

Institute for Biomedical Problems of Russian Academy of Sciences (IBMP RAS)

Workshop Program

June 4-6, 2008

June 4 (Wednesday)

Session: Interconnection of fundamental research, space and anti-age medicine

Chairmen:

- Dmitry C. Malashenkov (IBMP)
- Filippo Ongaro (Med for Life s.l.r.)

1. Filippo Ongaro (Med for Life s.l.r.): «**From space medicine to anti-aging interventions**»
2. Prof. Vladimir A. Orlov (IBMP RAS) «**The health index as the indicator of biological age of human**».
3. Prof. Roman M. Baevsky, Prof Ada P. Berseneva, Eugeny Bersenev (IBMP RAS) «**Application of methods of prenatal diagnostics for an estimation of working population health**».
4. Prof. Sergey L. Kiselev, Corr.-member of RAS Nikolay K. Yankovsky (N.I. Vavilov Institute of General Genetics of RAS) «**Genetic and epigenetic aspects of cell aging in human body and stem cells**».
5. Prof. Nikolay A. Didkovsky, Olga A. Azizova (Research Institute of Physical and Chemical Medicine of RF Ministry of Health and Social Development) «**Oxidative stress and immunity in the aging and aging diseases**».
6. Igor A. Nichiporuk (IBMP RAS) «**Estimation of a condition of neuro-endocrine system and a water-salt exchange with reference to a problem of retention of the healthy person health**».
7. Victor N. Makarov, Michail Yu. Akimov (Michurinsk Science-City of RF) «**Elaboration of new functional foodstuffs for retention of the healthy person health**».

Discussion of prospects of teamwork

Lunch

Session: Modern approaches in proprioception

Chairmen:

- Corr.-member of RAS Inessa B. Kozlovskaya (IBMP RAS),
- Prof. Dario Riva (International Society of Proprioception and Posture)

1. Prof. Dario Riva «**High density and time saving estero-proprioceptive training for postural muscle atrophy and osteoporosis prevention in microgravity. Pre-mission, in-mission and post-mission training and assessment protocols**».
2. Corr.-member of RAS Inessa B. Kozlovskaya (IBMP RAS) «**Gravitational mechanisms in motor system**».
3. Prof. Alla B. Gekht, Prof. Ludmila A. Chernicova, Irina V. Sayenko «**Application of space medicine technologies in practical public health service**».

Discussion of prospects of teamwork

June 5 (Thursday)

Session: Researches of influence of stress on a sleep and other functions of a human body in extreme conditions of environment

Chairmen:

- Vadim I. Guschin (IBMP RAS)
- Alexander L. Kalinkin (Central clinical hospital # 1 of Medical Department of Administration of the RF President)
- Angelo Gemignani (Pisa University, Italy)

1. Angelo Gemignani (Pisa University, Italy) «**The effects of stress on sleep in extreme environmental conditions: a novel multidisciplinary approach based on sleep slow oscillation mapping and on studying its role on cerebral functions**».
2. Vadim I. Guschin (IBMP RAS) «**Methods of research of stress in extreme conditions of environment**».
3. Alexander L. Kalinkin (Central clinical hospital № 1 of Medical Department of Administration of the RF President) «**Features of variability of a cardiac rhythm at various disturbances of a sleep**».
4. Olga I. Shevchenko (IBMP RAS) «**Features of electroencephalographic researches in extreme conditions of environment**».

Discussion of prospects of teamwork

Visiting of an experimental base of the Institute

Lunch

Session: Modern approaches to creation of system of radiation safety of research missions

Chairmen:

- Prof. Vladislav.M.Petrov (IBMP RAS),
- Prof. Walter Pecorella (National Institute of Astrophysics, Italy)
- Franco Rossitto (National Institute of Astrophysics, Italy)

1. Prof. Walter Pecorella (National Institute of Astrophysics, Italy) «**MoonLab: Progress Report - June 2008**»
2. Prof. Vladislav M. Petrov (IBMP RAS) «**Organization of works on maintenance of radiation safety during space expedition**».
3. Franco Rossitto (National Institute of Astrophysics, Italy): «**SPhERA: Solar Phenomena Exploration for Radiation Assessment, a Mission Proposal**»
4. VictorV. Bengin «**Modern system of the radiation control on an example of Service of the Radiation Control of the Russian segment of the International space station**».

Discussion of prospects of teamwork

June 6 (Friday)

Session: Hyperbaric physiology and underwater medicine

Chairmen:

- Prof. Boris N. Pavlov (IBMP RAS)
- Prof. Remo Bedini (CNR Institute of Clinical Physiology, Italy)

1. Prof. Boris N. Pavlov (IBMP RAS) «**Basic directions and possibilities of teamwork in the field of hyperbaric physiology and underwater medicine**»
2. Prof. Remo Bedini (CNR Institute of Clinical Physiology, Italy) «**Submarine Lab for investigation and fitness medical visit in Underwater Medicine**»
3. Alexey T. Logunov (Pilot Plant under IBMP RAS)«**Means of maintenance of diving works and treatment by inert gases**»,
4. Anna R. Kussmaul (IBMP RAS) «**Prospects of use of heavy inert gases (xenon, krypton, argon) in medicine**»

Discussion of prospects of teamwork

Visiting of an experimental base of the Institute

Lunch

Departure in the “Sheremetyevo-2” airport