

CURRICULUM VITAE
LUKAS H. MARGARITIS



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FIRST NAME: LUKAS

TITLE: Professor Emeritus of Cell Biology, Radiobiology and Electron Microscopy

PLACE OF BIRTH: Nea Erythraia, Athens, Greece.

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PRESENT POSITION: Professor Emeritus (as of Sept 2010), Dept of Cell Biology and Biophysics, Faculty of Biology, Athens University. Group Leader of the Electromagnetic Biology Team, Faculty of Biology, Athens University.
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EDUCATION - ACADEMIC ACTIVITIES

1964 - 1972: Undergraduate studies in Physics and Biology, Athens University, School of Sciences.

1966: Training in the Biological applications of the transmission electron microscope (Netherlands, Eindhoven-Philips Laboratories and Rijksuniversiteit Leiden-Laboratorium voor elektronenmicroscopie under the supervision of Professor Th. Daems and Dr. E. Wisse).

1969: Training on freeze-fracturing (Balzers, Liechtenstein) and on Zeiss photomicroscope (Oberkochen, Germany)

1973: Training on biochemical techniques in Johns Hopkins University (Baltimore, with Professor E.N. Moudrianakis) and on Scanning Electron microscopy in the Biological Laboratories, Harvard University (Cambridge, Mass, USA).

1974: Ph.D.Thesis (Athens University, Dept. of Biology, under the supervision of Prof. F.C. Kafatos). Title: "Programmed protein synthesis of specific proteins in cellular differentiation. A contribution to the study of chorion formation in the follicles of *Drosophila melanogaster*".

1974-1976: Post-doctoral researcher and teaching assistant of Cell Biology in the Biological Laboratories, Harvard University (Prof. Daniel Branton).

- 1975:** Lecturer in the Laboratory of Biology, Athens University.
- 1977:** Scholarship from the National Institutes of Health (NIH-USA) for training on the high voltage E.M. at the University of Colorado (Prof. Keith Porter).
- 1982:** Priv. Doz., Athens University. Title "Choriogenesis in *Drosophila melanogaster*: A model system for the study of cellular differentiation"
- 1983:** Assistant Professor of Cell Biology and Electron Microscopy at the Dept. of Biology, Athens University.
- 1984:** Publication of the textbook "Cell Biology, 1st edition" in Greek for the students of the Biological Sciences.
- 1986-1988:** Senate of Athens University council
- 1987:** Publication of the Textbook "Radiobiology: Radiation and Life" in Greek for the course "Biophysics".
- 1987:** Elected Associate Professor of Cell Biology, Faculty of Biology Athens University.
- 1987-1988:** Chairman, Dept. of Biochemistry, Cell-Molecular Biology and Genetics, Athens University.
- 1989-1991:** Chairman, Faculty of Biology, Athens University.
- 1989:** 3rd Edition and updating of the Textbook "Cell Biology" (21 chapters in 654 pages).
- 1991:** Nomination as Greek representative of the E.E.C. programs in Biotechnology (Brussels).
- 1991:** Full Professor of Cell Biology and Electron Microscopy, Faculty of Biology, Athens University
- 1992-1993:** Chairman, Dept. of Biochemistry, Cell-Molecular Biology and Genetics, Athens University.
- 1995-1997:** Chairman, Dept. of Biology, University of Athens
- 1989-2001:** Coordinator ERASMUS program with 33 European Universities
- 1998-2010:** Director, Master's programme "MEDICAL BIOLOGY", by the Dept. of Biology and the Medical School.
- 1998-2010:** Chairman, Dept. of Cell Biology and Biophysics (annual re-election).
- 2000-present:** Annual research grants by the "Research Account" of Athens University on "EMF effects on insects and mice"
- 2003-2006:** HRAKLEITOS postgraduate research program (Ph.D. student A. Velentzas) on "apoptotic mechanisms during oogenesis in the medfly *Ceratitis capitata*."
- 2004-2006:** PYTHAGORAS I postdoctoral research program (postoc Dr. Ourania Konstandi) on "environmental factors affecting aging"
- 2004:** 4th Edition and updating of the Textbook "Cell Biology" (996 pages, including 150 stereo images). co-authors, V. Galanopoulos, C. Keramaris, E. Marinos, I. Papisideri, I.P. Trougkos, D. Stravopodis.
- 2005-2006:** PYTHAGORAS II postdoctoral research program (postoc Dr. Ioannis Nezis) on "cell biological studies of apoptosis during oogenesis in Diptera".
- 2008:** Organizer of the 1st Hellenic Congress on the effects of electromagnetic radiation with international participation, Thessaloniki, Greece.
- http://multimedia.biol.uoa.gr/Synedrio_Thess/ProgrENG.htm

2009: Invited speaker, Electromagnetic fields and health. Stavanger, Norway, 14-21 Nov. "Effects of EMF on Memory Function". <http://emf2009.no/index.php/1293327>

2010: Invited speaker, 11th FELASA and 40th Scand-LAS Joint Meeting. New Paradigms in Laboratory Animal Science. "The application of the 3R's concept in EMF radiation research". Marina Congress Center, Helsinki, Finland, 14-17 June 2010. Proceedings, page 77.

2011: Invited speaker, 5th International Conference on Oxidative Stress in Skin Medicine and Biology. Electromagnetic radiation-induced oxidative stress. Oral presentation. Andros, Greece, 1-4 September, 2011. Proceedings, page 97.

2012: Invited speaker, 34th Scientific Conference of the Hellenic Society for Biological Sciences. "Radio-proteomics: The new era in electromagnetic biology. Trikala, Greece, 16-18 May 2012.

2014: Invited speaker, 6th International Conference on Oxidative Stress in Skin Medicine and Biology. Aug 28-31. "EMF induced oxidative stress"

2014: Invited speaker, International congress of the European Radiation Research Society, Sept 15-19. "Can low energy gigahertz photons induce biological damage?"

2012-2015: Coordinator and Scientific Leader of the *THALES MIS375784* Research Grant "Biological effects of non-ionizing electromagnetic fields: a multidisciplinary approach".

FOREIGN LANGUAGES: English, French, Italian.

TEACHING ACTIVITIES: Cell Biology, Electron Microscopy, Topics in Cell Biology, Biophysics/ Radiobiology, Image analysis and processing, Computers in Biology. Electromagnetic Biology and Health (MSc Program)

MEDIA ACTIVITIES: Frequent TV/Radio/Newspapers interviews related to EMF effects on health (http://kyttariki.biol.uoa.gr/emr_group.htm)

RESEARCH INTERESTS:

- Cellular / Molecular Biology and Biochemistry during gene expression in a model cell system: Insect Choriogenesis.
- Erythrocyte membrane disorders. Radioactive tracers for pharmaceutical applications.
- Effects of irradiation (lasers, UV) on the structure and function of the cornea.
- Effects of electromagnetic fields deriving from mobile phones, wireless DECT telephones, wi-fi routers, baby monitors, microwave ovens and ELF from power lines on model biological systems including insects (*Drosophila melanogaster*), mice (*Mus musculus*), nematodes (*C. elegans*), lizards (*Podacris*), rabbits and human skin.

- Health risk assessment of the various EMF frequencies (ELF and RF) following precise field measurements in houses and schools.

The on going research of our Electromagnetic Biology Research Group is focused on the effects of various kinds and sources of electromagnetic radiation (mobile phones, blue tooth, wireless DECT, baby monitor, microwave oven, wi-fi, magnetic field, e.t.c.) on the reproduction and oogenesis of the fruit fly *Drosophila melanogaster*. Our recent activities are also focused on the irradiation of the model Rodent *Mus musculus* mouse in order to reveal defects on memory, behaviour, brain proteome, reproduction, apoptosis and other lesions induced by non ionizing radiation. Our recent work involves multidisciplinary approaches engaging the most sophisticated techniques, such as the Morris water Maze behavioural task, object recognition task, proteomics analysis, transcriptomics, ROS assay, immunohistochemistry, confocal laser microscopy and electron microscopy.

Our recent results have been published in peer review journals (see publication list)

Special attention has been given throughout our research protocols to the biological effects of mobile phone radiation (for the first time worldwide using real communication conditions) on model cell systems including oogenesis in Diptera, behaviour and reproduction in rodents. The results have shown a decrease in the reproductive capacity of *Drosophila* and deficits in osteogenesis of newborn mice, as well as memory impairment and brain protein/gene expression changes following mobile phone and wireless DECT radiation and have been published (see publication list).

Current research is focused on the changes of cellular and molecular parameters caused by EMFs on insects of the genus *Drosophila* and on mice *Mus musculus* under a variety of exposure conditions. For this purpose a large number of commercially available EMF – producing devices are being used for the experiments.

The approaches used include:

- Behavioural – memory tasks in mice
- Immunohistochemistry – histology
- Proteomics
- Microarrays
- Lipidomics
- Fluorometry
- Oxidative stress analysis
- Confocal microscopy
- Electron microscopy
- Western blotting

Another issue that concerns us is the electromagnetic radiation emitted by cell phone masts. For this purpose we are performing measurements inside houses and

schools in order to inform the citizens about any excessive radiation levels even if those are within the Greek "safety levels". We strongly believe that a further reduction (below the 30% of the current law) should be decided by the government and on that direction we provide interviews in the media and well documented advice whenever needed.

RESEARCH MONOGRAPHS

I) HANDBOOKS

Radiobiology

Cell Biology

II) CHAPTERS IN BOOKS

- a) **Margaritis LH (1985)**. Structure and Function of the Insect Egg-shell In, Comprehensive Insect Physiology, Biochemistry and Pharmacology. Edited by G.A. Kerkut and L.I. Gilbert, Volume 1, chapter 6, pages 153-230. Pergamon Press.
- b) **Margaritis LH and Mazzini M (1998)**. The structure of the egg, In: Harrison FW and Locke M (Eds.), Microscopic Anatomy of Invertebrates, Wiley-Liss, New York.
- c) Trougakos IP and **Margaritis LH (2008.)** Novel Morphological and Physiological Aspects of Insect Eggs, In, [Chemoecology of Insect Eggs and Egg Deposition](#), Chapter 1.(?) Monika Hilker , Torsten Meiners Editors, John Wiley On line library.
- d) Panagopoulos DJ and **Margaritis LH (2008)**. Mobile telephony radiation effects on living organisms. In, Mobile telephones, chapter 3. Harper AC and Bures RV. Nova Publishers. ([pdf file](#))
- e) Fragopoulou AF and **Margaritis LH (2010)**. Is cognitive function affected by mobile phone radiation? In, "Non Thermal Effects and Mechanisms of interaction between electromagnetic fields and living matter", *European Journal of Oncology-Library* vol.5, pp 261-273, L. Giuliani and M. Soffritti (eds). ([pdf file](#))
- f) Fragopoulou AF and **Margaritis LH**. (2012). Review article in the BioInitiative 2012 Report. **Section 5. 2007-2012 Supplement: EMF Transcriptomics and Proteomics Research**. BioInitiative Working Group, Cindy Sage and David O. Carpenter, Editors. BioInitiative Report: A Rationale for Biologically-based Public Exposure Standards for Electromagnetic Radiation at www.bioinitiative.org, December 31, 2012

GRANTED PATENTS

Development of Greek patent on the protection from mobile phone radiation Nr. Gr 20070100259/1005919 (**2005**, extension **2007**)

PUBLICATIONS

- | |
|---|
| <ol style="list-style-type: none">1. Observations from studies on the cornea by the electron microscope. Koliopoulos J.X., Margaritis L.H., Baltazis S. and Velissaropoulos P. Bulletin Hel Ophth Soc 40:61-69, 1972 |
|---|

2. Alterations of the fine structure of the cornea in a case of acute ceratoconus. **Koliopoulos J.X., Margaritis L.H., Droutsas D. and Velissaropoulos P.** Iatriki 28:113-120, 1975
3. Studies on resolution and rotary shadowing for freeze-etching. **Margaritis L.H. and Branton D.** J Cell Biol 67:259a, 1975
4. Biochemical and structural analysis in intramembrane particles using recombination experiments and rotary shadow freeze-etch microscopy. **Margaritis L.H., Yu J. and Branton D.** J Cell Biol 67:259a, 1975
5. Quantitative and comparative ultrastructure of the vertebrate cornea I. Urobele Amphibia. **Margaritis L.H., Politof Th.K. and Koliopoulos J.X.** Tissue Cell 8:591-602, 1976
6. Quantitative changes and ultrastructural alteration of the cornea in response to ultraviolet light. I. Effects on rabbits. **Margaritis L.H., Politof Th.K. and Koliopoulos J.X.** Min Medica Greca 3:295-305, 1975
7. Quantitative changes and ultrastructural alterations of the cornea in response to ultraviolet light. II. Effects on Amphibia. **Margaritis L.H., Politof Th.K. and Koliopoulos J.X.** Tissue Cell 8:603-614, 1976
8. Three dimensional structure of the endochorion in wild type *Drosophila melanogaster*. **Margaritis L.H., Petri W.H. and Kafatos F.C.** J Exp Zool 178:403-408, 1976
9. Rotary replication for freeze-etching. **Margaritis L.H., Elgsaeter A. and Branton D.** Cell Biol 72:47-56, 1977
10. Comparative investigation of the changes of the cornea following exposure to the ultraviolet radiation. **Koliopoulos J.X. and Margaritis L.H.** Bulletin Hel Opth Soc 45:39-53, 1977
11. Structural and image analysis of a crystalline layer from dipteran egg-shell. **Margaritis L.H., Petri W.H. and Wyman A.R.** Cell Biol Int Rep 3:61-66, 1979
12. Response of the cornea to far ultraviolet light: An ultrastructural study. **Koliopoulos J.X. and Margaritis L.H.** Ann Ophthalmol 11:765-769, 1979
13. Morphological characterization of the proteins of the erythrocyte membrane by combining freeze-fracturing and recombination. **Margaritis L.H. and Papasideri I.** Min Medica Greca 7:47-56, 1979
14. Alterations of the red cell membrane glycoproteins in patients with diabetic retinopathy. **Papasideri I., Margaritis L.H. and Koliopoulos J.X.** Min Medica Greca 7:315-317, 1979
15. In vitro development of the *Drosophila* chorion in a chemically defined organ culture medium. **Petri W.H., Mindrinos MN., Lombard M.F. and Margaritis L.H.** Roux's Arch Dev Biol 186:351-362, 1979
16. The eggshell of *Drosophila melanogaster*. I. Fine structure of the layers and regions of the wild type eggshell. **Margaritis L.H., Kafatos F.C. and Petri W.H.** J Cell Sci 43:1-35, 1980
17. Crosslinking of the *Drosophila* chorion involves a peroxidase. **Mindrinos M.N., Petri W.H., Margaritis L.H., Galanopoulos V.G.** Roux's Arch Dev Biol 189:187-196, 1980
18. Crystalline layer in *Drosophila melanogaster* egg-shell: Arrangement of components as revealed by negative staining and reconstruction. **Hamodrakas S.J., Margaritis L.H. and Nixon P.E.** J Biol Macromol 4:25-31, 1982
19. Wax layer and innermost chorionic layer in *Drosophila melanogaster* eggs; Their relationship with the waterproofing properties of the laid eggs. **Papassideri I.S., Margaritis L.H. and Gulik-Krzywicki T.** Biol Cell 45:146, 1982
20. Isolation and characterization of sex-linked female-sterile mutants in *Drosophila melanogaster* with special attention to eggshell mutants.

- Komitopoulou K., Gans M., Margaritis L.H., Kafatos F.C. and Masson M.** Genetics 105:897-920, 1983
21. The eggshell of Hawaiian *Drosophila*; Structural and biochemical studies in *D. grimshawii* and comparison to *D. melanogaster*. **Margaritis L.H., Deltas T., Kalantzi M., and Kambusellis M.K.** Roux's Arch Dev Biol 192:303-316, 1983
 22. Microtubules during formation of the micropylar canal in *Drosophila melanogaster*. **Margaritis L.H.** Cell Biol Int Rep 8:317-321, 1984
 23. Three-dimensional reconstruction of innermost chorion layer from *Drosophila melanogaster*. **Margaritis L.H., Hamodrakas S.J., Arad T. and Leonard K.R.** Biol Cell 52:279-284, 1984
 24. Polymerisation of oriental monomers VIII. Polymerisation of Allyl and diallyl vesicle forming quaternary ammonium salts. **Babilis D., Dais P., Margaritis L.H. and Paleos C.M.** J Pol Sci 23:1089-1098, 1985
 25. Isolation and characterisation of nuclear particles containing rapidly labelled hnRNA and snRNA in combination with a distinct set of polypeptides of MW 74.000 and 72.000. **Hatzoglou M., Adamtziki E., Margaritis L.H. and Sekeris C. E** Exp Cell Res 157:227-241, 1985
 26. The egg-shell of *Drosophila melanogaster*. III. Covalent cross linking of the chorion proteins involves endogenous hydrogen peroxide. **Margaritis L.H.** Tissue and Cell 17(4), 553-559 (1985)
 27. Comparative study of the egg-shell in the fruit-flies *Dacus oleae* and *Ceratitis capitata* (Diptera: Tephritidae). **Margaritis L.H.** Can. J. Zool. 63, 2194-2206 (1985)
 28. Ultrastructural analysis of chorion formation in the silk moth *Bombyx mori*. **Papanikolaou A.M., Margaritis L.H. and Hamodrakas S.J.** Can. J. Zool. 64, 1158-1173 (1986)
 29. Thermotropic-like character and vesicular aggregation of N,N' Dididecyl succinamic and Maleamic acids. **Paleos C.M., Margomenou-Leonidopoulou G., Margaritis L.H. and Terzis A.** Mol. Cryst. Liq. Cryst. 129, 127-135 (1985)
 30. Phylogenetic relationships within the montium species subgroup of the genus *Drosophila* (Sophophora) based on electrophoretic data of the major chorion proteins. **Kalantzi-Makri M.C., Margaritis L.H. and Sourdis J.** Annals. Soc. Ent. Fr (N.S.) 21(4), 357-366 (1985)
 31. The corneal epithelium basement membrane complexes after alkali burn: An ultrastructural study. **Gartaganis S.P., Margaritis L.H. and Koliopoulos J.X.** Ann. Ophthalmol. 19, 263-268 (1987)
 32. The eggshell of *Drosophila melanogaster*. V. Structure and morphogenesis of the micropylar apparatus. **Zarani F., and Margaritis L.H.** Can. J. Zool., 64, 2509-2519 (1986)
 33. The eggshell of *Drosophila melanogaster*. II. New staging characteristics and fine structural analysis of choriogenesis. **Margaritis L.H.** Can. J. Zool., 64, 2152-2175 (1986)
 34. Fine structure of the silkmoth *Antheraea polyphemus* chorion as revealed by X-ray diffraction and freeze-fracturing. **Hamodrakas S.J., Margaritis L.H., Papisideri I., Fowler A.** Int. J. Biol. Macromol. 8, 237-242 (1986)
 35. Specific secretion of wax by the follicular cells of *Drosophila melanogaster*. **Papisideri I. and Margaritis L.H.** Cell Biol. Int. Rep. 10, 963-968 (1986)
 36. Biochemical and structural studies of sex-linked chorion mutants. **Komitopoulou K., Margaritis L.H. and Kafatos F.C.** Devel. Genetics 9, 37-48 (1988)
 37. A structural protein that plays an enzymatic role in the eggshell of *Drosophila melanogaster*. **Keramaris K.E., Stravopodis D. and Margaritis L.H.** Cell Biol. Int. Rep. 15, 151-159 (1991)

38. Choriogenesis in the Medfly *Ceratitis capitata* (Wiedermann) (Diptera : Tephritidae). **Mouzaki D. and Margaritis L.H.** Int. J. Insect Morphol. Embryol. 20, 51-68 (1991)
39. The eggshell of *D. melanogaster*. VI. Structural analysis of the wax layer in laid eggs. **Papasideri I.S., Margaritis L.H. and Gulik-Krzywicki, T.** Tissue and Cell, 23(4), 567-575 (1991)
40. Fine structure and morphogenesis of the micropylar apparatus in the Medfly *Ceratitis capitata* (Wiedermann) (Diptera: Tephritidae). **Zarani, F. and Margaritis L.H.** Int. J. Insect Morphol. Embryol. 20, 127-139 (1991)
41. Three-dimensional reconstruction of innermost chorion layer from *D. grimshawii* and *D. melanogaster* egg-shell mutant fs 384. **Margaritis L.H., Hamodrakas S.J., Papasideri I., Arad I. and Leonard K.** Int. J. Biol. Macromol., 13, 247 (1991)
42. Structure and morphogenesis of the Eggshell and Micropylar apparatus in the Olive fly, *Dacus oleae*. (Diptera: Tephritidae). **Mouzaki D., Zarani F. and Margaritis L.H.** J. Morphol., 209, 39-52 (1991)
43. Ultrastructural features and formation of the micropylar apparatus in the cherry fly *Rhagoletis cerasi*. **Zarani F. and Margaritis L.H.** J. Morphol. 208, 205-214 (1991)
44. The Eggshell of *Drosophila melanogaster*. VII. Formation of the micropylar canal and the role of the paracrystalline structure. **Zarani F. and Margaritis L.H.** Roux's Archives Dev. Biol., 200, 95-103 (1991)
45. The eggshell of the cherry fly *Rhagoletis cerasi*. **Mouzaki D. and Margaritis L.H.** Tissue and Cell 23(5), 745-754 (1991)
46. Immunolocalization of a peroxidase in the eggshell of *D. melanogaster*: Evidence for its participation in the hardening process. **Margaritis L.H., and Keramaris K.E.** Micron & Microscopica Acta, 22, 247-248, (1991)
47. Fine structure of the chorion of *Manduca sexta* and *Sesamia nonagriodes* as revealed by scanning electron microscopy and freeze-fracturing. **Orfanidou C.C., Hamodrakas S.J., Margaritis L.H., Galanopoulos V., Dedieu J.C., and Gulik-Krzywicki T.** Tissue and Cell 24:735-744, 1992
48. Tissue localisation of 125 I Triiodothyronine in the periorbital area of mice: a microautoradiographic study. **Sawas-Dimopoulou C., Papanastasiou E., Angelis A., Toubanakis N., and Margaritis L.H.** Nucl. Med. Biol. 19:627-637, 1992
49. Corneal endothelial damage after Nd:YAG laser anterior capsulotomy. An experimental study on rabbits. **Vaikoussis E., Bisogiannis Z. and Margaritis L.H.** Doc. Ophtalm. 83:279-286, 1993
50. Formation and characterisation of simple and mixed vesicles based on monomeric and oligomeric phosphate bipolar amphiphiles. **Kokkinia A., Keramaris K.E., Margaritis L.H., Malliaris A. and Paleos C.M.** J. Polym. Sci. (In Press, 1994)
51. The eggshell of *Drosophila melanogaster*. VIII. Morphogenesis of the wax layer during oogenesis. **Papasideri I., Margaritis L.H. and Gulik-Krzywicki T.** Tissue & Cell 25:929-936, 1993
52. The eggshell of the almond wasp *Eurytoma amygdali* (Hymenoptera; Eurytomidae). I. Morphogenesis and fine structure of the eggshell layers. **Mouzaki D. and Margaritis L.H.** Tissue and Cell 25:559-568, 1994
53. The eggshell of the almond wasp *Eurytoma amygdali* (Hymenoptera; Eurytomidae). II. The micropylar appendage **Zarani F. and Margaritis L.H.** Tissue and Cell 26:569-577, 1994
54. Early detection of Amphotericin B induced nephrotoxicity by 99mTc-DTPA: a useful model. **Sawas-Dimopoulou C., Papathanasiou P. and Margaritis L.H.** Nuclear Med. Biol. 22:297-301, 1995

55. Egg-laying in *Drosophila melanogaster* (Diptera: Drosophilidae) and *Dacus (Bactrocera) oleae* (Diptera: Tephritidae) by phloroglucinol, a peroxidase inhibitor. **Keramaris K.E., Zografou E.N., Tsiropoulos G.J. and Margaritis L.H.** *Bullet. Entomol. Res.* 86:369-375,1996
56. The eggshell of *Drosophila melanogaster*: IX Synthesis and morphogenesis of the innermost chorionic layer. **Papassideri I.S. and Margaritis L.H.** *Tissue and Cell*, 28: 401-409, 1996
57. Induction of an experimental Fanconi Syndrome in mice: Its effects on the glomerular filtration function studied by ^{99m}Tc –DTPA. **Sawas-Dimopoulou C., Sigalas I. and Margaritis L.H.** *Nuclear Med. Biol.* 23:807-812, 1996
58. Congenital Dyserythropoetic anemia Type I, in combination with a Thalassaemia. **M. Antonelou, I. Papassideri, F. Karababa, M. Gyparaki, A. Loutradi, and L. Margaritis** *J Brit Hematology* 102:300, 1998
59. The formation of the functional chorion structure of *Drosophila virilis* involves intercalation of the “middle” and “late” major chorion proteins into a scaffold formed by the “early” chorion proteins: A general model for chorion assembly in Drosophilidae. **Trougakos I. and Margaritis L.H.** *Structural Biology* 123:97-110, 1998
60. Immunolocalization of the Temporally “Early” secreted major structural chorion proteins, Dvs38 and Dvs36, in the eggshell layers and regions of *Drosophila virilis* **Trougakos I. and Margaritis L.H.** *Structural Biology* 123:111-123, 1998
61. Effects of gamma rays on the stability and size of DNA **Georgakilas A.G. Sakelliou L., Sideris E.g., Margaritis L.H., Sophianopoulou V.** *Radiation Researh* 150: 488-491, 1998
62. Survival, fecundity and fertility of *Bactrocera oleae*, as affected by amino acid analogues. **Zografou E.N., Tsiropoulos G.J., Margaritis L.H.** *Entomologia Experimentalis et Applicata* 87: 125-32, 1998
63. The frequency of the allele α^{LELY} a low expression allele of the gene encoding erythroid spectrin α -chain in the Greek population. **Papassideri, I.S. M. H. Antonelou, F. Karababa, A. Loutradi, J. Delaunay, L.H. Margaritis** *Haematologica* 84:754-755, 1999
64. Biochemical and immunocytochemical analysis of vitellogenesis in the fruit fly and *Dacus (bactrocera) oleae* (Diptera: Tephritidae). **Trougakos IP, Lamnissou K, Margaritis LH.** *Cell Biol. Int* 23:417-429, 1999
65. Mass determination of the unit cell of the innermost chorionic layer in Drosophiliidae by scanning transmission electron microscopy. **Papassideri IS, Leonard KR, Mills D, Margaritis LH.** *J Struct Biol* 127:258-262, 1999
66. CD4 cytotoxic and dendritic cells in the immunopathologic lesion of Sjogren syndrome. **Xanthou G, Tapinos NI, Polihronis M, Nezis IP, Margaritis LH, Moutsopoulos HM.** *Clin Exp Immunol* 118:154-63, 1999
67. Origin of renewed spinal ganglia during tail regeneration in urodeles. **Koussoulakos S, Margaritis LH. Anton H** *Dev Neurosci* 21:134-139, 1999
68. A mechanism for action of oscillating electric fields on cells. **Panagopoulos DJ, Messini N, Karabarounis A, Philippetis AL, Margaritis LH** *Biochem Biophys Res Commun.* . 272(3), 634, (2000)
69. Diversity of peripheral blood mononuclear cells as revealed by a novel multiple microgel “comet assay” **Visvardis, E., Haveles, KS., Pataryas Th., Margaritis LH., Sophianopoulou, V., Sideris EG** *Environ. Mol. Mutagen.* 36:32-39, 2000
70. Stage specific apoptotic patterns during *Drosophila oogenesis*. **Nezis I.P., Stravopodis D.J., Papassideri I.S., Robert-Nicoud M., Margaritis L.H.** *Eur.J. Cell Biol* 79:610-620, 2000

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71. Differential sorting of constitutively co-secreted proteins in the ovarian follicle cells of *Drosophila*. **Trougakos IP, Papassideri IS, Waring GL, Margaritis LH** Eur J Cell Biol 80:1-14, 2001
72. Actin cytoskeleton reorganization of the apoptotic nurse cells during the late developmental stages of oogenesis in *Dacus oleae*. **Nezis IP, Stravopodis DJ, Papassideri I, Margaritis LH** Cell Motility and the Cytoskeleton 48: 224-233, 2001
73. Histochemical and molecular evidence of peroxidase activity in *Segestidea novaeguineae* (Brancsik) (Orthoptera) and *Stichotrema dallatobrreanum* Hofeneder (Strepsiptera). **Douroupi, T., Konstandi, O., Kathrithamby, J. and L.H. Margaritis.** Tijdschrift voor Entomologie 144:197-202, 2001
74. Dynamics of apoptosis in the ovarian follicle cells during the last stages of *Drosophila oogenesis*. **Nezis I.P., Stravopodis D.J., Papassideri I.S., Robert-Nicoud M., Margaritis L.H.** Cell Tissue Res 307: 401-409, 2001
75. A novel case of a haemoglobin H disease associated with clinical and morphological characteristics of congenital diserythropoetic anemia type I. **Antonelou, M.H., I. S. Papassideri, M. F. Karababa, M. Gyparaki., A. Loutradi, L. H. Margaritis.** Eur. J. Haematology 68:247-52, 2002
76. Proximal tubular epithelial cell integrins respond to high glucose by altered cell-matrix interactions and differentially regulate matrixin expression. **Karamessinis PM, Tzinia AK, Kitsiou PV, Stetler-Stevenson WG, Michael AF, Fan WW, Zhou B, Margaritis LH, Tsilibary EC.** Lab Invest 82:1081-1093,2002
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