



## 20 YEARS OF CONCORDIA RESEARCH

3 April 2025

10:00-15:45 (CET)

*Italian Space Agency-ASI*

*Via del Politecnico snc, Roma*

Timing	Item	Speaker
10:00-10:45	General Introduction	ESA (Melike Balk) IPEV (Coline Marciau) PNRA (Riccardo Scipinotti)
10:45-11:00	Human Interaction in Isolated, Confined, and Extreme Environments: A Study of Antarctic Winter Teams Using Wearable Sensors	Jan Schmutz and Andrea Cantisani
11:00-11:15	Effects of long-term exposure to hypobaric hypoxia and extreme isolation on cardiac electro-mechanical activity: preliminary results from the Concordia station	Sarah Solbiati
<b>Coffee break 11:15-11:45</b>		
11:45-12:00	The Third-Quarter Phenomenon Through an Interdisciplinary Lens: Towards Better Adaptation	Katia Collomp
12:00-12:15	Metabolic Plasticity and Hypoxia Adaptation: Insights from Concordia Station for Space Exploration and Human Physiology	Michele Maffia
12:15-12:30	MicroFunExpo project: The influence of the microbial exposome on the human mycobiome and microbiome in confined environments as support for future space travels	Duccio Cavalieri
12:30-12:45	Decision-making adaptation at Concordia: behavioral findings from the PARADIGM project	Pierpaolo Zivi
12:45-13:00	Optimization of sampling and DNA extraction protocols for low-biomass microbial communities in confined environments	Marta Nerini

<b>13:00-13:15</b>	Diet and Sensory Adaptations of Smell and Taste in an Isolated, Confined, and Extreme Environment in Antarctica: A Longitudinal Study at Concordia Research Station	Isabelle Mack
<b>Lunch Break 13:15-14:30</b>		
<b>14:30-14:45</b>	The do's and the don'ts for biomedical investigations at Concordia: A practical handbook from a researcher's perspective for a successful implementation of your research protocol	Katharina Biere
<b>14:45-15:00</b>	Sleep, circadian rhythms and performance during Antarctic overwintering: a decade of research at Concordia Station	Nathalie Pattyn
<b>15:00-15:15</b>	Cardiorespiratory fitness of Concordia crew members living in extreme environment for eleven months	Marianna Neri
<b>15:15-15:30</b>	A year-long test	Massimiliano Catricala
<b>15:30-15:45</b>	Protocol for Evaluation of Oral-Microbiota as Determinant for General Health Condition of Astronauts and How to Enhance Dental Health, Prevent TMD, and Improve Astronaut Performance During Long-Term Space Missions	Funda Goker

**Practicalities:**

- Stick to the timing as we have a very dense agenda
- Each speaker will have *15 minutes for a presentation, with a maximum of 12 slides*, which should be sent to [concordia@esa.int](mailto:concordia@esa.int) by **March 27<sup>th</sup>**.
- If you have any remaining questions or (potential) issues to join the meeting, please contact us at [Concordia@esa.int](mailto:Concordia@esa.int)