

**SECOND INTERNATIONAL CONFERENCE ON RECENT
ADVANCES ON HEALTH AND MEDICAL SCIENCES**

LAURA BEACH HOTEL, PAPHOS, CYPRUS 8-12TH JULY, 2010

PROGRAMME

Thursday, 8th July

18.00 – 19.30 h Registration and Poster Mounting

19.30 - 20.00 h Tea Break

20.00 - Opening:

Welcome Messages from Local and International Organisation Representatives

20.30 : Welcome Reception

21.00 : Dinner

Friday, 9th July

Breakfast

9.30 – 11.00

Session 1 : Recent Advances in the Causes Diagnosis and Treatment of Cancer

Chair: Bast A and Abayomi J

Black H (Baylor College of Medicine, Houston, USA)

Cutaneous biology - Recent experimental and therapeutic advances in cancer and other conditions

Kozlov A.S. 1, Petrov A.K. 1, Malyshkin S.B. 1, Vagin M.S. 1, Popik V.M. 2, Goryachkovskaya T.N. 3, Peltek S.E. 3 (1 Institute of Chemical Kinetics and Combustion SB RAS, 2 Institute of Nuclear Physics SB RAS & 3 Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia)

Effect of high-power THz irradiation on biological macromolecules

Zelentsov E.L., Sazhina T.V., Kozlov A.S, Petrov A.K (Medical Center “Integral Medicine” & Novosibirsk State Medical University, Novosibirsk, Russia)

Interaction of the terahertz laser irradiation with a mammal skeletal muscle

Chan G C-F (Faculty of Medicine, Hong Kong University, Hong Kong, China)

Extrinsic factors that can affect the behaviour of human mesenchymal stem cells

Round Table Discussion: 10.50-11.00

11.00 – 11.20 Tea Break and Poster Viewing

11.20 – 12.30

Session 2: New Therapeutic Approaches for the Treatment of Cardiovascular Diseases

Chair: Zupančič A and Farmakis D

Timoshin A.A., Drobotova D.Yu., Tskitishvili O.V., Serebryakova L.I., Ruuge E.K., *Vanin A.F. (Russian Cardiology Res. Centre, *Institute of Chemical Physics; Moscow, Russia)

Cardioprotective action of dinitrosyl-iron complexes with glutathione in mammalian organism

Vlastos G (University of Crete, Herakleion, Greece)

Effects of biomechanical forces on blood rheology and oxidant status in the cardiovascular system

Žiberna L, Lunder M, Drevenšek G1, Tramer F2, Passamonti S2 (1Pharma. Toxicology, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia, 2 Dept Life Sciences, University of Trieste, Italy)

Biltranslocase in the cardiovascular system: new potential target for nutritional and pharmacological interventions

Round Table Discussion: 12.20-12.30

12.30- 15.00 Lunch Break

15.00 – 16.10

Session 3: Free Radical Pathologies and Antioxidants in Skin conditions

Chair : Timoshin AA and Pashalidis I

Chaykovskaya N, Lavrik O, Ivanova A and V.Podoprigrorova (Smolensk State Medical Academy, Smolensk, Russia)

Nitric oxide level, morphological changes and antioxidant activity in tissues in case of photorejuvenation procedures

Lavrik O, Chaykovskaya N, Ivanova A and Podoprigrorova V. (Smolensk State Medical Academy, Smolensk, Russia)

Changes of nitric oxide level and morphological changes in tissues after photoepilation with intensive pulse

Kruppa A.I., Petrova S.S., Kornievskaya V.S., Leshina T.V. (Institute of Chemical Kinetics and Combustion, Novosibirsk, Russian Federation)

What can spin chemistry methods and pulse laser photolysis do in the investigations of radical reactions in supramolecular environment

Round Table Discussion: 16.00-16.10

16.10 – 16.30 Tea Break and Poster Viewing

16.30 – 18.00

Session 4: Antioxidant and other Therapeutic Approaches in Neurodegenerative and other Diseases

Chair: Black H and Leshina T

**Spyrou A. (Royal College Surgeons Ireland, Beaumont Hospital, Ireland)
Friedreich's ataxia- a Cyprus perspective**

**Ivanova AV and Podoprigrorova VG (Smolensk State Medical Academy,
Smolensk, Russia)
Lipid peroxidation state of rat brain mitochondria membranes in case of insulin-
induced hypoglycemic convulsions**

**Andersen J (Buck Institute, Novato, CA, USA)
Prolyl hydroxylase inhibition as a novel therapeutic for Parkinson's disease**

**Bast A (University of Maastricht, Maastricht, The Netherlands)
Antioxidants as drugs**

18.00 -18.30

Session 5: Round table discussion on:

**Advances in Free Radicals Sciences and Antioxidants in Ageing, Cancer,
Neurodegenerative and Other Diseases,**

PANEL: Andersen J, Bast A, Black H, Leshina T, Podoprigrorova V, Stass D et al

Dinner

Saturday 10th July

Breakfast

9.00-10.30

Session 6: Recent Advances on Nutrition

Chair: Black H and Podoprigrorova VG

**Abayomi, J (Liverpool John Moores University, Liverpool, England, UK)
The risks of under weight and over weight in pregnancy**

**Efstathiou, A.¹ and Maxwell, S.M.²(¹Postgraduate Research Institute, Science,
Technology, Environment and Medicine Limassol, Cyprus and ²Liverpool John
Moores University, UK)**

**A comparison of the macronutrient intake of british adults in Liverpool, UK and
Cypriot adults in Paphos, Cyprus with respect to the Mediterranean diet**

**Chadjigeorgiou Ch (Research & Educational Instit.Child's Health. Nicosia,
Cyprus)**

**IDEFICS Study:Identification and prevention of dietary – and lifestyle – induced
health effects in children and infants**

Tornaritis M (Research and Educational Institute for Child's Health, Nicosia, Cyprus)

IDEFICS Study: Identification and prevention of dietary – and lifestyle – induced health effects in children and infants

Round Table Discussion: 10.20-10.30

10.30 – 10.50 Tea Break and Poster Viewing

10.50 – 12.20

Session 7: Recent Advances in Nursing and Medical Ethics

Chair: Tsironi M and Suhonen R

Papastavrou E (Cyprus University of Technology, Limassol, Cyprus)

What do patients want from nurses? Results from an international research study

Hadjibalassi Maria (Cyprus University of Technology, Limassol, Cyprus)

A meta-synthesis of patients' and nurses' lived experience of critical care

Kontoghiorghe Ch. (Imperial College London, London, UK)

Grey areas and dilemmas in medical ethics in developed and developing countries

Suhonen R (University of Turku, Turku, Finland)

Nurses' perceptions of professional practice environment: a comparative study in 7 countries

12.20- 12.50

Session 8: Round table discussion on:

Recent Developments in Nursing and Medical Ethics

Panel: Papastavrou E, Suhonen R, Tsironi M

12.50- 14. 30 Lunch Break

14.30-19.00: Tour of Paphos and District

20.30 h: Gala Dinner

Sunday 11th July, 2010

Breakfast

9.00-10.30

Session 9: Recent Advances in Diagnostic Methods in Biology and Medicine

Chair: Leshina T and Georgiou G

Magin I (Institute of Chemical Kinetics and Combustion, Novosibirsk, Russia)
Chemically induced dynamic nuclear polarization (CIDNP) - method of investigation of short-lived radicals including biologically relevant in solution

Glazachev Y (Novosibirsk State University, Novosibirsk, Russia)
Fluorescent microscopy of cells and cell model systems

Constantinides Ch ((University of Cyprus, Nicosia, Cyprus)
Four-Dimensional Mouse Cardiac Imaging and Quantification of Mechanical Function using MRI

Pattichis C.S., Kyriacou E., Pattichis M.S., Christodoulou C.I., Loizou C., Kakkos S., Spanias A. and Nicolaidis A. (University of Cyprus, Nicosia, Cyprus)
A review of non-invasive Ultrasound Image Processing Methods in the Analysis of Carotid Plaque Morphology for the Assessment of Stroke

10.20- 10.30
Round Table Discussion

10.30-10.50 Tea Break and Poster Viewing

10.50-12.00
Session 10 : Recent Advances in Blood Rheology

Chair : Farmakis D and Pattichis C.S

Papaharilaou Y (FORTH, Crete, Greece)
Geometric tools for shape mapping in topologically similar arterial structures

Aristokleous N., Seimenis I., Papaharilaou Y., Georgiou G., Brott B, Anayiotos AS. (Cyprus University of Technology, Limassol, Cyprus)
Effect of head rotation at the prone position on the geometric features of the healthy carotid bifurcation

Zupančič A, Šegedin U, Lunder M, Žiberna L, Papaharilaou Y, Georgiou G (University of Ljubljana, Slovenia & University of Cyprus, Nicosia, Cyprus)
The effects of temperature and volume expander addition on the hemo rheology and hemodynamics in arteries

11.50-12.00: Round Table Discussion

12.00 -13.10
Session 11: Cardiovascular Disease and Palmonary hypertension

Chair : Aessopos A and Chan G C-F

Farmakis D (University of Athens Medical School, Athens, Greece)
Pulmonary hypertension in β -thalassaemia

Tsironi M (University of Sparta, Sparta, Greece)
Pulmonary hypertension in sickle cell disease

Moutiris J (Paphos General Hospital, Paphos, Cyprus)
Secondary prevention of Coronary Heart Disease. The Cyprus experience.

13.10 - 14.30 Lunch Break

14.30 – 16.00

Session 12: Metal ion Metabolism and Toxicity

Chair: Andersen J and Timoshin AA

Stass D et al (Novosibirsk State University, Novosibirsk, Russia)
Metal complexes with fluorescing ligands for the study of short-lived transient oxidation states of metal ions

Leshina T et al (Novosibirsk State University, Novosibirsk, Russia)
Physico-chemical investigations of associates of drugs with natural complexants

Pashalidis I (University of Cyprus, Nicosia, Cyprus)
Application of chelating reagents for the preconcentration and separation of radionuclides from aqueous solutions

Waters Robert S (1) and Roussel Anne Marie (2). Waters Integrative Health Center Wisconsin Dells, USA (1) & Universite Joseph Fourier, Grenoble, France(2)
Reduction in free radical markers after intravenous magnesium EDTA infusions: Low level lead and cadmium accumulation as cofactors in the etiology of cancer and other diseases of aging

15.50-16.00: Round Table Discussion

16.00-16.20 Tea Break and Poster Viewing

16.20 -17.30

Session 13: Chelation Therapy in Thalassaemia and Other Iron Loading and Toxicity Conditions

Chair: Chan G C-F and Kolnagou A

Cermak J (Institute of Hematology and Blood Transfusion, Prague, Czech Republic)
Efficacy of iron chelators in patients with early myelodysplasia

Kattamis Antonis, Stokidis Kostantinos, Delaporta Polyxeni, Kyriacopoulou Dimitra, Petropoulou Theoni, Ladis Vassilios (Thalassaemia Unit, First Dept. Pediatrics, 'Agia Sofia' Children's Hospital, University of Athens, Greece)
Long term efficacy and safety of deferasirox in patients with thalassaemia: a more than 5-year single institution experience

Kontoghiorghes GJ et al (Postgraduate Research Institute, Limassol, Cyprus)
New, higher doses of deferasirox: better efficacy but not effective iron removal from the heart and increased risks of serious toxicities. Comparative effects with deferiprone, deferoxamine and their combination

17.20-17.30: Round Table Discussion

17.30 – 18.40

Sessions 14: Breakthrough on Chelation Therapy and Other Advances in Thalassaemia

Chair : Cermak J and Aessopos A

Antoniou M (King's College London School of Medicine London, UK)
Gene therapy for thalassaemia: Current status and future directions

Kolnagou Annita, Kleanthous Marios, Natsiopoulos Konstantinos.and Kontoghiorghes George J (Postgraduate Research Institute, Science, Technology, Environment and Medicine Limassol, Cyprus).
Long term maintenance of normal range body iron stores in thalassaemia patients using Deferiprone (L1)

Kontoghiorghes GJ et al (Postgraduate Research Institute, Limassol, Cyprus)
New golden era in iron chelation therapy: complete treatment of iron overload and application in cancer, infectious, neurodegenerative, renal and other diseases

18.30-18.40: Round Table Discussion

18.40 -19.20

SESSION 15: ROUND TABLE DISCUSSIONS AND OPEN SESSION :

Recent Advances in the Complete Treatment of Iron Overload in Thalassaemia and Prospects of Gene Therapy

Panel: Aessopos A, Antoniou M, Cermac J, Chan, Kattamis A, Kolnagou A, Tsironi M, Farmakis D et al

Monday 12th July, 2010

Breakfast

9.30 – 10.40

Session 16: Recent Advances in Molecular Medicine and Toxicology

Chair: Pattichis C S and Zupančič A

Pozdnyakov I (Novosibirsk State University, Novosibirsk, Russia)
Phenoxy radicals: ways of generation, spectral and kinetic properties and possible implication in medicine and ecology

Zelentsov E.L.1, Gorbachev Z.B.1 Kozlov A.S. 2, Petrov A.K. 2 (Medical Center “Integral Medicine”, & Institute of Chemical Kinetics and Combustion SB RAS, Novosibirsk, Russia)

Effect of the Terahertz laser radiation on aggregation of the erythrocytes in healthy blood

Kapnisis K, Halwani D, Brott B, Anderson P, Lemons J and Anayiotos A. (Cyprus University of Technology, Limassol, Cyprus)

Biocorrosion and biomechanical analysis of explant devices

10.30-10.40: Round Table Discussion

10.40 -11.00 Tea break and Poster Viewing

11.00-12.10

Session17: Recent Advances in Gastroenterology and Inflammation

Chair: Bast A and Tsironi M

Podoprigrorova V, Kriazheva T (Smolensk State Medical Academy, Smolensk, Russia)

Oxidative stress in gastroenterology

Waters Robert S. (Waters Integrative Health Center, Wisconsin Dells, USA)

Evidence for deficiency of magnesium by an intravenous load test: Theoretical connections to metabolic syndrome, iron accumulation and upregulation of inflammatory pathways

Spyrou A. (Royal College Surgeons Ireland, Beaumont Hospital, Ireland)

Microbial influences in Inflammatory Bowel Disease

12.00-12.10: Round Table Discussion

12.10 - 12.40

Chair: Stass D and Suhonen R

Session 18: Poster Presentations

12.40 -12.50 Closing and Announcement of the 3rd RAHMS