Proposer: NanoRacks – Europe



In partnership with IXTAL team:







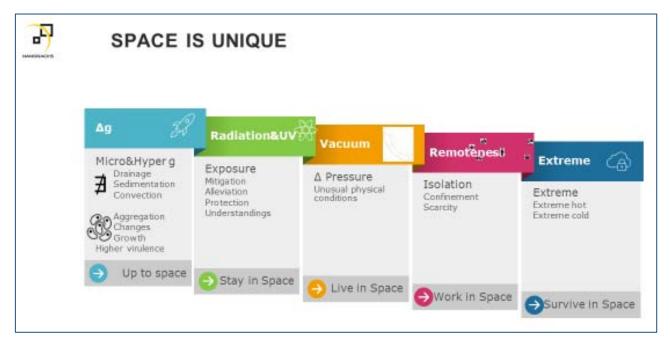


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Day: 26 Septmber 2019 10.00 – 16.30

Venue: CNR, Via dei Taurini 19 - Aula A Ground Floor - 00185 Rome

Objective: The workshop aims to stimulate a new way of doing research at CNR – DSCTM, such as adding the micro-gravity/Space environment to the current scientific topics under investigation at CNR-DSCTM. The event will give the opportunity to prove that microgravity research is a product optimization platform. For example, protein crystals that grow in 1g, but give noisy data and may grow better in microgravity, therefore optimized to give better signal to noise.



Programme of the Day

Time	Activity	Owner
10.00 - 10.30	Getting together	CNR & NanoRacks
10.30 -10.45	CNR – DSCTM: Overview of the activities	CNR
10.45 – 11.15	NanoRacks: overview of benefits stemming	NanoRacks
	from doing research in Space	
11:15-13:30	Technical presentations	
11:15 - 11:30	"Life sciences in Space Research"	Ixtal
11:30 – 11:45	"Microgravimetry to improve measurements and experiments of industrial interest for	Rina
	Additive Manufacturing technologies"	
11:45 - 12:00	"Enhanced evaporation and condensation	A. Liscio – CNR ISOF
	using graphene-based materials. Applications in micro-gravity."	
12:00 - 12:15	Space research and technologies addressing	G. Rea - CNR IC
12.00 - 12.13	quality of life on earth	G. Nea - CIVILIC
12:15 - 12:30	"Protective coatings via High Power Impulse Magnetron Sputtering"	S. Dambrosis – CNR-ICMATE
12:30 - 12:45	"Hierarchical bone scaffold as a 3-D biomimetic	S. Sprio – CNR ISTEC
12.30 - 12.43	substrate to develop strategies against osteosarcopenia".	3. Spirio Civil 131 EC
12:45 - 13:00	"Hydroxylated biphenyls of interest in	G Delogu – CNR ICB
	biomedical and agrobiological field: possible	-
	prospects under microgravity conditions	
13:00 - 13:15	""Controlling the chirality in supramolecular	L. Monsù Scolaro – CNR ISMN
	aggregates by gravity and rotational forces"."	
13:15 – 13.30	Wrap-up: engineering solutions for Space purposes	NanoRacks
13:30 – 13:45	"3D in vitro membrane platform for drug testing"	L. De Bartolo – CNR ITM
13.45 – 14.30	Lunch break	
14.30 – 16.00	Set-up of topical working groups for	NanoRacks, iXTAL & RINA with
	discussions and way-forwards	CNR
16:00 – 16:15	Final Remarks	CNR -Nanoracks