

Galanopoulou Dia



Professor

LAB OF BIOCHEMISTRY, DEPARTMENT OF CHEMISTRY, NATIONAL AND
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EDUCATION

Bachelor (ptychion) in Chemistry, NKUA (1971)

Ph.D. in Chemistry, NKUA (1976). Title: "Study of glyceryl ether biosynthesis in the protozoan *Tetrahymena pyriformis*"

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

- Biochemistry of protozoa
- Biochemistry and analysis of phosphoinositides, phosphoinositide involvement in cell signaling and membrane traffic
- Lipid signaling in plants
- **Teaching of Biochemistry**

EDUCATIONAL EXPERIENCE

UNDERGRADUATE COURSES

- 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)

- 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
- Special Topics and Experiments in Organic Chemistry and Biochemistry: Biochemistry, **MSc in Chemical Education**, Dept. of Chemistry NKUA
- 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

DISCRIMINATIONS / SCHOLARSHIPS

Ministry of Education / DAAD for the collaboration with University of Münster

RESEARCH GRANTS

- **ΠENEΔ (GSRT) 2001** (University of Ioannina)
- **ΠENEΔ (GSRT) 2003** (University of Ioannina)
- **ΠENEΔ (GSRT) 2003** (NKUA)
- **HERAKLEITOS 2003** (P.I.: D. Galanopoulou, NKUA)
- **THALIS 2012** (University of Thessaloniki, AUTH)
- **ELKE and KAPODISTRIAS 1996-2015** (P.I.: D. Galanopoulou, NKUA)
- 2012-2015: Participation in the Management Committee of **COST BM1102** "Ciliates as model systems to study genome evolution, mechanisms of non-Mendelian inheritance, and their roles in environmental adaptation"

REVIEWER OF SCIENTIFIC JOURNALS

The most important: **Lipids, Bio Essays, Journal of Eukaryotic Microbiology, Chemistry Education Research and Practice**

EDITOR OF BOOKS AND SPECIAL VOLUMES

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

PATENTS

ADDITIONAL INFORMATION

- More than **90 presentations** at national and international conferences and seminars
- Supervision of **doctoral theses: 17**, some of them in collaboration with Research Institutes
- Supervision of **graduate students: 40**, some of which in the field of Chemical Education
- Supervision of **undergraduate students: 18 projects / 31 students**

- **Reviewer** in Research Programs: University of Ioannina, GSRT, Herakleitos, IKYDA, ΕΛΙΔΕΚ (elidek.gr, in the field of Social Sciences and Education)

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. 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
3. 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
4. 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
5. Μαρμαρωτή Π., **Γαλανοπούλου Ν.** (2011, in Greek) Ο ρόλος της Χημείας στη διδασκαλία θεμάτων Βιοχημείας στη Δευτεροβάθμια Εκπαίδευση. *Διδακτική Φυσικών Επιστημών και Νέες Τεχνολογίες στην Εκπαίδευση* **7**, 280-287
6. Leondaritis G., Siokos I., Skaripa 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
7. Πετράτου Ε., **Γαλανοπούλου Ν.**, Κουλουμπαρίτση Α. Χ. (2015, in Greek) Προδιαγραφές για την αξιολόγηση των σχολικών βιβλίων Βιολογίας: Παραδείγματα από τη διδασκαλία της Φωτοσύνθεσης, στο *Κουλουμπαρίτση Α. Χ. «Το Σχολικό Βιβλίο: Σχεδιασμός-Διδασκαλία-Αξιολόγηση»*, Εκδόσεις Γρηγόρη, Αθήνα, σελ. 276-298
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. Bakali C.-Z., **Galanopoulou D.**, Mavrikaki E. (under review) Exploring greek Chemistry and Primary Education first-year students' knowledge and ideas on Natural Products
10. Στεφάνου Χ., Μαυρικάκη Ε., **Γαλανοπούλου Ν.** (in preparation) Τα γενετικά τεστ: ένα κοινωνικο-επιστημονικό ζήτημα για τη διδασκαλία βασικών αρχών της Γενετικής