

## Minisymposium "International Space Medicine"

#### **4. November 2014**

### Læsesalen (Building. 1241, lokale 211) Bartholin Building

#### Session I: Chair Prof. Daniela Grimm

- 08:30 Introduction and Welcome by Prof. Daniela Grimm
- 08:35 **Dr. Markus Wehland** "Microgravity research: from simulation to science in Space" Otto von Guericke University Magdeburg, Germany
- 08:55 **Prof. Thomas Vorup-Jensen** "Leukocyte adhesion in simulated microgravity" Aarhus University, Denmark
- 09:15 **Prof. Daniel Otzen** "Protein aggregation in vitro, in vivo and in spatio?" Aarhus University, Denmark
- 09:55 **Stefan Riwaldt** "First preliminary results of Cellbox One."
  Otto von Guericke University Magdeburg, Germany
- 10:05 10:35 Coffee Break

#### **Session II: Chair Prof. Thomas Corydon**

- 10:35 PD Ruth Hemmersbach "Applications and limitations of simulation experiments in gravitational biology." German Aerospace Center (DLR), Cologne, Germany
- 11:15 Ganna Aleshcheva "Tissue engineering of cartilage on the Random Positioning Machine."
  Otto von Guericke University Magdeburg and Helmholtz Space Life Science Research School, Germany
- 11:25 Prof. Ralf Anken "Gravity sensors of animals and their crucial role in biological life support systems" German Aerospace Center (DLR), Cologne, Germany
- 12:05 13:05 Lunch at the "Have Stuen"

#### Session III: Chair Prof. Ralf Anken

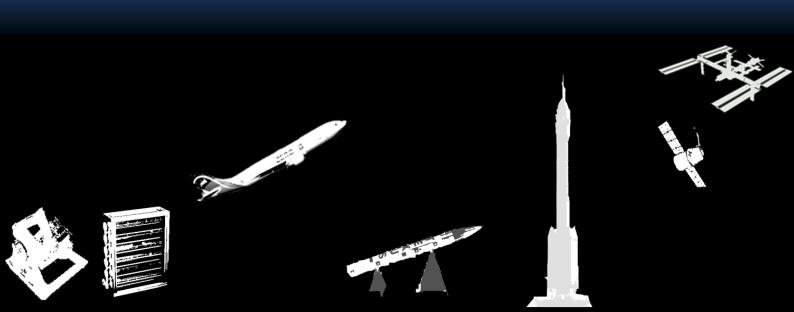
13:05 - **Xiao Ma** "Regulatory mechanisms of 3D aggregates of normal and malignant cells on the RPM." Aarhus University, Denmark

- 13:25 **Prof. Chung Yang** "Detachment: An approach to sensing mechanical stimuli via integrin" Tsinghua University, PR China
- 14:05 **Sascha Kopp** "Altered cytokine secretion of human thyroid cells after long term exposure on the RPM." Aarhus University, Denmark
- 14:15 *Prof. Alamelu Sundaresan* "International Space Station (ISS) University Research Project .The effect of benzofuran 2-carboxylic acid derivatives in the augmentation of the immune system" Texas Southern University and NASA Administrator's Fellow, USA
- 14:55 Prof. Janne Elin Reseland "The role of adipokines in bone remodeling." University Oslo, Norway
- 15:35 16:15 Coffee Break

#### **Session IV: Chair PD Ruth Hemmersbach**

- 16:15 Prof. Thomas J. Corydon "Impact of microgravity on cytoskeleton changes in FTC-133 cancer cells using fluorescence microscopy analysis during parabolic flights" Aarhus University, Denmark
- 16:35 **Prof. Ulf Simonsen** "Using visual light to interrogate living cells " Aarhus University, Denmark
- 16:55 Dr. Jessica Pietsch "Logistics and Biocompatibility of space flights" Otto von Guericke University Magdeburg, Germany
- 17:15 17:25 *Prof. Daniela Grimm* "Future Space Projects" Aarhus University, Denmark and Otto von Guericke University Magdeburg, Germany

**End** 





# List of invited speakers

Participants	Institution
Ganna Aleshcheva	University Hospital
PhD student	Clinic for Plastic, Aesthetic and Hand Surgery
	AG Grimm - Space Medicine
	Otto von Guericke University Magdeburg and
	Helmholtz Space Life Science Research School,
	Germany
Prof. Dr. Ralf Anken	Head of the Biomedical Science Support Center
	Institute of Aerospace Medicine
	Biomedical Research
	German Aerospace Center, Cologne, Germany
Prof. Dr. Thomas J.	Associate Professor
Corydon	Department of Biomedicine
	Aarhus University, Denmark
PD Dr. Marcel Egli	Head of the Competence Center:
_	Aerospace Biomedical Science & Technology
	Luzerne University of Applied Sciences,
	Switzerland
Prof. Dr. Daniela Grimm	Department of Biomedicine
	Team leader of the international working group
	Space Medicine (Aarhus/ Magdeburg)
	Aarhus University, Denmark
PD Dr. Ruth	Team leader of the working group: Interdisciplinary
Hemmersbach	Gravity Research,
	Institute of Aerospace Medicine
	Biomedical Research
	German Aerospace Center, Cologne, Germany
Sascha Kopp	Department of Biomedicine
Master Student	Working group Space Medicine
	Aarhus University, Denmark
Xiao Ma	Department of Biomedicine
PhD Student	Working group Space Medicine
	Aarhus University, Denmark
Prof. Dr. Daniel Otzen	Nanobiotechnology iNANO, Department of
	Molecular Biology and Genetics
	Aarhus University, Denmark
Dr. Jessica Pietsch	University Hospital
	Clinic for Plastic, Aesthetic and Hand Surgery
	AG Grimm - Space Medicine
	Otto von Guericke University Magdeburg,
	Germany
Prof. Dr. Janne Elin	Department of Biomaterials
Reseland	Head of the Oral Research Laboratory (ORL) at the Institute of Clinical Dentistry, Oslo, Norway

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Stefan Riwaldt	University Hospital
PhD Student	Clinic for Plastic, Aesthetic and Hand Surgery
	AG Grimm - Space Medicine
	Otto von Guericke University Magdeburg,
	Germany
Prof. Dr. Ulf Simonsen	Professor
	Department of Biomedicine
	Aarhus University, Denmark
Prof. Dr. Alamelu	Associate Professor
Sundaresan	Biology, Texas Southern University, Asst.
	Professor, Department of Surgery, Univ .of Texas
	Medical School in Houston and University of
	Houston. NASA Administrator's Fellow, USA
Prof. Dr. Thomas Vorup-	Professor MSO
Jensen	Department of Biomedicine
	Aarhus University, Denmark
Elisabeth Warnke	University Hospital
PhD student	Clinic for Aesthetic, Plastic and Hand surgery
	AG Grimm - Space Medicine
	Otto von Guericke University Magdeburg, and
	Helmholtz Space Life Science Research School,
	Germany
Dr. Markus Wehland	University Hospital
21. Markao Wornana	Clinic for Plastic, Aesthetic and Hand Surgery
	AG Grimm - Space Medicine
	Otto von Guericke University Magdeburg,
	Germany
Prof. Chun Yang	Biomechanics and Medical Engineering Institute
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	Tsinghua University, Beijing, PR China

