

CURRICULUM VITAE

Marigoula Margarity

PERSONAL INFORMATION

Academic Position: Assistant Professor of Human and Animal Physiology
Professional address: Laboratory of Human and Animal Physiology
Department of Biology
University of Patras
Patras, 265 00
Greece

Nationality: Greek
Marital status: Married. Two children
Sex: Female

ACADEMIC RECORD

1977: B.S., in Biology, Department of Biology, University of Patras, Greece (excellent)

1982: Ph.D., in Biology, Department of Biology, University of Patras, Greece (excellent)

Thesis: Characterization and role of thyroid hormone receptors in brain tissue.

SCHOLARSHIPS

1974 - 1976: Scholarship from the Federation of Government Scholarships (IKY) for her performance during the first three years of her academic education.

1978-1980: Scholarship from the National Institute of Research

HONOURED DISTINCTIONS

1976: **Distinction** from Megari, University of Patras, for her performance at the third year of her education.

1981: **2nd award** Papastamati, from Hellenic Society of Medicine for her work on: "Characterization of Thyroid Nuclear Receptors of the Central Hemispheres and of the Cerebellum of Developing Rat Brain".
Margarity M., Matsokis N., Valcana T.

2000: **2nd Award of best presentation** in 15th Greek Meeting of the Hellenic Society of Neuroscience (for my PhD student S Maniati) *Changes in Dopamine/Adenosine interaction in the neostriatum of the "weaver"*. S Maniati, N. Panagopoulos, N. Matsokis, **M. Margarity**, F. Angelatou.

2005: **Poster Award, in the ten best posters** in 19th Greek Meeting of the Hellenic Society of Neuroscience (for my PhD student A.D. Spathis). Identification of candidate genes involved in the initiation of nigrostriatal

degeneration in the weaver mouse using full-genome DNA microarrays. Spathis A.D., Antonopoulos I., Panagopoulos N., Matsokis N., Angelatou F., Episkopou V., Klapa M.I. and **Margarity M.**

2005: **Poster Award, in the ten best posters.** 2nd International Congress on Brain and Behaviour (for my undergraduate student D.S. Kasselimis). The relation of dyslexia to cerebellar function and articulation speed, Kasselimis D.S., **Margarity M.**, Vlachos F.

2006: **4th Award in the 10 best scientific studies.** 1st International Contest of Food Science and Nutrition which took place on Aristidis Daskalopoulos Federation. (to Lamari F.N as “*Inhibitory activity on amyloid- β aggregation and antioxidant properties of Crocus sativus stigmas extract and its crocin constituents*”. Lamari F.N., Papandreou M.A., Kanakis C.D., Polyssiou M.G., Efthimiopoulos S., Cordopatis, P., **Margarity M.**,

2007: **1st Award of best poster presentation .** 21st Greek Meeting of the Hellenic Society of Neuroscience (for my PhD student Papandreou M.A), Anti-Acetylcholinesterase, Anti- oxidant and Memory Enhancing Activities. Papandreou M.A., Lamari F.N., Cordopatis P., **Margarity M.**

2009: **2nd Award of the best scientific studies.** 2nd International Contest of Food Science and Nutrition which took place on Aristidis Daskalopoulos Federation. *Effect of Polyphenol Rich Blueberry Extract on Cognitive Performance of Mice, on Brain Antioxidant Markers and Acetylcholinesterase* Lamari F.N., Papandreou M.A, Dimakopoulou A, Linardaki Z.I., Cordopatis P., Klimis-Zacas D., **Margarity M.**

2010: **Award in the best posters.** Meeting "Neuroscience days 2010" of the Hellenic Society of Neuroscience (for my undergraduate student Kotsia E-M). *Effect consumption of Hypericum perforatum infusion on behavior and cholinergic system of adult mice after co-administration with cadmium.* Kotsia E- M., Telonis A. , Vasilopoulou C, Linardaki Z., Iatrou G., **Margarity M.**

2010: **Award in the best oral presentations.** Meeting "Neuroscience days 2010" of the Hellenic Society of Neuroscience (for my PhD student Papandreou M.) Neuroprotective Effects of *Crocus sativus*' Papandreou MA, Tsachaki M, Efthimiopoulos S, Cordopatis P, Lamari FN & **Margarity M.**

RESEARCH ACCOMPLISHMENT

My research accomplishments and interests can be divided mainly in to two parts.

Part I: Is concerned with the deleanation of the central (nuclear receptors) and peripheral (neurutrophic role) mechanisms of action of thyroid hormones, as well as with behavioral studies, oxidative markers and metabolomic analysis in cases of hypothyroidism. In particular, with: **I)** Studying the role of thyroid hormones in the developing and mature Central Nervous System in relation to their uptakem metabolism and nuclear receptor alterations in various pathophysiological situations. **II) A)** Behavioral studies (learning/memory, anxiety, thigmotaxis), oxidative markers, peripheral action of thyroid hormones by determining various parameters, e.g. binding of dopamine receptors, induction of second messenger systems (c-AMP) and **B)** metabolomic analysis of brain areas in cases of hypothyroidism (collaboration with Dr M. Klapa (ITE/ FORTH/ Patras).

Part II: Studying mechanisms of pathogenesis and neuroprotection.

α) Studying the interaction between neurotransmitter systems and neuroprotective substances (i.e. oestrogen) in mutated «weaver» mice, a well-known model of Parkinson's disease, given the progressive neurodegeneration of the dopaminergic neurons in substantia nigra.

β) Determination of oxidative stress markers in various brain areas of «weaver» mice.

γ) Studying gene expression in the midbrain area of developing weaver mice with microarrays c-DNA (collaboration with Dr M. Klapa (ITE/FORTH/Patras) and Dr. V. Episkopou (Prof. MRC, Mammalian Neurogenesis Group Leader).

c) Detection of possible biological markers for Parkinson's disease in the lymphocytes of Parkinsonian patients (microarrays c-DNA) (collaboration with Dr S. Bostatsopoulou/ Hospital "Papanikolaou", Thessaloniki).

d) Studying mechanisms of neurodegeneration (induction by use of neurotoxins, e.g. aflatoxins, heavy metals/ Pb, Al, Cd etc) and neuroprotection with the use of oestrogens, vitamins and natural products (*Crocus Sativus L.* and various other endemic *Crocus* species, *Sideritis Cladestina* /tea mountain, *Hypericum perforatum*, *Vaccinium angustifolium* etc) by determining oxidant/antioxidant markers, anti-amyloid properties, antiacetylcholinesterase actions and behavioral studies (learning/memory, anxiety and thigmotaxis) collaboration with the Hospital "Papanikolaou", collaboration with Dr F. Lamari , Ass. Prof. Dept. of Pharmacy, University of Patras , Dr S. Euthimiopoulos Assoc. Prof Dept. Biology, Univ. of Athens, Dr G. Iatrou, Prof. Dept. Biology, University of Patras.

Also I have interest: Relation of dyslexia with cerebellum dysfunction, speed of speech and deleanation of the relationship between speech and motor development (collaboration with Dr. F. Vlacho, Ass. Prof. University of Thessalia, Dr. E. Papathanasiou, Prof. of Logotherapy, ATEI Patras and Prof. S. Alachiotis, Dept. Biology, University of Patras).

TEACHING – MONITORING EXPERIENCE

Teaching undergraduate courses since 1978 up to date, as well as postgraduate courses in the Department of Biology since 1995 up to date, in the School of Medicine since 2004 up to date and in various other departments postgraduate

I have already supervised **4 PhD** and **10 MSc**, while currently I **having** under my supervision **1** PhDs and **1** MSc. Additionally, I have also supervised **44** Bachelor diplomas and I am currently supervising other **3**.

FUNDED GRANTS:

I) Senior Scientist in two grants: **1)** “Studying the role of the nuclear and cytoplasmic thyroid hormone receptors in brain tissue” PAET 1987-1989, funded by the General Secretariat of Research and Technology, Ministry of Development, Greece. **2)** “Effects of cellular hypothyroidism, drugs and environmental stress on adult rat brain” PENED 1995-1997, funded by the General Secretariat of Research and Technology, Ministry of Development, Greece. **3) 2012-2015.** Ministry of Education, Lifelong Learning, and Religious Affairs - Program “Thalis”. Project Acronym: “CYCLIPAD”. Coordinator: Dr. Efstathios Gonos. <http://excellence.minedu.gov.gr/thales/el/thalesprojects/657>

II) Group leader (Person in charge) in **three** grants. **1)** “Interaction between benzodiazepines, thyroid hormones and dopamine in central nervous system” PAET 1990-1993, funded by the General Secretariat of Research and Technology, Ministry of Development, Greece. **2)** Mechanisms of central nervous system neurodegenerative diseases’ pathogenesis” PENED 1999-2002, funded by the General Secretariat of Research and Technology, Ministry of Development, Greece. **3)** “Mechanisms of central nervous system diseases’ pathogenesis and neuroprotection (Alzheimer, Parkinson)” PENED 2002-2005 funded by the General Secretariat of Research and Technology, Ministry of Development, Greece.

III) Coordinator in **three** grants. **1)** “Study of the effects of thyroid hormone on the dopaminergic.GABAergic system and on the apoptotic mechanisms of mouse striatum” Karatheodoris 2002-2005, funded by the University of Patras, Greece. **2)** “Study of the role of pharmaceutical and plant compounds in neuroprotective mechanisms for Alzheimer’s Disease”, funded by Glaxo SmithKline AEBE, Greece (2004). **3)** “Study of the possible neuroprotective role of crocus sativus L and other endemic species of crocus stigmata extracts in Alzheimer’s Disease” PENED 2005-2008 funded by the General Secretariat of Research and Technology, Ministry of Development, Greece.

PROFESSIONAL SOCIETY MEMBERSHIPS

™ Establishing Member of the Hellenic Society for Neuroscience
™ Member of the Hellenic Society for Biology
™ Member of the Hellenic Society for Free Radicals and Oxidative stress
™ Member of the European Society for Free Radical Research
™ Hellenic Society of Biochemistry and Molecular Biology
™ Hellenic Society of Physiology

AUTHORSHIP EXPERIENCE - PUBLICATIONS

A. Presentations – Abstracts in National and International Meetings

- 1. M. Margarity, N. Matsokis and T. Valcana.** *Comparison of Properties of Nuclear T_3 Receptors from the Cerebral Hemispheres and Cerebellum* In: Multidisciplinary Approach to Brain Development. C. Di Benedetto, et al., (Eds) Elsevier, Amsterdam. pg. 311-312, 1980.

2. **M. Margarity**, N. Matsokis and T. Valcana. (1981) *Regional Differences in the Metabolism and Binding of Thyroid Hormones in the Developing Rat Brain*. Proceedings of 8th Meeting of the International Society for Neurochemistry, pp. 66, Nottingham, 1981.
3. **M. Margarity**, N. Matsokis and T. Valcana. *Metabolism and binding of Thyroid Hormones in Cerebral Hemispheres and Cerebellum of the Developing Rat Brain*. Proceedings of 3rd Meeting of EEBE, pp.88- 89, Athens, 1981.
4. **M. Margarity**, N. Matsoukis and T. Valcana. *Metabolism and Binding of Tetraiodothyronine in the Developing Rat Brain*. Proceedings of 3rd Meeting of Int. Soc. Dev. Neurosciences, pp. 153, Patras, 1982.
5. P. S. Timiras, T. Valcana, **M. Margarity** and A. K. Vallergera. *Thyroid Hormones and the Aging Brain*. 17th Int. Meet. International Society for Psychoneuroendocrinology, pp. 120, Tokyo, 1985.
6. **M. Margarity** and T. Valcana. Cytoplasmic pool of Thyroid Hormones and Nuclear Binding. *Proceedings in 1st Greek Meeting of the Hellenic Society of Neuroscience*, pp 77, Patras, 1985.
7. **M. Margarity**, **A Kaisari** and T. Valcana. *Effect of cold in cytoplasmic distribution and nuclear binding of 125 I-T₃*. Proceedings of 7th of EEBE, pp .105-106, Heraklion, Crete, 1985.
8. **M. Margarity** and T. Valcana. *Effects of Iopanoic Acid on Cytoplasmic Thyroid Hormones Concentration and Nuclear Binding in Brain*. In: *Molecular Basis of Neural Function*. Proceedings of the 5th Meeting of the European Society for Neurochemistry. S. Tucek et. al. (Eds), pp. 402. 1986.
9. A. Kastellakis, **M. Margarity** and T. Valcana. *Developmental Changes in Synaptosomal Thyroid Hormone Uptake*. In: *Molecular Basis of Neural Function*. Proceedings of the 5th Meeting of the European Society for Neurochemistry. S. Tucek et al. (Eds), pp. 401, 1986.
10. S. Bolaris and **M. Margarity**. *H Pentylenetetrazole (PTZ) affect the number of triiodothyronine (T₃) nuclear receptors in the brain*. *Proceedings in 10th Greek Meeting of the Hellenic Society of Neuroscience*, pg. 26, Alexandroupolis, November 1994
11. S. Maniati, N. Panagopoulos, N. Matsokis, **M. Margarity**, F. Angelatou. *Changes in Dopamine/Adenosine interaction in the neostriatum of the “weaver” mutant mice*. Proceedings in 15th Greek Meeting of the Hellenic Society of Neuroscience, pg. 61- 62, Patras, October 2000. **2nd Award of best poster presentation**
12. S. Maniati, N. Panagopoulos, **M. Margarity** *T₃ regulation of characterists of D₂ receptors in mice striatum*. Proceedings in 15th Greek Meeting of the Hellenic Society of Neuroscience, pg. 62-63, Patras, October 2000
13. S. Maniati, N. Panagopoulos, N. Matsokis, **M. Margarity**, F. Angelatou. *Changes in Dopamine/Adenosine interaction in the neostriatum of the “weaver” mutant mice*. Proceedings in 21st European Winter Conference of Brain Research. Abstract book, pg. 55, Arc 1800, French Alps, March 2001.
14. S. Maniati, N. Panagopoulos, V. Tondikidou N. Matsokis, **M. Margarity**, E. Asproдини, F. Angelatou. *Changes in Dopamine/Adenosine interactions at*

- multiple levels in the striatum of the “weaver” mutant mice.* Society for Neuroscience Conference, San Diego. U.S.A., 2001
15. P. Poulou, N. Matsokis, **M. Margarity**, F. Angelatou. *Reduced concentration of A₁ Adenosine receptors and D₁ Dopamine receptors in the striatum of “weaver” mutation: In vitro autoradiography study.* Proceedings in 16th Greek Meeting of the Hellenic Society of Neuroscience, pg. 62-63, Thessaloniki, November 2001.
 16. V. Tondikidou, **M. Margarity**, F. Angelatou, N. Panagopoulos, N. Matsokis. *Interaction of the dopaminergic/adenosinergic system at the level of the adenylate cyclase activity in the striatum of the “weaver” mouse.* Proceedings in 16th Greek Meeting of the Hellenic Society of Neuroscience, pg. 130, Thessaloniki, November 2001.
 17. A. Papadopoulou, N. Matsokis, **M. Margarity**. *The effects of adult hypothyroidism on monoamine oxidase activities (MAO-A and MAO-B) in striatum and cortex of the mouse brain.* Proceedings in 16th Greek Meeting of the Hellenic Society of Neuroscience, pg. 108, Thessaloniki, November 2001.
 18. A. Kountoureti, N. Patsoukis, N. Panagopoulos, G. Zervoudakis, C. Georgiou, N. Matsokis and **M. Margarity**. *The thiol redox state in “weaver” brain.* Proceedings in 17th Greek Meeting of the Hellenic Society of Neuroscience, pg. 65, Rethymno, October 2002.
 19. S. Maniati, N. Panagopoulos, M. Margarity. *T₃ modulates the dopaminergic/adenosinergic system at the level of cAMP formation.* Proceedings in 17th Greek Meeting of the Hellenic Society of Neuroscience, pg. 61, Rethymno, October 2002.
 20. F. Angelatou, V. Tondikidou, A. Stavropoulou, P. Ziros, **M. Margarity**, N. Panagopoulos and N. Matsokis. *Interaction of the dopaminergic/adenosinergic system at the level of c-AMP formation and the phosphorylation state of DARPP-32 in the striatum of the “weaver” mouse: a genetic model of Parkinson’s disease.* 3rd Forum of the European Neuroscience (FENS). Abstract Book, pg. 152, Paris 2002.
 21. H. Kanellopoulos and **M. Margarity**. Effect of hypothyroidism on the lipid peroxidation in several adult mouse brain regions. *Annual Meeting of Postgraduate Students of the Department of Biology, University of Patras, Patras 2003*
 22. Constantinou C., Bolaris S., Valcana T., **Margarity M.** *Diazepam affects Cellular and Molecular Aspects of the Thyroid Hormone Mechanism of Action In Adult Rat Brain.* 5th Conference in Medical Chemistry: Drug Discovery and Design pp: 105-106. Patras, April 2004.
 23. Theodoritsi D., Spathis A.D., Dimakopoulou A., Panagopoulos N.T., Matsokis N., **Margarity M.** *The effect of hypothyroidism on the Benzodiazepine system in brain areas of adult mice.* Proceedings of 26th of EEBE, pp. 105, Volos, May 2004.
 24. Constantinou C., **Margarity M.**, Valcana T. *Short-time of LiCl treatment effects the molecular mechanism of action of thyroid hormones without affecting the intracellular levels of T₃ in adult rat cerebral.* 29th FEBS Congress, Poland, July, European Journal of Biochemistry, pg 26, No P1.2-37, 2004.

25. Spathis A.D., Antonopoulos I., Panagopoulos N.T., Matsokis N., Angelatou F., Episkopou V., Klapa M., Margarity M. *In search of the etiology of Parkinson's disease using full genome DNA microarrays of weaver mutant mice.* Proceedings. 56th Conference of Hellenic Society of Biochemistry and Molecular Biology, pg 122, Larisa Nov. 2004.
26. R. Antwnelou, N. Panagopoulos, F. Angelatou, **M. Margarity**, N. Matsokis. *Interaction of the dopaminergic/adenosinergic/GABAergic system in brain of "weaver" mouse: a genetic model of Parkinson's disease.* Annual Meeting of Postgraduate Students of the Department of Biology, University of Patras, Patras 2004,
27. Christodoulou, N. Panagopoulos, N. Matsokis **M. Margarity**. *A study of [³H]GABA uptake in different brain areas of mice after induction of epileptic seizures or after induction of chronic hypothyroidism.* Annual Meeting of Postgraduate Students of the Department of Biology, University of Patras, Patras 2004,
28. Spathis A.D., Antonopoulos I., Panagopoulos N.T., Matsokis N., Angelatou F., Episkopou V., Klapa M.I., **Margarity M.** *Identification of candidate genes involved in the initiation of nigrostriatal degeneration in the weaver mouse using full-genome DNA microarrays.* 1st BioScience Conference, University of Patras, Abstract Book, pp.318-319. Patras, May, 2005.
29. Spathis A.D., Antonopoulos I., Panagopoulos N.T., Matsokis N., Angelatou F., Episkopou V., Klapa M.I., **Margarity, M.** *High-throughput transcriptional profiling analysis for the identification of candidate genes in the initiation of the weaver grostriatal degeneration.* Proceedings in 19th Greek Meeting of the Hellenic Society of Neuroscience, pg. 232-233, Patra Sept., 2005. (**Poster Award, in the ten best posters**).
30. Papandreou M.A., Dracopoulos V., Efthimiopoulos S., Cordopatis P., Iatrou G., **Margarity M.**, Lamari F.N. *Antioxidant properties of Crocus stigma extracts and inhibition of amyloid β -protein.* Proceedings in 19th Greek Meeting of the Hellenic Society of Neuroscience, pg. 187-188, Patras, Sept., 2005.
31. Theodoritsi D., Antonopoulos I., Panagopoulos N.T., **Margarity M.**, Angelatou F., Matsokis N. *Neuroprotective effect of the combination of N-acetylcysteine, aspirine and 17 β -estradiol on the dopaminergic degeneration in «weaver» mice.* Proceedings in 19th Greek Meeting of the Hellenic Society of Neuroscience, pg. 257-258, Patras Sept., 2005.
32. Kasselimis D., **Margarity M.**, Vlachos F., *The relation of dyslexia to cerebellar function and articulation speed.* 10th Panhellenic Congress of Psychology Society, pg. 318. Ioannina, Dec. 2005.
33. Spathis A.D., Luchini A., Dolcetti L., Bostantjopoulou S., Chatzizisi O., Gerasimou G., Mandruzzato S., Bicciato S., Klapa M.I., **Margarity M.** *High-throughput transcriptional profiling analysis for the detection of peripheral biomarkers in lymphocytes of Parkinson's disease patients.* 57⁰ Conference of Hellenic Society of Biochemistry and Molecular Biology, pg 665-668. Athens, Dec. 2005.
34. Spathis A.D., Antonopoulos I., Panagopoulos N.T., Matsokis N., Angelatou F., Episkopou V., Klapa M.I., **Margarity M.** *High-throughput transcriptional profiling analysis for the identification of candidate genes in the initiation of weaver mouse nigrostriatal degeneration.* 5th Forum of European Neuroscience, FENS Forum Abstracts, pg 507. No A200.38, Vienna, 8-12 July, 2006.

35. Papandreou M.A., Dracopoulos V., Efthimiopoulos S., Kanakis C. D., Polissiou M.G., Cordopatis P., Iatrou G., **Margarity M.**, Lamari F. N. *Styles extracts of various Crocus taxa inhibit amyloid-beta aggregation*. 5th Forum of European Neuroscience, FENS Forum Abstracts, pg 336. No A130.32, Vienna, 8-12 July, 2006.
36. Matsokis N., Theodoritsi D., Patsoukis N., Antonopoulos I., Panagopoulos N., **Margarity M.**, Georgiou C. D., Angelatou F. *Neuroprotective effect of the combination of N-Acetylcysteine, Aspirine and 17 β - Estradiol on the Dopaminergic degeneration in the "Weaver" mice*. 5th Forum of European Neuroscience, FENS Forum Abstracts, pg 160. No A057.16, Vienna, 8-12 July, 2006.
37. Chrysanthopoulos P.K., Linardaki Z., Constantinou C., **Margarity M.**, Klapa M.I. *Metabolomic Analysis of the Hypothyroid Adult Mouse Brain*. 5th Forum of European Neuroscience, FENS Forum Abstracts, pg 543. No A220.3, Vienna, 8-12 July, 2006.
38. Constantinou C., Chrysanthopoulos P., Margarity M., and Klapa M.I. *Monitoring Adult Hypothyroid Mouse Brain using GC-MS metabolomics*. Short Call Presentation. 77th Annual Meeting of American Thyroid Association, Proceedings pg. 268, No 233, Phoenix, AZ, October 11-15, 2006.
39. Linardaki Z., Papandreou M.A., Constantinou C., Ziavra D., Zampira I., Papathanasiou E., Iatrou G., Lamari F.N., **Margarity M.** *Effect of consumption of tea of Sideritis clandestina subsp. Peloponnesiaca on the antioxidant properties of adult mice brain regions*. Proceedings of 3rd Meeting of EEBE , pg. 223, Ioannina, 17-19 May, 2006.
40. Chrysanthopoulos P.K., Constantinou C., Linardaki Z., **Margarity, M.** Klapa, M.I. *Unravelling Functional Variation Between Brain Regions using GC-MS metabolomics*. Proceedings in 20th Greek Meeting of the Hellenic Society of Neuroscience, pg. 50, Herakleion, Crete, 29/10-1/11/2006.
41. Papandreou M.A., Kanakis C.D., Polissiou M.G., Drakopoulos V., Efthimiopoulos S., Cordopatis P., **Margarity M.**, Lamari F.N. (2006). *"In vitro Activity of Crocus sativus Styles Extract (Saffron) and its Crocin Constituents Relevant to Alzheimer's disease: Inhibition of Amyloid- β protein Aggregation"*. 58th Conference of Hellenic Society of Biochemistry and Molecular Biology, pg. 579-582. Patras, Dec. 2006.
42. Linardaki Z., Lamari F., Iatrou G., Klapa M., **Margarity M.** *A study of biochemical parameters of adult mice brain regions after consumption of tea of Sideritis clandestina subsp.cyllenea*. Annual Meeting of Postgraduate Students of the Department of Biology, University of Patras, Patras, 2006
43. Papandreou M.A., Kanakis C.D., Polissiou M.G., Efthimiopoulos S., Cordopatis P., **Margarity M.**, Lamari F.N. *The effect of Crocus sativus and its crocin constituents on the activity of Acetyl-Cholinesterase*. 2^o BioScience Conference, University of Patras, Patras , 23-24 April, 2007.
44. Papandreou M.A., Kanakis C.D., Polissiou M.G., Efthimiopoulos S., Cordopatis P., Iatrou G., **Margarity M.**, Lamari F.N. *Crocins inhibit amyloid- β peptide aggregation in vitro*. 13th Panhellenic Pharmaceutical Congress, Athens, 12-14 May, 2007.
45. Papandreou M.A., Kanakis C.D., Polissiou M.G., Efthimiopoulos S., Cordopatis P., **Margarity M.**, Lamari F.N. *Inhibition activity on amyloid- β protein*

- aggregation and antioxidant properties of various crocus taxa style extracts and its crocins constituents. FEBS Advanced Lecture Course on Matrix Pathobiology Signalling and Molecular Targeting, Patras, June 2007.*
46. Papandreou M.A., Kanakis C.D., Polissiou M.G., Efthimiopoulos S., Cordopatis P., **Margarity M.**, Lamari F.N. Investigation of in vitro activities of crocus sativus styles extract relevant to Alzheimer's disease. 55th International Congress in Annual Meeting of the Society for Medicinal Plant Research, published in *planta medica* pp.961-962 Cranz-Austria, Sept. 2007.
 47. Awaad Ahment A., Zaxaraki C., Constantinou C., **Margarity M.**, Dory I., Dinopoulos A., Antonopoulos I. Hypothyroidism – induced Programmed Cell Death in Forebrain Structures of the Adult Rat. Proceedings in 21st Greek Meeting of the Hellenic Society of Neuroscience, pp: 52-53 , Thessalonikh, 30 Nov.-1 Dec. 2007
 48. Linardaki Z., Lamari F., Papandreou M.A. Iatrou G., Klapa M.I., **Margarity M.** *Evaluation of biochemical parameters of adult mice brain regions after consumption of tea of Sideritis clandestina subsp. peloponnesiaca.* Proceedings in 21st Greek Meeting of the Hellenic Society of Neuroscience, pp: 144-145 , Thessalonikh, 30 Nov.-1 Dec. 2007.
 49. Papandreou M.A., Lamari F.N., Cordopatis P., **Margarity M.** *In vivo* Effects of *Crocus Sativus* in mice brain : Anti- Acetylcholinesterase, Anti- oxidant and Memory Enhancing Activities Proceedings in 21st Greek Meeting of the Hellenic Society of Neuroscience, pp: 180-181 , Thessalonikh, 30 Nov. - 1 Dec. 2007. **1st Award of best poster presentation**
 50. Vasilopoulou K., Giannakopoulou D., Giompres P., Klapa M.I., **Margarity M.** *A Study of Adult Hypothyroid Mice Behaviour Based on the Elevated Plus Maze Test.* Proceedings in 21st Greek Meeting of the Hellenic Society of Neuroscience, pp: 218-219 , Thessalonikh, 30 Nov. - 1 Dec. 2007.
 51. Papandreou M.A., Dimacopoulou A., Lamari F.N., Cordopatis P., Klimis-Zacas D., **Margarity M.** Lamari F.N. *Effects of Anthocyanin Rich Blueberries Extract 9V. (Angustifolium) on the Antioxidant and Behavioral Aspects of Mice.* 59th Conference of Hellenic Society of Biochemistry and Molecular Biology, pg. 226-227. Athens, Dec. 2007.
 52. Dimacopoulou A., Drimtzis F., Papandreou M., **Margarity M.** Cordopatis P., Georgakopoulos C., Lamari F. *Effect of Sodium Selenite administration on Oxidative Stress Parameters in Crystalline Lens and Brain Areas of Neonatal Rats.* 9th Conference in Medical Chemistry: Drug Discovery and Design, P 10. Patras, March 2008.
 53. Papandreou MA, Lamari FN, Cordopatis P., **Margarity M.** *In vivo effects of Crocus sativus in mice brain: anti-acetylcholinesterase, antioxidant and memory enhancing activities.* 6th FENS Forum of European Neuroscience. pg. 83, Geneva, Switzerland, July 12-16, 2008.
 54. Papandreou M.A., Lamari F.N., Cordopatis P., **Margarity M.** *Effects of crocus sativus styles extract in memory, oxidative status and Acetylcholinesterase activity in brain of adult and old mice .* 6th Panhellenic Meeting of Free Radical and Oxidative stress. Pg 60, Pramanta-Ioannina, Sept. 2008
 55. Papandreou M.A., Lamari F.N., Tsachaki M., Efthimiopoulos S., **Margarity M.** *Studying the effects of saffron constituents on the oxidative status and Ab-production on various cell line culture systems* Proceedings in 22nd Greek

- Meeting of the Hellenic Society of Neuroscience, pp: 158, Athens, 16-19, Oct. 2008.
56. M.A. Papandreou, M. Tsachaki, P. Cordopatis, S. Efthimiopoulos, F.N. Lamari & **M. Margarity**. «*Neuroprotective Effects of Crocus sativus Extract & its Constituents*» 3rd International Symposium on Saffron: Forthcoming challenges in cultivation, research and economics, 20-23 May, 2009, Krokos, Kozani.
 57. Awaad Ahmed A., Dori I., Constantinou C., **Margarity M.**, Dinopoulos A., Antonopoulos J. *Hypothyroidism-induced apoptosis in forebrain structures of the rat during development and in the adult*. 23rd Meeting of the Hellenic Society for Neuroscience, Rhodos, Greece, 13-15 Sep, 2009.
 58. Vasilopoulou C., Linardaki Z., Iatrou G., Lamari F.N. & **Margarity M.** *Antioxidant Effect of Consumption of Greek Mountain Tea Sideritis Cladestina on Brain Regions of Adult Mice*. 23rd Meeting of the Hellenic Society for Neuroscience, Rhodos, Greece, Sep 13-15 Sep, 2009. Linardaki Z., Ferlemi A.V. & **Margarity M.** *Evaluation of biochemical markers of neurotoxicity in adult mouse after Aflatoxin B₁ exposure*. 23rd Meeting of the Hellenic Society for Neuroscience, Rhodos, Greece, 13-15 Sep. 2009
 59. Linardaki Z., Ferlemi A.V. & **Margarity M.** *Evaluation of biochemical markers of neurotoxicity in adult mouse after Aflatoxin B₁ exposure*. 23rd Meeting of the Hellenic Society for Neuroscience, Rhodos, Greece, 13-15 Sep. 2009
 60. Linardaki Z., Ferlemi A.V. & **Margarity M.** *Effect of Aluminium and Lead on Learning and Memory Abilities of Adult Mice and their Brain Acetylcholinesterase Activity*. 60^o Meeting of Hellenic Society of Biochemistry and Molecular Biology. Newsletter, Volum 55, pg 142. Athens 20-22 November 2009
 61. Vasilopoulou C., Linardaki Z., Iatrou G., Lamari F.N. & **Margarity M.** *Effect of consumption of Greek Mountain Tea Sideritis Cladestina on Thigmotactic Behavior of the Adult Mice and Acetylcholinesterase Activity of Striatum and Hippocampus*. 60^o Meeting of Hellenic Society of Biochemistry and Molecular Biology. Newsletter, Volum 55, pg 186. Athens 20-22 November 2009.
 62. Βασιλοπούλου Κ., Ιατρού Γ., Λάμαρη Φ.Ν., **Μαργαρίτη Μ.** *Μελέτη της νευροπροστατευτικής δράσης του φυτού Sideritis clandestina subsp. clandestina*. Ετήσια ημερίδα Μεταπτυχιακών Φοιτητών Τμήματος Βιολογίας Παν. Πατρών, Φεβρουάριος 2010.
 63. Βασιλοπούλου Αικ., Λιναρδάκη Ζ., Παπανδρέου Μ.Α., Ιατρού Γ., Λάμαρη Φ.Ν., **Μαργαρίτη Μ** *Αναστολή της συσσωμάτωσης ινιδίων της αμυλοειδικής –β πρωτεΐνης και αντιοξειδωτικές, αγχολυτικές ιδιότητες του Sideritis clandestina subsp. clandestina*. 32ο Επιστημονικό Συνέδριο της Ελληνικής Εταιρείας Βιολογικών Επιστημών, Καρπενήσι σελ. 46-47. 2010,
 64. Vasilopoulou C., Linardaki Z., Papandreou MA., Iatrou G., Lamari F.N. & **Margarity M.** *Inhibitory activity on amyloid-beta aggregation, antioxidant and anxiolytic properties of Sideritis cladestina subsp. Cladestina*. 7th Forum of European Neurosciences, Amsterdam, Holland, FENS Abstr., vol.5, 164.60, 2010.
 65. Ferlemi A. V., Linardaki Z., Protonotarios V., **Margarity M.** *Study of learning and memory performance of adult mice and their brain Acetylcholinesterase activity following lead exposure*. 7th Forum of European Neurosciences, Amsterdam, Holland, FENS Abstr., vol.5, 050.42, 2010 .

66. Papandreou MA, Tsachaki M., Efthimiopoulos S., Cordopatis P., Lamari FN. & **Margarity M.** *Memory Enhancing Effects of Saffron In Adult & Aged Mice are Correlated with the Antioxidant Protection: In Vitro & In Vivo Studies* .35th FEBS Congress, Sweden, July 2010
67. Λιναρδάκη Ζ., Λάμαρη Φ.Ν. & **Μαργαρίτη Μ.** *Νευροπροστατευτικός ρόλος του φυτού Crocus sativus έναντι των επαγόμενων από το αλουμίνιο γνωστικών και βιοχημικών αλλαγών στον εγκέφαλο ενηλίκων μυών.* 7ο Πανελλήνιο Συνέδριο Ελευθέρων Ριζών και Οξειδωτικού Στρες. Σπέτσες, Ιούνιος 2010, σελ. 39.
68. Δ. Αυγουστάτος, Κ. Βασιλοπούλου, Κ. Κωνσταντίνου, **Μ. Μαργαρίτη.** Επίδραση του υποθυρεοειδισμού στη συμπεριφορά και στην αντιοξειδωτική ικανότητα εγκεφαλικών περιοχών ενηλίκων μυών, 7^ο Πανελλήνιο Συνέδριο Ελευθέρων Ριζών και Οξειδωτικού στρες, 10-13 Ιουνίου 2010, Σπέτσες.
69. Τελώνης Α., Κώτσια Ε.Μ., Βασιλοπούλου Κ., Λιναρδάκη Ζ., **Μαργαρίτη Μ.** Επίδραση του καδμίου σε συμπεριφερικούς δείκτες και στο χολινεργικό σύστημα εγκεφαλικών περιοχών ενηλίκων μυών, 7^ο Πανελλήνιο Συνέδριο Ελευθέρων Ριζών και Οξειδωτικού στρες, 10-13 Ιουνίου 2010, Σπέτσες.
70. Vasilopoulou, Z. Linardaki, G. Iatrou, FN Lamari, **M. Margarity.** Effect of consumption of *Sideritis clandestina* subsp. *clandestina* infusion on behavioral & biochemical parameters of adult mice. Meeting "Neuroscience days 2010" of the Hellenic Society of Neuroscience. Pg 81, Athens, 1-2 October, 2010.
71. Kotsia E- M., Telonis A. , Vasilopoulou C, Linardaki Z. , Iatrou G. , **Margarity M.** *Effect of consumption of Hypericum perforatum infusion on behavior and cholinergic system of adult mice after co-administration with cadmium.* Meeting "Neuroscience days 2010" of the Hellenic Society of Neuroscience, Pg 100, October 2010 (**Award in the best poster presentations**).
72. Papandreou MA, Tsachaki M, Efthimiopoulos S, Cordopatis P, Lamari FN & **Margarity M.** *Neuroprotective Effects of Crocus sativus' Constituents* Meeting "Neuroscience days 2010" of the Hellenic Society of Neuroscience pg. 110. Athens, October 2010 (**Award in the best oral presentations**).
73. Papandreou MA, Tsachaki M, Efthimiopoulos S, Cordopatis P, Lamari FN & **Margarity M.** *Neuroprotective Effects of Crocus sativus' Constituents.* 61^o Meeting of Hellenic Society of Biochemistry and Molecular Biology. Pg 29, Alexandroupolis , October 15-17, 2010,
74. Vasilopoulou C., Linaki Z., Constantinou C., **Margarity M** Effect of Hypothyroidism on behavioral parameters and Acetylcholinesterase activity of adult mice brain. 61^o Meeting of Hellenic Society of Biochemistry and Molecular Biology. P94, pg. 32. Alexandroupolis , October 15-17, 2010.
75. Linardaki Z., Lamari F.N., **Margarity M.** *Neurotoxic effects of Aflatoxin B₁ and Aluminium on adult mice brain.* 61^o Meeting of Hellenic Society of Biochemistry and Molecular Biology. P91, Pg 32. Alexandroupolis , October 15-17, 2010.
76. Avgoustatos D., Ferlemi A.B. , **Margarity M.** *Effect of lead on adult mice behavioral parameters and brain acetylcholinesterase activity.* 61^o Meeting of Hellenic Society of Biochemistry and Molecular Biology P92, pg32. Alexandroupolis , October 15-17, 2010.
77. Maga-Nteve Ch.C., Constantinou C., **Margarity M.** and Klapa M.I. *Cortex vs Cerebellum: GC-MS metabolomic analysis reveals differences in their metabolic regulation.* 5th Conference of the Hellenic Society for Computational Biology and Bioinformatics (HSCBB10) Alexandroupolis, 17-19 October 2010.

78. Φ.Ν. Λάμαρη, Γ.Δ. Γερομιχαλός, Μ.Α. Παπανδρέου, Δ.Τ. Τραφαλής, **Μ. Μαργαρίτη**, Α. Παπαγεωργίου, Ζ. Σινάκος *Αναστολή της ακετυλοχολινεστεράσης από την κροκετίνη και άλλα συστατικά του κρόκου Κοζάνης: in vitro και in silico μελέτες μοριακής πρόσδεσης.* 7^ο Πανελλήνιο Ιατρικό-Διεπιστημονικό Συνέδριο Νόσου Alzheimer & Συγγενών Διαταραχών, 16-20 Φεβρουαρίου, 2011, Θεσσαλονίκη
79. Φερλέμη Α.Β., Πρωτονοτάριος Β., Ιατρού Γ., Λάμαρη Φ., **Μαργαρίτη Μ.** *Επίδραση της πόσης του αφειψήματος του φυτού Rosmarinus officinalis στην από το μόλυβδο (Pb) επαγόμενη νευροτοξικότητα.* 8η Ημερίδα Μεταπτυχιακών Φοιτητών του Τμήματος Βιολογίας, Μάρτιος 2011, Πάτρα.
80. Φερλέμη Α.Β., Πρωτονοτάριος Β., Ιατρού Γ., Λάμαρη Φ., **Μαργαρίτη Μ.** *Επίδραση της πόσης του αφειψήματος του φυτού Rosmarinus officinalis στην από το μόλυβδο (Pb) επαγόμενη νευροτοξικότητα* 1η Πανελλήνια Συνάντηση Μεταπτυχιακών Φοιτητών στις Φαρμακευτικές Επιστήμες, 8-9 Απριλίου 2011, Πλάκα, Αθήνα.
81. Μ.Α. Παπανδρέου, Μ. Τσαχάκη, Σ. Ευθυμιόπουλος, Δ. Κλήμη-Ζάκα, **Μ. Μαργαρίτη**, Φ.Ν. Λάμαρη *Διαφορική αντιοξειδωτική & αντι-αμυλοειδική δράση πλούσιου σε πολυφαινόλες εκχυλίσματος άγριων μύρτιλλων: in vitro & in vivo μελέτες,* 12ο Συνέδριο Ιατρικής Χημείας, 12-15 Απριλίου 2011, Πάτρα
82. Αυγουστάτος Δ., Φερλέμη Α.Β., Κοκκόσης Α., Κυριακού Ε.Ι., Τσούμας Δ., Λιναρδάκη Ζ., **Μαργαρίτη Μ.** *Επίδραση του μολύβδου σε συμπεριφερικούς δείκτες ενήλικων αρσενικών και θηλυκών μυών και στην ενεργότητα της ακετυλοχολινεστεράσης εγκεφαλικών τους περιοχών.* 33^ο Πανελλήνιο Συνέδριο της Ελληνικής Εταιρείας Βιολογικών Επιστημών, 19-21 Μαΐου 2011, Έδεσσα, Βιβλίο Πρακτικών Νο.37
83. M. A. Papandreou, M. Tsachaki, S. Efthimiopoulos, D. Klimis-Zacas, **M. Margarity**, F. N. Lamari *Differential Antioxidant & Anti-Amyloid Effects Of A Wild Blueberry Polyphenol-Rich Extract: In Vitro & In Vivo Studies* PSE Conference, Phytochemicals in nutrition and health. September 27-30, 2011, Bari Italy.
84. F.N. Lamari, M. A. Papandreou, A. P. Dimakopoulou, E. Drimtzias, A.-B. Ferlemi, O. Makri, P. Cordopatis, C. Georgakopoulos, **M. Margarity**. *Antioxidant Properties of Saffron against H2O2- & Selenite-Induced Oxidative Stress: in Vitro & in Vivo Studies* PSE Conference, Phytochemicals in nutrition and health. September 27-30, 2011, Bari, Italy.
85. Ferlemi A.V. Lamari F.N., Ιατρού Γ., **Margariti M.** *Effects of Rosmarinus officinalis and Hypericum vesiculosum beverage on cognitive function and acetylcholinesterase activity of adult mice* PSE Conference, Phytochemicals in nutrition and health. September 27-30, 2011, Bari, Italy.
86. Constantinou, Ch.C. Maga-Deve, C.G. Vasilopoulou, **M. Margarity**, M.I. Klapa *Cortex vs. Cerebellum under Adult Onset Hypothyroidism: Metabolic Analysis of a Mouse Model Reveals Significant Differences* 25ο Συνέδριο Ελληνικής Εταιρείας Νευροεπιστημών 25-26 Νοεμβρίου 2011, Πάτρα, Βιβλίο πρακτικών No 9
87. Vasilopoulou C.G., Kontogianni V.G., Linardaki Z.I., Ιατρού Gr., Lamari F.N., Gerothanassis I.P., Tzakos A.G., **Margarity M.** *Phytochemical composition of "mountain tea" from Sideritis clandestina subsp. clandestina and evaluation of behavioural and cerebral biochemical parameters in adult mice following tea*

- consumption*. 25th Hellenic Society for Neuroscience Meeting, Abstract No 53. 25-26 Nov. Patras 2011.
88. G.D. Geromichalos, F.N. Lamari, M.A. Papandreou, D.T. Trafalis, **M. Margarity**, A. Papageorgiou, Z. Sinakos. *Inhibition of Acetylcholinesterase by Saffron Constituents: Molecular Docking & In Vitro Studies* 25th Hellenic Society for Neuroscience Meeting, 25-26 Nov. Patras 2011.
89. Linardaki Z, Lamari FN, **Margarity M.** *Investigation of neuroprotective role of saffron against aluminium-induced cognitive and brain cholinergic/monoaminergic deficits in adult mice*. 62ο Πανελλήνιο Συνέδριο Ελληνικής Εταιρείας Βιοχημείας & Μοριακής Βιολογίας, Αθήνα 2011, P49, σελ. 136.
90. Αυγουστάτος Δ., Ιατρού Γρ., Λάμαρη Φ., **Μαργαρίτη Μ.** *Μελέτη της επίδρασης αφεψήματος κρόκου στην από το μόλυβδο επαγόμενη νευροτοξικότητα σε σχέση με συμπεριφορικές παραμέτρους ενηλίκων αρσενικών μυών και βιοχημικούς δείκτες των εγκεφαλικών τους περιοχών*. 9η Ημερίδα Μεταπτυχιακών Φοιτητών του Τμήματος Βιολογίας, Πάτρα, 2012.
91. Mitropoulou A., Ferlemi A.-V., Makri O., Georgakopoulos K., **Margarity M.**, Lamari F. *Brain region-specific protection of developing rats against selenium induced-oxidative stress with saffron extract* 13ο Συνέδριο Ιατρικής Χημείας: Σχεδιασμός και Ανάπτυξη Φαρμακευτικών Προϊόντων & 1ο FP7-SEEDRUG Workshop, Πάτρα 9-10 Μαΐου 2012
92. Μητροπούλου Α., Φερλέμη Α.-Β., Μακρή Ο., Γεωργακόπουλος Κ., **Μαργαρίτη Μ.**, Λάμαρη Φ. *Επίδραση εκχυλίσματος κρόκου στην οξειδωτική κατάσταση εγκεφαλικών περιοχών αναπτυσσομένων επίμυων μετά από επαγωγή οξειδωτικού στρες* 1ο Συνέδριο Φαρμακευτικών Επιστημών: από την έρευνα στην κοινωνία, Αθήνα 27-30 Απριλίου 2012
93. Ch. C. Maga-Nteve, C.G. Vasilopoulou, C. Constantinou, **M. Margarity**, M. Klapa *Cortex vs. Cerebellum under Adult Onset Hypothyroidism: Metabolomic Analysis of a Mouse Model Reveals Significant Differences* 7th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries 27 April-1 May 2012, Corfu
94. Κοκκόσης Δ., Κούλη Α., Αυγουστάτος Δ., Λιναρδάκη Ζ., **Μαργαρίτη Μ.** *Μελέτη συμπεριφορικών παραμέτρων θηλυκών μυών και χολινεργικών δεικτών των εγκεφαλικών τους περιοχών μετά απο χορήγηση μολύβδου και παύση χορήγησής του*. 34^ο Πανελλήνιο Συνέδριο της Ελληνικής Εταιρείας Βιολογικών Επιστημών, 17-19 Μαΐου 2012, Τρίκαλα, Βιβλίο Πρακτικών Νο.118
95. Vasilopoulou C.G., Kontogianni V.G., Linardaki Z.I., Iatrou Gr., Lamari F.N., Gerothanassis I.P., Tzakos A.G., **Margarity M.** *Phytochemical composition of "mountain tea" from Sideritis clandestina subsp. clandestina and evaluation of behavioral and biochemical parameters in adult mice following tea consumption*. 8th FENS, Forum of European Neuroscience, 14-18 July 2012, Barcelona
96. Avgoustatos D., Ferlemi A.V., Kokkosis A., Kyriakou E.I., Tsoumas D., Linardaki Z., **Margarity M.** *Effect of Lead on behavioural parameters of adult male and female mice and acetylcholinesterase activity of their brain regions*. 8th FENS, Forum of European Neuroscience, 14-18 July 2012, Barcelona. Presentation Code: 103.18 Abstract Number: 4600.
97. Κοκκόσης Α.Γ., Αυγουστάτος Δ., Φερλέμη Α.Β., Κούλη Α., Κυριακού Ε.Ι., Τσούμας Δ., Λιναρδάκη Ζ., **Μαργαρίτη Μ.** *Μελέτη συμπεριφορικών παραμέτρων και της ενεργότητας ισομορφών της ακετυλοχολινεστεράσης*

εγκεφαλικών περιοχών ενήλικων μυών, 8^ο Πανελλήνιο Συνέδριο Βιοεπιστημόνων, 18-20 Οκτωβρίου 2012, Πάτρα, Βιβλίο Πρακτικών Νο.24

98. Linardaki Z.I., Orkoula M.G., Kokkosis A.G., Koliadima A., Lamari F.N., **Margarity M.** *Investigation of the neuroprotective action of saffron and its crocetin constituent against behavioral and neurochemical disturbances induced by dietary/environmental toxins in adult mice* 26^ο Συνέδριο Ελληνικής Εταιρείας Νευροεπιστημών 2-3 Νοεμβρίου 2012, Αθήνα, Βιβλίο Πρακτικών Νο.70.
99. Kouli A., Kokkosis G.A., Avgoustatos D., Linardaki Z., Constantinou C. and **Margarity M.** *Study of potential recovery of lead-induced disturbances in terms of anxiety/fear and brain AChE activity in adult mice after long-term metal withdrawal* 63^ο Πανελλήνιο Συνέδριο της Ελληνικής Εταιρείας Βιοχημείας και Μοριακής Βιολογίας, 8-11 Νοεμβρίου 2012, Ηράκλειο, Βιβλίο Πρακτικών Νο. 220
100. Vallejo M, Avgoustatos D, Linardaki Z, Ortega G, Cabrera J, Lamari F, **Margarity M**, Agnese M. Effect of *Huperzia saururus* against scopolamine-induced amnesia. 44th Annual Meeting of the Argentine Society of Experimental Pharmacology (SAFE). Mendoza, Argentina, October 31st - November 2nd, 2012.
101. Φερλέμη Αναστασία-Βαρβάρα, Μακρή Όλγα, **Μαργαρίτη Μαριγούλα**, Κωνσταντίνος Γεωργακόπουλος, Λάμαρη Ν. Φωτεινή *Επιπτώσεις στην οξειδωτική κατάσταση των κρυσταλλοειδών φακών & του εγκεφάλου αναπτυσσομένων επίμυων κατά την επαγωγή καταρρακτογένεσης με τη χρήση Na₂SeO₃ και τη συγχορήγηση εκχυλίσματος φύλλων μύρτιλλων* 14ο Συνέδριο Ιατρικής Χημείας: Σχεδιασμός και Ανάπτυξη Φαρμακευτικών Προϊόντων & 2ο FP7-SEEDRUG Workshop, Πάτρα 13-15 Μαΐου 2013
102. Katsikoudi, A.V. Ferlemi, V. G. Kontogianni, A. Kokkosis, G. Iatrou, F. Lamari, A.G. Tzakos, **M. Margarity**. Effects of Rosemary infusion on behavioral parameters of adult mice and on acetylcholinesterase activity on their brain regions. 26th Meeting of the Hellenic Neuroscience, 29 November-1 December 2013, Athens. Abstract Book No. 55
103. A.G. Kokkosis, A. Kouli, E. Flogera, M. Aivalioti, A. Krontira, C. Constantinou, **M. Margarity**. The correlation between the acetylcholinesterase isoforms and behavior after short-term lead intoxication is gender-dependent. 26th Meeting of the Hellenic Neuroscience, 29 November-1 December 2013, Athens. Abstract Book No. 57
104. Kokkosis Alexandros, Constantinou Caterina, **Margarity Marigoula**. The correlation between the cholinergic system and behavior in lead-induced neurotoxicity is brain region-specific. 1st Pan-Hellenic Forum of New Scientists, 5 December 2013, Athens
105. Kokkosis Alexandros, Aivalioti Maria, Kokkinou Vasiliki, Kolliopoulou Alexandra, Krontira Anthi, Constantinou Caterina, **Margarity Marigoula**. A Time-Course study of Lead-induced effects on Acetylcholinesterase activity in adult female mouse brain. 64th Conference of the Hellenic Society of Biochemistry and Molecular Biology, 6-8 December 2013, Athens.

B. Publication in Journals' Supplements

1. **M. Margarity**, M. Veskoukis, N. Matsokis, T. Valcana, C. Miler and P. Timiras. *Changes with Aging in Serum Thyroid Hormone Levels and Thyroid Hormone Binding in Brain Tissue.* In Endocrinology 108,(Suppl.) No1136, 1981.

2. S. Bolaris and **M. Margarity**. *Effects of LiCl on T₃ Binding to Nuclei from Rat Cerebral Hemispheres*. In Neurochemistry International (Suppl.). Vol.21. pg.58, 1992.
3. S. Bolaris, **M. Margarity** and T. Valcana. *Thyroid Hormone Receptors are Modulated by CNS Active Drugs*. In Neuropsychopharmacology (Suppl.) Vol. 9, pg. 297, 1993.
4. A. Papadopoulou , A. Kountoureti, N. Patsoukis C. Anastogiannis, A.D.Spathis, M. Pieri, F. Sagou, G. Zervoudakis, N.T. Panagopoulos, C. Georgiou, N. Matsokis and **M. Margarity**. *Thiol redox state and MonoAmino- Oxidase (MAO-A and MAO-B) activities in corpus striatum and other brain areas of weaver and hypothyroid mice*. In Free Radical Research. (Suppl. No Vol.37, pg 83 ,No PP69, 2003
5. C. Constantinou, **M. Margarity**, T. Valcana, (2004) *Short-time of LiCl treatment affects the molecular mechanism of action of thyroid hormones without affecting the intracellular levels of T₃ in adult rat cerebral hemispheres*. *29th FEBS Congress* (P1.2-37), *European Journal of Biochemistry*, **12**, pp 261.
6. Kasselimis D.S., **Margarity M.**, Vlachos F. *The relation of dyslexia to cerebellar function and articulation speed* . 2nd International Congress on Brain and Behaviour, Thessaloniki, November, 2005. *J. Analls of General Psychiatry*, 5(suppl 1), S160, 2006. **Poster Award, in the ten best posters.**
7. Bostantjopoulou S., Spathis A.D., Luchini A., Dolcetti L., Chatzizisi O., Gerasimou G., Mandruzzato S., Bicciato S., Klapa, M.I., **Margarity, M.** *From medical to biological informatics: Searching for diagnostic markers in Parkinson's disease patients' lymphocytes using transcriptomics*. 10th International Congress of The Movement Disorder Society, Kyoto, Japan, 28 Oct. - 2 Nov. *Movement Disorders*, Vol. 21: Suppl. 15, pg. S548, No P805, 2006.
8. Constantinou C., Chrysanthopoulos P., **Margarity M.**, Klapa M.I. *Identifying the Effects of Adult-Onset Hypothyroidism on Mouse Cerebral Cortex Using Quantitative Gas-Chromatography-Mass Spectrometry Metabolomics*. *33rd FEBS Congress, IUBMB Conference* (PP7A-16) Athens, Greece, June 28th-July 3rd, *The FEBS Journal* **275** (supl. 1), pp:303, 2008
9. Linardaki, Z., Papandreou, M.A., Iatrou, G., Lamari, F.N., **Margarity, M.** *Antioxidant response of brain regions in adult mice after daily consumption of herbal tea from Sideritis clandestine* 7th Joint Meeting of GA, AFERP, ASP, PSE & SIF, Athens, Greece, August 2008 published in *Planta Medica*, 74: 999
10. Papandreou, M.A., Dimakopoulou, A., Cordopatis, P., Klimis-Zacas, D., Margarity, M., Lamari *Effect of a polyphenol rich blueberry extract on cognitive performance of mice; Concomitant changes of brain antioxidant markers and acetylcholinesterase* 7th Joint Meeting of GA, AFERP, ASP, PSE & SIF, Athens, Greece, August 2008, F.N. published in *Planta Medica*, 74: 1186
11. M. Papandreou, M. Tsachaki, S. Efthimiopoulos, P. Cordopatis, F. Lamari, **M. Margarity**. *Memory enhancing effects of saffron in adult & aged mice are correlated with the antioxidant protection: In vitro and in vivo studies*. 35th FEBS Congress Molecules of Life, Gothenburg, Sweden, June 26-July 1, 2010, published in *FEBS Journal*, vol. 277(Suppl.1): 37.
12. D. Avgoustatos and **M. Margarity** , *Effect of lead on anxiety and acetylcholinesterase activity of specific brain regions in adult mice*, 36th FEBS Congress,, Torino, Italy, June 25-30, 2011 published in *FEBS Journal*, vol. 278(Suppl.1): P14.6 pg 258

C. Publications - peer-reviewed

1. **M. Margarity**, N. Matsokis and T. Valcana. *Characterization of Nuclear Triiodothyronine (T_3) and Tetraiodothyronine (T_4) Binding in Developing Brain Tissue.* **Mol. Cell. Endocrinol.** 31, 333-351, 1983.
IF: 4,03, EA: 1
2. **M. Margarity**, T. Valcana and P. S. Timiras. *Thyroxine Deiodination, Cytoplasmic Distribution and Nuclear Binding of Thyroxine and Triiodothyronine in Liver and Brain of Young and Aged Rats.* **Mech. Ageing and Develop.** 29,181-189,1985.
IF: 3,269, EA: 3
3. S. Bolaris, **M. Margarity** and T. Valcana. *Effects of LiCl on T_3 Binding to Nuclei from Rat Cerebral Hemispheres.* **Biological Psychiatry** 37,106-111,1995.
IF: 9,247, EA: 14
4. **M. Margarity** and T. Valcana. *Effect of Cold Exposure on Thyroid Hormone Metabolism and Nuclear Binding in Rat Brain.* **Neurochem.Res.** 24(3), 423-426, 1999.
IF: 2,125, EA: 1
5. Bolaris S., Constantinou C., Valcana T., **Margarity M.** (2005). *Pentylenetetrazole-induced convulsions affect cellular and molecular parameters of the mechanism of action of triiodothyronine in adult rat brain.* **Neuropharmacology**, 48: 894-902.
IF: 4,114, EA: 4
6. Constantinou C., Bolaris S., Valcana T., **Margarity M.** (2005). *Diazepam affects the nuclear thyroid hormone receptor density and their expression levels in adult rat brain.* **Neuroscience Research**, 52: 269-275.
IF: 2,249, EA: 3
7. Constantinou C., Bolaris S., Valcana T., **Margarity M.** (2005). *Acute LiCl treatment affects the cytoplasmic T_4 availability and the expression pattern of thyroid hormone receptors in adult rat cerebral hemispheres.* **Neuroscience Research**, 51: 235-241.
IF: 2,249, EA: 4
8. Bolaris S., Constantinou C., Valcana T., **Margarity M.** (2005). *The effect of Chloral Hydrate on the in vitro T_3 binding to adult rat cerebral nuclei.* **Journal of Pharmacy and Pharmacology**, 57: 1011-1017.
IF: 2,033
9. Constantinou C., **Margarity M.**, Valcana,T. (2005). *Region – specific effects of hypothyroidism on the relative expression of thyroid hormone receptors in adult rat brain.* **Molecular and Cellular Biochemistry**, 278: 93-100.
IF: 2,329, EA: 23

10. Papandreou M.A., Kanakis C.D., Polyssiou M.G., Efthimiopoulos S., Cordopatis P., **Margarity M.**, Lamari F.N. (2006). *Inhibitory activity on amyloid- β aggregation and antioxidant properties of Crocus sativus stigmas extract and its crocin constituents.* **Journal of Agricultural and Food Chemistry**, 54: 8762- 8768.

IF: 2,906, EA: 63

11. Kasselimis D.S., **Margarity M.**, Vlachos F. *Cerebellar Function, Dyslexia and Articulation Speed.* *Child Neuropsychol.* **12**: 1-11, 2007.

IF: 2,243, EA: 2

12. Papandreou M.A., Dimakopoulou A., Linardaki, Z.I. Cordopatis P., Klimis-Zacas D., **M. Margarity**, F.N. Lamari. Effect of a polyphenol-rich wild blueberry extract on cognitive performance of mice, brain antioxidant markers and acetylcholinesterase activity. *Behavioural Brain Research.* 198: 352–358, 2009.

IF: 3,22, EA: 50

13. Constantinou C., Chrysanthopoulos P., **Margarity M.**, Klapa M.I. Metabolomic analysis of long- term adult on-set hypothyroidism effects on mouse cerebral cortex *J. Proteomic Res.* 10(2):869-79, 2011.

IF: 5,056, EA: 5

14. Papandreou M.A., Tsachaki M., Efthimiopoulos S., Cordopatis P., Lamari F.N., **Margarity M.** Memory Enhancing Effects of Saffron in Aged Mice are Correlated with Antioxidant Protection. *In Behavioural Brain Research*, 219:197- 204, 2011.

IF: 3,22, E.A.: 16

15. Linardaki Z., Vasilopoulou C., Iatrou G., Lamari F.N., **Margarity M.** *Differential Antioxidant Effects of Consuming Tea From Sideritis clandestina subsp. peloponnesiaca on Cerebral Regions of Adult Mice.* *Journal of Medicinal Food* (2011) 14(9): 1060-1064

IF: 1,39, E.A.: 1

16. M. Papandreou, M. Tsachaki, S. Efthimiopoulos, D. Klimis-Zacas, **M. Margarity**, F.N. Lamari. *Cell-Line Specific Protection by Berry Polyphenols Against Hydrogen Peroxide Challenge and Lack of Effect on Metabolism of Amyloid Precursor Protein* *Phytotherapy Research* (2012) 26(7): 956-963

IF: 2,068

17. C.G. Vasilopoulou, V.G. Kontogianni, Z.I. Linardaki, G. Iatrou, F.N. Lamari, A.A. Nerantzaki, I.P. Gerothanassis, A.G. Tzacos, **M. Margarity** *Phytochemical composition of "mountain tea" from Sideritis clandestina subsp. clandestina and evaluation of its behavioral and oxidant/antioxidant effects on adult mice.* *European Journal of Nutrition* (2013) 52(1): 107-16.

IF: 2,75, E.A.: 1

18. Geromichalos GD*, Lamari FN*, Papandreou MA, Trafalis DT, **Margarity M**, Papageorgiou A, Sinakos Z. *Saffron as a source of novel acetylcholinesterase inhibitors: molecular docking and in vitro enzymatic studies.* *Journal of Agricultural and Food Chemistry* (2012) 60(24):6131-8

IF: 2,906, E.A.: 7

19. Linardaki ZI, Orkoula MG, Kokkosis AG, Lamari FN, **Margarity M.** *Investigation of the neuroprotective action of saffron (Crocus sativus L.) in aluminium-exposed adult mice through behavioral and neurobiochemical assessment.* **Food & Chemical Toxicology** (2013) 52: 163-170.

IF: 2,99, E.A.:1

REVIEWER OF SCIENTIFIC PAPERS

1. Hellenic Journal of Psychology
2. Life Sciences
3. Hormone Research
4. Peptide
5. Journal of the Neurological Sciences

SOCIAL CONTRIBUTIONS

Lecturing common public, cultural committees, organization of conferences in Primary Schools and High Schools related to scientific subjects, like healthy nutrition, side-effects of smoking) (member of the anti-smoking committee of Patras), structural and functional properties of the brain (organizing annual school conferences, 2007-2013, Brain awareness Week) and participation in the actions of the University of Patras: interaction of the University with the local pupils and citizens (2008-2009) and "The Schools go to the University" (2010 -2013).