



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



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 Agaptseva, 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.



Chairmen:

Dr. Gianfranco Risuleo, Italian Space Agency, Rome

Dr. Mara Mirasoli, University of Bologna, Bologna

SESSION 2

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.**



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

SESSION 3

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:



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Space SpA



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