



TranslaTUM Lecture Series

March 23th, 4:00-5:00 PM

Johannes B. Ortner Forum (Auditorium right part)

Speaker

Prof. Dr. Nicole Strittmatter

Assistant Professor for Analytical Chemistry
Department of Biosciences, School of Natural Sciences
Technical University of Munich



Understanding drug delivery using in situ mass spectrometry

Abstract

In situ mass spectrometry describes methods that allow the analysis of chemical compounds in their native, complex environment. Spatial metabolomics using mass spectrometry imaging allows the untargeted, label-free mapping of hundreds of compounds simultaneously on highly heterogeneous tissues. In this seminar, I will talk about the application of spatial metabolomics and imaging mass cytometry (IMC) to study drug delivery in the preclinical context.

Biography

Prof. Nicole Strittmatter is a mass spectrometrists with special interest in metabolomics and in situ methods, especially spatial metabolomics using imaging mass spectrometry. Since October 2021, she is an Assistant Professor for Analytical Chemistry at the Technical University of Munich. She studied chemistry at the Justus-Liebig University in Gießen before starting her PhD in Analytical Chemistry at Imperial College London. From 2015-2021, she was working as Imaging Mass Spectrometry Scientist at AstraZeneca, UK, specialising in drug delivery projects.

Hosts

Daniel Rückert

Artificial Intelligence in Healthcare and Medicine
Technical University of Munich

Miguel A. Pleitez

Chair of Biological Imaging (CBI)
School of Medicine, Technical University of Munich

The Format: Our monthly interdisciplinary **TTUM Lecture Series** talks will take place in the large Auditorium. Please watch out for monthly announcements of the exact date and time.