Workshop

NUTRITION AND HEALTH STATUS MONITORING IN HUMAN SPACE MISSIONS

Bologna, December 10th, 2009
Sala Ulisse, Accademia delle Scienze dell’Istituto di Bologna

With the Support of:

9,00 Registration

9,30 Welcome to the participants and work opening

Academic and Institutional Authorities

Chairmen:
Prof. Aldo Roda, University of Bologna, Bologna
Dr. Tatiana Agapitseva, Institute for Biomedical Problems, Moscow

SESSION 1

THE MARS500 HUMAN MISSION SIMULATION TO MARS: 105-DAY EXPERIMENT

10,00 Work physiology under extreme conditions
Dr. Igor Ushakov
Institute for Biomedical Problems – Russian Academy of Sciences, Moscow

10,30 Ground simulation of the manned flight to Mars
Dr. Alexey Tryamkin
Institute for Biomedical Problems – Russian Academy of Sciences, Moscow

11,00 The research of ASI in the field of Space Biomedicine
Dr. Vittorio Cotronei
Medicine and Biotechnology section, Italian Space Agency, Rome

11,20 Coffee break offered by CAMST Soc Coop a r.l.

SESSION 2

Chairmen:
Dr. Gianfranco Risuleo, Italian Space Agency, Rome
Dr. Mara Mirasoli, University of Bologna, Bologna

Project: Development of multiplexed non-invasive tests for the real-time monitoring of biomarkers of health status during the Mars500 human mission simulation

11,45 Non-invasive monitoring of motor and organ functions of the gastrointestinal system by breath tests
Prof. Aldo Roda
Department of Pharmaceutical Sciences, University of Bologna, Bologna
12,05  Monitoring of reactivation of latent human Herpesviruses infections  
Prof. Monica Musiani  
Department of Haematology and Oncological Sciences «L. E. A. Seragnoli» - Microbiology, University of Bologna, Bologna

12,25  Metabolomic identification of stress biomarkers in biological fluids due to special confinement conditions  
Prof. Aldo Laganà  
Department of Chemistry, University of Rome “La Sapienza”, Rome

12,45  Characteristics of human digestive system functioning under orbital space flight conditions.  
Dr. Boris Afonin  
Institute for Biomedical Problems – Russian Academy of Sciences, Moscow

Project: Astronauts resistance enhancement to stress (ARES)

13,15  Results of the research activity in the frame of the ARES project  
Prof. Remo Bedini, Prof. Angelo Gemignani  
Centro Extreme SSSA, IFC CNR, Pisa

13,35  Lunch offered by CAMST Soc Coop a r.l.

SESSION 3

Chairmen:  
Prof Enrico Roda, University of Bologna, Bologna  
Dr. Boris Afonin, Institute for Biomedical Problems, Moscow

THE MARS500 HUMAN MISSION SIMULATION TO MARS: 520-DAY EXPERIMENT

14,45  Organization of the forthcoming 520-day MARS500 experiment  
Dr. Tatiana Agaptseva  
Institute for Biomedical Problems – Russian Academy of Sciences, Moscow

15,15  Food intake during simulated long-term space flight: experimental challenges and lessons learned  
Dr. Anke Dahlmann  
University of Erlangen-Nürnberg

15,35  Expert opinion: nutrition in extreme conditions  
Prof. Giulio Marchesini Reggiani  
Department of Clinical Medicine, University of Bologna, Bologna

15,50  Round Table: Nutrition requirements for the forthcoming 520-day MARS500 experiment.  
The contribution of Italian public institutions and call for interest to private companies. With the participation of:

Colussi SpA  
Sofar SpA  
Granarolo SpA  
Valsoia SpA  
CAMST Soc Coop a r.l.

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