

Tissue engineering in space and medicine - Online Summer School / August 2025

	Monday 25	Tuesday 26	Wednesday 27	Thursday 28	Friday 29
10:00-10:50	Sarah Baatout (SCK CEN) Caring for Humans Beyond Earth: The Future of Space Medicine	Marina Tuschen (LMU Klinikum) With Microfluidics Towards Automated, Real- Time Immune Monitoring In Space	Cynthia Van Rompay / Emil Rehnberg (SCK CEN) Cardiac models and preservation methods	Jean-Pol Fripiat (Univ. de Lorraine) Effects of gravitational & socioenvironmental stresses during space- flight on lymphopoiesis and antigen receptors	Michael Gelinsky (Dresden University) Extrusion bioprinting in space
Break 10'					
11:00-11:50h	Rodrigo Fernandez Gonzalo (KI) Dissecting Muscle in Orbit: From Astronauts to 3D cell models	Bjorn Baselet (SCK CEN) Radiation resistance in space	Miguel Ferreira (SAS) Tissue engineering in outer space	Jan-Bernd Stukenborg (Uppsala University) Human reproduction and development in space	Anna Fogtman (ESA) Radiation Protection for Astronauts
Lunch 1h					
13:00-13:50h	Laurence Vico-Pouget (INSERM) Impact of space travels on bones	Nandu Ggoswami (Med Uni Graz) Spaceflight meets geriatrics	Christine Hellweg (DLR) Space Radiation Biology: Experimental Approaches to Assess Biological Effects of a Highly Complex Radiation Field	Sara Santos (Metatissue) Hydrogels in Space Research: Enabling Biotech Advancements Beyond Earth	Natacha Callens (ESA) ESA opportunities for students and recent graduates
Break 10'					
14:00-14:50h	Silvana Miranda (GSI) Impact of space environment stressors on the health of astronauts – focus on the immune system	-	Lorenzo Moroni (MU) Magneto acoustic levitation bioprinting in space	Jack Van Loon (VU) Microgravity Simulations	Damien Miles Bailey (Univ. South Wales) Mind over Mars: pushing the brain's limits