

CURSO: DOSY AND STD, THEORY AND APPLICATIONS
ESSE CURSO SERÁ MINISTRADO EM INGLÊS!!!!

PROFESSOR: Clemens Anklin (Bruker)

LIMITE DE VAGAS: None

PRE-REQUISITES: None

OBJECTIVES: The objective of the course is to provide the participant with basic knowledge of the theory of Diffusion and Diffusion ordered NMR experiments. The course will also introduce the student to practical aspects of setup, execution and processing of diffusion experiments.

The STD section will present the theory and practical aspects of STD and other NMR experiments used for the study of target ligand interactions.

The goal of the courses is that the participant will understand the basics of the experiments and will be able to setup and successfully perform their own experiments.

Participants are encouraged to bring their personal computers with Topspin 3.5 installed.

Example data sets for both topics will be provided on the day of the courses.

PROGRAM

DOSY and Diffusion experiments (Day 1)

Theory of DOSY and diffusion experiments

Practical Introduction to DOSY and diffusion experiments

Calibration of the NMR instrument for diffusion experiments

Setup of DOSY and diffusion experiments

Processing and analysis of DOSY and diffusion experiments.

STD and other experiments for target/ligand interaction (Day 2)

Types of available NMR experiments (STD, Waterlogsy, T2, T1rho, chemical shift disturbance)

Theory of STD and related experiments

Sample preparation aspects

Setup of NMR experiments

Data processing