginations of the plasma membrane, where proteins and lipids segregate and their implication in fundamental cellular processes (sphingolipid biosynthesis, endocytosis of membrane proteins, function of efflux pumps and fungal pathogenicity).

















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