

27 september 2024 | Tomtebodavägen 23, Solna

FORSKARFREDAG

Program

- 14:00 Welcome to SciLifeLab
- 14:05 Research presentations
 - Renuka Kudva
 - Karin Garefelt
 - Leire Alonso Galicia
- 15:00 Guided tours to the Genomics Platform, poster session, meet the scientists
- 16:30 End of visit

Research presentations

Hidden figures: The tiny sustainers of life

Renuka Kudva

Microorganisms outnumber human life. Yet, much of their lives and function remain unseen and waiting to be discovered. While there is a growing body of work on the human microbiome, there are few studies on microorganisms in the environment.

How does one study organisms that we don't even know the existence of and therefore cannot culture in the lab? Next Generation Sequencing technologies aid discovery and the exploration of these creatures that live all around us.

AI-assisted plankton monitoring with automated microscopy & environmental DNA

Karin Garefelt

Novel methods for studying plankton communities in the seas around Sweden: DNA metabarcoding and automated microscopy. I will also give some context about environmental monitoring of the seas, and talk briefly about doing field work on research ships.

A map to study disease

Leire Alonso Galicia

What is it really that makes us human, what defects in the DNA cause diseases like cancer and finally how it looks like to work one day in our lab using our favourite technology: Spatial transcriptomics.

