



National Hellenic Research Foundation



Örebro University

10th Swedish-Hellenic Life Science Research Conference 9-10 October 2017, Athens, Greece

Hosted by:

Institute of Biology, Medicinal Chemistry & Biotechnology (IBMCB)
National Hellenic Research Foundation, Athens, Greece

Conference Organizers:

Dr Alexander Pintzas, Director of IBMCB-NHRF

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Professor Em. Nikolaos Venizelos

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Conference Venue:

Amphitheatre "Leonidas Zervas", National Hellenic Research Foundation
48, Vassileos Constantinou Avenue, Athens, Greece (www.eie.gr)

Organizing committee

Örebro University	NHRF
School of Medical-, and Health- Sciences Allan Sirsjö, Professor Magnus Grenegård, Professor Karin Franzen, Docent Mikael Ivarsson, Docent Jessica Johansson, PhD Senior Lecturer Ignacio Rangel, Docent Alexander Persson, Assist. Professor Nikolaos Venizelos, Professor Emeritus	Institute of Biology, Medicinal Chemistry & Biotechnology (IBMCB) Michael N. Alexis, Research Director Aristotelis Chatziioannou, Senior Researcher Panagiotis Georgiadis, Senior Researcher Dimitra Mitsiou, Researcher Olga Papadodima, Functional Scientist Georgios Skretas, Senior Researcher Maria Zoumpantioti, Functional Scientist
School of Science and Technology Per-Erik Olsson, Professor	Docent from NHRF at Örebro University Evangelia D. Chrysina, Senior Researcher Efsthios Gonos, Research Director Aris Xenakis, Research Director

Participating Organizations

National Hellenic Research Foundation (NHRF)

- Institute of Biology, Medicinal Chemistry & Biotechnology (IBMCB)
- Theoretical and Physical Chemistry Institute (TPCI)

School of Medical Sciences (SMS) & School of Health Sciences (SHS), Örebro University (ÖRU)

- Cardiovascular Research Centre (CVRC)
- Inflammatory Response and Infection Susceptibility Centre (iRISC)
- Nutrition-Gut-Brain Interactions Research Centre (NGBI)

School of Science and Technology, ÖRU

- The Life Science Centre (LSC)

Foundation for Research & Technology (FORTH)

- Institute of Molecular Biology and Biotechnology (IMBB) – Biomedical Research (BR)

University of Ioannina (UoI)

- Laboratory of Biological Chemistry, Medical School

Hellenic Pasteur Institute (HPI)

History – Background

The Örebro University has a long-standing cooperation with NHRF that dates back to 2005. The cooperation was formally established in 2008 and was marked with a Letter of Intent signed by both sides declaring the mutual intention of the two organizations to collaborate in the areas of Medical and Life Sciences research.

It has already led to four conjoint PhD students (three complete PhD thesis), three Docentships, 19 publications in peer-reviewed journals and 30 proceedings in scientific conferences/workshops (*see list of publications*).



November 7th 2008, at NHRF. Prof. Jens Schollin, Vice-Chancellor of Örebro University and Prof. Dimitrios Kyriakidis, Director of NHRF (at this time), signed a *“Letter of Intent”* declaring their intention to collaborate in the areas of Medical and Life Science research. [<http://www.eie.gr/nhrf/news/orebro-agreement/nhrf-orebro-agreement2008-gr.html>]

Aim

The 10th Swedish-Hellenic Life Science Conference will focus on integrated approaches in the fields of research interests developed in the Örebro University and the National Hellenic Research Foundation.

Invited speakers

Professor Theodore Fotsis, Foundation for Research & Technology-Hellas (FORTH), Institute of Molecular Biology and Biotechnology (IMBB) – Biomedical Research (BR) and Laboratory of Biological Chemistry, Medical School, University of Ioannina, Greece.

Sessions

Session 1: Ongoing research activities between ÖRU and NHRF

Session 2: New prospects in the cooperation between ÖRU and NHRF

Session 3: Brainstorming & Working groups

Session 4: Future cooperation & Strategic plan for 2016-2020

Programme, Monday October 9 th 2017 *		
08:30-09:00	Registration	
09:00-09:15	Day 1- Welcome Introduction to the Conference - Opening salutation Dr. Vassilios Gregoriou, Director and Chairman of the Board, NHRF Dr Alexandros Pintzas, Director of IBMCB-NHRF Prof. Nikolaos Venizelos, School of Medical Sciences, ÖRU	
Session 1	Ongoing research activities between ÖRU and NHRF <i>Chair: Prof. Magnus Grenegård, Dr Stathis Gonos</i>	
09:15-09:30	Dr Maria Chatzidaki Research Fellow at IBMCB-NHRF	Biocatalytically modified bioactive molecules: Antioxidant activity in media with different polarities.
09:30-09:45	Dr Marianthi Logotheti Research Fellow at IBMCB-NHRF	Advancing exploration in the field of neuropsychiatric disorders through innovative fusion of novel experimental and computational methods.
09:45-10:00	Ms Marianthi Sakellari PhD student at ÖRU/NHRF	Functional analysis of the proteasome in eukaryotic organisms.
	Keynote Lectures	
10:00-10:45	Prof. Theodore Fotsis FORTH/IMBB-BR and UoI	Vasculogenesis and Angiogenesis: Basic Mechanisms and Medical Translation.
10:45-11:15	Coffee Break	
Session 2	New prospects in the cooperation between ÖRU and NHRF <i>Chair: Prof. Per-Erik Olsson, Dr Michael N. Alexis</i>	
	Cardiovascular Research Centre (CVRC), ÖRU	
11:15-11:45	Prof. Magnus Grenegård Head of CVRC	Collaborative Research Projects: benefits and challenges.
11:45-12:00	Docent Karin Franzen	Drug discovery against atherosclerosis and thrombosis – an example of collaboration between NHRF and ÖRU
	Inflammatory Response and Infection Susceptibility Centre (iRiSC), ÖRU	
12:00-12:15	Assist. Prof. Alexander Persson	iRiSC Inflammasome Research- an update.
12:15-12:30	Docent Mikael Ivarsson	Biomimicry- The use of the wisdom of nature. Two projects in medicine.
	Nutrition-Gut-Brain Interactions Research Centre (NGBI), ÖRU	
12:30-12:45	Docent Ignacio Rangel	Unravelling the gut-brain axis: the role of the microbiota.
12:45-13:00	Prof. Nikolaos Venizelos	Collaborative research projects on Experimental neuropsychiatry-new prospects.
13:00-13:15	Dimitra Gorgoli, MD, Psychiatrist, UoA	Inflammation and Psychiatric Disorder: how is it linked to non-responders? Protocol Draft Presentation
13:15-14:00	Lunch Break	
	The Life Science Centre, ÖRU	
14:00-14:30	Prof. Per-Erik Olsson	Research at the Life Science Centre

	Institute of Biology, Medicinal Chemistry and Biotechnology (IBMCB) – NHRF	
14:30-14:45	Dr Olga Papadodima	Characterisation of somatic mutations in Greek patients with cutaneous melanoma.
14:45-15:00	Dr Dimitra Mitsiou	Development of Selective Glucocorticoid Receptor Agonists: from virtual screening to evaluation of their anti-inflammatory action
15:00-15:15	Dr Vassiliki Pletsa	Prebiotics and Gut Microbiota in health and disease: the case of β -glucans.
15:15-15:30	Dr Panagiotis Zoumpoulakis	Metabolomics reveal the importance of maternal habitual diet to embryos and infants.
15:30-15:45	Coffee Break	
Session 3	Brain storming & Working groups	
15:45-18:30	<p>Individual meetings between Researchers from Örebro University and NHRF. Division into groups.</p> <p>Group 1: Cardiovascular – Inflammation (Maria Koufaki[#], Karin Fransén, Magnus Grenegård, Allan Sirsjö, Dimitra Mitsiou, Evangelia D. Chrysina, Dimitra Pournara, Eftichia Kritsi)</p> <p>Group 2: Wound healing – Inflammation – Biomimicry (Niki Chondrogianni[#], Mikael Ivarsson, Alexander Persson)</p> <p>Group 3: Nutrition, Gut and Brain Interactions (Vassiliki Pletsa[#], Ignacio Rangel, Jessica Johansson, Nikolaos Venizelos, Aristotelis Chatzioannou, Panagiotis Georgiadis, Panagiotis Zoumpoulakis, Manto Kyriacou, Marianthi Logotheti, Evi Mitsiou)</p>	
20:00	Conference Dinner	

Programme, Tuesday, October 10th 2017 *		
Session 4	Future cooperation & Strategic plan for 2016-2020 <i>Chair: Dr Michael Alexis, Prof. Magnus Grenegård</i>	
09:00-09:30	EU funding opportunities in Life Sciences (Horizon 2020 & upcoming FP9) Dr Sosanna Kolyva, Department of Development, Hellenic Pasteur Institute. Representative of Greece in the SC1 "Health, Demographic Change and Well Being"	
09:30-10:15	Conclusions from the Brainstorming & Working groups <i>Rapporteur from each working group</i>	
10:15-11:15	Round table discussion <ul style="list-style-type: none"> - Dr. Vassilios Gregoriou, Director and Chairman of the Board, NHRF - Dr Alexander Pintzas, IBMCB, NHRF - Prof. Allan Sirsjö, CVRC, ÖRU - Prof. Per-Erik Olsson, LSC, ÖRU - Prof. Nikolaos Venizelos, NGBI, ÖRU - Prof. Fragiskos Kolisis, NTUA <p><i>Open discussion with all participants from ÖRU and NHRF to set the goals for the future</i></p>	
11:15-11:30	Closing remarks	



Meeting during the 9th Swedish-Hellenic Conference between Prof. Sören Andersson, Head of School of Medical Sciences, ÖRU and the Swedish Delegation with Dr Vassilis Gregoriou, president of NHRF (from left to right: Dr M.N. Alexis, Prof. A. Sirsjo, Prof. M. Grenegård, Prof. S. Andersson, Dr V. Gregoriou, Prof. N. Venizelos).



Photos from the 9th Swedish-Hellenic Conference, October 5th – 6th at NHRF. (Left) Prof. Magnus Grenegård presents the Cardiovascular Research Centre activities. (Right) Interacting participants.



Photo from the second conjoint Doctoral Dissertation of Maria Chatzidaki defending her thesis, 27 May 2016 at Örebro University Sweden. School of Science and Technology, Supervisor: Docent Aris Xenakis, co-supervisor: Prof. Bert van Bavel, Faculty Opponent: Werner Kunz, Regensburgs Universitet, Germany



Photos from the third conjoint Doctoral Dissertation, 9 December 2016 at Örebro University Sweden. School of Medical Sciences, Supervisors: Prof. N. Venizelos and Prof. F. Kolisis.

(Top) Dr Marianthi Logotheti defending her thesis and the Faculty Opponent Prof. Nikos Stefanis, Dept. of Psychiatry, Medical School, University of Athens. (Left) Promotion ceremony of Dr Marianthi Logotheti at Örebro University Sweden.



Young students from ORU performing their diploma thesis work at NHRF (2016). From left to right: Prof. N. Venizelos, Dr D. Mitsiou, BSc student Sofia Weiss, Dr M. Alexis, D. Siakouli, BSc. student Liza Eklund.



Left: 9th Swedish-Hellenic Conference Dinner.

Right: Swedish Delegation dinner

*Reservation for modifications

Registration details

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List of Joint publications/proceedings/conferences and workshops

Peer-reviewed joint publications

2016

1. Voutetakis K, Delitsikou V, Papacharalampous M, Sakellari M, Favilla E, Tonelli M, Gonos ES. Ceramic Textiles from Mineral Oxides Microfibers Coating (Nanobionic®) Efficiently Emit Infrared Rays and Reduce Free Radical Levels in Healthy Volunteers and in Patients with Free Radical-Related Disorders. *J Med Chem Toxicol* (2016); 1(1): 1- 7
2. Logotheti M, Pilalis E, Venizelos N, Kolisis F, Chatziioannou A. Development and validation of a skin fibroblast biomarker profile for schizophrenic patients, *AIMS Bioengineering* (2016); 3(4): 552-565
3. Logotheti M, Pilalis E, Venizelos N, Kolisis F, Chatziioannou A. Development and Validation of a Skin Fibroblast Biomarker Profile for Schizophrenic Patients. *Biometrics & Biostatistics International Journal* (2016); Volume 4 Issue 5
4. Chatzidaki MD, Papadimitriou K, Alexandraki V, Tsirvouli E, Chakim Z, Ghazal A, et al. Microemulsions as Potential Carriers of Nisin: Effect of Composition on Structure and Efficacy. *Langmuir*. 2016;32(35):8988–98.
5. Chatzidaki MD, Mateos-Diaz E, Leal-Calderon F, Xenakis A, Carrière F. Water-in-oil microemulsions versus emulsions as carriers of hydroxytyrosol: an in vitro gastrointestinal lipolysis study using the pHstat technique. *Food Funct*. 2016;7(5):2258–69.
6. Papaevgeniou N, Sakellari M, Jha S, Tavernarakis N, Holmberg CI, Gonos ES, et al. 18 α -Glycyrrhetic Acid Proteasome Activator Decelerates Aging and Alzheimer's Disease Progression in *Caenorhabditis elegans* and Neuronal Cultures. *Antioxid Redox Signal*. 2016;25(16):855–69.
7. Chatzidaki MD, Arik N, Monteil J, Papadimitriou V, Leal-Calderon F, Xenakis A. Microemulsion versus emulsion as effective carrier of hydroxytyrosol. *Colloids Surfaces B Biointerfaces*. 2016;137:146–51.

2015

8. Kalaitzaki A, Papanikolaou N, Karamaouna F, Dourtoglou V, Xenakis A, Papadimitriou V. Biocompatible colloidal dispersions as potential formulations of natural pyrethrins: A structural and efficacy study. *Langmuir*. (2015); 31:5722-30
9. Chatzidaki MD, Mitsou E, Yaghmur A, Xenakis A, Papadimitriou V. Formulation and characterization of food-grade microemulsions as carriers of natural phenolic antioxidants. *Colloids Surfaces A Physicochem Eng Asp*. 2015;483:130–6.
10. Kalaitzaki A, Xenakis A, Papadimitriou V. Highly Water Dilutable Microemulsions: A structural study. *Colloid Polym.Sci*. (2015); 293:111-9.
11. Logotheti M, Papadodima O, Chatziioannou A, Venizelos N, Kolisis F. Gene Expression Analysis of Fibroblasts from Patients with Bipolar Disorder. *J Neuropsychopharmacol Mental Health* (2015); 1: 103.
12. M. Logotheti, O. Papadodima, A. Chatziioannou, N. Venizelos, F. Kolisis. Gene Expression Analysis of Fibroblasts from Patients with Bipolar Disorder. *J Neuropsychopharmacol Ment Heal* (2016); 1(1).
13. Chondrogianni N, Voutetakis K, Kapetanou M, Delitsikou V, Papaevgeniou N, Sakellari M, et al. Proteasome activation: An innovative promising approach for delaying aging and retarding age-related diseases. *Ageing Res Rev*. 2015; 23(PA):37–55.

2014

14. Amadei D, Chatzidaki MD, Devienne J, Monteil J, Cansell M, Xenakis A, et al. Low shear-rate process to obtain transparent W/O fine emulsions as functional foods. *Food Res Int.* (2014); 62:533–40.
15. Kalaitzaki A, Pouloupoulou M, Xenakis A, Papadimitriou V. Surfactant-rich biocompatible microemulsions as effective carriers of methylxanthine drugs. *Colloids Surfaces A Physicochem Eng Asp.* 2014;442:80–7.
16. Chondrogianni N, Sakellari M, Lefaki M, Papaevgeniou N, Gonos ES. Proteasome activation delays aging in vitro and in vivo. Vol. 71, *Free Radical Biology and Medicine.* 2014. p. 303–20.

2013

17. Kalaitzaki A, Emo M, Stébé MJ, Xenakis A, Papadimitriou V. Biocompatible nanodispersions as delivery systems of food additives: A structural study. *Food Res Int.* 2013;54(2):1448–54.
18. Logotheti M, Papadodima O, Venizelos N, Chatziioannou A, Kollis F. A comparative genomic study in schizophrenic and in bipolar disorder patients, based on microarray expression profiling meta-analysis. *ScientificWorldJournal* . 2013;2013:685917.

2012

19. Papadodima O, Sirsjö A, Kollis FN and Chatziioannou, A. Application of an integrative computational framework in transcriptomic data of atherosclerotic mice suggests numerous molecular players. *Adv Bioinformatics.* 2012;2012.

Proceedings, conferences and workshops

2016

1. M. Logotheti, E. Pilalis, F. Kollis, A. Chatziioannou, N. Venizelos. Development and validation of a skin fibroblast biomarker profile for schizophrenic patient. Book of Abstracts, Nobel Day Festivities 2016, Book of Abstracts, Nobel Day Festivities, Page 21;21, 8 Dec. 2016.
<https://www.oru.se/institutioner/medicinska-vetenskaper/forskning/nobel-day-festivities/>
2. Marianthi Logotheti, Eleftherios Pilalis, Fragiskos Kollis, Aristotelis Chatziioannou, Nikolaos Venizelos. Development and validation of a skin fibroblast biomarker profile for schizophrenic patient. Abstract, 16th Annual Meeting of the ICGP & 5th International Congress on Psychiatric and the Neurosciences, October 6-8, 2016, Athens, Greece.
3. Papaevgeniou N, Sakellari M, Jha S, Tavernarakis N, Holmberg CI, Gonos ES, Chondrogianni N. “A proteasome activator decelerates aging and Alzheimer’s disease progression” FEBS/IUBMB Advanced lecture courses 2016: “Molecular basis of human diseases: 50 years anniversary of Spetses summer schools” Spetses, Greece (Poster Presentation)
4. Papaevgeniou N, Sakellari M, Jha S, Tavernarakis N, Holmberg CI, Gonos ES, Chondrogianni N. “A proteasome activator decelerates aging and Alzheimer’s disease progression” IUBMB/IUPAC/IUPS JOINT ADVANCED SCHOOL 2016 Spetses, Greece (Poster Presentation)

2015

5. Chatzidaki M. D., Papadimitriou V., Monteil J., Leal-Calderon F., Carrière F., Xenakis A., “Formulation and *In vitro* characterization of W/O colloidal nanodispersions for medical applications”, 15th European Student Colloidal Conference, 8-11 June 2015, Krakow, Poland (Oral Presentation).
6. Chatzidaki M. D., Alexandraki S., Papadimitriou V., Yaghmur A., Papadimitriou K., Tsakalidou E., Xenakis A., “Structural and microbial investigation of food grade nanocarriers of nisin”, 29th Conference

of the European Colloidal and Interface Society, 6-11 September 2015, Bordeaux, France (Poster Presentation).

7. Logotheti M., Papadodima O., Chatziioannou A., Venizelos N., Kollis F. Elucidation of the molecular mechanisms involved in bipolar disorder based on fibroblasts gene expression analysis. Abstracts “12th World Congress of Biological Psychiatry”, Athens, Greece, June 14th – 18th, 2015 (<http://www.wfsbp-congress.org/>).
8. Sakellari M, Chondrogianni N, Gonos ES. “Elucidation of the interplay between protein synthesis and proteasome-mediated proteolysis” 66th Congress of the Hellenic Society of Biochemistry and Molecular Biology and 3rd independent Conference of Young Scientists of the Hellenic Society of Biochemistry and Molecular Biology 2015, Athens, Greece (Poster Presentation)
9. Papaevgeniou N, Sakellari M, Jha S, Tavernarakis N, Holmberg CI, Gonos ES and Chondrogianni N. “A proteasome activator decelerates aging and Alzheimer's disease progression” EMBO Ubiquitin and ubiquitin-like modifiers: From molecular mechanisms to human diseases, Cavtat, Croatia, 2015 (Poster Presentation)

2014

10. Papanikolaou, N., F. Karamaouna, D. Papachristos, A. Michaelakis, E. Karasali, A. Maroussopoulou, V. Dourtoglou, A. Kalaitzaki, A. Xenakis, V. Papadimitriou, “Effect of a new nano-formulated pyrethrin on the predators *Coccinella septempunctata* and *Macrolophus pygmaeus*” WG Meeting “Pesticides and Beneficial Organisms” February 2014, Namur, Belgium.
11. Chatzidaki M.D., Amadei D., Papadimitriou V., Monteil J., Leal-Calderon F., Carrière F., Xenakis A., “Formulation and digestibility of loaded water-in-oil nanodispersions”, 20th International Symposium on Surfactants in Solution, Coimbra, Portugal, 22-27 June 2014 (Oral Presentation).
12. Chatzidaki M.D., Mitsou E., Ghazal A., Papadimitriou V., Mortensen K., Yaghmur A., Xenakis A., “FOOD GRADE MICROEMULSIONS AS ANTIOXIDANT MATRICES”, WG1, WG3, WG5 & WG6 meeting: Particles at Liquid Interfaces: Industrial, environmental and bio-medical aspects, 31 March- 4 April 2014 Genoa, Italy (Oral Presentation).
13. Chatzidaki M. D., Amadei D., Papadimitriou V., Monteil J., Leal-Calderon F., Carrière F., Xenakis A., “Formulation and digestibility of water-in-oil edible nanodispersions used as vehicles of water soluble antioxidants”, 12th EuroFed Lipid Congress "Oils, Fats and Lipids: From Lipidomics to Industrial Innovation", 14-17 September 2014, Montpellier, France (Oral Presentation).
14. Kollis F, Logotheti M, Chatziioannou A, Venizelos N. Systems Biology of mental health diseases: The role of amino acids as precursors of neurotransmitters related to Schizophrenia based on microarray analysis. 2nd Interdisciplinary Congress on Psychiatry and Related Sciences. Athens, Greece, Abstracts, S22.2, Oct-Nov. 2, 2014. <http://www.erasmus.gr/UsersFiles/microsite1011/Documents/ABSTRACTS.pdf>
15. Logotheti M, Papadodima O, Chatziioannou A, Venizelos N, Kollis F. A transcriptomic computational analysis of fibroblasts from patients with bipolar disorders. 2nd Interdisciplinary Congress on Psychiatry and Related Sciences. Athens, Greece, Abstracts, PP8, Oct-Nov. 2, 2014. <http://www.erasmus.gr/UsersFiles/microsite1011/Documents/ABSTRACTS.pdf>
16. M. Logotheti, A. Chatziioannou, N. Venizelos, F. Kollis, A gene expression analysis of fibroblasts from patients with bipolar disorders. 2nd Interdisciplinary Congress on Psychiatry and Related Sciences. Book of Abstracts, Nobel Day Festivities, Page 30;30, 10 Dec. 2014. <http://www.oru.se/PageFiles/51215/Abstracts%202014%20Anonym.pdf>
17. Sakellari M, Chondrogianni N, Gonos ES. “Study of the cross-talk between protein synthesis and proteasome-mediated protein degradation” SFRR-E/IUBMB Summer School 2014: “Biochemical basis of healthy ageing”, Spetses, Greece (Poster Presentation)

18. Papaevgeniou N, Sakellari M, Gonos ES, Chondrogianni N. "Study of the effects of a natural compounds on the lifespan of the *Caenorhabditis elegans* ageing model". SFRR-E/IUBMB Summer School 2014: "Biochemical basis of healthy ageing", Spetses, Greece (Poster Presentation)

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