

## Calogeropoulou Theodora

Ph.D. / Research Director  
Institute of Chemical Biology (ICB.)  
Phone: 00302107273833  
Fax: 00302107273831  
E-mail: tcalog@eie.gr  
Website: <http://www.eie.gr>



### Education

**9/1983- 7/1987:** Ph.D., University of Iowa, Division of Organic Chemistry, USA, "New chemistry of vinyl phosphates. A novel 1,3-migration of phosphorus from oxygen to carbon." Supervisor: Prof. D. F. Wiemer

**10/1978 - 4/1983:** B.Sc, in Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Greece

### Appointments

**8/2020: Co-founder** of QuadrEL S.r.l. biotech company.

**7/2020 to date:** Chairman of the Scientific Council of the Institute of Chemical Biology, National Hellenic Research Foundation, Athens, Greece

**2/2017 to 7/2021:** Member of the General Assembly of the Hellenic Foundation for Research and Technology "ELIDEK"

**5/2019 to date: Deputy Director** of the Institute of Chemical Biology, National Hellenic Research Foundation, Athens, Greece

**2016 to 5/2019: Deputy Director** of the Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic Research Foundation, Athens, Greece

**5/2019 to date: Research Director** at the Institute of Chemical Biology, National Hellenic Research Foundation, Athens, Greece

**8/2007 to 5/2019: Research Director** at the Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic Research Foundation, Athens, Greece

**6/2002-7/2007: Senior Researcher** at the Institute of Organic and Pharmaceutical Chemistry of the National Hellenic Research Foundation, Athens

**1991-2002: Researcher** at the Institute of Organic and Pharmaceutical Chemistry of the National Hellenic Research Foundation, Athens

**6/1990-8/1991: Researcher** at the R&D Department of "Viochrom" Dye Industry, Athens, Greece

**9/1987-10/1989: Postdoctoral Research Associate** at The Scripps Research Institute, San Diego, U.S.A.

### Fellowships

**1983-1985:** Teaching assistantship University of Iowa, U.S.A.

**1986 -1987:** Research assistantship University of Iowa, U.S.A.

### Current Research Interests

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

- a) Design and synthesis of antiprotozoal ether phospholipids and bioisosteres
- b) Design and synthesis of novel neuroprotective and neuroregenerative small molecule neurotrophin mimetics
- c) Design and synthesis of heterocyclic compounds with multifunctional pharmacological profile:
  - Possessing neuroprotective activity
  - Tyrosinase modulators
- d) Design and synthesis of BRAF<sup>V600E</sup> inhibitors for the development of agents against colorectal cancer.
- e) Design and synthesis of proteasome activators against aging.
- f) Design and synthesis of fluorescent bioactive compounds and smart probes for target engagement studies and imaging.

A parallel research activity involves the development of synthetic methodology using conventional techniques and microwave or ultrasound irradiation.

### Foreign Languages

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

### Professional Affiliations

Member, Greek Chemical Society

Member, Hellenic Society of Medical Chemistry

### Teaching Experience

**1995-to date:** Supervisor of 10 M.Sc theses, 10 Ph.D candidates (5 theses completed, 5 ongoing) and 4 diploma theses (completed). Supervision of 25 Postdoctoral Fellows in the context of competitive funded projects, 2 research associates and 4 internships.

**2019 to date:** Instructor at the Post-graduate Programme "**Oncology. From Oncogenesis to Therapy**" of the National Hellenic Research Foundation and University of Crete.

**2016 to date:** Instructor at the **Bioinformatics Postgraduate Programme** of the National and Kapodistrian University of Athens., Greece

**2015 to date:** Instructor at the Post-graduate Programme "**Bioentrepreneurship**" of the National Hellenic Research Foundation and University of Thessaly.

**2002:** External evaluator of the European Ph.D. of Jordi Piro I Segarra" of University of Barcelona, Faculty of Pharmacy, Dept. of Pharmacol. and Med. Chem.

**2/2000:** Invited lecturer at the post graduate program of the Mediterranean Agricultural Institute of Chania

**1998:** Instructor in training seminar on "Modern Chemistry and its Applications" chemistry teachers in secondary education in Greece.

**1983-1985:** Teaching assistant, University of Iowa, Chemistry Department, U.S.A.

### Participation in Scientific Committees

**2021:** Member of the International Scientific Committee of the XXVII EFMC International Symposium on Medicinal Chemistry (4-8 September 2022, Nice, France).

**2018:** Jury Member of EFMC Prous Institute-Overton and Meyer Award for New Technologies in Drug Discovery.

**2017 to date:** Member of the expert evaluators panel for projects of the Foundation for Science and Technology (FCT), Portugal

**2014 to date:** Member of the Scientific Council of the Institute of Chemical Biology (previously Institute of Biology, Medicinal Chemistry and Biotechnology), NHRF.

**1999 to date:** Member of the expert evaluators panel for Horizon Europe (Marie Skłodowska-Curie programme) and Horizon 2020 Marie Skłodowska-Curie programme, FP7 People programme and EU FP6 programmes (*Marie Curie Individual Fellowships, Marie Curie Training Sites, Development Host Fellowships and Research Training Networks*).

**2013 – 2018:** National representative of the Management Committee of COST Chemistry, Action CM1307 "Targeted chemotherapy towards diseases caused by endoparasites"

**2008 – 2012:** Vice-Chair and National representative of the Management Committee of COST Chemistry, Action CM0801 " New drugs for neglected diseases"

**2006 to date:** Member of NatSynDrugs ([www.natsyndrugs.org](http://www.natsyndrugs.org))

**2005 – 2010:** National representative of the Management Committee of COST Chemistry, Action D34 "Molecular Targeting and Drug Design in Neurological and Bacterial Diseases".

**2004 – 2007:** National representative of the Management Committee of COST Medicine, Action B22 "Drug development for parasitic diseases".

**1998 – 2004:** National representative of the Management Committee of COST Chemistry, Action D13 "New Molecules Towards Human Health Care".

**1998 – 2000:** Participation in the team of evaluators for Current Drugs LTD, London.

### Reviewer for peer-reviewed journals

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

### Supervision of Junior Researchers

#### Postdoctoral Fellows

28. Dr Sotirios Katsamakos (12.2021- to date)
27. Dr Alia Cristina Tenchiu (12/2021- to date)
26. Dr Theano Fotopoulou (1.2022-to date)
25. Dr Demetris Kalofolias (2/2020 – 12/2020)
24. Dr Michail Mamais (2/2020 – 12/2020)
23. Dr Alia Cristina Tenchiu (12/2019 – 7/2021)
22. Dr George Magoulas (11/2018 – to date)
21. Dr Andromachi Tzani (6/2018 – 9/2019)
20. Dr George Magoulas (2016-2017)
19. Dr Theano Fotopoulou (2015-2017)
18. Dr Marina Roussaki (2014-2017)
17. Dr Nicolaos Assimomytis (2015-2016)
16. Dr Leto-Aikaterini Tzivelleka (2015-2016)
15. Dr Stefanos Kikionis (2015-2016)
14. Dr Pantelis Afroudakis (2014-2015)
13. Dr Kyriakos C. Prousis (2009-2018)
12. Dr Costas Baskakis (2009-2011)
11. Dr Panagiotis Kaloudis (2009-2010)
10. Dr Victoria Nahmias (2009)
9. Dr Phil Milnes (2008)
8. Dr Nicolaos Avlonitis (2008)
7. Dr Frank Weisbrock (2007-2008)
6. Dr Amelie Blanrue (2007-2009)
5. Dr Maria Kladi (2007-2008)
4. Dr Joseph Hannah (2006-2007)

3. Dr Eleni Lekka (2001-2002)
2. Dr George Stamatiou (1999- 2000)
1. Dr Anastasia Detsi (1998- 1999)

#### Research Associates

2. Dr Marina Roussaki (2/2019 – to date)
1. Mihalis Tsakos, M.Sc. (2009)

#### Ph.D. Theses (Ongoing)

4. Evnathia Hazapi, M.Sc  
Department of Pharmacy, National Kapodistrian University of Athens  
"Synthesis of heterocyclic antiparasitic compounds",
3. Olga Kirkilesi, M.Sc.  
Department of Pharmacy, National Kapodistrian University of Athens  
"Synthesis of tyrosinase inhibitors and probes for the study of their mechanism of action"
2. Alessia Latorrata, M.Sc.  
Department of Pharmacy, National Kapodistrian University of Athens  
"Synthesis of dehydroepiandrosterone (DHEA) derivatives substituted by three membered-17-spiro substituents"
1. Danielle Narducci, M.Sc.  
Department of Pharmacy, National Kapodistrian University of Athens  
"Synthesis of dehydroepiandrosterone (DHEA) derivatives substituted by five or six membered-17-spiro substituents"

#### Ph.D. Theses (Completed)

6. Ioannis Christopoulos,  
Department of Pharmacy, National Kapodistrian University of Athens  
"Synthesis of natural product analogues possessing inflammatory activity"
5. Athanasia Pantzou  
Department of Pharmacy, National Kapodistrian University of Athens  
Thesis Title: "Design and Synthesis of CNS acting Steroid Derivatives" (Awarded 10/2011)
4. Kalliopi Georgikopoulou  
Department of Pharmacy, National Kapodistrian University of Athens  
Thesis Title: "Bioactive Ether Phospholipids" (Awarded 10/2008).
3. Eftychia Koini  
Department of Pharmacy, National Kapodistrian University of Athens  
Thesis Title: "Neuroprotective Benzoxazine Derivatives" (Awarded 11/2008)
2. Nicolaos Avlonitis

Department of Pharmacy, National Kapodistrian University of Athens

Thesis Title: "Design and Synthesis of Neuroactive Steroids" (Awarded 11/2006)

1. Charikleia Souli

Department of Pharmacy, National Kapodistrian University of Athens

Thesis Title: "GABA<sub>A</sub> Interacting Neurosteroid Derivatives" (Awarded 6/1999)

M.Sc. Theses (Completed)

10. Eleni Tsokou

Department of Biochemistry and Biotechnology, University of Thessaly/National Hellenic Research Foundation.

Thesis Title: "Nanosystems with therapeutic agents for the treatment of osteoarthritis". (Awarded 7/2020)

9. Efstratios Leontaritis

Department of Biochemistry and Biotechnology, University of Thessaly/National Hellenic Research Foundation.

Thesis Title: "Regulatory procedures for the preparation of a registration dossier of a generic medicine at the National Organisation for Medicines" (Awarded 2019)

8. Eva Chazapi

Department of Pharmacy, National Kapodistrian University of Athens

Thesis Title: "Design and Synthesis of Bio-inspired proteasome activators" (Awarded 3-2018).

7. Olga Kirkilessi

Department of Pharmacy, National Kapodistrian University of Athens

Thesis Title: "Design and Synthesis of Steroidal Neurotrophin Mimetics" (Awarded 2017).

6. Ioannis Christopoulos

Department of Pharmacy, National Kapodistrian University of Athens

Thesis Title: "Design and Synthesis of Novel Benzoxazine/Acylhydrazone Hybrid Compounds possessing antimicrobial activity", (Awarded 12/2013).

5. Lefkothea Kalopetridou

Department of Chemistry, National Kapodistrian University of Athens

Thesis Title: "Design and Synthesis of Novel Heterocyclic Compounds with potential inhibitory activity against trypanothione synthetase" (Awarded 2/2011).

4. Panos Aggelou

Department of Pharmacy, National Kapodistrian University of Athens

Thesis Title: Design and Synthesis of New cycloalkylidene-substituted antileishmanial ether phospholipids" (Awarded 11/2004).

3. Eftychia Koini

Department of Pharmacy, National Kapodistrian University of Athens

Thesis Title: "Design and Synthesis of 1,4-benzoxazine and 4-aminobenzopyran derivatives with activity against reperfusion arrhythmias" (Awarded 4/2005).

2. Nicolaos Avlonitis

Department of Pharmacy, National Kapodistrian University of Athens

Thesis Title: "Synthesis of Novel Antileishmanial Ether Phospholipid Derivatives" (Awarded 12/ 2001).

1. Charikleia Souli

Department of Pharmacy, National Kapodistrian University of Athens

Thesis Title: "Neurosteroid Derivatives Possessing Anticonvulsant and anxiolytic activity" (Awarded 12/1996).

**Supervisor of Gyorgi Szaloki** in the context of EU-EST project "Eurodesy" (10/2006 – 4/2008)

#### Diploma Theses (Completed)

4. Dimitra Hatzioannou

Department of Food Science and Technology, University of West Attika

Thesis Title: "Synthesis of Heterocyclic Tyrosinase Inhibitors" (Awarded 2019)

3. Evanthia Chazapi

Department of Chemistry, University of Crete

Thesis Title: "Design and synthesis of new compounds interacting with the olfactory binding protein OBP1 of the malaria vector *Anopheles gambiae*" (Awarded 2015)

2. Christina Kyrkou

Department of Food Science and Technology, University of West Attika

Thesis Title: "Synthesis of hydroxytyrosol analogues as inhibitors of tyrosinase and enzymatic browning" (Awarded 2015)

1. Michalis Pavlou

Department of Food Science and Technology, University of West Attika

Thesis Title: "Design and Synthesis of Hydroxytyrosol Derivatives as Tyrosinase Inhibitors" (Awarded 6/2013)

#### Participation in supervisory committees of M.Sc. Theses (Completed)

2. Lafazanidi Foteini (Awarded 2017)

Department of Bioinformatics, National Kapodistrian University of Athens

Thesis Title: "Virtual screening of compound libraries for the identification of BRAF<sup>V600E</sup> Mutated protein"

1. Kleanthis Xanthopoulos (Awarded 2017)

Department of Bioinformatics, National Kapodistrian University of Athens

Thesis Title: Title Use of molecular modelling approaches for the optimization of new synthetic neurosteroids with agonistic activity on neurotrophin receptors

Participation in supervisory committees of Ph.D Theses (Ongoing)

2. Georgia Nigianni

Department of Pharmacy, National and Kapodistrian University of Athens

1. Maro Bairaktari

Department of Chemical Engineering, National Technical University of Athens

Thesis Title: "Synthesis of new hybrid bioactive compounds and development of nanocarrier systems for their encapsulation"

Internships

Stratos Tsakalidis (9-10/2020); Aikaterini-Marina Tsampari (7-8/2020); Nestor-Ioannis Polyzos (9-10/2015); Panagiotis Katsampanis (10-11/2013); Panayiota Papageorgiou (10-11/2013)

**Funding**

➤ **National**

**20.** "RESEARCH - CREATE - INNOVATE" (EPAnEK 2014-2020). "Preclinical development of innovative neuroprotective and neuroregenerative synthetic microneurotrophins for the therapy of Alzheimer's disease" (2018-2021). *PI NHRF*

**19.** "RESEARCH - CREATE - INNOVATE" (EPAnEK 2014-2020) "Bio-inspired antiaging proteasome activators" (RESET) (2018-2021). *NHRF team member*

**18.** Support of Research Infrastructures (EPAnEK 2014-2020). OPENSREEN-GR: An Open-Access Research Infrastructure of Chemical Biology and Target-Based Screening Technologies for Human and Animal Health Agriculture and the Environment "(2018-2020). *PI NHRF*

**17.** Support of Research Infrastructures (EPAnEK 2014-2020)."BioImaging-GR: A Greek Infrastructure for Visualising and Monitoring Fundamental Biological Processes"(2018-2020). *PI NHRF*

**16.** KRIPIS 2 Project STHENOS-B: "Targeted therapeutic approaches against ageing and degenerative diseases, cancer in particular - Hit compounds optimization" (2017-2020) *NHRF team member*

**15.** Latsis Foundation Grant: "Design and synthesis of new NIR dyes and their application in surface modification of exfoliated graphene "NIRGraph" (2014-2015). *Coordinator*

**14.** Research Funding Program KRIPIS: Project STHENOS: "Targeted therapeutic approaches against ageing and degenerative diseases, cancer in particular" (2013-2015). *NHRF team member*



- 13.** Operational Programme for Competitiveness, GSRT YB/39 (2004-2008). "Therapeutic Interventions Against Protozoan Infections." *Coordinator*
- 12.** Kouponia Kainotomias for SMEs (2011-2012). *PI NHRF*
- 11.** 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 and functional materials" *NHRF team member*
- 10.** 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." *PI NHRF*
- 9.** 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." *NHRF team member*
- 8.** Bilateral Collaboration of Greece–Hungary (2002–2005) "Neuroactive steroids and ionotropic neurotransmitter receptors." *Coordinator*
- 7.** 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" *Coordinator*
- 6.** Bilateral Collaboration of Greece-Italy "Comparative study of benthic organisms from Greece and Italy for the determination and exploitation of their chemical constituents" *Coordinator*
- 5.** PENED 2000 GSRT (2000-01) "Development of new liposomal immunoassays"
- 4.** "Bilateral Collaboration of Greece-Czech Republic "Synthesis and biological evaluation of new melatonin analogues" *PI NHRF*
- 3.** KESY (1993-95) "Synthesis and biological activity of new tamoxifen analogs"
- 2.** YPER (1995-98) " New anxiolytic and anticonvulsant neurosteroids" *Coordinator*
- 1.** National Drug Organisation (1991-94) "Design and Synthesis of alkyllysophospholipids" *Coordinator*

➤ **European**

- 9.** H2020-MSCA-ITN-2017 (2018-2022). A European training network for the discovery of neurotrophin small molecule mimetics as candidate therapeutic agents for neurodegeneration and neuroinflammation. *Coordinator*
- 8.** FP7-HEALTH-2013-INNOVATION-1 (2014-2017) "New Medicines for Trypanosomatid Infections" *P.I. NHRF*
- 7.** FP7-2009-REGPOT-1 (2010-2013) "Advancement of Research Capability for the Development of New Functional Compounds (ARCADE). *Deputy coordinator.*
- 6.** FP6. Marie Curie Host fellowships for Early Stage Research Training (EST) (2006- 2009). EURODESY: A European Research Training Site for the Design and

Synthesis of Novel Neuroprotective and Hypoglycaemic Agents through a Multi-disciplinary approach. *NHRF team member.*

**5.** FP6. Marie Curie Transfer of Knowledge Programme - MTKD-CT-2004-014399 (2005-2009) "Solid-phase phospholipid and dendrimer synthesis" (SOPHOLIDES) *Coordinator*

COST Chemistry, Action CM1307 "Targeted chemotherapy towards diseases caused by endoparasites" (2013 – 2018)

**4.** COST Chemistry, Action CM0801 " New drugs for neglected diseases" (2008 – 2012).

**3.** COST Chemistry, Action D34 "Molecular Targeting and Drug Design in Neurological and Bacterial Diseases" (2005 – 2010).

**2.** COST Medicine, Action B22 "Drug development for parasitic diseases". (2004 – 2007):

**1.** COST D13/0019/01 (2001-2004) "Novel molecules, forms and strategies for treatment of Leishmanial infections"

#### ➤ *International*

#### **Professional Service Agreements with Univ. Connecticut, USA.**

- PSA No 2328 (1998-1999) "Anticancer ether lipids" *Deputy Coordinator*
- PSA No 3324 (2001-02) "Biologically active ether phospholipids" *Coordinator*
- PSA No 3680 (2002-03)"Novel Antioxidants" Deputy *Coordinator.*
- PSA No 4505 (2004-05) "Novel antioxidants and bioactive ether phospholipids" *Deputy Coordinator.*

#### ➤ *Funding from contract research with industry*

- Research collaboration with ELPEN SA. (1999-2001) "Molecular probes for adrenergic receptors"
- Research collaboration with Medexis SA (2005-2006) "Total synthesis of ribenol and derivatives thereof"
- Research collaboration with Medexis SA (2006-2008) "Synthesis and Study of steroid-protein conjugates.
- Research collaboration with Medexis SA (2008-2010) "Synthesis and Study of Na<sup>+</sup>, K<sup>+</sup>-ATPase inhibitors"

#### **Publications**

##### *Ph.D. Thesis*

**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.

##### *Chapters In Books*

- 3. Theodora Calogeropoulou,\*** George E. Magoulas, Ina Pöhner, Rebecca C. Wade,<sup>2</sup> Joanna Panecka-Hofman, Pasquale Linciano, Stefania Ferrari, Maria Paola Costi,\* Nuno Santarem, Ma Dolores Jiménez-Antón, Ana Isabel Olías-Molero, Anabela Cordeiro da Silva and José María Alunda, "Hits and Lead Discovery in the Identification of New Drugs against the Trypanosomatidic Infections" **Chapter 10** in: Medicinal Chemistry of Neglected and Tropical Diseases: Advances in the Design and Synthesis of Antimicrobial Agents, (Edited by: Venkatesan Jayaprakash, Daniele Castagnolo, Yusuf Özkay) CRC Press (**2019**) Pages. 185- 231
- 2.** de Souza, W., Godinho, J., Barrias, E., Roussaki, M., Fernandes Rodrigues, J. C. F., **Calogeropoulou, T.**, "Effects of Phospholipid Analogues on Trypanosomatids." **Chapter 13** in Molecular Biology of Kinetoplastid Parasites (Edited by: Hemanta K. Majumder). Caister Academic Press, U.K. (**2018**) Pages: 221-242. DOI.org/10.21775/9781910190715.13
- 1. 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**

- 78.** Yilmaz, K.; Rogdakis, T.; Latorrata, A.; Thanou, E.; Papadimitriou, E.; Siapi, E.; Katsila, T.; Li, K.W.; **Calogeropoulou, T.**; Charalampopoulos, I.; Alexaki, V.A. "ENT-A010, a Novel Steroid Derivative, Displays Neuroprotective Functions and Modulates Microglial Responses." Biomolecules **2022**, *10*, 614; <https://doi.org/10.3390/biomedicines10030614>.
- 77.** Rogdakis, T.; Charou, D.; Latorrata, A.; Papadimitriou, E.; Tsengenes, A.; Athanasiou, C.; Papadopoulou, M.; Chalikiopoulou, C.; Katsila, T.; Ramos, I.; Prousis K.C.; Wade, R.C.; Sidiropoulou, K.; **Calogeropoulou, T.**; Gravanis, A.; Charalampopoulos, I. "Development and Biological Characterization of a Novel Selective TrkA Agonist with Neuroprotective Properties against Amyloid Toxicity." Biomedicines **2022**, *10*, 614; <https://doi.org/10.3390/biomedicines10030614>
- 76.** Prousis, K.C., Kikionis, S., Ioannou, E., Morgana, S., Faimali, M., Piazza, V.\*, Calogeropoulou, T.,\* Roussis, V.\*. "Synthesis and Antifouling Activity Evaluation of Analogues of Bromosphaerol, a Brominated Diterpene Isolated from the Red Alga *Sphaerococcus coronopifolius*." Mar Drugs **2022** *20*, 7; <https://doi.org/10.3390/md20010007>
- 75.** G. E. Magoulas, P. Afroudakis, K. Georgikopoulou, M. Roussaki, C. Borsari, T. Fotopoulou, N. Santarem, E. Barrias, P. Tejera Nevado, J. Hachenberg, E. Bifeld, B. Ellinger, M. Kuzikov, I. Fragiadaki, E. Scoulica, J. Clos, S. Gul, M. P. Costi, W. de

- Souza, K. C. Prousis, A. Cordeiro da Silva and **T. Calogeropoulou\*** "Design, Synthesis and Antiparasitic Evaluation of Click Phospholipids" *Molecules* **2021**, *26* (14), 4204; <https://doi.org/10.3390/molecules26144204>
- 74.** G. E. Magoulas, Lefkothea Kalopetridou, AnaĆirić, Eftichia Kritsi, Paraskevi Kouka, P. Zoumpoulakis, N. Chondrogianni, M. Soković, K. C. Prousis, **T. Calogeropoulou\*** "Synthesis, biological evaluation and QSAR studies of new thieno[2,3-d]pyrimidin-4(3H)-one derivatives as antimicrobial and antifungal agents" *Bioorg Chem.* **2021**, *106*, 104509. <https://doi.org/10.1016/j.bioorg.2020.104509>
- 73.** E. Chazapi, G. E. Magoulas, K. C. Prousis, **T. Calogeropoulou\*** "Phospholipid Analogues as Chemotherapeutic Agents Against Trypanosomatids" *Curr. Pharm. Des.* **2021**, *27*, 1790-1806. <https://doi.org/10.2174/1381612826666201210115340>
- 72.** N. Kokras, C. Dioli, R. Paravatou, M. G. Sotiropoulos, F. Delis, Katerina Antoniou, **T. Calogeropoulou**, I. Charalampopoulos, A. Gravanis, C. Dalla; "Psychoactive properties of BNN27, a novel neurosteroid derivate, in male and female rats" *Phycopharmacology* **2020**, *237*, 2435–2449. <https://doi.org/10.1007/s00213-020-05545-5>
- 71.** A. A. Panagiotopoulos, C. Papachristofi, K. Kalyvianaki, P. Malamos, P. A. Theodoropoulos, G. Notas, **T. Calogeropoulou**, E. Castanas, M. Kampa; "A simple open source bio-informatic methodology for initial exploration of GPCR ligands' agonistic/antagonistic properties" *Pharmacol. Res. Perspect* **2020**, 2020;00:e00600. | 1 of 12. <https://doi.org/10.1002/prp2.600>
- 70.** K.C. Prousis, R. Canton-Vitoria, G. Pagona, M. Goulielmaki, V. Zoumpourlis, N. Tagmatarchis, **T. Calogeropoulou\*** "New cationic heptamethinecyanine-graphene hybrid materials" *DYES PIGMENTS* **2020**, *175*, 108047.
- 69.** E. Barrias, L. C. Reignault, **T. Calogeropoulou**, W. de Souza; "In vitro activities of adamantylidene-substituted alkylphosphocholine TCAN26 against *Trypanosoma cruzi*: Antiproliferative and ultrastructural effects" *Exp. Parasitol.* **2019**, *206*, 107730.
- 68.** C. B. Moraes, G. Witt, M. Kuzikov, B. Ellinger, **T. Calogeropoulou**, K. C. Prousis, S. Mangani, F. Di Pisa, G. Landi, L. D. Iacono, C. Pozzi, L. H. Freitas-Junior, B. S. Pascoalino, C. P. Bertolacini, B. Behrens, O. Keminer, J. Leu, M. Wolf, J. Reinshagen, A. Cordeiro-da-Silva, N. Santarem, A. Venturelli, S. Wrigley, D. Karunakaran, B. Kebede, I. Pöhner, W. Müller, J. Panecka-Hofman, R. C. Wade, M. Fenske, J. Clos, J. M. Alunda, M. Jesús Corral, E. Uliassi, M. L. Bolognesi, P. Linciano, A. Quotadamo, S. Ferrari, M. Santucci, C. Borsari, M.P. Costi, and S. Gul; "Accelerating Drug Discovery Efforts for Trypanosomatidic Infections Using an Integrated Transnational Academic Drug Discovery Platform" *SLAS Discovery* **2019**, *24*, 346-361.

67. Potamitis, C., Siakouli, D., Papavasileiou, K., Boulaka, A., Ganou, V., Roussaki, M., **Calogeropoulou, T.**, Zoumpoulakis, P., Alexis, M.N., Zervou, M., Mitsiou, D.J. "Discovery of New Non-steroidal Selective Glucocorticoid Receptor Agonists" J. Ster. Biochem. Mol. Biol. **2019**, *186*, 142-153.
66. Sant'Anna V., Railbolt M., Oliveira-Menezes A., **Calogeropoulou T.**, Pinheiro J., de Souza W. "Ultrastructural study of effects of alkylphospholipid analogs against nematodes" Exp. Parasitol. **2018**, *187*, 49-58.
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## PATENTS

**14.** PCTEP2021075969, 22/09/2021 "Compound for use in the treatment of protozoal diseases and process for production of said compound". Applicant: QuadrEL Srl. Inventors: **Calogeropoulou, T.** Prousis, K.C., Roussaki, M., Magoulas, G.E., Fotopoulou T.

**13.** GR 20200100577, 22/09/2020 "Compound for use in the treatment of protozoal diseases and process for production of said compound". Applicant: National Hellenic Research Foundation. Inventors: **Calogeropoulou, T.** Prousis, K.C., Roussaki, M., Magoulas, G.E., Fotopoulou T.

**12.** PCT/GR2019/000018, "Bioinspired proteasome activators with antiageing activity". Applicant: National Hellenic Research Foundation. Inventors: Koufaki M., **Calogeropoulou T.**, Chondrogianni N., Papahatjis D., Gonos E., Fotopoulou T., Prousis K., Chazapi E.

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10. US 8,097,752 (issued 17-1-2012) "Antiprotozoal ring-substituted phospholipids" Inventors: **T. Calogeropoulou**, M. Koufaki, N. Avlonitis, A. Makriyannis
9. WO2008155534, GB20070011948, CA2691071, AU2008265046, US2010234335, KR20100040292, EP2158209, CN101784558, EA201070027 "Neurosteroid compounds" Inventors: Gravanis A., **Calogeropoulou T.**, Charalampopoulos I., Avlonitis N., Castanas E., Margioris A., Tsatsanis C., Minas V., Alexaki V.-I., Alexis M., Remboutsika E., Vergou B., Neophytou C. Applicant: Bionature EA Ltd, Cyprus
8. US20100369568 "Compounds and methods for treating neoplasia" Inventors: Alevizopoulos K.; **Calogeropoulou T.**; Stournaras C.
7. WO2011030116, SG179049, CA2773600 "Use of steroid compounds for inflammatory and autoimmune disorders" Inventors: Panoutsakopoulou V.; Angelakopoulou M.; **Calogeropoulou T.**; Gravanis A.; Lazaridis I.; Neophytou C.. Applicant: Bionature EA Ltd, Nicosia, Cyprus
6. GR 1003861 "GABA<sub>A</sub> MODULATING NEUROSTEROIDS" Inventors: **T. Calogeropoulou**, C. Souli, A. Tsotinis, A. Makriyannis
5. GR20080100530 "1,4-Benzoxazine Derivatives" Inventors: **Calogeropoulou, T.**; Koini, E.; Alexis, M.N.; Avlonitis, N.; Alexi, X.
4. US2005176976, US7064116, WO02053577, GR-1003861, AU2002217353 GABA<sub>A</sub> MODULATING NEUROSTEROIDS. Inventors: **T. Calogeropoulou**, C. Souli, A. Tsotinis, A. Makriyannis
3. GR20050100100 (2/3/05) «Ultrasound contrast agents containing anticancer ether phospholipids" Inventors: **Theodora Calogeropoulou**, Maria Koufaki.
2. GR 1003725 "Bifunctional agents possessing antioxidant and antiarrhythmic activity" Applicants and Inventors: Maria Koufaki, **Theodora Calogeropoulou**, Alexandros Makriyannis
1. GR-1003103 "1-(2-Alkoxy-5-carboxyphenyl)- $\alpha,\beta$ -unsaturated ketones. Their preparation and application in therapeutics." Inventors: A. Tsotinis, **T. Calogeropoulou**, C. Roussakis, V. Roussis.

### Presentations

>140 Presentations in International Symposia and 30 Presentations in National Symposia

**Invited presentations to peer-reviewed, internationally established conferences**

- 11th Joint Meeting on Medicinal Chemistry 2019, June 27–30, 2019, Prague, Czech Republic. "Constrained Miltefosine Derivatives. The Journey Towards Nmt-A2, A New Drug Lead For Visceral Leishmaniasis"
- Invited Lecture at the University of Modena, Reggio Emilia, Department of Pharmacy, 25 May, 2018. Development of antiparasitic constrained ether phospholipids. New drug leads against leishmaniasis.
- 18<sup>th</sup> Drug Design & Development Seminar (DDDS) of the German Society for Parasitology (DGP) March 30<sup>th</sup> – 31<sup>st</sup>, **2017**, Borstel, Germany, Heteroaryl- and aryl-substituted miltefosine derivatives.
- 66<sup>th</sup> Congress of the Hellenic Society of Biochemistry and Molecular Biology, Athens, 12/**2015**. Development of antiparasitic constrained ether phospholipids. New drug leads against leishmaniasis.
- 3rd COST Action CM1307 Conference /SOCEPA/SEFIG joint meeting Madrid,10/**2016** Antiparasitic Chemotherapy for Human and Veterinary Use. "Dinitroaniline-Ether Phospholipid Hybrids."
- 1<sup>st</sup> International CRS Congress, Athens 27-28 May **2015**. Antiparasitic constrained ether phospholipid derivatives with broad spectrum activity against trypanosomatidic infections.
- COST ACTION CM1307 2nd CONFERENCE, 10/**2015** Belgrade, Serbia. Design, synthesis and evaluation of antiparasitic activity of heteroaryl-substituted ether phospholipid derivatives.
- COST ACTION CM1307 1<sup>st</sup> Conference / Capf Joint Meeting, Calvi, Corsica, France. 10/**2014**. "Design, Synthesis and Study of the Mechanism of Action of Potent Antiparasitic Ether Phospholipids".
- COST Action CM0801 2<sup>nd</sup> Annual Meeting, (Siena, Italy), 28/05-29/05/**2010** "Anti-leishmanial and Anti-trypanosomal Constrained Ether Phospholipid Derivatives"
- 10<sup>th</sup> DDDS (3/**2009**, Germany) "Design, Synthesis and Evaluation of Anti-leishmanial and Anti-trypanosomal Activities of Ring-Substituted Ether Phospholipid Derivatives"
- 11<sup>th</sup> Cyprus Conference on New Methods in Drug Research, (Limassol, Cyprus, May **2008**) "Ether Phospholipid Derivatives: Design, Synthesis and Evaluation of Antiparasitic Activity"
- 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."
- Medicinal Chemistry in Parasitology (Modena, Italy, February **2007**), "Phospholipid Analogues as Antileishmanial Agents"

- COST ACTION B22, Dundee, UK, (10-13 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".

### Organisation of conferences

Member of the Organizing Committee of 10 Greek and 6 International Symposia.

**2021:** Co-organiser of the International Conference on "Neurotrophic Factors and Neurodegenerative Disorders; Current Advances and Future Perspectives" August 27th-29th 2021.

**2021:** Member of the International Scientific Committee of EFMC-ISM 2022  
XXVII EFMC International Symposium on Medicinal Chemistry

**2021:** Member of the Organizing Committee of 71<sup>st</sup> National Conference of Hellenic Society of Biochemistry and Molecular Biology <https://eebmbcongress.gr>

**2020:** Member of the Organizing Committee of 18th Hellenic Symposium on Medicinal Chemistry ([www.helmedchem2020.gr](http://www.helmedchem2020.gr))

**2016.** Session chair of XXIV EFMC International Symposium on Medicinal Chemistry (EFMC-ISM2016), Manchester 28 August-1 September, 2016. Session 5.3. "Current Advances and Future Opportunities for the Treatment of Neurodegenerative Disorders"

**2012:** Organiser of the COST CM0801 4th Annual Meeting on New Drug for Neglected Diseases, at Kolympari, Crete, Greece.

**2006:** Organizer of the COST B22 3rd Annual Congress on Drug Design and Development for parasitic diseases

**2001:** Organizer of the COST D13 Mid-Term Evaluation Symposium