

OSA2Micro: An Open Science Approach to Microbiology data integration

Landscape, software tools, platforms, and computational workflows devised by the EOSC-Life project July 3-5, 2023, Molecular Biotechnology Center (MBC), Via Nizza 52, Turin, Italy

Day 1 – Monday July 3 rd , 2023	
11:30-13:00	Meeting of project partners (restricted)
13:00-14:00	Time for free lunch
14:00-14:30	Welcome, Introduction & Expectations Cristina VARESE, Department of Life Sciences and Systems Biology, University of Turin Marco BECCUTI, Department of Computer Science, University of Turin
14:30-15:30	The reproducibility crisis in life science Marco BECCUTI, Department of Computer Science, University of Turin Raffaele A. CALOGERO, Department of Molecular Biotechnology and Health Sciences, University of Turin
15:30-16:00	European Research infrastructures in the biomedical domain Paolo ROMANO, IRCCS Ospedale Policlinico San Martino, Genoa
16:00-16:30	Coffee break
16:30-18:00	EOSC-Life Roadmap: technologies for data sharing and integration in the European Open Science Cloud Antonio ROSATO, Department of Chemistry, University of Florence and InterUniversity Consortium for Magnetic Resonance of Metalloproteins
18:00-18:30	Public discussion on the topics of the day All presenters and participants
18:30-19:30	Meeting of project partners (restricted)
Day 2 – Tuesda	ay July 4 th , 2023
09:00-10:30	FAIR principles, FAIRness, and FAIR metrics Antonio ROSATO, Department of Chemistry, University of Florence and InterUniversity Consortium for Magnetic Resonance of Metalloproteins
10:30-11:00	Coffee break

11:00-12:00	How to exploit Harvard Dataverse to achieve the FAIR principles (DEMO) Rossana DAMIANO, Department of Computer Science, University of Turin
12:00-13:00	The Dataverse implementation of the SUS-MIRRI.IT platform Marco Beccuti and Sandro Gepiro Contaldo, Department of Computer Science, University of Turin
13:00-14:30	Time for free lunch
14:30-15:30	Workflow Management Systems: Galaxy, Snakemake, Nextflow Paolo ROMANO, IRCCS Ospedale Policlinico San Martino, Genoa
15:30-16:00	Coffee break
16:00-17:00	Workflows and the Common Workflow Language (CWL) Iacopo Colonnelli, Department of Computer Science, University of Turin
17:00-18:00	Introduction to Software Containers: Docker and Singularity in a Nutshell Luca PIREDDU, CRS4 Center for Advanced Studies, Research and Development in Sardinia
18:00-18:30	Public discussion on the topics of the day All presenters and participants
18:30-19:30	Meeting of project partners (restricted)
Day 3 – Wednesday July 5 th , 2023	
09:00-10:00	RO-Crate and workflow execution provenance Simone LEO, CRS4 Center for Advanced Studies, Research and Development in Sardinia
10:00-11:00	Publishing Your Workflows and Keeping Them Running: the WorkflowHub and LifeMonitor services Luca PIREDDU, CRS4 Center for Advanced Studies, Research and Development in Sardinia
11:00-11:30	Coffee break
11:30-13:00	Microbial data analysis in Galaxy: tools, workflows, training and community for a FAIR, Open, & Sustainable Infrastructure Paul ZIEREP, Freiburg Galaxy team, University of Freiburg
13:00-14:00	Lunch break
14:00-16:00	How to use Galaxy for microbial data analysis? A hands-on demo (DEMO) Paul ZIEREP, Freiburg Galaxy team, University of Freiburg
16:00-16:30	Public conclusions All presenters and participants
16:30-17:45	Meeting of project partners (restricted)