



Dia Galanopoulou

Associate Professor of Biochemistry



Education

B.Sc. in Chemistry, University of Athens (1971),
Ph.D. in Chemistry (Biochemistry), University of Athens (1976),
Post Doctoral studies at the University of London (1980-81) and at the North Carolina State University, USA



Research Fields of Interest

1. Biochemistry of protozoa
2. Biochemistry and analysis of phosphoinositides, phosphoinositide involvement in cell signalling and membrane trafficking
3. Lipid signalling in plants
4. Teaching of Biochemistry in Secondary Education



Teaching

Undergraduate:

General Biochemistry, Information Pathways, Biochemistry Laboratory

Graduate:

Topics in Molecular Biology, Advanced Biochemistry: Biochemistry of Lipids, Biochemistry for the students of the Chemical Education Graduate Programme



Book Authorship

1. Special Topics in Food Chemistry (1984, in Greek, 7 co-authors)
2. Topics in Nutrition and Food Chemistry (1990, in Greek, 3 co-authors)
3. Topics in Biochemistry (for the students of the Chemical Education Graduate Programme, 1999, in Greek)
4. Biochemistry Experiments (2001, in Greek, 4 co-authors)
5. Structure and Function of Biological Membranes. Membrane Transport (2006, in Greek)
6. Nutrition and Food Chemistry (2007, in Greek, 4 co-authors, 2nd ed. 2011)
7. Biological Membranes: From Structure to Function. Theory and Experimental Approaches (Kallipos 2015, in Greek, 3 co-authors)



Selected Papers

1. Leondaritis G., Siokos J., Skaripa I., Galanopoulou D. (2013) Genome-wide analysis of the phosphoinositide kinome from two ciliates reveals novel evolutionary links for phosphoinositide kinases in eukaryotic cells. *PLoS One* **11**: e78848
2. Leondaritis G., Sarri T., Dafnis I., Efstathiou A., Galanopoulou D. (2011) Biochemical and genetic evidence for the presence of multiple phosphatidylinositol- and phosphatidylinositol 4,5-bisphosphate-specific phospholipases C in *Tetrahymena*. *Eukaryot. Cell* **10**, 412-422

3. Leondaritis G., Galanopoulou D. (2011) Emerging roles of phosphoinositide-specific phospholipase C in the ciliates *Tetrahymena* and *Paramecium*. *Commun. Integr. Biol.* **4**, 576-578
4. Μαρμαρωτή Π., Γαλανοπούλου Ν. (2011) Ο ρόλος της Χημείας στη διδασκαλία θεμάτων Βιοχημείας στη Δευτεροβάθμια Εκπαίδευση. *Διδακτική Φυσικών Επιστημών και Νέες Τεχνολογίες στην Εκπαίδευση* **7**, 280-287
5. Πετράτου Ε. Κουλουμπαρίση Α., Γαλανοπούλου Ν. (2011) Αξιολόγηση σχολικών βιβλίων Βιολογίας: Η φωτοσύνθεση στο σχολικό βιβλίο της Β' Λυκείου. *Διδακτική Φυσικών Επιστημών και Νέες Τεχνολογίες στην Εκπαίδευση* **7**, 762-770
6. Spyridakis S., Leondaritis G., Nakos G., Lekka M. E., Galanopoulou D. (2010) A specific PLC activity regulates phosphatidylinositol levels in lung surfactant of ARDS patients. *Am. J. Respir. Cell Mol. Biol.* **42**, 357-362
7. Kargiotidou A., Kappas I., Tsaftaris A., Galanopoulou D., Farmaki T. (2010) Cold acclimation and low temperature resistance in cotton: *Gossypium hirsutum* phospholipase Dalpha isoforms are differentially regulated by temperature and light. *J. Exp. Bot.* **61**, 2991-3002
8. Meimaroglou D. M., Galanopoulou D., Markaki P. (2009) Study of the effect of methyl jasmonate concentration on aflatoxin B₁ biosynthesis by *Aspergillus paraciticus* in Yeast Extract Sucrose medium. *Int. J. Microbiol.* 2009:842626
9. Deli D., Leondaritis G., Tiedtke A., Galanopoulou D. (2008) Deficiency in lysosomal enzyme secretion is associated with upregulation of phosphatidylinositol 4-phosphate in *Tetrahymena*. *J. Eukaryot. Microbiol.* **55**, 343-350
10. Komis G., Galatis B., Quader H., Galanopoulou D., Apostolakos P. (2008) Phospholipase C signaling involvement in macrotubule assembly and activation of the mechanism regulating protoplast volume in plasmolyzed root cells of *Triticum turgidum*. *New Phytol.* **178**, 267-282
11. Kargiotidou A., Deli D., Galanopoulou D., Tsaftaris A., Farmaki T. (2008) Low temperature and light regulate delta12 fatty acid desaturases (FAD2) at a transcriptional level in cotton (*Gossypium hirsutum*). *J. Exp. Bot.* **59**, 2043-2056
12. Gountopoulou A., Leondaritis G., Galanopoulou D., Mavri-Vavayanni M. (2008) TNF α is a potent inducer of Platelet-Activating Factor in adipocytes but not in preadipocytes. Differential regulation by PI3K. *Cytokine* **41**, 174-181
13. Μαρμαρωτή Π., Γαλανοπούλου Ν. (2007) Η διδασκαλία θεμάτων Βιοχημείας στη Δευτεροβάθμια Εκπαίδευση: σχεδιασμός ερωτηματολογίου για τον έλεγχο της κατανόησης του μεταβολισμού. *Διδακτική Φυσικών Επιστημών και Νέες Τεχνολογίες στην Εκπαίδευση* **5**, 775-783
14. Marmaroti P., Galanopoulou D. (2006) Pupils' understanding of photosynthesis. A questionnaire for the simultaneous assessment of all aspects. *International Journal of Science Education* **28**, 383-403
15. Leondaritis G., Tiedtke A., Galanopoulou D. (2005) D-3 phosphoinositides of the ciliate *Tetrahymena*: characterization and study of their regulatory role in lysosomal enzyme secretion. *Biochim. Biophys. Acta-Mol. Cell Res.* **1745**, 330-341
16. Perera I. Y., Davis A. J., Galanopoulou D., Im Y. J., Boss W. F. (2005) Characterization and comparative analysis of *Arabidopsis* phosphatidylinositol phosphate 5-kinase 10 reveals differences in *Arabidopsis* and human phosphoinositide kinases. *FEBS Lett.* **579**, 3427-3432



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