The 10th WORLD CONGRESS of the International Society for ADAPTIVE MEDICINE

INTERCONTINENTAL HOTEL June 7 - 10, 2012, Bucharest, Romania



Summary

International Society for Adaptive Medicine

The International Society for Adaptive Medicine (ISAM) is an interdisciplinary group interested in adaptive changes occurring in response to different environmental factors, sustained exercise, various pathological conditions or drug administration. Its main goal is to expand the understanding of the basic mechanisms of physiological adaptations at molecular and cellular levels as well as at the level of complex interactions responsible for the integrated control of body functions. Another objective consists in the better understanding of dismissed adaptations responsible for disease development. Finally, studies of different cross-adaptations continue to receive unceasing attention as it was demonstrated that repeated exposure to specific stress stimuli may have applications in the treatment and prophylaxis of different diseases. These observations lead to the recognition of a new discipline of adaptive medicine, which offers promise for therapeutic strategies in both experimental and clinical pathology.

Congress overview

The 10th ISAM Congress served as a platform for confrontation of original data in the field of physiological adaptations and promoted the search for new trails in the field of adaptive medicine. Several scientific categories had their representatives at the meeting - clinicians, scientists, academic staff as well as engineers. We believe that our Congress had a major impact on disseminating knowledge and promoting the value of medical research to scientists as well as to general public. By the conferences held on various domains, from neurology to cardiac adaptation, from telemedicine to regenerative medicine, from hypoxia to cancer signaling, we brought together scientists, medical specialists and researchers. They were able to exchange ideas, discuss on common goals and set up or renew scientific partnerships for future joint grant applications or common projects.

The meeting gathered World experts, from more than 35 countries, who presented the cutting edge advances in medical science. The 25 symposia and 7 plenary lectures were the main agenda of the congress. An e-poster displayed showed in continuous loop posters from young researchers, during all the four days of the congress

Scientific content

Format of the Congress

We have chosen the Intercontinental hotel to be the congress venue, as well as the accommodation for the invited speakers from plenary lectures and congress symposia. The program included 7 plenary lectures and 25 different symposia, with invited speakers from more than 30 countries.

The congress was credited with 24 European Credits for continuous medical education. Several symposia were recommended (and advertised accordingly on specific websites) by European Professional Association (*e.g. European Society of Cardiology*).

Organizing Committees

The International Scientific Committee, led by Professor P. Singal (Canada) analyzed and selected the abstracts for the Congress conferences. The National Organizing Committee, with members from all over the country was in charge of establishing the plenary lectures and symposia schedule. The Local Organizing Committee was in charge of the technical Schedule at a glance

The Congress was structured into four days.

The first day (June 7th) accommodated the first two plenary lectures and was concluded by the Get-together cocktail. The first plenary lecture took place in the afternoon of Thursday 7th, by Professor **P. Anversa** (*Harvard Medical School*, Boston, USA), a well-known figure in the field of cardiac stem cells. In the same session, the second plenary lecture was delivered by Professor **B. Winblad** (*Karolinska Institutet*, Stockholm, Sweden), the most cited scientist in Alzheimer's disease field and a distinguished member of the Nobel Committee.

The morning schedule of each of the second day (June 8th) was the busiest one, with four symposia¹ running in parallel (S01, S02, S14 and S19), followed by a Coffee Break and the plenary lecture of Professor **Maria-Simonetta Faussone-Pellegrini** (*Florence University*, Italy). The noon section also included four symposia (S11A, S09A, S21 and S06) in four of the Congress conference halls. After the lunch break, two sessions of three symposia each (S11B, S09B and S13 at 14:30 hours, as well as S15, S09C and S07 at 17:00 hours) surrounded the afternoon plenary lecture, held by Professor **Stefan N. Constantinescu** (*Ludwig Institute for Cancer Research*, Brussels, Belgium). The Gala Dinner was the closing point of the evening, starting at 20:00 hours at the 21st floor of the Intercontinental Hotel.

The third day of the Congress was also divided in several parts. In the morning, three symposia (S08, S03 and S12) opened the day and were followed by the plenary lecture by Professor **M. Ivan** (*Indiana University*, Indianapolis, USA). Another three-symposia session started at 12:00 hours (S18, S05 and S17). Two and a half hours later, two other symposia took place

¹ The symposia names and content are detailed in the final programme, at the end of this document Web: www.isam2012.info Email: congress@isam2012.info

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(S04 and S22). The day was concluded by the plenary lecture of Professor **R. E. Horch** (*Friedrich-Alexander Universitat*, Erlangen, Germany).

The last day of the Congress (June 10th) had a morning session accommodating three symposia (S10, S16 and S20) and a plenary lecture by Professor **Sawa Kostin** (*Max-Planck-Institute*, Bad Nauheim, Germany).

Posters

The posters submited by young researchers were displayed (electronically) on a large plasma display, in a continuous loop, the whole congress. On two days (June 8th and 9th), the presenters had an hour (13:30-14:30) to present their posters and answer to the questions. A poster has been selected by a judging committee to be the most successful one from scientific point of view. The winner was the work entitled **PYROPTOSIS, A NEW KIND OF CELL DEATH, AND ITS INTRICATE MECHANISMS**, by Andreia F. Nita¹, Sanna Nystrom², Steven Applequist².

(¹Carol Davila University of Medicine and Pharmacy, Bucharest, Romania, ²Center for Infectious Medicine, Huddinge Department of Medicine, Karolinska Insitutet, Stockholm, Sweden)

Discussion

Each conference (either plenary lecture or symposium talk) was followed by a Q&A session, managed by the two chairpersons of the respective event. There were some symposia were a follow-up round table took place in the remaining time after all the symposium talks had finished and this was highly appreciated by the participants.

Technical details

Besides the four conference halls, the speakers had the opportunity to use the special Congress Technical Office, where they were able to check/modify their presentations and surf the web/access their e-mail. Our staff was divided into several groups: airport waiting staff, floor guides and technical staff. Each invited guest received a personalized meeting agenda for the event, at the very arriving at Bucharest airport. We provided airport transfer to (and from) the hotel to all the invited guests. The accomodation was at the Congress Venue, in order to offer the maximum confort and convenience for our guests.

Assesment of the results

Assessment of the results

The meeting gathered several hundred people from more than 35 countries from five continents. It was, undoubtly, the largest and most important medical event of the last years in Bucharest, and probably Romania. The symposia sessions were organized in 4 halls at once, and their running in parallel was smooth and very appreciated. Since all the halls were at the same floor, everyone could select a personalized schedule to fit their interests/topics. The opportunity to mix between different sessions was highly enjoyed by the attendance.

The congress was well received by all the participants and the media that covered the event. Several medical journals had correspondents on site and interviews took place with the invited speakers, organizers and attendees. The important speakers from all fields assured an unpreceeded quality of the meeting, and all the participants expressed their positive opinions on the variety and high scientific standards of the conferences.

The meeting programme, as well as the abstracts were published in the Congress Book (ISBN 978-973-708-623-5).

Selected talks from the meeting will be published in the Adaptive Biology and Medicine series, at the end of 2012, edited by Professor Pawan K. Singal (Winnipeg, Canada).

Impact of the event on the future direction of the field

Promoting a cultural attitude by putting the change or adaptation in the middle of our debate, we thought a new thinking will emerge. Trans-disciplinar and translational approaches that were presented are going to contribute to the improvement of medical knowledge in the years to come. The perspectives that invited speakers (about 120) offered were as varied as their fields of interest. From imaginative reinvention of medical approaches to the concept of trendsetter in science, the Congress agenda truly included something for everyone. It was our intention to provide an inspiring atmosphere for fruitful scientific discussion and for initiating new collaborations in this "adaptive medicine" community.

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Final Programme

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INTERCONTINENTAL HOTEL, June 7 - 10, 2012, Bucharest, Romania

Time	Thursday, 7th		Friday, 8th		Saturday, 9th		Sunday, 10th	
8:30			Symposia Main Hall Hall A Hall B Hall C	S01 S02 S14 S19	Symposia Main Hall Hall A Hall B	S08 S03 S12	Symposia Main Hall Hall A Hall B	S10 S16 S20
10:45			Coffee break		Coffee break		Coffee break	
11:00			Plenary Lecture Main Hall	P03	Plenary Lecture Main Hall	P05	Plenary Lecture Main Hall	P06
12:00			Symposia Main Hall Hall A Hall B Hall C	S11A S09A S21 S06	Symposia Main Hall Hall A Hall B	S18 S05 S17		
13:30			Poster viewing		Poster viewing			
14:30			Symposia Main Hall Hall A Hall B	S11B S09B S13	Symposia Hall A Hall B	S04 S22		
15:45			Coffee break		Coffee break			
16:00			Plenary Lecture Main Hall	P02	Plenary Lecture Main Hall	P04		
17:00			Symposia Main Hall	S15				
17:30	Plenary Lecture Main Hall	P01	Hall A Hall B	S09C S07				
18:30	Plenary Lecture Main Hall	P07						
19:30								
20:00	Get together cocktail Fortuna Hall		Gala Dinner Fortuna Hall					

ISAM Executive Council Meeting will take place on June 7th starting 19:45, in Hall D.

Registration Desk – Ground floor (Open 8:00-18:00, June 7th - 9th) Technical office – Bolero, 2nd floor (Open 8:00-18:00, June 7th - 9th)

Main Hall – Ronda, 1st floor Hall A – Rapsodia, 1st floor Hall B – Salonul Oglinzilor, 1st floor Hall C – Concerto, 1st floor Hall D – Simfonia, 2nd floor

Plenary lectures

P-1 P. Anversa Harvard University, Boston, USA Mechanism of Cardiac Repair

P-2 S.N. Constantinescu

Ludwig Institute for Cancer Research, Brussels, Belgium Actors of Blood Regeneration: Erythropoietin, Thrombopoietin and their Receptors

P-3 Maria-Simonetta Faussone-Pellegrini

Florence University, Florence, Italy The Interstitial-Stromal Cells: State of the Art

P-4 R.E. Horch

Friedrich-Alexander Universitat, Erlangen, Germany Tissue Engineering – Where Do We Stand?

P-5 M. Ivan

Indiana University, Indianapolis, USA The Ever Expanding Universe of Hypoxia

P-6 S. Kostin

Max-Planck-Institute, Bad Nauheim, Germany Dhalla Lecture: Cardiomyocytes in Cardiac Repair

P-7 B. Winblad

Karolinksa Institutet, Stockholm, Sweden Re-Thinking Alzheimer Disease Therapy; Lessons Learned From Ongoing Clinical Trials

Symposia

S-01 Symposium "Adaptation to hypoxia: friend or foe"

S-02 Symposium "Inflammation and Sepsis"

S-03 Symposium "Advances in stroke"

S-04 Symposium "Multimodal molecules in neuroprotection and neurorecovery treatment"

S-05 Symposium "The management of early and late Parkinson's disease" **S-06** Symposium "Experimental models in adaptive medicine"

S-07 Symposium "Advances in dementia research and clinical practice"

S-08 Symposium "Obesity, fat tissue and coronary heart disease"

S-09-A Symposium "Mechanisms in cardiovascular adaptation" I

S-09-B Symposium "Mechanisms in cardiovascular adaptation" II

S-09-C Symposium "Mechanisms in cardiovascular adaptation" III

S-10 Symposium "Myocardial ischemia and reperfusion"

S-11-A Symposium "Signaling mechanisms of adaptation to hypoxia" - I -

S-11-B Symposium "Signaling mechanisms of adaptation to hypoxia" - II -

S-12 Symposium "Cardiac stem cells"

S-13 Symposium "Blood Brain Barrier and angiogenesis – role in neurodegeneration"

S-14 Symposium "Response to oxidative stress"

S-15 Symposium "Telocytes" - I -

S-16 Symposium "Physical activity in adaptive medicine"

S-17 Symposium "Telocytes" - II -

S-18 Symposium "Measuring health"

S-19 Symposium "Epigenetics and adaptive medicine"

S-20 Symposium "Modern trends in adaptive medicine"

S-21 Symposium "Pathophysiology of adaptation"

S-22 Symposium "Current view on adaptive medicine"

S-01 Symposium "Adaptation to hypoxia: friend or foe"

Chaired by: M. Ivan, Susanne Schlisio

Date:Friday, June 8thStarting time:08:30Location:Main Hall (Ronda)

1. **C. Koumenis** *Unfolded Protein Response*

2. **G. Melillo** *Pharmacological Applications of HIF Pathway*

3. Susanne Schlisio Prolyl Hydroxylases

4. **M. Ivan** *Non-coding RNA in Hypoxia*

S-02 Symposium "Inflammation and Sepsis"

Chaired by: F.Lupu, R.P. McEver

Date:Friday, June 8thStarting time:08:30Location:Hall A (Rapsodia)

1. T.E. Mollnes

Targeting complement activation and CD14-mediated TLR signaling as potential therapy in sepsis

2. R.P. McEver

Leukocyte adhesion and signaling on vascular surfaces during inflammation

3. G.T. Kinasewitz

Coagulopathy of sepsis: view from the bedside

4. F. Lupu

Pathophysiology, staging and therapy of severe sepsis

5. Cristina Lupu

Regulation of tissue factor dependent coagulation

S-03 Symposium "Advances in Stroke"

Chaired by: N. Bornstein, W.-D. Heiss

Date:Saturday, June 9thStarting time:08:30Location:Hall A (Rapsodia)

1. N. Bornstein

Secondary stroke prevention

2. W.-D. Heiss

Imaging the penumbra: the pathophysiologic basis for therapy of ischemic stroke

3. Antonio Federico

Small vessel inherited diseases: clinical and molecular findings

S-04 Symposium "Multimodal molecules in neuroprotection and neurorecovery treatment"

Chaired by: A. Alvarez, D.F. Mureşanu

Date:Saturday, June 9thStarting time:14:30Location:Hall A (Rapsodia)

1. D.F. Mureşanu

Towards a unified theory in brain damage and recovery

2. A. Alvarez

Multimodal molecules with pleiotropic neuroprotective in brain protection and recovery

3. A. Cedazo-Minguez

Neurotrophic factors in CNS biology

4. Mihaela Băciuț

Regeneration of the peripheral nerve - the maxillo-facial surgeon's view

5. Chung-Hsin Wu

Adaptive mechanisms of hypothermic neuroprotection in Taiwan leaf-nosed bat

S-05 Symposium "The management of early and late Parkinson's disease"

Chaired by: A. Antonini, O. Băjenaru

Date:Saturday, June 9thStarting time:12:00Location:Hall A (Rapsodia)

1. Regina Katzenschlager

Non-invasive treatment options for motor complications in Parkinson's disease

2. A. Antonini

The role of Apomorphine in the treatment of Parkinson's disease

3. O. Băjenaru

Interventional treatment of continuous dopaminergic stimulation in advance Parkinson's disease

4. Tarek Tawfik

Future strategies in Parkinson's disease treatment

S-06 Symposium

"Experimental models in adaptive medicine"

Chaired by: M Taggart, Narcisa Tribulova

Date:Friday, June 8thStarting time:12:00Location:Hall C (Concerto)

1. M. Taggart

A pause for thought – what are they key advantages and disadvantages of rodent models of human pregnancy and preterm labour?

2. Satoshi Matsuo

Effects of lower body positive pressure on cardiovascular functions

3. Narcisa Tribulova

Myocardial connexin-43 is implicated in adaptation and maladaptation to hypertension as well as in cardioprotective effects of the treatment

S-07 Symposium "Advances in Dementia Research and Clinical Practice"

Chaired by: Illana Gozes, B.O. Popescu

Date:Friday, June 8thStarting time:17:00Location:Hall B (Salonul Oglinzilor)

1. **K. Jellinger** *Challenges in the neuropathological diagnoses of dementias*

2. **Illana Gozes** *Microtubules and brain protection: Davunetide*

3. **S. Baloyannis** *The philosophy of dementia*

S-08 Symposium

"Obesity, fat tissue and coronary heart disease"

(Recommended by the European Society of Cardiology)

Chaired by: Maria Dorobanțu, Cor deWit

Date:Saturday, June 9thStarting time:08:30Location:Main Hall (Ronda)

1. Gabriela Roman

Obesity, a global epidemic

2. **R. Bugiardini** *Obesity, gender and coronary heart disease*

3. **M. Vintilă** *Abdominal obesity and inflammation*

4. **A. Koller** *Coronary vascular tone and obesity*

5. **S. Bălănescu** *Intravascular interventions in obese patients*

6. Lina Badimon Adipose derived stem cells: future options

S-09-A Symposium "Mechanisms in cardiovascular adaptation" - I -

Chaired by: N.S. Dhalla, D. Vinereanu

Date:Friday, June 8thStarting time:12:00Location:Hall A (Rapsodia)

1. N.S. Dhalla

Mechanisms of cardiac adaptation in hypertrophy due to volume overload

2. A.G. Fraser Diagnosis of myocardial fibrosis

3. **F. Cecchi** *Subclinical LV dysfunction and pathology*

4. **R. Weisel** *Cardiac restoration by tissue engineering*

S-09-B Symposium "Mechanisms in cardiovascular adaptation" - II -

Chaired by: O. Binah, F. Cecchi

Date:Friday, June 8thStarting time:14:30Location:Hall A (Rapsodia)

1. D. Vinereanu

Adaptation of the heart function in athletes

2. O. Binah

Investigating inherited cardiac arrhythmias by means of induced pluripotent stem cell-derived cardiomyocytes

3. F. Kolar

Distinct effects of various adaptation regimens on ischemic tolerance of chronically hypoxic hearts

4. B.S. Tuana

Transcriptional control of dilated cardiomyopathy in the absence of hypertrophy

S-09-C Symposium "Mechanisms in cardiovascular adaptation" - III -

Chaired by: A.G. Fraser, Y. Wei

Date:Friday, June 8thStarting time:17:00Location:Hall A (Rapsodia)

1. Y. Wei

LTBP-2 is a novel biomarker in heart failure - a preliminary study

2. D. Maurice

Subcellular signaling in the vascular endothelium: Cyclic nucleotides take their place

3. J. Kyselovic

Cardiac microRNAs in human end-stage heart failure

4. G. Pierce

The use of a novel dietary supplement to regulate blood pressure: powerful results from a randomized trial

S-10 Symposium "Myocardial ischemia and reperfusion"

Chaired by: A. Tosaki, J. Slezak

Date:Sunday, June 10thStarting time:08:30Location:Main Hall (Ronda)

1. R.C. Kukreja

Role of microRNA in Cardioprotection

2. A. Tosaki

The role of heme oxygenase-1 in myocardial ischemia and reperfusion

3. F. Boucher

Evolution of cytokine expression and insulin sensitivity in the myocardium after preperfused infarction in rats

4. **D.J. Hausenloy**

Remote ischemic conditioning: Bench to bedside and back again

5. Tanya Ravingerova

Lifestyle-related risk factors of cardiovascular diseases alter myocardial response to ischemia via interference with cellular adaptive mechanisms

6. J. Slezak

Chronic myocardial ischemia and mediastinal irradiation injury

S-11-A Symposium "Signaling mechanisms of adaptation to hypoxia" - I -

Chaired by: F. Downey, I.Y. Malyshev

Date:Friday, June 8thStarting time:12:00Location:Main Hall (Ronda)

1. P.S. Wang

Effects of Intermittent Hypoxia on the Production of Testosterone in Rats

2. Yulia I. Kirova

The role of oxidative stress in the induction of transcription factors at different stages of adaptation to hypoxia

3. I.Y. Malyshev

Hypoxia-induced reprogramming of macrophages: Role in tumorigenesis.

S-11-B Symposium "Signaling mechanisms of adaptation to hypoxia" - II -

Chaired by: P.S. Wang, G. Melillo

Date:Friday, June 8thStarting time:14:30Location:Main Hall (Ronda)

1. Tatiana Serebrovskaya

Migration pathways of hematopoietic stem cells in the mechanisms of adaptation to acute and intermittent hypoxia

2. Benedetta Bussolati

The plasticity of human renal CD133+ progenitors is modulated by hypoxia through Oct4/miR-145 balance

3. F. Downey

Anti-hypertensive effects of adaptation to hypoxia.

S-12 Symposium *"Cardiac stem cells"*

Chaired by: P.A. Doevendans, M. Pesce

Date:Saturday, June 9thStarting time:08:30Location:Hall B (Salonul Oglinzilor)

1. V. Lionetti

Self-Renewing heart in the era of stem cells: who have saved the heart of Prometheus?

2. Elisa-A. Liehn *Cell therapy after myocardial infarction: present and future*

3. **M. Pesce** *Cardiovascular stem cells: from regeneration to engineering*

4. **P.A. Doevendans** *Cardiac stem cells: the solution*

5. Mihaela Gherghiceanu

Cardiac stem and progenitor cells by electron microscopy/tomography

6. **S.F. Yet**

Cytoprotection of heme oxygenase-1 in embryonic stem cells and cardiovascular system

S-13 Symposium "Blood Brain Barrier and angiogenesis – role in neurodegeneration"

Chaired by: Carola Foerster, K. Jellinger

Date:Friday, June 8thStarting time: 14:30Location:Hall B (Salonul Oglinzilor)

1. P. Religa

Cellular mechanisms of vascular structure formation

2. Carola Foerster

Role of the blood brain barrier in secondary brain injury development - folly adaptations for survival?

3. D. Frenkel

Immunotherapy of cerebrovascular amyloidosis in a transgenic mouse model

4. B.O. Popescu

Alteration of blood-brain barrier in neurodegenerative diseases

S-14 Symposium "Response to oxidative stress"

Chaired by: Eugenia Manukhina, P. Singal

Date:Friday, June 8thStarting time:08:30Location:Hall B (Salonul Oglinzilor)

1. P. Singal

Subcellular adaptations in response to oxidative stress

2. A. Srivastava

Modulation of Oxidant-induced signaling by calcium and calmodulin system in vascular smooth muscle cells

3. Eugenia Manukhina

Prevention of Nitric Oxide Overproduction in Protective Effects of Adaptation to Hypoxia

4. Madhu B. Anand-Srivastava

Role of ROS in G Protein Expression and signaling in Hypertension

S-15 Symposium *"Telocytes"* - I -

Chaired by: G. Bussolati, X. Wang

Date:Friday, June 8thStarting time:17:00Location:Main Hall (Ronda)

1. X. Wang

Variation of lung telocytes among human, mouse and rat, and their gene analysis comparing with mesenchymal stem cells and fibroblasts

2. M.C. Rusu *Microanatomy of telocytes*

3. Laura-C. Ceafalan Telocytes and/or pericytes

4. G. Bussolati

Telocytes as origin of GISTs/PEComas

5. G. Radenkovic

Patterns of occurrence of interstitial cells of Cajal in the human digestive tract

S-16 Symposium "Physical activity in adaptive medicine"

Chaired by: V. Adams, CH Kuo

Date:Sunday, June 10thStarting time:08:30Location:Hall A (Rapsodia)

1. V. Adams

Molecular alterations in the skeletal and diaphragmatic muscle in heart failure: Impact of exercise training

2. Shyi-Wu Wang

Effect of passive repetitive isokinetic training on plasma interleukin (IL-6 and IL-15)

3. M. Chia

Focus on fitness and fatness in youth - foolhardy or foolproof?

4. CH. Kuo

Physical activity and insulin resistance

5. I. Ehrenburg

Interval exercise training and interval hypoxic training in coronary heart disease patients

S-17 Symposium *"Telocytes"* - II -

Chaired by: D. Cai, Maria Simonetta Faussone Pellegrini

Date:Saturday, June 9thStarting time:12:00Location:Hall B (Salonul Oglinzilor)

1. **D. Cai** *Cardiac Telocytes in Infarcted Myocardium*

2. Mihaela Gherghiceanu

Telocyte junctions: transcellular communication

3. S. Kostin

Telocytes and myocardial pathology

4. M. Taggart

A critical appraisal of the role(s) of smooth muscle caveolae

5. T. Gevaert

From interstitial cells to telocytes in the urinary tract: probably more than passive bystanders

S-18 Symposium "Measuring health"

Chaired by: F.A.C. Wiegant, Y. Kawai

Date:Saturday, June 9thStarting time:12:00Location:Main Hall (Ronda)

1. F.A.C. Wiegant

The challenge of measuring "health" using the ability to adapt

2. Mei-Chich Hsu

Effects of Swimming on Metformin Levels and Insulin Sensitivity in Insulin Resistant Rats

3. Y. Kawai

Effects of lower body positive pressure on cardiovascular functions

4. Shin-Da Lee

Anti-apoptotic and Pro-survival Effects of Exercise Training on Hypertensive Hearts

5. H. Morita

Cardiovascular adaptation/deconditioning in gravitational change

S-19 Symposium "Epigenetics and Adaptive Medicine"

Chaired by: Ana-Maria Vlădăreanu, J. Drach

Date:Friday, June 8thStarting time:08:30Location:Hall C (Concerto)

1. R.A. Wang

The molecular adaptation of cell

2. C. Müller-Tidow

Genetic mutations and epigenetic alterations in the pathogenesis of myeloid malignancies

3. Ana-Maria Vlădăreanu

The adapted therapeutic strategies in hepatitis-viruses related non-Hodgkin lymphomas - a concept of targeted approach

4. J. Drach

Mantle cell lymphoma: Recent advances in biology and therapy with novel agents

5. R. Chaunchaiyakul

Habitual physical activity and aging on respiratory function

6. B Mihălțan

Speleotherapy and respiratory diseases between myths and realities

S-20 Symposium "Modern Trends in Adaptive Medicine"

Chaired by: C. Bai, C. Ionescu-Târgoviște

Date:Sunday, June 10thStarting time:08:30Location:Hall B (Salonul Oglinzilor)

1. **X. Wang** *Clinical bioinformatics in development of disease-specific biomarkers*

2. **R.K. Goyal** *Changing Trends in the Treatment of Diabetic Cardiomyopathy*

3. **C. Bai** *Cell phone based Telemedicine - brief introduction*

4. **R.K. Li** *Myocardial Resident Bone Marrow Stem Cells Govern Repair after Myocardial Infarction*

S-21 Symposium "Pathophysiology of Adaptation"

Chaired by: M. Bhatia, Y.T. Konttinen

Date:Friday, June 8thStarting time: 12:00Location:Hall B (Salonul Oglinzilor)

1. M. Bhatia

Hydrogen Sulfide and Substance P: Novel Inflammatory Mediators and Therapeutic Targets for Acute Pancreatitis

2. Y.T. Konttinen

Osteoarthritis as an auto-inflammatory disease caused by condrocyte-mediated inflammatory responses

3. Chen-Hsen Lee

The Management of Well Differentiated Thyroid Cancer

4. A. Cortot

IBD: from epidemiology to pathophysiology

5. J-F. Flejou

Premalignant Lesions in Inflammatory Bowel Diseases - The Pathologist's View

S-22 Symposium "Current view on adaptive medicine"

Chaired by: A. Pries, M. Cinteză

Date:Saturday, June 9thStarting time:14:30Location:Hall B (Salonul Oglinzilor)

1. Patrizia d'Alessio

Quality of Life and inflammation: gender differences in response to dietary supplementation in elderly people in the RISTOMED study

2. Chi-Chang Huang

Potassium oxonate-induced proteinuria and acute renal failure in vivo

3. A. Pries

Design principles of vascular networks: Angiogenesis, adaptation, heterogeneity and function.