

Interdisciplinary Lectures (IDL)

Unlocking the Secrets of Space Biology: From the Twin Study to Groundbreaking Open Science Discoveries (IDL.2)

UNLOCKING THE SECRETS OF SPACE BIOLOGY: FROM THE TWIN STUDY TO GROUNDBREAKING OPEN SCIENCE DISCOVERIES

Sylvain Costes, sylvain.v.costes@nasa.gov

NASA Ames Research Center, Mountain View, California, United States

In this interdisciplinary lecture, we will delve into the fascinating world of Space Biology and the realm of Open Science at NASA. Join us as we explore the profound insights gained from the groundbreaking twin study, which was published several years ago and continues to shape our understanding of spaceflight's impact on human health. We will highlight the study's key findings and contextualize them alongside more recent research endeavors, including the remarkable Inspiration 4 mission and several comprehensive meta-analysis publications enabled by the NASA GeneLab Omics database and the Ames Life Science Data Archive for physiological and phenotypic data.