



**NATIONAL HELLENIC RESEARCH FOUNDATION**  
**INSTITUTE OF ORGANIC AND PHARMACEUTICAL CHEMISTRY**  
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**EDUCATION**

**B.S.** 1983, (in Chemistry) National University of Athens, Greece.

**Ph.D.** 1988, University of Geneva, Pharmacy Department, Switzerland  
"Design and synthesis of spin labeled analogues of oligosaccharides and nucleosides"

**EMPLOYMENT**

1983-1988 Teaching Assistant University of Geneva, Switzerland.

1989-2002 Researcher, Institute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation, (IOPC/NHRF) Athens.

2002-2007 Senior Researcher at the IOPC/NHRF Athens  
2007- Research Director at the IOPC/NHRF Athens

## FELLOWSHIPS

8/1986        Societé Académique de Genève  
7-12/ 1991   Fulbright Research Award, University of Connecticut

## RESEARCH EXPERIENCE

Research interests are focused on the design and synthesis of *heterocyclic molecules with pharmacological activity*.

In particular:

- a) Benzopyran analogues bearing antiarrhythmic pharmacophores,
- b) Lipoic acid/chroman conjugates possessing cardioprotective activity,
- c) Purine and adenosine analogues bearing nitrate esters, as triggers of ischemic preconditioning *in vivo*,
- e) Benzopyran and 1,2-dithiolane analogues bearing heterocyclic five-membered rings, such as 1,2,4-oxadiazole 1,3,4-oxadiazole, 1,2,3-triazole, tetrazole and isoxazole. These heterocycles are potential pharmacophores and have been utilized as ester or amide bioisosteres in the search for compounds with superior pharmacokinetic profiles

Research activities also involve the synthesis of *tropolone* and *catechol* derivatives possessing antioxidant and iron chelating properties, active against glutamate neurotoxicity and oxidative stress induced cellular DNA damage, as well as the solid phase synthesis of 2-substituted chromans

## TEACHING EXPERIENCE

1983-1988 Teaching Assistant at the Department of Pharmaceutical Chemistry, University of Geneva, and trainer of technical personnel.

11/1999        Invited speaker at the post graduate program of the University of Athens School of Medicine. Title: "The role of free radicals in pathological conditions and specifically in myocardial ischemia-reperfusion".

2001-2002 Co-supervisor of 3 diploma students (National Technical University Athens)

1993-2009 Supervisor of 2 post-graduate, 5 MSc, 3 PhD and 1 post doctoral fellows (IOPC).

## OTHER ACTIVITIES

1993-1998 Member of the board of Greek Chemical Society, Pharmaceutical Chemistry Division

2004- Vice President of the board of Greek Chemical Society, Organic and Pharmaceutical Chemistry Division

1994-2000 Member of the board of Fulbright alumni

1993-2008 Member of the Organizing Committee of 13 Greek and 5 International Symposia

2002-2003 Guest Editor of *Current Topics in Medicinal Chemistry* (Bentham Science Publishers Ltd. USA) Title of the issue: "Therapeutic strategies against HIV infection" (vol.3, no 13, 2003)

2005- Member of Editorial Advisory Board of *Current Topics in Medicinal Chemistry*

## FUNDING

- *KESY* (1993-95). "Synthesis and biological activity of new tamoxifen analogues"
- *PENED 99 181* (2000-01) "Development of novel biochemical methods for the evaluation of compounds possessing antioxidant properties".
- *Excellence in the Research Institutes* (2002-05) "Novel strategies against neurodegeneration"
- *COST D13/0019/01* (2001-04) "Novel molecules, Forms and Strategies for treatment of Leishmanial Infections"
- *Univ. Connecticut PSA No 2328* (1998-99) "Novel antiarrhythmics and anticancer ether lipids"
- *Univ. Connecticut PSA No 3324* (2001-02) "Biologically active ether phospholipids"
- *Univ. Connecticut PSA No 3680* (2002-03) "Novel Antioxidants"
- *Univ. Connecticut PSA No 4505* (2004-05) "Novel Antioxidants and Bioactive ether phospholipids"
- *GSRT programme Location and use of research results by the creation of new enterprises (Spin-off, 2003-05)* "New ether phospholipids as ultrasound contrast agents"
- *Operational Programme for Competitiveness, GSRT YB/39* (2004-07). "Therapeutic

Interventions Against Protozoan Infections”.

- *Bilateral Collaboration of Greece–Hungary* (2003-06). “Synthesis of novel antiarrhythmics and study of their electrophysiological effects”.
- *Northeastern Univ., Center for Drug Discovery* (2006-07) “Synthesis of tropolone derivatives”
- *EU MARIE CURIE EARLY STAGE TRAINING (EST)*, (2006-10) “A European Research Training Site for the Design and Synthesis of Novel Neuroprotective and Hypoglycaemic Agents through a Multi-disciplinary approach.”
- *HELLENIC SOCIETY OF CARDIOLOGY (2007-10)* 'Synthesis of nicorandil and adenosine derivatives as triggers of pharmacological preconditioning.”
- REGPOT-2009-1/ARCADE 245866 (2010-2013)
- *HELLENIC SOCIETY OF CARDIOLOGY (2010-12)* 'Development of agents mimicking postconditioning. “

## **PUBLICATIONS**

1. Tronchet J. M. J., Bizzozero N., **Koufaki M.**, Habashi F., Geoffroy M. Analogs of blocked disaccharides bearing a N-hydroxyimino bridge and nitroxyl free radicals thereof. *J. Chem. Research* **1989** (M) 2601 *J. Chem. Research* **1989** (S) 334
2. Tronchet J. M. J., **Koufaki M.**, Zosimo- Ladolfo G. Spacer arms bearing two N-hydroxyimino groups and nitroxyl free radicals thereof. *Carbohydr. Res.* **1991** 209 299
3. Tronchet J. M. J., **Koufaki M.**, Zosimo- Ladolfo G., Bernardinelli G. Spiro naphthoxazine derivatives of furanose sugars. *J. Chem. Research* **1992** (M) 2501, *J. Chem. Research* **1992** (S) 293
4. Calogeropoulou T., **Koufaki M.**, Tsotinis A., Balzarini J., De Clercq E., Makriyannis A. Synthesis and anti-HIV evaluation of alkyl and alkoxyethyl phosphodiester AZT derivatives. *Antiv. Chem. Chemother.* **1995**, 6, 43-49.
5. Tsotinis A., Calogeropoulou T., **Koufaki M.**, Souli Ch., Balzarini J., De Clercq E., Makriyannis A. Synthesis and Antiretroviral Evaluation of New Alkoxy and Aryloxy Phosphate Derivatives of AZT. *J. Med. Chem.* **1996**, 39, 3418-3422.

6. **Koufaki M.\***, Calogeropoulou T., Mavromoustakos T., Theodoropoulou E., Tsotinis A., Makriyannis A. Synthesis of  $^2\text{H}$ -Labelled Alkoxyethyl Phosphodiester AZT Derivatives for Solid-State  $^2\text{H}$ -NMR Studies. *J. Het. Chem.* **1996**, *33*, 619-622.
7. **Koufaki M.**, Polychroniou V., Calogeropoulou T., Tsotinis A., Drees M., Fiebig H.H., Le Clerc S., Hendriks H.R., Makriyannis A. Alkyl and alkoxyethyl antineoplastic phospholipids. *J. Med. chem.* **1996**, *39*, 2609-2614
8. Mavromoustakos T., Theodoropoulou E., Yang D. P., Lin S. Y., **Koufaki M.**, Makriyannis A. The conformational properties of the antineoplastic ether lipid 1- thiohexyl-2-O-methyl-S-glycero-3-phosphocholine. *Chem. Phys. Lipids* **1996**, *84*, 21-34
9. Tronchet J. M. J., **Koufaki M.**, Barbalat F., Geoffroy M. Blocked Sugar Analogues Bearing two or three N(sp<sup>3</sup>)-O Bonds. *Carbohydr. Lett.* **1999**, *3*, 255-262
10. Mavromoustakos T., Calogeropoulou T., **Koufaki M.**, Kolocouris A., Demetzos K., Meng Z., Makriyannis A., Balzarini J., De Clercq E. Ether phospholipid-AZT conjugates possessing anti-HIV and anti-tumor cell activity. Synthesis, conformational analysis and study of their thermal effects on membrane bilayers. *J. Med. Chem.* **2001**, *44*, 1702-1709
11. **Koufaki M.\***, Calogeropoulou T., Detsi A., Roditis A., Kourounakis A., Papazafiri P., Tsiakitzis K., Gaitanaki C., Beis I., Kourounakis P. Novel potent inhibitors of lipid peroxidation with protective effects against reperfusion arrhythmias. *J. Med. Chem.* **2001**, *44*, 4300-4303
12. Detsi A., **Koufaki M.**, Calogeropoulou T. Synthesis of (*Z*)-4-hydroxytamoxifen and (*Z*)-2-(4-[1-(*p*-hydroxyphenyl)-2-phenyl]-1-butenyl)phenoxyacetic acid. *J. Org. Chem.* **2002**, *67*, 4608-4611
13. Avlonitis N., Lekka E., Detsi A., **Koufaki M.**, Calogeropoulou T., Skoulica E., Siapi E., Kyrikou I., Mavromoustakos T., Tsotinis A., Golic Grdadolnik S., Makriyannis A. Antileishmanial Ring-Substituted Ether Phospholipids. *J. Med. Chem.* **2003**, *46*, 755-767
14. **Koufaki M.\***, Calogeropoulou T., Rekka E., Chryselis M., Papazafiri P., Gaitanaki C., Makriyannis A. Bifunctional Agents for Reperfusion Arrhythmias. Novel Hybrid Vitamin E/Class I Antiarrhythmics. *Bioorg. Med. Chem.* **2003**, *11*, 5209-5219

15. **Koufaki M.\***, Detsi A., Theodorou E., Kiziridi C., Calogeropoulou T., Vassilopoulos A., Kourounakis A., Rekka E., Kourounakis P., Gaitanaki C., Papazafiri P. Synthesis of Chroman Analogues of Lipoic Acid and Evaluation of their Activity against Reperfusion Arrhythmias. *Bioorg. Med. Chem.* **2004**, *12*, 4835-4841
16. Papazafiri P., Avlonitis N., Angelou A., Calogeropoulou T., **Koufaki M.**, Scoulica E., Fragiadaki I. Structure-activity relationships of antineoplastic ring-substituted ether phospholipid derivatives. *Cancer Chemother. Pharmacol.* **2005**, *56*, 261-270
17. **Koufaki M.\***, Theodorou E., Galaris D., Nouis L., Katsanou E. S, Alexis M.N. Chroman catechol hybrids: Synthesis and evaluation of their activity against oxidative stress induced cellular damage. *J. Med. Chem.* **2006**, *49*, 300-306
18. **Koufaki M.\***, Kiziridi C., Papazafiri P., Vassilopoulos A., Varró A., Nagy Z., Farkas A., Makriyannis A. Synthesis and biological evaluation of benzopyran analogues bearing class III antiarrhythmic pharmacophores. *Bioorg. Med. Chem.* **2006**, *14*, 6666-6678
19. Detsi A, Bouloubasi D., Prousis K.C., **Koufaki M.**, Athanasellis G., Melagraki G., Afantitis A., Igglessi-Markopoulou O., Kontogiorgis C., Hadjipavlou-Litina D. J. Design and synthesis of novel quinolinone-3-aminoamides and their  $\alpha$ -lipoic acid adducts as antioxidant and anti-inflammatory agents. *J. Med. Chem.* **2007**, *50*, 2450-2458
20. Kapou A., Avlonitis N., Detsi A., **Koufaki M.**, Calogeropoulou T., Benetis N. P., Nikolaropoulos S. Mavromoustakos T. CoMFA and CoMSIA 3DQuantitative Structure-Activity Relationships of New Flexible Antileishmanial Ether Phospholipids. *Bioorg. Med. Chem.* **2007**, *15*, 1252-1265
21. **Koufaki M.\***, Kiziridi C., Nikoloudaki F., Alexis M.N. Design and synthesis of 1,2-dithiolane derivatives and evaluation of their neuroprotective activity. *Bioorg. Med. Chem. Lett.*, **2007**, *17*, 4223-4227
22. Andreadou I., Fotopoulou T., **Koufaki M.**, Tsotinis A., Zoga A., Gizas V., Iliodromitis E., Kremastinos T. D. Novel pharmacological compounds as triggers of ischemic preconditioning in vivo. *J. Mol. Cell. Cardiol.* **2007**, *42*, Suppl 1, S178

23. Fotopoulou T., Iliodromitis E. K., **Koufaki M.\***, Tsotinis A., Zoga A., Gizas V., Pyriochou A., Papapetropoulos A., Andreadou I.\*, Kremastinos D. Th. Design and synthesis of nitrate esters of aromatic heterocyclic compounds as pharmacological preconditioning agents. *Bioorg. Med. Chem.*, **2008**, 16, 4523-4531
24. Koini E.N., Papazafiri P., Vassilopoulos A., **Koufaki M.**, Horváth Z., Koncz I., Virág L., Papp G.J., Varró A., Calogeropoulou T. 5,7,8-trimethyl-benzopyran and 5,7,8-trimethyl-1,4-benzoxazine aminoamide derivatives as novel antiarrhythmics against ischemia-reperfusion injury. *J. Med. Chem.* **2009**, 52, 2328-2340
- 25.** Melagraki G., Afantitis A., Igglessi-Markopoulou O., Detsi A., **Koufaki M.**, Kontogiorgis C., Hadjipavlou-Litina D.J. Synthesis and evaluation of the antioxidant and anti-inflammatory activity of novel coumarin-3-aminoamides and their alpha-lipoic acid adducts. *Eur. J. Med. Chem.* **2009**, 44, 3020-3026
26. **Koufaki M.\***, Kiziridi C., Alexi X., Alexis M.N. Design and synthesis of novel neuroprotective 1,2-dithiolane/chroman hybrids. *Bioorg. Med. Chem.*, **2009**, 17, 6432-6441
27. **Koufaki M.\***, Theodorou E., Alexi X., Nikoloudaki F., Alexis M.N. Synthesis of tropolone derivatives and evaluation of their *in vitro* neuroprotective activity. *Eur. J. Med. Chem.* **2010**, 45, 1107-1112.
28. **Koufaki M.\***, Theodorou E., Alexi X., Alexis M.N. Synthesis of a second generation chroman/catechol hybrids and evaluation of their activity in protecting neuronal cells from oxidative stress-induced cell death. *Bioorg. Med. Chem.*, **2010**, 18, 3898-3909

## REVIEWS

1. Buchholzer F. J., **Koufaki M.**, Tronchet J. M. J. La spectrométrie de masse: Une excellente méthode quantitative très utile en pharmacologie. *Epitheor. Klin. Pharmacol. Farmakokinet. Int. Ed.* **1987**, 1, 119
2. **Koufaki M.**, Buchholzer F. J. Les liposomes comme transporteurs de médicaments *Epitheor. Klin. Pharmacol. Farmakokinet. Int. Ed.* **1990**, 4, 12-23

3. Calogeropoulou T., Detsi A., Lekkas E, **Koufaki M.** Strategies in the design of prodrugs of anti HIV agents. *Curr. Top. Med. Chem.*, **2003**, *3*, 1467-1495
4. Andreadou I., **Koufaki M.**, Iliodromitis E., Kremastinos T. D. Pharmacological pre- and post- conditioning agents: reperfusion-injury of the heart revisited. *Mini Rev. Med. Chem.*, **2008**, *8*, 952-959
5. Andreadou I., Iliodromitis E.K., Farmakis D., **Koufaki M.**, Tsotinis A., Kremastinos D.Th. Alternative pharmacological interventions that limit myocardial infarction *Curr. Med. Chem.*, **2008**, *15*, 3204-3213.
6. **Koufaki M.\***, Detsi A.; Kiziridi C. Multifunctional lipoic acid conjugates. *Curr. Med. Chem.* **2009**, *16*, 4728-4742

## **PATENTS**

**Maria Koufaki**, Theodora Calogeropoulou, Alexandros Makriyannis. Applicant: UNI-PHARMA SA "Bifunctional agents possessing antioxidant and antiarrhythmic activity" **WO 0204438**, 1-2002. **US2004259763**, **CA2415523**, **EP1301504**, **DE60106922T**, **ES231514T**

2. Theodora Calogeropoulou, **Maria Koufaki**, Nikolaos Avlonitis, Alexandros Makriyannis "Antiprotozoal ring-substituted phospholipids" **US2003/34225**, **WO 2004041167**, **CN1742017**, **CA2503058**, **AU2003285071**, **EP1578754**, **US2006105998**

3. **GR20050100100 (2/3/05)** «Ultrasound contrast agents containing anticancer ether phospholipids" Inventors: Theodora Calogeropoulou, **Maria Koufaki**

## **CHAPTER IN BOOK**

**Maria Koufaki** and Anastasia Detsi. Design and Synthesis of Antioxidant  $\alpha$ -Lipoic Acid Hybrids. Advanced Protocols for Oxidative Stress II Series: *Methods in Molecular Biology*, Vol. 594, Armstrong, Donald (Ed.) **2010**, p. 297-309

## PRESENTATIONS IN INTERNATIONAL SYMPOSIA

1. Tronchet J. M. J., Benhamza R., **Koufaki M.**, Dolatshahi N., Geoffroy M. "Spin-Labeled Nucleoside Analogs. Synthesis, Spectroscopy and chemotherapeutic Properties". XIII<sup>th</sup> International Carbohydrate Symposium Ithaca N. Y., USA, August 1986
2. Tronchet J. M. J., **Koufaki M.**, Baehler B., Buchholzer F.J., Jorand C., Geoffroy M. "Spin-Labeled Analogs of Glycopeptides, Glycolipids and Oligosaccharide Derivatives". XIII<sup>th</sup> International Carbohydrate Symposium Ithaca N. Y., USA, August 1986
3. Tronchet J. M. J., **Koufaki M.**, Buchholzer F.J., Schoechlin M., Kamatari A., Geoffroy M. "Novel Nucleoside, Glycopeptide and Oligosaccharide Spin-Labeled Analogs". 4<sup>th</sup> European Carbohydrate Symposium Darmstadt, Germany, July 1987
4. **Koufaki M.**, Polychroniou V., Calogeropoulou T., Tsotinis A., Hendriks H.R., Makriyannis A. "Synthesis of Alkyl- and Alkoxyethyl Phospholipids and Evaluation of their Antineoplastic Activity". 4<sup>th</sup> Conference in advanced Medicinal Chemistry, Thessaloniki, Greece, May 1995
5. **Koufaki M.**, Polychroniou V., Calogeropoulou T., Tsotinis A., Drees M., Fiebig, H.H Le Clerc S., Hendriks H.R., Mavromoustakos T., Theodoropoulou E., Makriyannis, A. "Alkyl and alkoxyethyl antineoplastic phospholipids. Synthesis, biological activity and their interactions with membranes" XIV<sup>th</sup> International Symposium on Medicinal Chemistry, Maastricht, the Netherlands, September, 1996.
6. Calogeropoulou T., **Koufaki M.**, Polychroniou V., Tsotinis A., Sekeris C., Makriyannis A. "Synthesis and biological evaluation of phosphotriester analogs of *trans*-hydroxytamoxifen". XIV<sup>th</sup> International Symposium on Medicinal Chemistry, Maastricht, the Netherlands, September, 1996.
7. **Koufaki M.**, Calogeropoulou T., Tsotinis A., Balzarini J., De Clerq E., Makriyannis A. "Alkoxy and aryloxy phosphodiester derivatives of AZT". XIV<sup>th</sup> International Symposium on Medicinal Chemistry, Maastricht, the Netherlands, September, 1996.
8. **Koufaki M.**, Calogeropoulou T., Rekka E., Kourounakis P., Makriyannis A. "Potential

antiarrhythmic agents possessing antioxidant activity". 5<sup>th</sup> Conference in advanced Medicinal Chemistry, Thessaloniki, Greece, May, 1997

9. **Koufaki M.**, Calogeropoulou T., Rekka E., Kourounakis P., Makriyannis A. "Novel antioxidants with potential antiarrhythmic activity". XV<sup>th</sup> International Symposium on Medicinal Chemistry, Edimburg, Scotland, September 1998

10. **Koufaki M.**, Calogeropoulou T., Rekka E., Kourounakis P., Makriyannis A. "Novel antioxidants with potential antiarrhythmic activity". COST kick-off meeting, New Molecules Towards Human Health Care, The Netherlands, March 1999

11. **Koufaki M.**, Calogeropoulou T., Detsi A., Polychroniou V., Tsotinis A., Hendriks H.R., Dherbomez M., El kihel L., Letourneux Y., Makriyannis, A. "Bioactive Ether Lipids. Synthesis and biological activity" 8<sup>th</sup> Cyprus Conference on new methods in drug research, Limassol, Cyprus, April 1999

12. **Koufaki M.**, Calogeropoulou T., Detsi A., Polychroniou V., Tsotinis A., Hendriks H.R., Dherbomez M., El kihel L., Letourneux Y., Makriyannis, A. "Synthesis and biological activity of novel ether lipids" Lipases and lipids: Structure, function and biotechnological applications. Santorini, Greece, May 1999

13. **Koufaki M.**, Calogeropoulou T., Kourounakis P., Tsiakitzis K., Kourounakis A., Jacobs R. "Novel antioxidants possessing anti-inflammatory activity". 6<sup>th</sup> Conference in advanced Medicinal Chemistry, Thessaloniki, Greece, May 1999

14. **Koufaki M.**, Calogeropoulou T., Detsi A., Kourounakis P., Tsiakitzis K., Kourounakis A., Jacobs R. "Bifunctional agents possessing antioxidant and anti-inflammatory activity". International conference on oxidative stress in skin biology and medicine, Kapandriti, Greece, September 1999

15. Theodoropoulou E., Marsh D., **Koufaki M.**, Matsoukas J. "Effect of losartan on phosphatidylcholine membranes: comparison with a less biologically active molecule". 3<sup>rd</sup> International Symposium on Angiotensin II Antagonism, London, UK, February 2000

16. **Koufaki M.**, Calogeropoulou T., Detsi A., Kourounakis P., Rekka E., Chrysselis M.,

Papazafiri P., Tseti J., Makriyannis A. "Agents combining antioxidant and antiarrhythmic activity" 3<sup>rd</sup> World Meeting on Pharmaceutics, Biopharmaceutics and pharmaceutical technology, Berlin, Germany, April 2000

17. **Koufaki M.**, Calogeropoulou T., Detsi A., Roditis A., Kourounakis A., Tsiakitzis K., Kourounakis P., Doulias P.T., Galaris D. "Synthesis and biological evaluation of novel antioxidants". A meeting of The Society for Free Radical Research (Europe). Liverpool, UK, July 2000.

18. **Koufaki M.**, Calogeropoulou T., Detsi A., Roditis A., Kourounakis A., Tsiakitzis, K., Kourounakis, P. "Novel highly potent antioxidants" XVI<sup>th</sup> International Symposium on Medicinal Chemistry, Bologna, Italy, September 2000

19. Calogeropoulou T., **Koufaki M.**, Detsi A., Fichtner I., Eisenbrand G., Syriani D., Alexis M.N., Hendriks H.R., Makriyannis, A. "Phosphorylated analogs of 4-hydroxytamoxifen". XVI<sup>th</sup> International Symposium on Medicinal Chemistry, Bologna, Italy, September 2000

20. Mavromoustakos T., Calogeropoulou T., **Koufaki M.**, Kolokouris A., Daliani I., Demetzos C., Meng Z., Makriyannis A., Balzarini J., De Clerq E. "Ether phospholipid-AZT conjugates possessing anti-HIV and anti-tumor cell activity. Synthesis, conformational analysis and study of their thermal effects on membrane bilayers". 9<sup>th</sup> Cyprus Conference on New Methods in Drug Research, Limassol, Cyprus, May 2001

21. Roditis A., Detsi A., Calogeropoulou T., **Koufaki M.**, Kourounakis A., Papazafiri P., Tsiakitzis K., Gaitanaki C., Beis I., Kourounakis P. "Novel potent inhibitors of lipid peroxidation with protective effects against reperfusion arrhythmias" 7<sup>th</sup> Conference in advanced Medicinal Chemistry, Thessaloniki, Greece, May 2001

22. Avlonitis N., Lekka E., Detsi A., **Koufaki M.**, Calogeropoulou T. "Bioactive ether phospholipids." 7<sup>th</sup> Conference in advanced Medicinal Chemistry. Thessaloniki, Greece, May 2001

23. Detsi A., **Koufaki M.**, Calogeropoulou T. "A convenient stereoselective route to (Z)-4-hydroxytamoxifen" 12<sup>th</sup> European Symposium on Organic Chemistry, Groningen, The Netherlands, July 2001

24. Avlonitis N., Lekka E., Detsi A., **Koufaki M.**, Calogeropoulou T., Skoulica E., Siapi E., Kyrikou I., Mavromoustakos T., Tsotinis A. "Design and synthesis of antileishmanial ether phospholipids." COST Chemistry D13 Workshop, Firenze, Italy, April 2002
25. Avlonitis N., Lekka E., Detsi A., **Koufaki M.**, Calogeropoulou T., Skoulica E., Siapi E., Kyrikou I., Mavromoustakos T., Tsotinis A., Makriyannis A. "Antileishmanial Ring-Substituted Ether Phospholipids". NATO/FEBS Advanced Study Institute, Spetses, Greece, August 2002
26. **Koufaki M.**, Calogeropoulou T., Detsi A., Roditis A., Kourounakis A., Papazafiri P., Tsiakitzis K., Gaitanaki C., Beis I., Kourounakis P. "Design and synthesis of novel antioxidants with protective effects against reperfusion arrhythmias" XVII<sup>th</sup> International Symposium on Medicinal Chemistry, Barcelona, Spain, September 2002
27. Calogeropoulou T., **Koufaki M.**, Avlonitis N., Lekka E., Detsi A., Skoulica E., Papazafiri P., Siapi E., Kyrikou I., Mavromoustakos T., Tsotinis A., Makriyannis A. "Design and synthesis of novel ether phospholipids embodying cyclic moieties. Comparative study of their anticancer and antileishmanial activity". XVII<sup>th</sup> International Symposium on Medicinal Chemistry, Barcelona, Spain, September 2002
28. Avlonitis N., Agelou P., **Koufaki M.**, Calogeropoulou T., Skoulica E. "Antileishmanial Ring-Substituted Ether Phospholipids". COST CHEMISTRY D13 WORKSHOP, Lisbon, Portugal October 2003
29. **Koufaki M.**, Theodorou E., Kiziridi C., Calogeropoulou T., Detsi A., Galaris D., Nouis L., Papazafiri P., Vassilopoulos A. "Chroman analogues protecting cells from ischemia/reperfusion or DNA damage". International Symposium on Advances in Synthetic, Combinatorial and Medicinal Chemistry, Moscow, Russia, May 2004
30. Calogeropoulou T., Koini E., **Koufaki M.**, Vassilopoulos A., Papazafiri P. "Design and synthesis of novel 1,4-benzoxazine and 4-aminobenzopyran analogues active against reperfusion arrhythmias". International Symposium on Advances in Synthetic, Combinatorial and Medicinal Chemistry, Moscow, Russia, May 2004

31. Angelou P., Avlonitis N., Calogeropoulou T., **Koufaki M.**, Scoulica E., Fragiadaki I. "Design and synthesis of antileishmanial ring-substituted ether phospholipids derivatives". 10<sup>th</sup> Cyprus Conference on New Methods in Drug Research, Limassol, Cyprus, May 2004
32. Theodorou E., **Koufaki M.**, Nousis L., Galaris D., Katsanou E., Alexis M. "Novel hydroxychroman/catechol hybrids possessing cytoprotective activity". Free Radical School, Spetses, Greece, September 2004
33. Kiziridi C., **Koufaki M.**, Papazafiri P., Vassilopoulos A. "Hydroxychroman derivatives active against myocardial ischemia/reperfusion". Free Radical School, Spetses, Greece, September 2004
34. Calogeropoulou T., Avlonitis N., Angelou P., Detsi A., **Koufaki M.**, Scoulica E., Fragiadaki I. "Design and synthesis of antileishmanial ring-substituted ether phospholipid derivatives" COST D13 Final Meeting, Louvain-La-Neuve, Belgium, September 2004
35. **Koufaki M.**, Kiziridi C., Katsanou E., Alexis M. N. "Design and Synthesis of neuroprotective 1,2-dithiolane derivatives". 1<sup>st</sup> European Chemistry Congress, Budapest, Hungary, August 2006
36. Fotopoulou T., Andreadou I., **Koufaki M.**, Tsoinias A. Zoga A., Gizas V., Iliodromitis E. K., Kremastinos D. Th. "New analogues of nicorandil and adenosine as triggers of ischemic preconditioning". 5<sup>th</sup> International Congress of Cardiology, Thessaloniki, Greece, November 2006. **1<sup>st</sup> PRIZE**
37. **Koufaki M.** "Design and synthesis of novel cardioprotective agents against ischemia/reperfusion injury". **Invited speaker** at 11<sup>th</sup> Cyprus Conference on New Methods in Drug Research, Limassol, Cyprus, May 2008
38. **Koufaki M.**, Theodorou E., Guerrand H., Alexi X., Tsatsaroni A., Alexis M. N. "Design and synthesis of new neuroprotective chroman analogues bearing catechol substituents". 11<sup>th</sup> Conference in Advanced Medicinal Chemistry. Thessaloniki, Greece, May 2009

39. **Koufaki M.**, Kiziridi C., Alexi X., Guerrand H., Tsatsaroni A., Alexis M. N. Design and synthesis of novel neuroprotective 1,2-dithiolane/chroman hybrids. 16<sup>th</sup> European Symposium on Organic Chemistry. Prague, Czech Republic, July 2009

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