

## I. General information

Name	<b>George</b>
Surname	<b>Diallinas</b>
Place and date of birth	Heraklion, August 21, 1961
Residence	Iridanou 16, 11528, Athens, Greece
Contact info	<a href="mailto:diallina@biol.uoa.gr">diallina@biol.uoa.gr</a> , +302107274649
Institution	Department of Biology, National and Kapodistrian University of Athens, Panepistimioupolis 15784 Athens, Greece.
Education	<b>BSc</b> Cell Biology, Essex University, UK31, July 1984, <b>DEA</b> Microbiology, University Paris-Sud (XI), Orsay, Paris France, 21 September 1985, <b>PhD</b> Molecular Genetics, University Paris-Sud (XI), Paris France, 21 April 1989
Work experience-current position	<b>Molecular Microbiology, Fungal Genetics and Cell Biology</b> <b>Professor</b> at Department of Biology, National and Kapodistrian University of Athens, Greece & <b>Affiliated Researcher</b> at the Institute of Molecular Biology and Biotechnology (IMBB), Heraklion, Crete, Greece
Membership of scientific organizations:	<b>EMBO, Society of Mikrobiokosmos</b>

## II. Research and development activities

**119 Publications** (peer reviewed): <https://pubmed.ncbi.nlm.nih.gov/?term=diallinas+g&sort=date>

*h*-index (Google scholar): 47

ORCID # : 0000-0002-3426-726X ·

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

### List of selected publications (last 6 years)

1. Sagia GM, Georgiou X, Chamilos G, Diallinas G, Dimou S. Distinct trafficking routes of polarized and non-polarized membrane cargoes in *Aspergillus nidulans*. bioRxiv 2024.04.24.590866; doi: <https://doi.org/10.1101/2024.04.24.590866> and eLIFE (accepted).
2. Broutzakakis G, Pyrris Y, Akrani I, Neuhaus A, Mikros E, Diallinas G, Gatsogiannis C. High-resolution structures of the UapA purine transporter reveal unprecedented aspects of the elevator-type transport mechanism. bioRxiv [Preprint]. 2024 Aug 24:2024.08.23.609436. doi: 10.1101/2024.08.23.609436.
3. Zantza I, Pyrris Y, Raniolo S, Papadaki GF, Lambrinidis G, Limongelli V, Diallinas G, Mikros E. Uracil/H<sup>+</sup> Symport by FurE Refines Aspects of the Rocking-bundle Mechanism of APC-type Transporters. J Mol Biol. 2023 Oct 1;435(19):168226. doi: 10.1016/j.jmb.2023.168226.
4. Dimakis D, Pyrris Y, Diallinas G. Transmembrane helices 5 and 12 control transport dynamics, substrate affinity, and specificity in the elevator-type UapA transporter. Genetics. 2022 Aug 30;222(1):iyac107. doi:10.1093/genetics/iyac107.
5. Dimou S, Dionysopoulou M, Sagia GM, Diallinas G. Golgi-Bypass Is a Major Unconventional Route for Translocation to the Plasma Membrane of Non-Apical Membrane Cargoes in *Aspergillus nidulans*. Front Cell Dev Biol. 2022 Apr 7;10:852028. doi: 10.3389/fcell.2022.852028.
6. Barata-Antunes C, Talaia G, Broutzakakis G, Ribas D, De Beule P, Casal M, Stefan CJ, Diallinas G, Paiva S. Interactions of cytosolic tails in the Jen1 carboxylate transporter are critical for trafficking and transport activity. J Cell Sci. 2022 May 15;135(10):jcs260059. doi: 10.1242/jcs.260059.
7. Diallinas G. Transporter Specificity: A Tale of Loosened Elevator-Sliding. Trends Biochem Sci. 2021 Sep;46(9):708-717. doi: 10.1016/j.tibs.2021.03.007.
8. Kourkoulou A, Zantza I, Foti K, Mikros E, Diallinas G. Context-dependent Cryptic Roles of Specific Residues in Substrate Selectivity of the UapA Purine transporter. J Mol Biol. 2021 Aug 6;433(16):166814. doi: 10.1016/j.jmb.2021.166814.

9. Dimou S, Martzoukou O, Dionysopoulou M, Bouris V, Amillis S, Diallinas G. Translocation of nutrient transporters to cell membrane via Golgi bypass in *Aspergillus nidulans*. *EMBO Rep.* 2020 Jul 3;21(7):e49929. doi: 10.15252/embr.201949929. Epub 2020 May 26.
10. Kourkoulou A, Grevias P, Lambrinidis G, Pyle E, Dionysopoulou M, Politis A, Mikros E, Byrne B, Diallinas G. Specific Residues in a Purine Transporter Are Critical for Dimerization, ER Exit, and Function. *Genetics.* 2019, Dec;213(4):1357-1372. doi: 10.1534/genetics.119.302566.
11. Diallinas G, Martzoukou O. Transporter membrane traffic and function: lessons from a mould. *FEBS J.* 2019 Dec;286(24):4861-4875. doi: 10.1111/febs.15078.
12. Papadaki GF, Lambrinidis G, Zamanos A, Mikros E, Diallinas G. Cytosolic N- and C-Termini of the *Aspergillus nidulans* FurE Transporter Contain Distinct Elements that Regulate by Long-Range Effects Function and Specificity. *J Mol Biol.* 2019 Sep 6;431(19):3827-3844. doi: 10.1016/j.jmb.2019.07.013.
13. Mikros E, Diallinas G. Tales of tails in transporters. *Open Biol.* 2019 Jun 28;9(6):190083. doi: 10.1098/rsob.190083.
14. Martzoukou O, Diallinas G, Amillis S. Secretory Vesicle Polar Sorting, Endosome Recycling and Cytoskeleton Organization Require the AP-1 Complex in *Aspergillus nidulans*. *Genetics.* 2018 Aug;209(4):1121-1138. doi: 10.1534/genetics.118.301240.
15. Kourkoulou A, Pittis AA, Diallinas G. Evolution of substrate specificity in the Nucleobase-Ascorbate Transporter (NAT) protein family. *Microb Cell.* 2018 Mar 22;5(6):280-292. doi: 10.15698/mic2018.06.636.
16. Pyle E, Kalli AC, Amillis S, Hall Z, Lau AM, Hanyaloglu AC, Diallinas G, Byrne B, Politis A. Structural Lipids Enable the Formation of Functional Oligomers of the Eukaryotic Purine Symporter UapA. *Cell Chem Biol.* 2018 Jul 19;25(7):840-848.e4. doi: 10.1016/j.chembiol.2018.03.011.
17. Pyrris Y, Papadaki GF, Mikros E, Diallinas G. The last two transmembrane helices in the APC-type FurE transporter act as an intramolecular chaperone essential for concentrative ER-exit. *Microb Cell.* 2024 Jan 5;11:1-15. doi: 10.15698/mic2024.01.811. PMID: 38225947; PMCID: PMC10788122.

#### **List of international meetings with active participation & Invited presentations (last 10 years)**

1. 1st Proteostasis Meeting, Cost proteostasis action bm1307, Valencia, Spain, 2014
2. 4th International Workshop on Expression, Structure and Function of Membrane Protein, Florence, Italy, September 2014
3. 13th European Fungal Genetics Conference, Paris, France, 4-6 April, 2016
4. Unconventional Protein and Membrane Traffic, October 2016 Lecce, Italy
5. Special Molecular Genetics course on Transporters, BOKU University Vienna, Austria (Erasmus), June 2017
6. 14th European Fungal Genetics Conference, Haifa, Israel, April, 2018
7. 1st Small Meeting on Endocytic Trafficking and Signaling, July 2018, Braga, Portugal
8. EMBO new members meeting, October 2108, Heidelberg, Germany.
9. Instituto Gulbenkian (IGC), June 2019, Lisbon, Portugal
10. Department of Molecular Biosciences, The Wenner-Gren Institute, Stockholm University, July 2019, Sweden
11. EMBO workshop on *Molecular mechanisms of unconventional protein secretion in eukaryotic cells*, September 2019, Assisi, Italy
12. 2nd Small Meeting on *Endocytic Trafficking and Signaling*, July 2020. Braga, Portugal
13. EMBO Workshop on *Membrane transporters as essential elements of cellular function and homeostasis*, August 2022, Chania, Greece
14. EMBO Workshop on *The endoplasmic reticulum*, October 2022, Lucca, Italy.
15. Plenary lecture in 16th European Conference on Fungal Genetics, March 2023, Innsbruck, Austria.
16. Lecture at the University of Münster, June 2023, Münster, Germany.
17. Lecture at Imperial College, December 2023, London, UK.
18. EMBO lecture series and EMBO May 2024, Rome & Parma, Italy.
19. EMBO keynote speaker at SMYTE 2024, August 2024, York, UK.
20. Lecture in University of Manchester, September 2024, Manchester, UK.
21. Keynote speaker, Molecular Biology of Fungi, September 2024, Kiel, Germany.

### Prizes/ Awards/Boards

- Archimedes E.U. Award ([www.cordis.lu/improving/awards/home.htm](http://www.cordis.lu/improving/awards/home.htm)), 2002
- John S. Latsis Public Benefit Foundation Research Award, 2012
- Fondation Santé Research Award, 2014-16, 2018-20
- Elected EMBO member
- EMBO short term fellowship
- Advisory Board of the Hellenic Institut Pasteur, 2016
- Scientific Board of the European University of Cyprus, 2016

### Sabbaticals

- February 2005-April 2005 (3 months), Genetics & Developmental Biology lab, Prof. C. Delidakis, IMBB, ITE, Heraklio, Crete, Greece
- September 2009-March 2010 (6 months), Faculdade de Biologia, Universidade do Minho, Braga, Portugal, Yeast Genetics and Biotechnology lab, Prof. M. Casal
- November 2018-February 2019 (3 months), Department of Life Sciences, Università di Parma, lab of Prof. R. Percudani (*EMBO short term fellowship*)

### III. Experience in science management and administration

#### Organisation of International Conferences

1. President of the organizing and scientific committee, 19th Small Meeting on Yeast Transport and Energetics, Chania, Greece, September 2001
2. Member of the organizing and scientific committee of the 62th Scientific Conference of the Hellenic Society of Biochemistry & Molecular Biology, December 2013
3. President of the organizing and scientific committee, 34th Small Meeting on Yeast Transport and Energetics, Chania, Greece, September 2016.
4. President of organizing/scientific committee of the EMBO workshop Transporters: from folding and subcellular traffic to structure, function and evolution, Chania, Greece, September 2022
5. President of organizing/scientific committee of the International Fungal Biology Conference: from Molecules to Communities IFBC-2025, September 27-30, 2025, Chania, Greece

#### Other

- **Teaching** of 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), Biochemical Society-FEBS, Hellenic Scientific Societies EEMBB, PEB & EEBE.
- **Visiting Professor** in the University of Minho, Braga, Portugal.
- **Administrative Duties** - Advisory Board: Biological Sciences program at European University of Cyprus (2015-). Directors Board: The Hellenic Pasteur Institute (2015-2020).
- **Responsible for Erasmus exchanges** with > 10 European Universities.
- **Supervision of Research Students:** 28 PhDs for University of Athens (23 completed, 5 ongoing) Supervision of 14 MSc and 72 Diploma (B.Sc) theses.
- **Editorial Board** of *Molecular Membrane Biology*.
- **Reviewer** for several scientific journals including *Science*, *Nature Communications*, *The EMBO Journal*, *eLIFE*, *FEBS J*, *Molecular Microbiology*, *Journal of Microbiology*, *Biochemical Society Transactions*, *Frontiers in Pharmacology*, *Plant Physiology*, *J. Mol. Biology*, etc.