

PERSONAL INFORMATION

Name **George**
Surname **Diallinas**
Place and date of birth Heraklion, August 21, 1961
Present address Faculty of Biology, Department of Botany
University of Athens, Panepistimioupolis 15784 Athens, Greece.
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DEGREES

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

FURTHER TRAINING

1989 - 1990 Military service.
1991 - 1993 Postdoctoral fellow, Institute of Molecular Biology and Biotechnology (I.M.B.B.), Yeast gene expression laboratory, Heraklion, Crete, Greece.
1994 Postdoctoral fellow, Plant Physiology Laboratory, Institute of Molecular Biology and Biotechnology (I.M.B.B.), Heraklion, Crete, Greece.
1995 - 1996 Postdoctoral fellow, *A. nidulans* gene expression regulation group, Institut de Génétique et Microbiologie, Centre d'Orsay, Université de Paris-XI, Orsay, France.
1996-1998 Postdoctoral fellow, Plant Molecular Biology Laboratory, I.M.B.B., Heraklion, Crete, Greece.
1998-2002 **Lecturer** Microbiology, University of Athens, Faculty of Biology, Department of Botany, University of Athens, Athens, Greece
2002-2008 **Assistant Professor**, Molecular Microbiology, University of Athens, Faculty of Biology, Department of Botany, University of Athens, Greece
2008-2014 **Associate Professor**, Molecular Microbiology, University of Athens, Faculty of Biology, Department of Botany, University of Athens, Athens, Greece
2014- **Professor**, Molecular Microbiology, University of Athens, Faculty of Biology, Department of Botany, University of Athens, Athens, Greece

CURRENT RESEARCH

My lab is established in the Faculty of Biology and is well equipped with major facilities for studies on microbial genetics, biochemistry physiology and molecular biology. Major interests: 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 purine-pyrimidine 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, 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.

Links:

<https://www.facebook.com/gdiallinas>
https://www.researchgate.net/profile/George_Diallinas/
<http://www.linkedin.com/pub/george-diallinas/1a/74/b7a>
<http://m-biotech.biol.uoa.gr/diallinas.htm>
<http://www.ncbi.nlm.nih.gov/pubmed/?term=diallinas+g>

RELATED DUTIES

- **Teaching:** Undergraduate courses; General Microbiology, Molecular Microbiology. Post-graduate courses; Plant Molecular Biology, Microbial Biotechnology, Biophysics (1998-present).
- **Translation** of part of textbook "Microbiology", Pelczar, Chan, Krieg eds (2005).
- **Member** of Biophysical Society (USA), Hellenic Scientific Societies EEMBB, PEB & EEBE.
- **Visiting Professor** University of Minho, Braga, Portugal.
- **Congress Organization:** 21st SMYTE, Chania, Greece (2001).

- **Administrative Duties:** Member of the Coordinating Committee of the “Microbial Biotechnology” graduate programme, University of Athens (2003-present), Member of Coordinating Committee for Seminar Organization in the Faculty of Biology.
- **Responsible for Erasmus exchanges** with: Universita de Bari, Italia, 2006; Universita de Firenze, Italia, 2006; Université de Paris VII-Denis Diderot, 2004-2007, Université de Paris-Sud (Paris XI), 2004-2007; Bonn University, Bonn, Germany, 2010-2013, J.W. Goethe-University, Frankfurt, Germany, 2010-2013; Universitaet fuer Bodenkultur Wien (BOKU), 2004-2014; Universidade do Minho, 4710-057 Braga Portugal, 2004-2014;
- **Supervision of Research Students:** 16 PhDs for University of Athens (10 completed, 4 ongoing) and co-supervision of 2 PhDs for University of Minho, Braga, Portugal. Member of the Advisory Committee for 22 more PhD theses. 9 MSc students (1-year research projects). 54 Diploma (B.Sc) (12-18 month projects).
- **Editorial/Refereeing duties:** Editorial Board *Molecular Membrane Biology*, *World Journal of Biobiological Chemistry & Advances in Biology*. Reviewer for *Science*, *J. Membrane Biology*, *Molecular Microbiology*, *Journal of Microbiology*, *Molecular General Genetics (Molecular Genetics and Genomics)*, *FEMS Microbiology Reviews*, *Fungal Genetics and Biology*, *Applied Microbiology and Biotechnology*, *FEMS Yeast Research*, *PLoS ONE*, *Frontiers in Pharmacology*, *Plant Physiology*, etc and for the USDA-USA, the Austrian Science Fund (FWF), The Research Foundation - Flanders (FWO), the Greek Ministries of Education and Development, and the Greek Organization of Pharmaceuticals (EOF).

DISTINCTIONS

1985-86	Onassis Foundation Fellowship for Ph.D studies
1986-89	EU Action Fellowship for Ph.D studies
1994-96	Training and Mobility of Research Post-doc Grant
1996-97	Training and Mobility of Research Post-doc Return Grant ERB4001gt951247
2001	Editorial board of <i>Molecular Membrane Biology</i>
2002	Archimedes E.U. Award (www.cordis.lu/improving/awards/home.htm)
2004-	Three articles selected by F-1000 (www.facultyof1000.com)
2009	Member of Biophysical Society-USA Member of Biophysical Society-USA
2010	John S. Latsis Public Benefit Foundation Research Award 2011 (http://www.latsis-foundation.org/en/14/projects.html)
2013	Member of Biochemical Society (FEBS)

FUNDING

- European Union ‘Archimedes’ First Prize for Undergraduate Research 2002-2004 “*Study of structure-function relationships in Nucleobase Transporters*” Budget: 44,000€.
- Joint Research & Technology Exchange Programmes PLATO: Greece-France 2002-2003: “Purine transporters as key molecules for the targeted pharmacological treatment of *Candida albicans*”. Budget: 11,480€.
- EPEAEK II PYTHAGORAS, General Secretariat for Research & Technology, Ministry of Education Greece, (2003-2005): “Structure-Function relationships of nucleobase transporters for the systematic development of antimicrobial drugs”. Budget: 50,000€.
- Reinforcement Program of Human Research Manpower, General Secretariat for Research & Technology, Greece (GSRT)-PENED 2003. “Optimization of bioethanol production”, (2004-2008). Budget: 235,000€
- Reinforcement Program of Human Research Manpower, General Secretariat for Research & Technology, Greece (GSRT)-PENED 2003 “Structure-Function relationships of purine transporters for the targeted pharmacological treatment of pathogenic fungi”, (2004-2008). Budget: 193,834€
- Scientific & Technological Exchange Co-operations Greece-Germany (2004-2007). “*Invasive Aspergillosis: Identification of Fungal Proteins Suited as Specific Drug Gateways*”. Budget: 50,000€.
- Collaborations with Research and Technology Organizations outside Europe (05NONEU-547) (2006-2009). “Mapping the substrate binding pocket of nucleobase-ascorbate transporters (NATs) for the development of targeted acting drugs” awarded to Prof. S. Frillingos. Budget: 60,000€
- EPEAEK II HERACLETUS, General Secretariat for Research & Technology, Ministry of Education Greece, (2010-2013): “Genetic, molecular and biochemical approaches to study structure-function relationships in of transmembrane purine transporters”. Budget: 45,000€

- EPEAEK II HERACLETUS, General Secretariat for Research & Technology, Ministry of Education Greece, (2010-2013): “Studies on the regulatory mechanisms controlling targeting and endocytosis of transmembrane purine transporters in a model genetic system”. Budget: 45,000€
- ESPA, Support of Post-doctoral Researchers, General Secretariat for Research & Technology, Ministry of Education Greece, (2011-2014): “Unravelling the specific pathways and mechanisms involved in transporter trafficking in a model genetic system”. Budget: 150,000€- Candidate declined the grant for personal reasons
- Operational Program for Education and Lifelong Learning (Thalis-Biological and Medical sciences, NSRF 2007-2013). Ministry of Education, Lifelong Learning and Religious Affairs, co-financed by the European Union. Research topic: “EVOTRANS, Membrane transport: Structure-function and evolutionary relationships”, granted to Assoc. Prof. S. Frilingos (UOI, School of Medicine), Prof. V. Sophianopoulou (NCSR Demokritos, Dept. Biology), Assoc. Prof. N. Pouli (NKUA, Faculty of Pharmacy), Prof. C. Drainas (UOI, Faculty of Chemistry) Budget: 600,000€ (80,000 in my lab).
- Operational Program for Education and Lifelong Learning (Thalis-Biological and Medical sciences, NSRF 2007-2013). Ministry of Education, Lifelong Learning and Religious Affairs, co-financed by the European Union. Research topic: “MINOS, Development and employment of Minos based genetic and functional genomic technologies in model organisms”, granted to Prof. C. Savakis (BSRC Fleming, Institute of Cellular and Developmental Biology), Prof. M. Averof (IMBB, Institute of Molecular Biology and Biotechnology), Assoc. Prof. G. Diallinas (NKUA, Faculty of Biology). Budget: 600,000€ (85,000 in my lab).

INVITED ORAL PRESENTATIONS

(Universities, conferences and advanced schools in the last 10 years)

1. 21st International Conference on Yeast Genetics & Molecular Biology, Gotheburg Sweden, 2003
2. Faculty of Medicine, University of Gottingen, Gottingen, Germany, 2005
3. Faculty of Biology, University of Minho, Braga, Portugal, 2006
4. Advanced course on Plasma membrane transporters: Physiology, Genetics and Phylogeny 2nd edition, Braga, Portugal, 2007
5. 'Horizons in Molecular Biology and Genetics' Symposium, Bilkent University, Ankara, 2008
6. Eurofungbase Meeting, LSSG-CT-2005-018964, San Feliu de Guixols, Spain, 2008
7. Imperial College, London, UK, 2008
8. 26th Smyte (Small Meeting on Yeast Transport and Energetics), Braga, Portugal, 2008
9. EMBO/FEBS lecture Course Channels and Transporters, Ettore Majorana Foundation and Center for Scientific Culture, Erice, Sicily, Italy, 2008
10. Faculty of Pharmacy, University of Bonn, Bonn, Germany, 2009
11. CIB-CSIC, Madrid, Spain, 2010
12. Eurofungbase Meeting, Wageningen, Holland, 2009
13. Advanced course on Plasma membrane transporters: Physiology, Genetics and Phylogeny 3rd edition, Braga, Portugal, 2010
14. Advanced course on Plasma membrane transporters: Physiology, Genetics and Phylogeny 4th edition, Braga, Portugal, 2012
15. Eurofungbase Meeting, Berlin, Germany, 2012
16. 3rd International Workshop on *Expression, Structure and Function of Membrane Protein*, Florence, Italy, 2012
17. FEBS Special Meeting in *Protein Quality Control and Ubiquitin Systems in health and disease*, Kusadasi, Turkey 2012
18. 27th *Fungal Genetics* Conference at Asilomar, Membrane trafficking and molecular organization, Asilomar, CA, USA, 2013
19. Marcelle Grenson opening lecture in 31st Smyte (Small Meeting on Yeast Transport and Energetics), Antalya, Turkey, September 2013 (Distinct mechanisms control ubiquitination and turnover of the UapA transporter in response to physiological signals or protein misfolding).
20. 1st Meeting of the Turkish Society of Molecular Biology, Instambul, Turkey, November 2013 (How transporters function; Lessons for a model fungal system).
21. Lab Physiologie Moléculaire de la Cellule, ULB - Institut de Biologie et de Médecine Moléculaires 6041 Gosselies, Belgium, 18 March 2014
22. 12th European conference on fungal genetics, Seville, March 23-27, 2014
23. Institute of Botany and Microbiology, Department of Biology KU Leuven, Flanders, Belgium, April 2014
24. Karlsruhe Institute of Technology, Dept. of Microbiology, Karlsruhe, Germany, July 2014

SABBATICAL

1. February 2005-April 2005, Genetics & Developmental Biology lab, Prof. C. Delidakis, IMBB, ITE, Heraklio, Crete, Greece
2. September 2009-March 2010-Faculdade de Biologia, Universidade do Minho, Braga, Portugal, Yeast Genetics and Biotechnology lab, Prof. M. Casal

PEER-REVIEWED PUBLICATIONS

1. **G. Diallinas** and C. Scazzocchio, 1989. A gene coding for the uric acid-xanthine permease of *Aspergillus nidulans*: inactivational cloning, characterization and sequence of a cis-acting mutation. *Genetics*, 122: 341-350
2. V. Sophianopoulou, T. Suarez, **G. Diallinas** and C. Scazzocchio, 1993. Operator derepressed mutants in the proline utilisation cluster of *Aspergillus nidulans*. *Mol Gen Genet*, 236: 209-213
3. V. Sophianopoulou and **G. Diallinas**, 1993. AUA1, a gene involved in ammonia regulation of amino acid transport in *Saccharomyces cerevisiae*. *Mol Microbiol*, 8: 167-178
4. L. Gonfinkiel, **G. Diallinas** and C. Scazzocchio, 1993. Sequence and regulation of the uapA gene, encoding a uric acid-xanthine permease in the fungus *Aspergillus nidulans*. *J Biol Chem*, 268: 23376-23381
5. **G. Diallinas** and G. Thireos, 1994. Genetic and Biochemical evidence for GCN2 protein kinase polymerization. *Gene*, 143: 21-27
6. **G. Diallinas** and A. Kanellis, 1994. A phenylalanine ammonia-lyase gene from melon fruit: cDNA cloning, sequence and expression in response to development and wounding. *Plant Mol Biol*, 26: 473-479
7. U. H. Tazebay, V. Sophianopoulou, C. Scazzocchio, A. Rosa and **G. Diallinas**, 1994. Structure-Function Analysis of the Proline Permease (PRNB) of the Filamentous Fungus *Aspergillus nidulans*. *Folia Microbiol*, 39: 551-553
8. **G. Diallinas**, L. Gorfinkiel, H. Arst, G. Cecchetto and C. Scazzocchio, 1994. Genetic and Molecular Characterisation of Purine Permease Genes of *Aspergillus nidulans* Reveals a Novel Family of Transporters Conserved in Prokaryotes and Eukaryotes. *Folia Microbiol*, 39: 513-514
9. **G. Diallinas**, L. Gorfinkiel, H. Arst, G. Cecchetto and C. Scazzocchio, 1995. Genetic and molecular characterisation of a wide-specificity purine permease of *Aspergillus nidulans* reveals a novel family of transporters conserved in prokaryotes and eukaryotes. *J Biol Chem* 270: 8610-8622
10. V. Sophianopoulou and **G. Diallinas**, 1995. Amino acid transporters of lower eukaryotes: regulation, structure and topogenesis. *FEMS Microbiol Rev*, 16: 53-75
11. U. H. Tazebay, V. Sophianopoulou, B. Cubero, C. Scazzocchio and **G. Diallinas**, 1995. Post-transcriptional regulation and kinetic characterization of proline transport in germinating conidiospores of *Aspergillus nidulans*. *FEMS Microbiol Lett*, 132: 27-37
12. **G. Diallinas**, I. Pateraki, M. Sanmartin, A. Scossa, E. Stylianou, N. Panopoulos and A. Kanellis, 1997. Melon ascorbate oxidase: cloning of a multigene family, induction during fruit development and repression by wounding. *Plant Mol Biol*, 34: 759-770
13. U. H. Tazebay, V. Sophianopoulou, C. Scazzocchio, and **G. Diallinas**, 1997. The gene encoding the major proline transporter gene of *Aspergillus nidulans* is upregulated during conidiospore germination and in response to proline induction and amino acid starvation. *Mol Microbiol*, 24: 105-117
14. A. Ravaganani, L. Gonfinkiel, **G. Diallinas**, T. Langdon, E. Adjai, S. Demais, D. Gorton, H. N. Arst, Jr. and C. Scazzocchio, 1997. Subtle hydrophobic interactions between the seventh loop amino acid of the Zn finger and the first base of a HGATAR sequence determines promoter specific recognition by the GATA factor of *Aspergillus nidulans*. *EMBO J*, 16: 3974-3986
15. **G. Diallinas**, V. Sophianopoulou, L. Gorfinkiel, G. Cecchetto, Valdez, A. Rosa and C. Scazzocchio, 1997. Structure-function analysis of purine transporters in *Aspergillus nidulans*. *Folia Microbiol*, 42: 260-261
16. **G. Diallinas**, J. Valdez, V. Sophianopoulou, A. Rosa and C. Scazzocchio, 1998. Chimeric protein analysis reveals a region involved in function and specificity of purine transporters in the filamentous fungus *Aspergillus nidulans* conserved in bacteria, plants and metazoans. *EMBO J*, 17: 3827-3837
17. H. De Koning and **G. Diallinas**, 2000. Nucleobase transporters. *Mol Membr Biol*, 17: 75-94

18. C. Meintanis, A. Karagouni and **G. Diallinas**, 2000. Amino acid residues N450 and Q449 are critical for the uptake capacity and specificity of UapA, a prototype of a nucleobase-ascorbate transporter family. *Mol Membr Biol*, 17:47-57
19. J. Valdez-Taubas, **G. Diallinas**, C. Scazzocchio and A. Rosa, 2000. Protein expression and subcellular localization of the general purine transporter UapC from *Aspergillus nidulans*. *Fungal Genet Biol*, 30: 105-113
20. E. Argyrou, V. Sophianopoulou, N. Schultes, and **G. Diallinas**, 2001. Functional characterization of a maize purine transporter by expression in *Aspergillus nidulans*. *Plant Cell*, 13: 953-964
21. P. Ververidis, F. Davrazou, **G. Diallinas**, D. Georgakopoulos, A. Kanellis and N. Panopoulos, 2001. A novel putative reductase (Cpd1p) and the multidrug exporter Snq2p are involved in resistance to cercosporin and other singlet oxygen-generating photosensitizers in *Saccharomyces cerevisiae*. *Curr Genet*, 39: 127-136
22. S. Amillis, M. Koukaki and **G. Diallinas**, 2001. Substitution F569S converts UapA, a specific uric acid-xanthine transporter, into a broad specificity transporter for purine-related solutes. *J Mol Biol*, 313: 765-774
23. Tavoularis SN, Tazebay UH, **Diallinas G**, Sideridou M, Rosa A, Scazzocchio C, Sophianopoulou V, 2003. Mutational analysis of the major proline transporter (PrnB) of *Aspergillus nidulans*. *Mol Membr Biol*, 20: 285-97
24. Koukaki M, Giannoutsou E, Karagouni A, **Diallinas G**, 2003. A novel improved method for *Aspergillus nidulans* transformation. *J Microbiol Methods*, 55: 687-695
25. Cecchetto G, Amillis S, **Diallinas G**, Scazzocchio C, Drevet C, 2004. The AzgA purine transporter of *Aspergillus nidulans*: characterisation of a protein belonging to a new phylogenetic cluster. *J Biol Chem*, 279: 3132-3141
26. S. Amillis, G. Cecchetto, V. Sophianopoulou, M. Koukaki, C. Scazzocchio and **G. Diallinas**, 2004. Transcriptional activation of purine transporters during the conidial isotropic growth phase of *Aspergillus nidulans*. *Mol Microbiol*, 52: 205-216
27. I.G Papageorgiou, L. Yakob, M.I. Al Salabi, **G. Diallinas**, K.P. Soteriadou and H.P. de Koning, 2005. Identification of the first pyrimidine nucleobase transporter in *Leishmania*: similarities with the *Trypanosoma brucei* U1 transporter and antileishmanial activity of uracil analogues. *Parasitology*, 130: 275-83
28. S. Goudela, P. Karatza, M. Koukaki, S. Frillingos and **G. Diallinas**, 2005. Comparative substrate recognition by bacterial and fungal purine transporters of the NAT/NCS2 family. *Mol Membr Biol*, 22: 263-275
29. M. Koukaki, A. Vlanti, S. Goudela, A. Pantazopoulou, H. Gioule, S. Tournaviti and **G. Diallinas**, 2005. The Nucleobase-Ascorbate Transporter (NAT) Signature Motif in UapA Defines the Function of the Purine Translocation Pathway. *J Mol Biol*, 350: 499-513
30. A. Vlanti, S. Amillis, M. Koukaki, and **G. Diallinas**, 2006. The last transmembrane segment of UapA, a member of the nucleobase-ascorbate transporter (NAT) family, includes a substrate-selectivity filter and is necessary for ER-exit. *J Mol Biol*, 357: 808-819
31. S. Goudela, H. Tsilivi and **G. Diallinas**, 2006. Comparative kinetic analysis of AzgA and Fcy21p, prototypes of the two major fungal hypoxanthine-adenine-guanine transporter families. *Mol Membr Biol*, 23: 291-303
32. A. Pantazopoulou and **G. Diallinas**, 2006. The first transmembrane segment (TMS1) of UapA contains determinants necessary for expression in the plasma membrane and purine transport. *Mol Membr Biol*, 23: 337-248
33. A. Pantazopoulou N.D. Lemuh, D.G. Hatzinikolaou, C. Drevet, G. Cecchetto C. Scazzocchio and **G. Diallinas**. 2007. Differential physiological and developmental expression of the UapA and AzgA purine transporters in *Aspergillus nidulans*. *Fungal Genet Biol*, 44: 627-640
34. S. Amillis, Z. Hamari, K. Roumelioti, C. Scazzocchio and **G. Diallinas**. 2007. Regulation of Expression and Kinetic Modeling of Substrate Interactions of a Uracil Transporter in *Aspergillus nidulans*. *Mol Membr Biol*, 24:206-214
35. A. Pantazopoulou and **G. Diallinas**, 2007. Fungal Nucleobase transporters. *FEMS Microbiol Rev*, 31: 657-675
36. I. Soares-Silva, S.Paiva, **G. Diallinas**, and M. Casal. 2007. The conserved sequence NXX[S/T]HX[S/T]QDXXXT of the lactate/pyruvate:H⁺ symporter subfamily defines the function of the substrate translocation pathway. *Mol Membr Biol*, 24: 464-474
37. S. Goudela, U. Reichard, S. Amillis and **Diallinas G**. 2008. Characterization and kinetics of the major purine transporters in *Aspergillus fumigatus*. *Fungal Genet Biol*, 45

38. I. Papageorgiou, H.P. De Koning, K. Soteriadou and **G. Diallinas**. 2008. Kinetic and mutational analysis of the *Trypanosoma brucei* NBT1 nucleobase transporter expressed in *Saccharomyces cerevisiae* reveals structural similarities between ENT and MFS transporters. *Int J Parasitol*, 38: 641-653
39. A. Vlanti and **G. Diallinas**. 2008. The *Aspergillus nidulans* FcyB cytosine-purine scavenger is highly expressed during germination and in reproductive compartments and is down-regulated by endocytosis. *Mol Microbiol*, 68: 959-977
40. C. Gournas, I. Papageorgiou and **G. Diallinas**. 2008. The Nucleobase-Ascorbate Transporter (NAT) family: Genomics, evolution, structure-function relationships and physiological role. *Mol BioSys*, 4: 404 – 416
41. I. Papageorgiou, C. Gournas, A. Vlanti, S. Amillis, A. Pantazopoulou and **G. Diallinas G**. 2008. Specific interdomain synergy in the UapA transporter determines its unique specificity for uric acid among NAT carriers. *J Mol Biol*. 382:1121-1135
42. **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.
43. **G. Diallinas**. Biochemistry. 2008. An almost-complete movie. *Science*. 12:1644-5.
44. N.D. Lemuh, **G. Diallinas**, S. Frilingos, G. Mermelekas, A.D. Karagouni and D.G. Hatzinikolaou. 2009. Purification and partial characterization of the xanthine-uric acid transporter (UapA) of *Aspergillus nidulans*. *Protein Expr Purif*. 63:33-39
45. Hamari Z, Amillis S, Drevet C, Apostolaki A, Vágvölgyi C, **Diallinas G**, Sczzocchio C. 2009. Convergent evolution and orphan genes in the Fur4p-like family and characterisation of a general nucleoside transporter in *Aspergillus nidulans*. *Mol Microbiol*. 73:43-57.
46. Vangelatos I, Vlachakis D, Sophianopoulou V, Diallinas G. 2009. Modelling and mutational evidence identify the substrate binding site and functional elements in APC amino acid transporters. *Mol Membr Biol* 26:356-370.
47. 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
48. Conde A, **Diallinas G**, Chaumont F, Chaves M, Gerós H. 2010. Transporters, channels, or simple diffusion? Dogmas, atypical roles and complexity in transport systems. *Int J Biochem Cell Biol*. 42(6):857-68.
49. Leung J, Karachaliou M, Alves C, **Diallinas G** and Byrne, B. 2010. Expression and purification of a functional uric acid-xanthine transporter (UapA) *Protein Expr Purif*. 72(1):139-46.
50. 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.
51. Elsen S, Efthymiou G, Peteinatos P, **Diallinas G**, Kyritsis P, Moulis JM. 2010. A bacteria-specific [2[4Fe-4S] ferredoxin is essential in *Pseudomonas aeruginosa*. *BMC Microbiol*. 10:271
52. Bitsikas V, Karachaliou M, Gournas C, **Diallinas G**. 2011. Hypertonic conditions trigger transient plasmolysis, growth arrest and blockage of transporter endocytosis in *Aspergillus nidulans* and *Saccharomyces cerevisiae*. *Mol Membr Biol*. 28(1):54-68.
53. Anasontzis GE, Zerva A, Stathopoulou PM, Haralampidis K, **Diallinas G**, Karagouni AD, Hatzinikolaou DG. 2011. Homologous overexpression of xylanase in *Fusarium oxysporum* increases ethanol productivity during consolidated bioprocessing (CBP) of lignocellulosics. *J Biotechnol*. 152(1-2):16-23
54. Gournas C, Oestreicher N, Amillis S, **Diallinas G**, Sczzocchio C. 2011. Completing the purine utilisation pathway of *Aspergillus nidulans*. *Fungal Genet Biol*. 48:840-8
55. Soares-Silva I, Sá-Pessoa J, Myriantopoulos V, Mikros E, Casal M, **Diallinas G**. 2011. A substrate translocation trajectory in a cytoplasm-facing topological model of the monocarboxylate/H⁺ symporter Jen1p. *Mol Microbiol*. 81(3):805-17
56. Amillis S, Kosti V, Pantazopoulou A, Mikros E, **Diallinas G**. 2011. Mutational analysis and modeling reveal functionally critical residues in transmembrane segments 1 and 3 of the UapA transporter. *J Mol Biol*. 411(3):567-80
57. Takeshita N, **Diallinas G**, Fischer R. 2012. The role of flotillin FloA and stomatin StoA in the maintenance of apical sterol-rich membrane domains and polarity in the filamentous fungus *Aspergillus nidulans*. *Mol Microbiol*. 83(6):1136-52.
58. Leung J, Cameron AD, **Diallinas G**, Byrne B. 2012. Stabilizing the heterologously expressed uric acid-xanthine transporter UapA from the lower eukaryote *Aspergillus nidulans*. *Mol Membr Biol*. 30(1):32-42.
59. Kosti V, Lamprinidis G, Myriantopoulos V, **Diallinas G**, Mikros E. 2012. Identification of a substrate recognition and transport pathway in a Eukaryotic Member of the Nucleobase-Ascorbate Transporter (NAT) Family. *PLoS One*. 7(7):e41939.

60. Kryptou E, Kosti V, Amillis S, Myriantopoulos V, Mikros E, **Diallinas G**. 2012. Modeling, Substrate Docking and Mutational Analysis Identify Residues essential for the function and specificity of a Eukaryotic Purine-Cytosine NCS1 Transporter. **J Biol Chem**. 287(44):36792-803.
61. 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
62. **Diallinas, G**. 2013. Allopurinol and xanthine use different translocation mechanisms and trajectories in the fungal UapA transporter. *Biochimie* 2013, Sep;95(9):1755-64
63. Kryptou E, **Diallinas G**. 2014. Transport assays in filamentous fungi: Kinetic characterization of the UapC purine transporter of *Aspergillus nidulans*. *Fungal Genet Biol*. Feb;63:1-8. doi: 10.1016/j.fgb.2013.12.004.
64. Kryptou E, Lambrinidis G, Evangelidis T, Mikros E, **Diallinas G**. 2014. Modelling, substrate docking and mutational analysis identify residues essential for function and specificity of the major fungal purine transporter AzgA. *Mol Microbiol Jul*; 93(1):129-45.
65. Galanopoulou K, Scazzocchio C, Galinou M, Borbolis F, Karachaliou M, Liu W, Oestreicher N, Hatzinikolaou D, **Diallinas G**, Amillis S. 2014. Purine utilization proteins in the Eurotiales: Cellular compartmentalization, phylogenetic conservation and divergence. *Fungal Genet Biol*. Aug; 69:96-108.
66. **Diallinas, G**. 2014. Understanding transporter specificity and the discrete appearance of channel-like gating domains in transporters. *Front. Pharmacol*. 5:207. doi: 10.3389/fphar.2014.00207

PUBLICATIONS IN BOOKS-VOLUMES

67. B. Felenbok, V. Sophianopoulou, M. Mathieu, D. Sequeval, P. Kulmburg, **G. Diallinas** and C. Scazzocchio, 1989. Regulation of genes involved in the utilisation of carbon sources in *Aspergillus nidulans*. Proceedings of the EMBO-Alko Workshop on Molecular Biology of Filamentous Fungi, Helsinki 1989, ed. by Nevalainen and Pentilla. Foundation for Biotechnical and Industrial Fermentation Research, 6: 73-83.
68. **Diallinas, G**. Molecular Modeling of the Interactions of a Purine Transporter with Different Substrate Analogues: A first Step towards the Systematic Development of Antifungal Drugs. 2004 *Review of Clinical Pharmacology and Pharmacokinetics, International Edition* 18 (1), pp. 59.
69. Tavoularis, S.N., Tazebay, U., **Diallinas, G.**, Scazzocchio, C., Sophianopoulou, V. Preliminary studies on structure-function analysis of a major proline transporter (PRNB) of the filamentous fungus *Aspergillus nidulans*. 1997 *Amino Acids* 13 (1), pp. 31.
70. **G. Diallinas** and A.K. Kanellis, 1995, Developmental and ripening regulation of gene expression of phenylpropanoid biosynthetic enzymes in melon fruit. Post-harvest physiology, pathology and technologies for horticultural commodities: Recent Advances, 353-360, eds A.Ait-Oubahou and El-Otmani.
71. **G. Diallinas**. 2007. *Aspergillus* transporters. In "*The Aspergilli: Genomics, Medicine, Biotechnology and Research Methods*", eds. G. Goldman and S. Osmani, CRC press.