

# 2<sup>nd</sup> SWEDISH-HELLENIC

## LIFE SCIENCE RESEARCH CONFERENCE

National Hellenic Research Foundation - Örebro Life Science Center



## Programme



17–21 October 2007  
Athens, Greece

### Conference Venue:

National Hellenic Research  
Foundation  
48 Vassileos Constantinou Ave.  
Athens, Greece



### Hosted by:

National Hellenic Research  
Foundation (NHRF)

### Organizing & Program Committee:

- **Prof. Fragiskos Kolisis**  
NHRF, Greece
- **Assoc. Prof. Nikolaos Venizelos**  
ÖLSC, Örebro University, Sweden

## **Organized by:**

➤ **National Hellenic Research Foundation (NHRF)**

Prof. D.A. Kyriakidis, President

**Institute of Biological Research & Biotechnology (IBRB)**

Prof. Fragiskos Kolisis, Director

**Theoretical & Physical Chemistry Institute (TPCI)**

Dr. E.I. Kamitsos, Director

**Institute of Organic & Pharmaceutical Chemistry (IOPC)**

Dr. Nikos G. Oikonomakos, Director

➤ **Örebro Life Science Centre (ÖLSC), Örebro University**

**Department of Natural Sciences (NAT)**

Prof. Åke Strid (chair of the Dept. of Natural Sciences)

Prof. Per-Erik Olsson (chair of the Div. of Biology)

Prof. Leif A. Eriksson (chair of the Div. of Biophysical Chemistry)

**Department of Clinical Medicine (IKM)**

Assoc. Prof. Allan Sirsjö (chair of Div. of Biomedicine)

Prof. Carina Johansson (chair of Div. Medical Technology)

Assoc. Prof. Nikolaos Venizelos (chair of Biomedicine Research-Colleague)

**2<sup>nd</sup> Swedish-Hellenic Life Science Research Conference**  
**18-19 October 2007**  
**Athens, Greece**  
**hosted by the National Hellenic Research Foundation**

P r o g r a m m e

18 October 2007

09:00-09:10 Opening : Welcome

Professor F. Kolisis, Chair of Conference and Director of IBRB/NHRF  
 Professor Ake Strid, Chair of ÖLSC  
 Assoc. Prof. N. Venizelos, Chair of Conference Committee ÖLSC

Chair F. Kolisis - N. Venizelos

09:15-09:35 “Vitamin A metabolism and signalling in Arteriosclerosis”  
 Dr. Allan Sirsjo, Professor and Chair of Div. of Biomedicine  
 Dept. of Clinical Medicine

09:35-09:55 “Molecular endocrinology and sex determination”  
 Dr. Per-Erik Olsson, Professor and Chair of the Div. of Biology  
 Dept. of Natural Sciences

09:55-10:15 “Molecular physiology and pharmacology of estrogen and  
 glucocorticoid receptors”  
 Dr. Michael N. Alexis, Research Director  
 Institute of Biological Research & Biotechnology

*Discussion 10: 15 – 10.30*

10:30-11:00 **Coffee Break - Poster Presentations**

Chair S.A. Kyrtopoulos - A. Sirsjo

11:00-11:20 “Cellular studies of anthropogenic environmental factors”  
 Dr. Mats-Olof Mattsson, Professor of Cell Biology  
 Dept. of Natural Sciences

11:20-11:40 “Studies of Ah receptor agonists in the environment”  
 “Studies of avian developmental toxicity of perfluorinated chemicals”  
 Dr. Magnus Engwall, Assoc. Professor in Environmental Toxicology”  
 Dept of Natural Sciences

11:40-12:00 “Mechanistic and molecular epidemiology studies on environmental  
 carcinogenesis and genetic toxicology”  
 Dr. Soterios Kyrtopoulos, Research Director  
 Institute of Biological Research & Biotechnology

12:00-12:20 “Tyrosine transport in fibroblasts from schizophrenic patients and  
 healthy controls”  
 Dr. Nikolaos Venizelos, Assoc. Professor, Biomedicine  
 Dept. of Clinical Medicine

12:20-12:40 “Genetic influence in rheumatoid arthritis”  
Dr. Gunilla A. Lundberg, Assoc. Professor in Molecular Biology,  
Biomedicine, Dept. of Clinical Medicine

12:40-13:00 “RNA binding proteins and their participation in human  
pathophysiology”  
Dr. Apostolia Guialis, Research Director  
Institute of Biological Research & Biotechnology

*Discussion 13:00 – 13:15*

13:15-15:00 **Lunch Break - Poster Presentations**

15:00-15:20 “Antioxidant constituents and oxidizing enzyme activities in virgin  
olive oil/olives and *Spirulina (Arthrospira)*”  
Dr. Theodore Sotiroudis, Research Director  
Institute of Biological Research & Biotechnology

15:20-15:40 “Genomics of cancer mutations and novel targeted therapeutics”  
Dr. Alexander Pintzas, Research Director  
Institute of Biological Research & Biotechnology

15:40-16:00 “Longevity assurance molecular pathways in human cells”  
Dr. Stathis Gonos, Research Director  
Institute of Biological Research & Biotechnology

Chair S.A. Kyrtopoulos - A. Strid

16:00-18:00 **Panel discussion / and parallel discussion of group with common  
interests**

(Project leaders will summarize and discuss thoroughly, concrete presumptive  
collaborations, joint grant proposals, etc.)

20:00 **Dinner**

19 October 2007

Chair N. Oikonomakos - M. Engwall

09:00-09:20 “Majastridin – the three dimensional structure of a novel prokaryotic  
glycosyl transferase at 1.1 Å resolution”  
Dr. Ake Strid, Professor of Biochemistry, Chair of ÖLSC  
Dept. of Natural Sciences

09:20-09:40 “Computational study on the molecular basis of furocoumarins photo-  
chemotherapy”  
Ms Patricia Saenz-Mendez, PhD  
Div. of Chemistry, Dept. of Natural Sciences

09:40-10:00 “Tripartite cell signaling between urogenital pathogens, *Lactobacillus* sp  
and human tissue cells”  
Dr. Jana Jass, Assoc. Professor in Biology/Microbiology  
Dept. of Natural Sciences

*Discussion 10:00 - 10:15*

10:15-11:00 **Coffee Break – Poster Presentations**

- 11:00-11:10 “Biocatalysis in organized media - Biomimetics”  
Dr. Aris Xenakis, Research Director  
Institute of Biological Research & Biotechnology
- 11:10- 11:30 “Synthetic approaches towards antioxidants, iron chelators and dendrimeric drug delivery systems”  
Dr. Barry R. Steele, Research Director  
Institute of Organic & Pharmaceutical Chemistry
- 11:30-11:50 “Design and synthesis of antiparasitic and neuroactive compounds”  
Dr. Theodora Calogeropoulou, Research Director  
Institute of Organic & Pharmaceutical Chemistry
- 11:50-12:00 “Novel bicyclic and tricyclic cannabinoids”  
Dr. Demetris P. Papahatjis, Research Director  
Institute of Organic & Pharmaceutical Chemistry
- 12:00-12:10 “Hybrid molecules possessing cardioprotective or neuroprotective activity”  
Dr. Maria Koufaki, Senior Researcher  
Institute of Organic & Pharmaceutical Chemistry
- 12:10-12:20 “ $\beta$ -D-Glucopyranosyl-modified thiosemicarbazones as potent inhibitors of glycogen phosphorylase”  
Dr. Ioannis D. Kostas, Research Director  
Institute of Organic & Pharmaceutical Chemistry
- 12:20-12:30 “New nanomaterials for the photodynamic therapy of cancer”  
Dr. Carolina Villalonga-Barber, Researcher  
Institute of Organic & Pharmaceutical Chemistry
- 12:30-12:40 “Crystallization and preliminary crystallographic studies of a new alkaline xylanase III (F/10) from *Fusarium Oxysporum*”  
Dr. Evangelia D. Chrysina, Researcher  
Institute of Organic & Pharmaceutical Chemistry

*Discussion 12:40 – 13.00*

13:00-15:00 **Lunch Break - Poster Presentations**

Chair E.I. Kamitsos - P.E. Olsson

- 15:00-15:20 “Mesoscopic modeling of DNA: The statistical physics of melting, unzipping and hairpin formation”  
Dr. N. Theodorakopoulos, Research Director  
Theoretical & Physical Chemistry Institute
- 15:20-15:40 “Vibrational spectroscopy characterization of bio-related materials”  
Dr. G.D. Chryssikos, Research Director  
Theoretical & Physical Chemistry Institute
- 15:40-16:00 “Functionalized carbon nanostructures for biotechnological applications”  
Dr. N. Tagmatarchis, Senior Researcher  
Theoretical & Physical Chemistry Institute
- 16:00-16:20 “Interaction of short wavelength light with bio-matter in vivo and in vitro”  
Dr. C. Cefalas, Research Director  
Theoretical & Physical Chemistry Institute

*Discussion 16:20 – 16.40*

16:40-17:30 **Poster Presentations**

Chair E.I. Kamitsos - M.O. Mattsson

17:30-18:00 **Panel discussion / and parallel discussion of group with common interests**

(Project leaders will summarize and discuss thoroughly, concrete presumptive collaborations, joint grant proposals, etc.)

20:00

*Dinner*

## **POSTER PRESENTATIONS**

### ***ÖLSC, Örebro University***

**Formation of dioxin-like compounds as photoproducts of decaBDE during UV-irradiation**

Magnus Engwall, Environmental toxicology, MTM Research Center, Department of Natural Sciences, Örebro University, Sweden.

**Comparison of bioassay- and chemical analysis in risk assessment of PAH-contaminated remediated soils**

Magnus Engwall, Environmental toxicology, MTM Research Center, Department of Natural Sciences, Örebro University, Sweden.

**Polymorphism in the CYP 26 B1 gene and association with myocardial infarction**

Allan Sirsjö, Division of Biomedicine, Department of clinical medicine, University of Örebro, Sweden.

**The CYP26 Inhibitor R115866 Increases retinoid signalling in rat intimal smooth muscle cells**

Allan Sirsjö, Division of Biomedicine, Department of clinical medicine, University of Örebro, Sweden.

**Gene Profiling of the atherosclerotic lesion after all-trans retinoic acid treatment**

Allan Sirsjö, Division of Biomedicine, Department of clinical medicine, University of Örebro, Sweden.

**Transformed Arabidopsis Producing the HIV-1 Subtype C p24 Capsid Protein Elicits Immune Response in Mice upon Oral Delivery**

Ingrid Lindh, Irina Kalbina, Andreas Bråve, Jorma Hinkula, Åke Strid and Sören Andersson.

Örebro Life Science Center and Department of Science, Örebro University; Department of Clinical Microbiology, Örebro University Hospital; Department of Molecular and Clinical Medicine (IMK), Faculty of Health Sciences, Linköping University; Department of Virology, Immunology and Vaccinology, Swedish Institute for Infectious Disease Control, Sweden.

**Properties, Metabolism and Permeability of 5-Aminolevulinic Acid**

Edvin Erdtman, Department of Natural Sciences and Örebro Life Science Center, Örebro University, Sweden.

**Amino acid transport systems in fibroblasts from schizophrenic patients and healthy controls**

Vumma R, Wiesel FA, Flyckt L, Bjerkenstedt L, and Venizelos N.

<sup>1</sup>Dept of Clinical Medicine, Biomedicine, Örebro University, Örebro, Sweden.

<sup>2</sup>Department Department of Neuroscience, Psychiatry, Uppsala University Hospital;

<sup>3</sup>Department of Psychiatry, R&D Section, Danderyd Hospital, Danderyd;

<sup>4</sup>Department of Clinical Neuroscience, Karolinska Institute, Stockholm

**Kinetics of tyrosine transport and cognitive functioning in schizophrenia**

Edman G, Wiesel FA, Flyckt L, Eriksson Å, Nyman H, Bjerkenstedt l and Venizelos N.

<sup>1</sup>Department of Psychiatry, R&D Section, Danderyd Hospital, Danderyd;

<sup>2</sup>Department of Neuroscience, Psychiatry, Uppsala University Hospital;

<sup>3</sup>Department of Clinical Neuroscience, Karolinska Institute, Stockholm;

<sup>4</sup>Dept of Clinical Medicine, Biomedicine, Örebro University, Örebro, Sweden

**Identification of an endocrine disrupting compound with androgen agonist activity**

Anders Larsson, Per Ivarsson\*, Leif A. Eriksson, Per-Erik Olsson

Department of Natural Sciences, Örebro, University, Sweden, \*Lantmännen Analycen AB, Lidköping, Sweden.

**Impaired somite development following *ff1a* knockdown in zebrafish (*danio rerio*)**

Johnny Karlsson, Jonas von Hofsten \*, Jarno Koskinen and Per-Erik Olsson

Department of Natural Sciences, Örebro

University, Sweden; \* Department of Molecular Biology, Umeå University, Sweden

**Expression of inflammatory markers in placenta**

Hilja Strid

Medicine, Dept. of Clinical Medicine, KFC, Orebro University Hospital, Sweden.

***Institute of Biological Research & Biotechnology***

**ErbB2/HER2 overexpression modifies the sensitivity of breast cancer cells to estrogens and leads to deregulation of cyclinD1 and IEX-1 genes: implications for tamoxifen resistance**

Cedric Gouedard,<sup>1</sup> Y. Mylona-Vidali<sup>1</sup>, D.J. Mitsiou<sup>1</sup>, M.N. Alexis<sup>1</sup>

<sup>1</sup> Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

**Hormonal and anti-cancer properties of prenylated phytoestrogens**

Xanthippi Alexi,<sup>1</sup> AK. Meligova<sup>1</sup>, M. Halabalaki<sup>2</sup>, N. Aligiannis<sup>2</sup>, E.S. Katsanou<sup>1</sup>,

S. Mitakou<sup>2</sup>, A-L. Skaltsounis<sup>2</sup>, M.N. Alexis<sup>1</sup>

<sup>1</sup> Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens,

<sup>2</sup> Department of Pharmacy, University of Athens

**Neuroprotective stilbenoids: Do they exhibit estrogen receptor (ER) agonist or antagonist activity?**

Aggeliki K Meligova<sup>1</sup>, C Villalonga-Barber<sup>2</sup>, X Alexi<sup>1</sup>, M Micha-Skrettas<sup>2</sup>, BR Steele<sup>2</sup>, CE Kouzinos<sup>2</sup>, CG Skrettas<sup>2</sup>, ES Katsanou<sup>1</sup>, MN Alexis<sup>1</sup>

<sup>1</sup> Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

<sup>2</sup> Institute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens

**Production and characterization of antibodies to estrogen receptor subtypes and isoforms effective for use on routinely-processed human tissues**

Niki I Chantzi<sup>1</sup>, AK Meligova<sup>1</sup>, E Dimolea<sup>1</sup>, A Pechtelidou<sup>1</sup>, I.Florentin<sup>1</sup>, DJ Mitsiou<sup>1</sup>, H Karaiossifidi<sup>2</sup>, Ch Kittas<sup>3</sup>, DG Tiniakos<sup>3</sup>, MN Alexis<sup>1</sup>

<sup>1</sup> Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

<sup>2</sup> “Helena Venizelou” General and Maternity District Hospital, Athens

<sup>3</sup> Medical School, University of Athens

**Estrogen receptor status of human prostate neoplasia**

Paraskevi Oikonomou<sup>1,2</sup>, C. Petraki<sup>3</sup>, K. Dimosthenous<sup>3</sup>, A Pantelidaki<sup>3</sup>, MN Alexis<sup>1</sup>.

<sup>1</sup> Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

<sup>2</sup> University of Padua

<sup>3</sup> Evangelismos Hospital, Athens

**Scavenging of N,N-Dimethyl-p-phenylene diamine radical cation by metal chelators: The case of hydrophilic constituents of *Spirulina (Arthrospira)***

T.G. Sotiroudis, V. Tsapra, E. Tzika, V. Papadimitriou, A.Xenakis

Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

**The specific transcription factor TAF15 can associate with a subset of the spliceosomal U1 snRNP complex**

M. Leichter<sup>1</sup>, M. Marko<sup>1</sup>, M. Patrino-Georgoula<sup>1</sup>, L. Tora<sup>2</sup>, A.Guialis<sup>1\*</sup>

<sup>1</sup> National Hellenic Research Foundation, Athens

<sup>2</sup> IGBMC/CNRS, Strasbourg, France

**Interaction of hnRNP M with factors involved in transcription and RNA processing**

Marko M, Leichter M, Patrino-Georgoula M and Guialis A\*

Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

**TRAIL induced apoptosis in freshly isolated colon cancer cells: An in vitro and in vivo sensitivity via death receptor upregulation**

Eftychia Oikonomou, Georgios Zografos, Ladislav Andera, Alexandros Pintzas

Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

**ANDROMEDA: a platform for versatile 2-coloured microarray analysis platform implemented in MATLAB**

Panagiotis Moulos, Aristotelis Chatziioannou, Fragiskos N. Kolisis

Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

**Biocompatible microemulsions with olive oil. Formulation, structure and applications**

Aristotelis Xenakis, Vassiliki Papadimitriou, Stavroula Syrou, and Theodore G. Sotiroudis

Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

**Surfactantless microemulsions and relative organogels as matrices for phenolic acids esterification**

A. Xenakis, T. Karandreas, E. Merianou, M. Zoumpanti, H.Stamatis

Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

**The global genome repair subpathway of nucleotide excision repair plays a crucial role in the repair of melphalan-induced DNA monoadducts**

Episkopou HG<sup>1</sup>, Fousteri MJ<sup>2</sup>, Mullenders LHF<sup>2</sup>, Sfikakis PP<sup>3</sup>, Dimopoulos MA<sup>4</sup>, Kyrtopoulos SA<sup>1</sup>, Souliotis VL<sup>1</sup>

<sup>1</sup> Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

<sup>2</sup> Department of Toxicogenetics, Leiden University Medical Center, Leiden University, Leiden, The Netherlands

<sup>3</sup> First Department of Propedeutic Medicine, University of Athens, School of Medicine, Athens

<sup>4</sup> Department of Clinical Therapeutics, University of Athens, School of Medicine, Athens

**Melphalan-induced DNA damage *in vitro* as predictor for clinical outcome in multiple myeloma**

Souliotis VL<sup>1</sup>, Dimopoulos MA<sup>2</sup>, Anagnostopoulos A<sup>2</sup>, Bamia C<sup>3</sup>, Sfikakis PP<sup>4</sup>, Kyrtopoulos SA<sup>1</sup>

<sup>1</sup> Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

<sup>2</sup> Department of Clinical Therapeutics, University of Athens, School of Medicine,

<sup>3</sup> Department of Hygiene and Epidemiology, University of Athens, School of Medicine

<sup>4</sup> First Department of Propedeutic Medicine, University of Athens, School of Medicine

**NewGeneris: A FP6 Integrated Project on Newborns and Genotoxic Exposure Risks**

M. Botsivali

Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

**ECNIS: A FP6 Network of Excellence on Environmental Cancer, Nutrition and Individual Susceptibility**

M. Botsivali

Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

**Mechanism-based approaches to improved risk assessment of ambient air polycyclic aromatic hydrocarbons (PAH): The AMBIPAH project**

G. Koukouves, V.L. Souliotis and S.A. Kyrtopoulos

Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

**Development of sensitive, high-throughput methods for the detection of O6-methylguanine DNA alkyltransferase (MGMT) and O6-methylguanine adducts**

E. Makedonopoulou, P. Georgiadis and S.A. Kyrtopoulos

Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

**The effect of N-methyl-N-nitrosourea on cell cycle and apoptosis is cell type dependent**

A. Koryllou, A. Dimozi, M.Patrinou-Georgoula, A. Guialis, S.A. Kyrtopoulos and V.Pletsa

Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

## ***Institute of Organic & Pharmaceutical Chemistry***

### **Solution phase synthesis of a polyether dendron and its immobilisation on a solid-phase support**

Tomasz K. Olszewski, Claudine Patteux, Georgios A. Heropoulos, Barry R. Steele and Maria Micha-Screttas

Institute of Organic & Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens

### **Design and Synthesis of new hydroxy-terminated dendrimers. Initial studies of the encapsulation mechanism using Molecular Modeling techniques**

Konstantinos Gardikis<sup>a,b</sup>, Theodoros Felekis<sup>a</sup>, Barry R. Steele<sup>a</sup>, Panagiotis Zoumpoulakis<sup>a</sup>, Constantinos G. Screttas<sup>a</sup>, Costas Demetzos<sup>b</sup> and Maria Micha-Screttas<sup>a</sup>

<sup>a</sup> Institute of Organic & Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens

<sup>b</sup> University of Athens, School of Pharmacy, Dept of Pharmaceutical, Athens

### **Dendrimer modified solid phase supports**

Claudine Patteux, Tomasz K. Olszewski, Barry R. Steele, Georgios A. Heropoulos, and Maria Micha-Screttas

Institute of Organic & Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens

### **Design and synthesis of novel 1,2-dithiolane analogues and evaluation of their neuroprotective activity**

Kiziridi C.<sup>a</sup>, Koufaki M.<sup>a</sup>, Nikoloudaki F.<sup>b</sup>, Alexis, M. N.<sup>b</sup>

<sup>a</sup> Institute of Organic & Pharmaceutical Chemistry and <sup>b</sup> Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

### **Synthesis of 4-isopropyl tropolone derivatives possessing neuroprotective activity**

Theodorou E.<sup>a</sup>, Nikoloudaki F.<sup>b</sup>, Alexis, M. N.<sup>b</sup>, Koufaki M.<sup>a</sup>

<sup>a</sup> Institute of Organic & Pharmaceutical Chemistry and <sup>b</sup> Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

### **Novel pharmacological compounds as triggers of preconditioning in vivo**

Fotopoulou T.<sup>a</sup>, Iliodromitis E. K.<sup>c</sup>, Koufaki M.<sup>a</sup>, Tsotinis A.<sup>b</sup>, Zoga A.<sup>b</sup>, Gizas V.<sup>b</sup>, Pyriochou A.<sup>d</sup>, Papapetropoulos A.<sup>d</sup>, Kremastinos D. Th.<sup>c</sup>, Andreadou I.<sup>b</sup>

<sup>a</sup>National Hellenic Research Foundation, Institute of Organic & Pharmaceutical Chemistry, Athens.

<sup>b</sup>Faculty of Pharmacy, Department of Pharmaceutical Chemistry, University of Athens,

<sup>c</sup>Second University Department of Cardiology, Medical School, Attikon General Hospital, University of Athens

<sup>d</sup>Laboratory of Molecular Pharmacology, Department of Pharmacy, University of Patras

### **Design and Synthesis of Novel 1,4-Benzoxazine and 4-Aminobenzopyran Analogues Active against Reperfusion Arrhythmias**

Theodora Calogeropoulou<sup>1\*</sup>, Eftihia Koini<sup>1</sup>, Maria Koufaki<sup>1</sup>, Athanassios Vassilopoulos<sup>2</sup>, Panagiota Papazafiri<sup>2</sup>

<sup>1</sup>Institute of Organic & Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens

<sup>2</sup>Division of Animal and Human Physiology, School of Biology, University of Athens

### **New halogenation method of oxygenated aromatic compounds**

Eftychia Koini, Theodora Calogeropoulou\*

Institute of Organic & Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens

**Synthetic neuroactive steroids: GABA<sub>A</sub> modulation and neuroprotective activity**

N. Avlonitis<sup>1</sup>, T. Calogeropoulou<sup>1\*</sup>, I. Charalambopoulos<sup>2</sup>, A. Gravanis<sup>2</sup>, T. Biro<sup>3</sup>, G. Maksay<sup>3</sup>

<sup>1</sup>Institute of Organic & Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens

<sup>2</sup>Department of Pharmacology, School of Medicine, University of Crete

<sup>3</sup>Hungarian Academy of Sciences, Chemical Research Center, Institute of Chemistry, Department of Molecular Pharmacology, Hungary

**Design and synthesis of new synthetic neuroactive steroids**

N. Avlonitis<sup>1</sup>, G. Szaloki<sup>1</sup>, M.N.Alexis<sup>2</sup>, E. Katsanou<sup>2</sup>, A. Gravanis<sup>3</sup> and T. Calogeropoulou<sup>1\*</sup>

<sup>1</sup>Institute of Organic & Pharmaceutical Chemistry and <sup>2</sup>Institute of Biological Research & Biotechnology, National Hellenic Research Foundation, Athens

<sup>3</sup>Department of Pharmacology, School of Medicine, University of Crete, Heraklion

**Novel 3,4-Dihydro-2H-1,4-Benzoxazines: Synthesis and Biological Evaluation as Neuroprotective Antioxidants**

Koini Eftychia<sup>1</sup>, Avlonitis Nikolaos<sup>1</sup>, Nikoloudaki Faidra<sup>2</sup>, Alexis Michalis<sup>2</sup> and Calogeropoulou Theodora<sup>1\*</sup>

<sup>1</sup>Institute of Organic & Pharmaceutical Chemistry  
National Hellenic Research Foundation, Athens

<sup>2</sup>Institute of Biological Research & Biotechnology  
National Hellenic Research Foundation, Athens

**Ether Phospholipid Derivatives: Design, Synthesis and Evaluation of Antileishmanial Activity**

Georgikopoulou K.<sup>1</sup>, Koini E.<sup>1</sup>, Calogeropoulou T.<sup>1\*</sup>, Scoulica E.<sup>2</sup>, Fragiadaki I.<sup>2</sup>

<sup>1</sup>Institute of Organic & Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens

<sup>2</sup>Department of Clinical Bacteriology, Parasitology, Zoonoses and Geographical Medicine, School of Medicine, University of Crete, 76309, Heraklion, Crete

**Design and Synthesis of Novel Endocannabinoids**

Victoria Nahmias, Demetris P. Papahatjis

Institute of Organic & Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens

**Novel Conformationally Constrained  $\Delta^8$ -THC Analogs with Unsaturated Side Chain**

Aristotelis Menisiou<sup>1</sup>, Kyriaki Thermos<sup>2</sup>, Demetris P. Papahatjis<sup>1\*</sup>

<sup>1</sup>Institute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens

<sup>2</sup>University of Crete, Department of Medicine, Laboratory of Pharmacology, Heraklion, Crete

**Design and Synthesis of Conformationally Constrained Cannabinoids**

Marianthi Gianni<sup>1</sup>, Kyriaki Thermos<sup>2</sup>, Demetris P. Papahatjis<sup>1</sup>

<sup>1</sup>Institute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens

<sup>2</sup>University of Crete, Department of Medicine, Laboratory of Pharmacology, Heraklion, Crete.