

## GEORGE DIALLINAS *short CURRICULUM VITAE*

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**BSc** Cell Biology, Essex University, UK (1984), **DEA** in Microbiology, University Paris-Sud (XI), Orsay, Paris France (1985), **PhD** Molecular Genetics, University Paris-Sud (XI), Paris France (1989)

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### CURRENT RESEARCH

Regulation of expression, structure, function, cell biology and evolution of transporters. Use of *Aspergillus nidulans* and *Saccharomyces cerevisiae* as model systems for: a) genetically and biochemically dissecting structure-function relationships underlying transporter function, specificity and molecular evolution, b) identifying the pathways and molecular mechanisms involved in the membrane trafficking, endocytosis and turnover of specific transporters in response to various physiological, stress, developmental and genetic signals, c) studying the role of transporters in fungal pathogenicity and use *in silico* modeling of specific purine transporters for rational antifungal drug design. >82 peer-reviewed publications (h-index 30), >160 congress presentations, > 35 invited lectures, 24 PhD supervised, Visiting Professor Univeridad do Minho (Portugal).

### Links:

<http://scholar.uoa.gr/diallina> (personal webpage)

<https://scholar.google.gr/citations?user=ZRYSaM8AAAAJ&hl=el&oi=ao>

[https://www.researchgate.net/profile/George\\_Diallinas/](https://www.researchgate.net/profile/George_Diallinas/)

<http://www.ncbi.nlm.nih.gov/pubmed/?term=diallinas+g>

### RECENT SELECTED PUBLICATIONS

1. **G. Diallinas** and C. Gournas. 2008. Structure-function relationships in the Nucleobase-Ascorbate Transporter (NAT) family: Lessons from model microbial genetic systems. *Channels*, 2, 363-372.
2. **G. Diallinas**. Biochemistry. 2008. An almost-complete movie. *Science*. 12:1644-5.
3. Gournas C, Amillis S, Vlanti A and **Diallinas G**. 2010. Transport-dependent endocytosis and turnover of a uric acid-xanthine permease. *Mol Microbiol*. 75:246-260
4. Kosti V, Papageorgiou I and Diallinas G. 2010. Dynamic elements at both cytoplasmic- and extracellular-facing sides of the UapA transporter selectively control the accessibility of substrates to their translocation pathway. *J Mol Biol*. 397(5):1132-43.
5. Karachaliou M, Amillis S, Evangelinos M, Kokotos AC, Yalelis V, **Diallinas G**. 2013. The arrestin-like protein ArtA is essential for ubiquitination and endocytosis of the UapA transporter in response to both broad-range and specific signals. *Mol Microbiol*. 88(2):301-17
6. **Diallinas, G**. 2014. Understanding transporter specificity and the discrete appearance of channel-like gating domains in transporters. *Front. Pharmacol*. 5:207.
7. Kryptou E, Evangelidis T, Bobonis J, Pittis AA, Gabaldón T, Scazzocchio C, Mikros E, **Diallinas G**. 2015. Origin, diversification and substrate specificity in the family of NCS1/FUR transporters. *Mol Microbiol*. 96(5):927-50.
8. Martzoukou O, Karachaliou M, Yalelis V, Leung J, Byrne B, Amillis S, **Diallinas G**. 2015. Oligomerization of the UapA purine transporter is critical for ER-exit, plasma membrane localization and turnover *J Mol Biol*. 2015 Aug 14;427(16):2679-96.
9. Evangelinos M, Martzoukou O, Chorozián K, Amillis S, **Diallinas G**. BsdA(Bsd2)-dependent vacuolar turnover of a misfolded version of the UapA transporter along the secretory pathway: Prominent role of selective autophagy. *Mol Microbiol*. 2016 Jun;100(5):893-911.
10. Alguel Y, Amillis S, Leung J, Lambrinidis G, Capaldi C, Scull NJ, Craven G, Iwata S, Armstrong A, Mikros E, **Diallinas G\***, Cameron AD, Byrne B. Structure of eukaryotic purine/H<sup>+</sup> symporter UapA suggests a role for homodimerization in transport activity. *Nat Commun*. 2016 Apr 18;7:11336 (\* co-corresponding author)
11. **Diallinas G**. Dissection of Transporter Function: From Genetics to Structure. *Trends Genet*. 2016 Sep;32(9):576-90.
12. Martzoukou O, Amillis S, Zervakou A, Christoforidis S, **Diallinas G**. The AP-2 complex has a specialized clathrin-independent role in apical endocytosis and polar growth in fungi. *eLIFE* 2017 Feb 21;6. pii: e20083. doi: 10.7554/eLife.20083.)