

Ντία Γαλανοπούλου



Dia Galanopoulou

Professor Biochemistry

National and Kapodistrian University of Athens
Department of Chemistry
Zografou 157 84, Greece

Email: galanopoulou [at] chem.uoa.gr

Education: B.Sc. in Chemistry, NKUA (1971), Ph.D. in Chemistry (Biochemistry), NKUA (1976)

Postdoctoral studies / collaborations: **1.** Department of Chemistry, NKUA (1976-77) **2.** Biochemistry Department, Chelsea College, University of London (Visiting Research Associate, 1980-81) **3.** Department of Plant and Microbial Biology, North Carolina State University, USA (Visiting Scientist: 1994, 1995, 1998 and 2002) **4.** Institute for General Zoology and Genetics, University of Münster, Germany (2004)

Research fields of Interest: **1.** Biochemistry of protozoa **2.** Biochemistry and analysis of phosphoinositides, phosphoinositide involvement in cell signaling and membrane trafficking **3.** Lipid signaling in plants **4.** Teaching of Biochemistry

TEACHING

Undergraduate:

- Biochemistry, Dept. of Chemistry NKUA (man.)
- Advanced Biochemistry / Biochemistry laboratory, Dept. of Chemistry NKUA (opt.)
- Biochemistry: Biochemistry of Lipids and Biological Membranes, Dept. of Medicine, **University of Crete** (man.)
- Food Chemistry laboratory, Dept. of Chemistry NKUA (man.)
- Advanced Food Chemistry, Dept. of Chemistry NKUA (man.)

- Food Chemistry and Food Chemistry laboratory, **Dept. of Biology** NKUA (opt.)
- Nutrition and Food Chemistry, **Dept. of Pharmacy** NKUA (opt.)

(man.=mandatory, opt.=optional)

Graduate:

- Biochemistry: Biochemistry of lipids, **MSc in Biochemistry**, Dept. of Chemistry NKUA
- Molecular Biology, **MSc in Biochemistry**, Dept. of Chemistry NKUA
- Molecular Biology, **MSc in Clinical Chemistry**, Dept. of Chemistry NKUA
- 1. Special Topics and Experiments in Organic Chemistry and Biochemistry: Biochemistry, 2. Experiments in the teaching of Chemistry: DNA and protein electrophoresis, **MSc in Chemical Education**, Dept. of Chemistry NKUA
- Biology, Theory and Practice: Metabolism, **MSc in Biological Education, Dept. of Biology** NKUA

Book Authorship:

- Nutrition and Food Chemistry (in Greek, 4 co-authors) Stamoulis Editions, 2011
- Biological Membranes: Structure and Function (including an extended experimental part, in Greek, 4 co-authors) Kallipos, 2015
- Several academic publications on Teaching of Biochemistry, Biological Membranes, Biochemistry Laboratory, Advanced Food Chemistry, plant food (1982-2015)

Selected publications:

1. **Galanopoulou D.**, Williams W. P., Quinn P. J. (**1982**) Structural studies of plant lipid dispersions subjected to oxidation in the presence of decomposing peroxychromate. *Biochim. Biophys. Acta-Mol. Cell Biol. L.* 713, 315-322
2. 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
3. Leondaritis G., **Galanopoulou D.** (**2000**) Characterization of inositol phospholipids and identification of a mastoparan-induced phosphoinositide response in the ciliated protozoan *Tetrahymena pyriformis*. *Lipids* 35, 525-532
4. 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

5. Leondaritis G., Siokos I., Skapipa I., **Galanopoulou D. (2013)** Genome-wide analysis in the phosphoinositide kinome from two ciliates reveals novel evolutionary links for phosphoinositide kinases in eukaryotic cells. *PLoS One* 11: e78848
6. Leondaritis G., **Galanopoulou D. (2011)** Emerging roles of phosphoinositide-specific phospholipase C in the ciliates *Tetrahymena* and *Paramecium*. *Commun. Integr. Biol.* 4, 576-578
7. Bourtsala A., **Galanopoulou D. (2019)** Phospholipases, in *Encyclopedia of Food Chemistry*, Elsevier, pp. 277-286. doi: 10.1016/B978-0-08-100596-5.21651-X
8. Bourtsala A., Dafnis I., Chroni A., Farmaki T., **Galanopoulou D. (2018)** Study of the involvement of phosphatidic acid formation in the expression of wound-responsive genes in cotton. *Lipids* 53, 589-599
9. 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
10. Bakali C.-Z., Mavrikaki E., **Galanopoulou D. (2024)** Exploring Greek students' ideas on natural products. *J. Chem. Educ.* 101, 4671-4679

Galanopoulou D., Demopoulos C. A., Mavri-Vavayanni M., Siafaka-Kapadai A., Kapoulas V. M. (2011) [Tetrahymena in the classroom: teaching Biochemistry in a Chemistry Department](#). Presentation of a laboratory project in the *FASEB Summer Research Conference: Ciliate Molecular Biology*, Chania, Greece.