



# 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 Field 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)

## Selected Papers

1. Leondaritis G., Sarri T., Dafnis I., Efstathiou A., Galanopoulou D. (2010) Biochemical and genetic evidence for the presence of multiple phosphatidylinositol- and phosphatidylinositol 4,5-bisphosphate-specific phospholipases C in *Tetrahymena*. *Eukaryot. Cell* doi:10.1128/EC.00272-10
2. 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
3. Kargiotidou A., Kappas I., Tsaftaris A., Galanopoulou D., Farmaki T. (2010) Cold acclimation and low temperature resistance in cotton: *Gossypium hirsutum* phospholipase Da isoforms are differentially regulated by temperature and light. *J. Exp. Bot.* **61**, 2991-3002
4. 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
5. Komis G., Galatis B., Quader H., Galanopoulou D., Apostolakos P. (2008) Phospholipase C signaling involvement in macro tubule assembly and activation of the mechanism regulating protoplast volume in plasmolyzed root cells of *Triticum turgidum*. *New Phytol.* **178**, 267-282
6. 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
7. Gountopoulou A., Leondaritis G., Galanopoulou D., Mavri-Vavayanni M. (2008) TNF $\alpha$  is a potent inducer of Platelet-Activating Factor in adipocytes but not in preadipocytes. Differential regulation by PI3K. *Cytokine* **41**, 174-181
8. 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
9. 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
10. 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

## Contact

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