



# POSTER SESSION

session	Title	presentation	number	Author		Organization
1 - Terrestrial applications	Sealed sterile computerized hydroponic greenhouses	flash+poster	1	Giorgia	Pontetti	FERRARI FARM SOCIETA AGRICOLA S.R.L.
	Impact of carbon source on the PHA quantity and quality in <i>Rhodospirillum rubrum</i>	poster	2	Paloma	Cabecas Segura	Department of Proteomics and Microbiology, University of Mons
2 - Flight experiments and space technology demonstrators	Design of a Microgravity Aeroponics Root Chamber Tray	poster	1	Aditya	Pande	German Aerospace Centre, Bremen
	Kayser Italia hardware for bio-regenerative life support system in space	poster	2	Alessandro	Donati	Kaiser Italia S.r.l.
3 - Yellow and grey waters treatment and recycling	Continuous nitrification of artificial urine with a bacterial co-culture in a packed-bed bioreactor	poster	1	Justyna	Barys	MELISSA Pilot Plant – Laboratory Claude Chipaux, Universitat Autònoma de Barcelona, Spain; Laboratory of Microbial Ecology and Technology, Faculty of Bioscience Engineering, Universiteit Gent, Belgium
	Internal and external stressors to the MELISSA loop	poster	2	Tom	Sassen	SCKCEN / UCC
	Optimizing nutrient recovery from urine for Space Missions	poster	3	Valentin	Faust	EAWAG/ETH Zürich
4 - Edible biomass production	RADIATION RESISTANCE IN THE CYANOBACTERIUM ARTHROSPIRA	flash+poster	1	Anu	Yadav	SCK-CEN
	Effects of heavy ions on development, photosynthesis and fruit antioxidant production in <i>Solanum lycopersicum</i> L. 'Microtom' plants: a space perspective.	flash+poster	2	Carmen	Arena	University of Naples Federico II, Department of Biology
	Effect of Earthworms, pig slurry and organic matter on plant growth on Mars soil simulant.	flash+poster	3	Wieger	Wamelink	Wageningen University & Research
	High throughput based analysis of <i>Chlorella vulgaris</i> associated bacterial diversity	poster	4	Iris	Haberkorn	ETH Zurich
	Influence of long term exposure to enhanced gamma radiation levels on biomass production, physiological health and antioxidative status of <i>Arabidopsis thaliana</i> and of <i>Oryza sativa</i>	poster	5	Nele	Horemans	Belgian Nuclear research center
	Increasing the oxygen productivity of <i>Arthrospira</i> sp. PCC 8005 using alternative nitrogen sources: A bioengineering and proteomic outlook.	poster	6	Neha	Sachdeva	University of Mons, Belgium
	A study of plant cultivation for space exploration in JAXA	poster	7	Tomomi	Suzuki	Japan Aerospace Exploration Agency
	A new concept field simulator to grow plants in unconventional sites	poster	8	Luigi	d'Aquino	ENEA
	A simple mechanistic model of higher plant gas exchanges in a reduced gravity environment	poster	9	Lucie	Poulet	Université Clermont Auvergne
	Splendid Spirulina	poster	10	Siegfried	Vlaeminck	University of Antwerp
	Superb purple non-sulfur bacteria	poster	11	Siegfried	Vlaeminck	University of Antwerp
	Photosynthetic microalgae as a sustainable platform for the production of high quality edible biomass	poster	12	Matteo	Ballotari	University of Verona
5 - Modelling and system design	Synergetic Interactions between Space and Process Systems Engineering Enhancing Reactor Design	flash+poster	1	Dries	Demey	QinetiQ Space nv
	MetQy: an R package to aid the design of synthetic microbial communities	flash+poster	2	Andrea	Martinez-Vernon	University of Warwick
	New generation photobioreactor characterization	poster	3	Catherine	Creuly	Université Clermont-Auvergne, CNRS, Institut Pascal, Clermont-Ferrand, France

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	Comparison of simulation results with measurements in case of a bio-contamination in a closed habitat	poster	4	Aku	Karvinen	VTT Technical Research Centre of Finland Ltd
6 - Physical, chemical and microbial contaminants	Effect of Flow on Formation, Morphology and Wetting Properties of <i>Pseudomonas fluorescens</i> Biofilms	poster	1	Federica	Recupido	Aristotle University of Thessaloniki
	BIO-MARS project. Preliminary bio-component screening towards air revitalisation in spacecrafts	poster	2	Gabriela	Soreanu	Gheorghe Asachi" Technical University of Iasi,
7 - Ground demonstration and analogue testing	Continuous operation of interconnected packed-bed nitrifying bioreactor and an external loop air-lift photobioreactor at pilot scale	poster	1	David	Garcia	MELISSA Pilot Plant – Claude Chipaux Laboratory.
	HORTEXTREME - Protected HORTiculture in inflatable facilities, resistant to EXTREME conditions, for the production of high nutritional value plants: a field experiment in the AMADEE-18 mission	poster	2	Sara	Piccirillo	Italian Space Agency (ASI)
	New Material Surface for Water Condensate	poster	3	Thomas	Pottage	Public Health England
	Antarctica analogue test campaign preliminary result of RUCOLA, the EDEN ISS rack like plant production unit for microgravity applications	poster	4	Giorgio	Boscheri	Thales Alenia Space Italia
8 - Organic wastes processing and refinery	Resource recovery from organic waste by microalgae global sustainability and space exploration	flash+poster	1	Stefan	Leu	Ben Gurion University of the Negev, Israel
	Carbon and nitrogen recovery by hydrothermal oxidation	flash+poster	2	Dongdong	zhang	Ghent university
	Manganese bio-oxidation relaxes nitrite growth inhibition of <i>Roseobacter</i> sp. AzwK-3b	flash+poster	3	Christian	Zerfaß	University of Warwick (School of Life Sciences)
	Pyrolysis of human Waste in a Biochar based Life Support System	poster	4	Mira	Bleuler	Zürcher Hochschule für Angewandte Wissenschaften (ZHAW)
9 - Societal impacts and education	THE BOTANIKA PROJECT	poster	1	Maria	Rosello Petit	DLR
10 - Food quality, processing and human nutrition	Are fishes good candidate for the space colonization	flash+poster	1	Cyrille	Przybyla	Ifremer
	Simulation of bread baking on planet Mars	flash+poster	2	Serge	Ameye	The Planet Mars Baking Society
	Advantages of crop production in a controlled environment with a LED sole sources of lighting	poster	3	Grazyna	Bochenek	Heliospectra AB
	Does simulated microgravity affect root cell cycle in tomato ? A flow cytometric study on DNA content variations in a "biofortified" tomato "MICROTOM"	poster	4	Luca	Nardi	ENEA