



MOLAB – IISc joint meeting

3rd July 2023

10:00-13:00 (GMT+2)

10:00 – 10:10	<i>Brief Introduction to our research teams</i> Mohit K. Jolly and Víctor M. Pérez García
10:10 – 10:30	<i>Quantifying epithelial-mesenchymal state transition dynamics from flow cytometry data</i> Parais Jain (IISc)
10:30 – 10:50	<i>Flow cytometry data from relapsing leukemia patients: a statistical and topological approach</i> Salvador Chulián (MOLAB, UCA)
10:50 – 11:10	<i>To be or not to be: Uncovering the Interplay between phenotypic robustness and plasticity in gene regulatory networks</i> Kishore Hari (IISc)
11:10 – 11:30	<i>Exploring the relationship between chromosomal instability, karyotype diversity and tumour evolution in leukemia patients</i> Carmen Ortega Sabater (MOLAB, UCLM)
11:30 – 11:50	<i>Mathematical modelling of tamoxifen resistance, immune evasion and lineage plasticity in ER+ breast cancer</i> Sarthak Sahoo (IISc)
11:50 – 12:10	<i>From Math to Mice: peering into glioma therapy optimization through a mesoscopic glass</i> Juan Jiménez Sánchez (MOLAB, UCLM)
12:10 – 12:30	<i>Dynamical modelling of proliferative-invasive plasticity and IFNγ signaling in melanoma reveals mechanisms of PD-L1 expression heterogeneity</i> Seemadri Subhadarshini (IISc)
12:30 – 12:50	<i>Deciphering the dynamics of a living drug: mathematical modelling of immunotherapy</i> Álvaro Martínez Rubio (MOLAB, UCA)
12:50 – 13:00	<i>Final remarks</i>