

## Theodora Calogeropoulou

Research Director

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### EDUCATION

- Ph.D.** July 1987, University of Iowa, Iowa City, Iowa, U.S.A.  
Division of Organic Chemistry.  
“New chemistry of vinyl phosphates a novel 1,3-migration of phosphorus from oxygen to carbon.”
- B.S.** April 1983, (in Chemistry) National University of Athens, Athens, Greece.

### EMPLOYMENT

- 9/1987-10/1989: **Postdoctoral Research Associate** at The Scripps Research Institute, San Diego, U.S.A.
- 6/1990- 8/1991: **Researcher** at the R&D Department of “Viochrom” Dye Industry.
- 9/1991-6/2002: **Researcher** at the Institute of Organic and Pharmaceutical Chemistry of the National Hellenic Research Foundation, Athens
- 6/2002- 6/2007: **Senior Researcher** at the Institute of Organic and Pharmaceutical Chemistry of the National Hellenic Research Foundation, Athens.
- 7/2007 to date **Research Director** at the Institute of Organic and Pharmaceutical Chemistry of the National Hellenic Research Foundation, Athens.

### RESEARCH INTERESTS

The current research interests are focused on the design and synthesis of biologically active molecules. In particular:

- a) Design and synthesis of ether phospholipids.
- Possessing antiparasitic and anticancer activity
  - As carriers for widely used anticancer or anti-HIV agents in order to achieve improved delivery and targeting.
- b) Design and synthesis of Central Nervous System Agents.
- GABA<sub>A</sub> modulating neurosteroids that possess anxiolytic or anticonvulsant activity
  - Neurosteroid analogues with neuroprotective activity
- c) Design and synthesis of heterocyclic compounds with multifunctional pharmacological profile
- Possessing combined antioxidant and antiarrhythmic activity
  - Possessing neuroprotective activity

A parallel research activity involves the development of synthetic methodology using conventional techniques and microwave irradiation and the synthesis on solid support.

## FOREIGN LANGUAGES

English (excellent, Proficiency of Cambridge University).  
French (excellent, Sorbonne II).  
Spanish (working knowledge).

## TEACHING EXPERIENCE

- 10/1983-12/1985: Teaching assistant at the University of Iowa, Chemistry Department, U.S.A.
- 1995-to date Supervision of 5 M.Sc. students and 5 Ph.D. students and 12 Postdoctoral Fellows
- 5/1998: Instructor in training seminar on "Modern Chemistry and its Applications" chemistry teachers in secondary education in Greece.
- 2/2000: Invited lecturer at the post graduate program of the Mediterranean Agricultural Institute of Chania
- 2002: External evaluator of the European Ph.D. of Jordi Piro I Segarra entitled "Sintesi I Aplicacions de Pseudopeptids

Restringits Derivats de Serina" of University of Barcelona, Faculty of Pharmacy, Dept. of Pharmacology and Medicinal Chemistry.

## **PARTICIPATION IN SCIENTIFIC COMMITTEES**

- |                |  |
|----------------|--|
| 1998 -2000     | Participation in the team of evaluators for Current Drugs LTD, London, U.K.  |
| 1998 -2004     | National representative of the Management Committee of COST Chemistry, Action D13 " New Molecules Towards Human Health Care".  |
| 1999- to date  | Member of the expert evaluators panel for Improving Human Research Potential and the Socio-Economic Knowledge Base Programme- <i>Marie Curie Individual Fellowships, Marie Curie Training Sites, Development Host Fellowships and Research Training Networks</i> |
| 2004- 2007     | National representative of the Management Committee of COST Medicine, Action B22 " Drug development for parasitic diseases".   |
| 2005- to date  | National representative of the Management Committee of COST Chemistry, Action D34" Molecular Targeting and Drug Design in Neurological and Bacterial Diseases".  |
| 2006 - to date | Member of the scientific network NatSynDrugs ( <a href="http://www.natsyndrugs.org">www.natsyndrugs.org</a> )  |
| 2008- to date  | National representative of the Management Committee of COST Chemistry, Action CM0801 " New drugs for neglected diseases".  |
| 2009- to date  | Vice-Chair and National representative of the Management Committee of COST Chemistry, Action CM0801 "New Drugs for Neglected Diseases".  |

## **ORGANISATION OF CONFERENCES**

- |           |  |
|-----------|--|
| 1993-2006 | Member of the Organizing Committee of 8 Greek and 4 International Symposia |
| 2001      | Organizer of the COST D13 mid-term evaluation symposium                    |

2006

Organizer of the COST B22 3<sup>rd</sup> Annual Congress on Drug Design and Development for parasitic diseases.

## REVIEWER FOR SCIENTIFIC JOURNALS

Journal of Organic Chemistry  
Organic Letters  
Journal of Medicinal Chemistry  
European Journal of Medicinal Chemistry  
Phytochemistry Reviews  
Current Drug Discovery Technologies  
European Polymer Journal  
Letters in Drug Design and Discovery  
SYNLETT

## COMPETITIVE FUNDING

### *National*

- National Drug Organisation (1991-94) "Design and Synthesis of alkyllysophospholipids"
- KESY (1993-95) "Synthesis and biological activity of new tamoxifen analogs"
- YPER (1995-98) "New anxiolytic and anticonvulsant neurosteroids"  
Coordinator: Dr T. Calogeropoulou
- PENED 2000 GSRT (2000-01) "Development of new liposomal immunoassays"
- Bilateral Collaboration of Greece-Czech Republic "Synthesis and biological evaluation of new melatonin analogues"
- Bilateral Collaboration of Greece-Italy "Comparative study of benthic organisms from Greece and Italy for the determination and exploitation of their chemical constituents"  
Coordinator: Dr. T. Calogeropoulou
- Excellence in the Research Institutes supervised by the Greek General Secretariat for Research and Technology EPAN 3.3.1. (2002-2005). "Novel strategies against neurodegeneration."

- Excellence in the Research Institutes supervised by the Greek General Secretariat for Research and Technology EPAN 3.3.1. (2006-2009). "Design and synthesis of bioactive molecules"
- Bilateral Collaboration of Greece-Hungary (2002 - 2005) "Neuroactive steroids and ionotropic neurotransmitter receptors."  
Coordinator: Dr. T. Calogeropoulou
- 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"  
Scientist in charge: Dr. T. Calogeropoulou
- PENED 2001 GSRT (2002-2006). Investigation of the mechanisms of action of neuroprotective neurosteroids. Development of new compounds with high neuroprotective and low estrogenic or androgenic activity.  
Scientist in charge for IOPC: Dr. T. Calogeropoulou
- Operational Programme for Competitiveness, GSRT YB/39(2004-2007). Therapeutic Interventions Against Protozoan Infections.  
Coordinator: Dr. T. Calogeropoulou

### *International*

- Univ. Connecticut PSA No 2328 (1998-1999) "Anticancer ether lipids"
- Univ. Connecticut PSA No 3324 (2001) "Novel Antioxidants"
- Univ. Connecticut PSA No 3680 (2002) "Bioactive ether phospholipids"
- Univ. Connecticut PSA No 4505 (2004-2005) " Novel Antioxidants and Bioactive ether phospholipids"
- Marie Curie Transfer of Knowledge Programme - MTKD-CT-2004-014399.(2005-2009) "Solid-phase phospholipid and dendrimer synthesis",  
Coordinator: Dr. T. Calogeropoulou
- Marie Curie Host fellowships for Early Stage Research Training (EST) 2006-2009. EURODESYS: A European Research Training Site for the Design and Synthesis of Novel Neuroprotective and Hypoglycaemic Agents through a Multi-disciplinary approach.
- FP7-2009-REGPOT-1 2010-2012 "Advancement of Research Capability for the Development of New Functional Compounds (ARCADE).  
Sub-coordinator: Dr. T. Calogeropoulou

## PUBLICATIONS

**Calogeropoulou T.** (July 1987) "New chemistry of vinyl phosphates. A novel 1,3-migration of phosphorus from oxygen to carbon."  
Ph.D. Thesis, University of Iowa.

## REVIEWS AND CHAPTERS IN BOOKS

**Calogeropoulou T.,** Detsi A., Lekkas E, Koufaki M. " Strategies in the design of prodrugs of anti-HIV agents" in " Therapeutic strategies against HIV infection" Current Topics in Medicinal Chemistry, **2003**, 3 (13), 1467.

**Theodora Calogeropoulou,** Darryl C. Rideout.  
Synergism and antagonism through direct covalent bond formation between agents. Chapter 14 in Chemotherapeutic Synergism and Antagonism. (Ed. T.-C. Chou and Darryl C. Rideout, Academic Press **1990**).

## PUBLICATIONS IN PEER REVIEWED JOURNALS

- 1) Gerald B. Hammond, **Theodora Calogeropoulou**, David F. Wiemer.  
The 1,3 migration of phosphorus from oxygen to carbon: A new synthesis of  $\beta$ -keto phosphonates from enol phosphates.  
Tet. Lett. **1986**, 27, 4265.
- 2) **Theodora Calogeropoulou**, Gerald B. Hammond, David F. Wiemer.  
Synthesis of  $\beta$ -keto phosphonates from vinyl phosphates via a 1,3-phosphorus migration.  
J. Org. Chem. **1987**, 52, 4185.
- 3) **Theodora Calogeropoulou**, David F. Wiemer.  
Cycloaddition reactions of phosphate dienes.  
J. Org. Chem. **1988**, 53, 2295.
- 4) Darryl C. Rideout, **Theodora Calogeropoulou**, James S. Jaworski, Raymond Dagnino Jr., and Michael R. McCarthy.  
Phosphonium salts exhibiting selective anticarcinoma activity in vitro.  
Anti-Cancer Drug Design **1989**, 4, 265-280.
- 5) Darryl C. Rideout, **Theodora Calogeropoulou**, James S. Jaworski, Michael McCarthy.  
Synergism through direct covalent bonding between agents: A strategy for rational design of chemotherapeutic combinations.  
Biopolymers **1990**, 29, 247-262.
- 6) Katherine B. Gloer, **Theodora Calogeropoulou**, John A. Jackson, and David F. Wiemer.

Regiochemistry of the rearrangement of cyclohexenyl and cyclohexadienyl phosphates to  $\alpha$ -keto phosphonates.

J. Org. Chem **1990**, 55, 2842-2846.

7) Rotenberg, S., Weinstein, I.B., Rideout, D., **Calogeropoulou, T.**, McCarthy, M., Jaworski, J., McCracken, T., Wadwa, K., Oseroff, A.

Antineoplastic Effects and Protein Kinase C Inhibition Using Phosphonium Salts and Self-Assembling Cytotoxins.

Proc. Amer. Assoc. Canc. Res., 31, 1990.

8) Daniel M. Quinn, Larry D. Sutton, Jay S. Staout, **Theodora Calogeropoulou**, and David F. Wiemer.

Phospholipase A<sub>1</sub> Activity and Catalytic Mechanism of Pancreatic Cholesterol Esterase.

Phosphorus, Sulfur, and Silicon **1990**, 51/52, 43-46.

9) Susan A. Rotenberg, **Theodora Calogeropoulou**, James S. Jaworski, I. Bernard Weinstein, and Darryl Rideout.

A self-assembling protein kinase C inhibitor.

Proc. Natl. Acad. Sci. USA **1991**, 88, 2490.

10) Darryl Rideout, Raymond Schinazi, C. David Pauza, Kathleen Lovelace, Lin-Chang Chiang, **Theodora Calogeropoulou**, Michael McCarthy, and John Elder.

Derivatives of 4-Amino-3,6-Disulfonato-1,8-Naphthalimide Inhibit Reverse Transcriptase and Suppress Human and Feline Immunodeficiency Virus Expression in Cultured Cells.

J. Cellular Biochem. **1993**, 51, 446.

11) Jasmin Patel, Darryl Rideout, Michael R. McCarthy, **Theodora Calogeropoulou**, Kalyan S. Wadwa and Allan R. Oseroff.

Antineoplastic Activity, Synergism, and Antagonism of Triarylalkylphosphonium Salts and their Combinations.

Anticancer Research **1994**, 14, 21.

12) Mavromoustakos T., Theodoropoulou E., Koufaki M., Yang D.P. Lin S., Zervou M. **Calogeropoulou T.**, Makriyannis A.

"Conformational analysis of 1-thiohexadecyl-2-O-methyl-*rac*-glycero-3-phosphocholine."

Epitheor Klin. Farmakol. Farmakokinet. Int. Ed. **1993**, 11, 178 .

13) Mavromoustakos T., Theodoropoulou E., Polychroniou V., Dimitriou A., Koufaki M., **Calogeropoulou T.**

"Study of drug membrane interactions using a combination of differential scanning calorimetry and <sup>31</sup>P-NMR spectroscopy."

Epitheor Klin. Farmakol. Farmakokinet. Int. Ed. **1995**, 13, 81.

- 14) **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.
- 15) Koufaki M., Polychroniou V., **Calogeropoulou T.**, Tsotinis A., Drees M., Fiebig H.H., LeClerc S., Hendriks H.R., Makriyannis.  
"Alkyl and Alkoxyethyl Antineoplastic Phospholipids"  
J. Med. Chem. **1996**, 39, 2609.
- 16) 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.
- 17) M. Koufaki, **T. Calogeropoulou**, T. Mavromoustakos, E. Theodoropoulou, A. Tsotinis. A. Makriyannis  
"Synthesis of <sup>2</sup>H-Labelled Alkoxyethyl Phosphodiester AZT Derivatives for Solid-State <sup>2</sup>H-NMR Studies"  
J. Het. Chem. **1996**, 33, 619.
- 18) Varvaresou, A. Tsotinis, Th. Siatra-Papastaikoudi, **T. Calogeropoulou**  
"New Pyrazole-annulated azathioxanthenes as potential intercalators: synthesis and structure elucidation."  
J. Het. Chem. **1996**, 33, 831.
- 19) Tsotinis, A. Varvaresou, **T. Calogeropoulou**, Th. Siatra-Papastaikoudi and A. Tyligada  
"Synthesis and antimicrobial evaluation of indole containing derivatives of 1,3,4-thiadiazole, 1,2,4-triazole and their open-chain counterparts."  
Arzneim.-Forsch./Drug Res., **1997**, 47 (I), 307
- 20) R. Faust, P.J. Garratt, R. Jones, L.-K. Yeh, A. Tsotinis, M. Panoussopoulou, **T. Calogeropoulou**, M.-T. Teh and D. Sugden  
"Mapping the melatonin receptor. 6. Melatonin agonists and antagonists derived from 6H-isoindolo[2,1-a]indoles, 5,6-dihydroindolo[2,1-a]isoquinolines and 6,7-dihydro-5H-benzo[c]azepino[1,2-a]indoles."  
J. Med. Chem. **2000**, 43(6), 1050-1061.
- 21) Varvaresou A, Kriton I, Filippatos E., Souli C., **Calogeropoulou T.**, Ioannidou I., Kourounakis A., Pannecouque C., Witvrouw M., Padalko E., Neyts J., De Clercq E., Tsotinis A.

"Synthesis, Antiretroviral and Antioxidant Evaluation of a Series of New Benzo[*b*]furan Derivatives."

Arzneim.-Forsch./Drug Res. **2001**, 51(I), 156.

22) Carbonenelle D., Jacquot C., Lanco X., Le Dez G., Tomasoni C., Briand G., Tsotinis A., **Calogeropoulou T.**, Roussakis C.

"Up-regulation of a novel mRNA (NY-CO-1) involved in the (1-(2-alkoxy-5-carboxyl)- $\alpha$ - $\beta$ -unsaturated ketone (VT1)-induced proliferation arrest of a Non-Small Cell lung carcinoma cell line (NSCLC-N6)"

International J. Cancer **2001**, 92 (3), 388-397.

23) Mavromoustakos T., Calogeropoulou T., Koufaki M., Kolocouris A., Demetzos K., Meng Z., Makriyannis A., Balzarini J. and 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(11), 1702-1709.

24) 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.

25) 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.

26) Avlonitis N., Lekka E., Detsi A., Koufaki M., **Calogeropoulou T.**, Scoulica 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.

27) 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.

28) Koufaki M., Detsi A., Theodorou E., Kiziridi C., Calogeropoulou T., Vassilopoulos A., Kourounakis A., Rekka E., Kourounakis P., Gaitanaki C., Papazafiri P.

- 29) "Synthesis of Chroman Analogues of Lipoic Acid and Evaluation of their Activity against Reperfusion Arrhythmias."  
Bioorg. Med. Chem. **2004**, 12, 4835.
- 30) Panagiota Papazafiri, Nicolaos Avlonitis, Panagiotis Angelou, **Theodora Calogeropoulou**, Maria Koufaki, Efi Scoulica, Irene Fragiadaki "Structure-activity relationships of antineoplastic ring-substituted ether phospholipid derivatives"  
Cancer Chemother. Pharmacol. **2005**, 56(3), 261-70
- 31) Detsi, V. Roussis, A. Tsotinis, C. Roussakis, **T. Calogeropoulou**  
A Concise Approach to Benzoic Acid Derivatives Bearing an  $\alpha,\beta$ -Unsaturated Ketone Substituent: Synthesis of Methyl Tabogonate.  
SYNLETT, **2005** (20), 3131-3135
- 32) Charikleia Souli, Nicolaos Avlonitis, **Theodora Calogeropoulou**, Andrew Tsotinis, Gábor Maksay, Tímea Bíró, Aggeliki Politi, Thomas Mavromoustakos, Alexandros Makriyannis, Heribert Reis, Manthos Papadopoulos.  
"Novel 17 $\beta$ -substituted conformationally constrained neurosteroids that modulate GABA<sub>A</sub> receptors"  
J. Med. Chem. **2005**, 48(16), 5203-14.
- 33) Charalampopoulos, V.-I. Alexaki, I. Lazaridis, E. Dermizaki, N. Avlonitis, C. Tsatsanis, **T. Calogeropoulou**, A. N. Margioris, E. Castanas, A. Gravanis.  
G protein-associated, specific membrane binding sites mediate the neuroprotective effect of Dehydroepiandrosterone.  
FASEB J, **2006** (20), 577-579
- 34) Tsotinis A, Vlachou M, Papahatjis DP, **Calogeropoulou T**, Nikas SP, Garratt PJ, Piccio V, Vonhoff S, Davidson K, Teh MT, Sugden D.  
"Mapping the melatonin receptor. 7. Subtype selective ligands based on beta-substituted N-acyl-5-methoxytryptamines and beta-substituted N-acyl-5-methoxy-1-methyltryptamines."  
Med. Chem. **2006**, 49(12), 3509-19
- 35) Agnes Kapou, Nikolas P. Benetis, Nikos Avlonitis, **Theodora Calogeropoulou**, Maria Koufaki, Efi Scoulica, Sotiris S. Nikolaropoulos and Thomas Mavromoustakos  
"3D-Quantitative Structure-Activity Relationships of New Synthetic Antileishmanial Ring-Substituted Ether Phospholipids"  
Bioorg. Med. Chem. **2007** 15(3):1252-65.
- 36) Xilouri M, Avlonitis N, **Calogeropoulou T**, Papazafiri P.  
"Neuroprotective effects of steroid analogues on P19-N neurons."

Neurochem Int. **2007** 50(4):660-70.

37) Karanikolopoulos N, Pitsikalis M, Hadjichristidis N, Georgikopoulou K, **Calogeropoulou T**, Dunlap JR.

“pH-Responsive Aggregates from Double Hydrophilic Block Copolymers Carrying Zwitterionic Groups. Encapsulation of Antiparasitic Compounds for the Treatment of Leishmaniasis.”

Langmuir. **2007** 23(8) 4214-24.

38) Gabor Maksay, Laszlo Fodor, Tímea Bíró, Nicolaos Avlonitis, **Theodora Calogeropoulou.**

“A 17 $\beta$ -derivative of allopregnanolone is a neurosteroid antagonist of a cerebellar subpopulation of GABA<sub>A</sub> receptors with nanomolar affinity.”

Brit. J. Pharmacol. **2007**, 151(7), 1078-86.

39) Calogeropoulou, Theodora; Angelou, Panagiotis; Detsi, Anastasia; Fragiadaki, Irene; Scoulica, Effie

“Design and synthesis of potent antileishmanial cycloalkylidene-substituted ether phospholipid derivatives”

J. Med. Chem. **2008**, 51, 897-908.

40) Frank Wiesbrock, Claudine Patteux, Tomasz K. Olszewski, Amélie Blanrue, Georgios A. Heropoulos, Barry R. Steele, Maria Micha-Screttas, and **Theodora Calogeropoulou.**

“Solution-Phase Synthesis and Scale-Up of 1<sup>st</sup> Generation Tetraester-Dendritic Branches Involving Microwave Irradiation and/or Ultrasound”

Eur. J. Org. Chem. Vol. 2008, 4344-4349

41) Koini EN, Papazafiri P, Vassilopoulos A, Koufaki M, Horváth Z, Koncz I, Virág L, Papp GJ, 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.

42) **Calogeropoulou T.**, Avlonitis N., Minas V., Alexi X., Pantzou A., Charalampopoulos I., Zervou M., Vergou V., Katsanou E. S., Lazaridis I., Alexis M., Gravanis

“A. Novel DHEA Derivatives with Anti-Apoptotic Neuroprotective activity.”

J. Med. Chem. **2009**, 52 (21), 6569–6587.

## **PATENTS**

### **GR-1003103**

“1-(2-ALKOXY-5-CARBOXYPHENYL)-A,B-UNSATURATED KETONES. THEIR PREPARATION AND APPLICATION IN THERAPEUTICS.”

Inventors: A. Tsotinis, **T. Calogeropoulou**, C. Roussakis, V. Roussis

**WO 9954278**

"1-(2-Alkoxy-5-carboxyphenyl)- $\alpha,\beta$ -unsaturated ketones. Their preparation and application in therapeutics. "

Inventors: A. Tsotinis, **T. Calogeropoulou**, C. Roussakis, V. Roussis

Applicant: CORNEAL Industries

**US2005176976, US7064116, WO02053577, GR-1003861, AU2002217353**

GABA<sub>A</sub> MODULATING NEUROSTEROIDS

Applicant: ELPEN S.A.

Inventors: **Theodora Calogeropoulou**, Charikleia Souli, Andrew Tsotinis, Alexandros Makriyannis

**WO 0204438, US7,115,657, CA2415523, EP1301504 , DE60106922T, PT1301504, ES231514, IS153791 GR 1003725**

"Bifunctional agents possessing antioxidant and antiarrhythmic activity"

Applicant: UNI-PHARMA S.A.

Inventors: Maria Koufaki, **Theodora Calogeropoulou**, Alexandros Makriyannis

**WO 2004041167, US2006105998, EP1578754, CA2503058, CN1742017, AU2003285071, BR0315840**

"Antiprotozoal ring-substituted phospholipids"

Inventors: **Theodora Calogeropoulou**, Maria Koufaki, Nikolaos Avlonitis, Alexandros Makriyannis

**GR20050100100 (2/3/05)**

«Ultrasound contrast agents containing anticancer ether phospholipids»

Inventors: **Theodora Calogeropoulou**, Maria Koufaki

**WO2008155534, GB20070011948, CA2691071, AU2008265046**

"Neurosteroid compounds"

**Inventors:** Gravanis Achilleas , **Calogeropoulou Theodora**, Charalampopoulos Ioannis, Avlonitis Nicolaos, Castanas Elias, Margioris Andreas, Tsatsanis Christos, Minas Vassilios, Alexaki Vasiliki-Ismini, Alexis Michail, Remboutsika Eumorphia, Vergou Barbara , Neophytou Constantinos

**Applicant:** Bionature EA Ltd, Nicosia, Cyprus

**GR20080100530**

"1,4-Benzoxazine derivatives"

**Inventors:** **Calogeropoulou Theodora**, Koini Eftychia, Avlonitis Nicolaos, Alexi Xanthippi, Alexis Michail.

**REVIEWS AND CHAPTERS IN BOOKS**

**Calogeropoulou T.**, Detsi A., Lekkas E, Koufaki M. " Strategies in the design of prodrugs of anti-HIV agents" in " Therapeutic strategies against HIV infection" Current Topics in Medicinal Chemistry, 2003, 3 (13), 1467.

**Theodora Calogeropoulou**, Darryl C. Rideout.

Synergism and antagonism through direct covalent bond formation between agents.

Chapter 14 in Chemotherapeutic Synergism and Antagonism. (Ed. T.-C. Chou and Darryl C. Rideout, Academic Press 1990).

## **PRESENTATIONS**

More than 90 presentations at international conferences.

## **INVITED SPEAKER ABROAD (2007-2010)**

Medicinal Chemistry in Parasitology (Modena, Italy, February 2007)

“Phospholipid Analogues as Antileishmanial Agents”

4<sup>th</sup> COST B22 Annual Congress on Drug Development for Parasitic Diseases (Dundee, UK, June 2007)

“Design and synthesis of antiparasitic phospholipid derivatives”

2<sup>nd</sup> European Conference on Chemistry for Life Sciences (Wroclaw, Poland, September, 2007)

“Design and synthesis of novel neuroprotective agents encompassing heterocyclic moieties”

Federal University of Rio de Janeiro, Instituto de Biofisica Carlos Chagas Filho, 8 December 2008, Brasil.

Ring-Substituted Antileishmanial Ether Phospholipid Derivatives: Design, Synthesis and Study of the Mechanism of Action.

10<sup>th</sup> Drug Design and Development Seminar (19/3/09-21/3/09, Germany)

“Design, Synthesis and Evaluation of Anti-leishmanial and Anti-trypanosomal Activities of Ring-Substituted Ether Phospholipid Derivatives”

COST Action CM0801 2<sup>nd</sup> Annual Meeting, (Siena (Italy), 28/05/2010- 29/05/2010)

“Anti-leishmanial and Anti-trypanosomal Constrained Ether Phospholipid Derivatives”