



In partnership with IXTAL team:



In partnership with RINA team:



**Day:** 26 September 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 from doing research in Space	NanoRacks
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 Additive Manufacturing technologies”	Rina
11:45 - 12:00	"Enhanced evaporation and condensation using graphene-based materials. Applications in micro-gravity."	A. Liscio – CNR ISOF
12:00 - 12:15	Space research and technologies addressing quality of life on earth	G. Rea - CNR IC
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 substrate to develop strategies against osteosarcopenia”.	S. Sprio – CNR ISTEK
12:45 - 13:00	“Hydroxylated biphenyls of interest in biomedical and agrobiological field: possible prospects under microgravity conditions	G Delogu – CNR ICB
13:00 - 13:15	“Controlling the chirality in supramolecular aggregates by gravity and rotational forces”.	L. Monsù Scolaro – CNR ISMN
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 discussions and way-forwards	NanoRacks, iXTAL & RINA with CNR
16:00 – 16:15	Final Remarks	CNR -Nanoracks