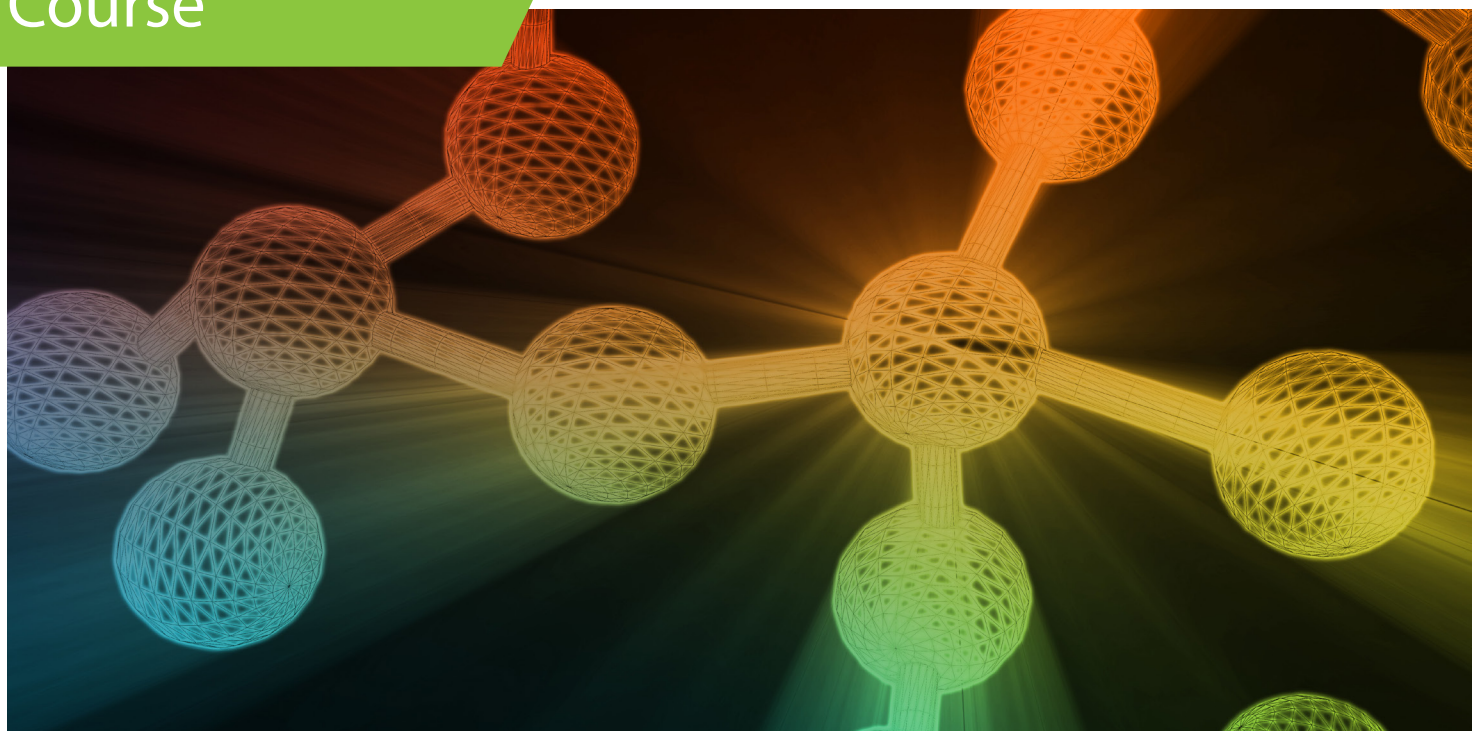
Course



Chemical Proteomics 2018

The course will cover introduction chemical proteomics and a view of the major chemical proteomics strategies currently available, from the traditional ones to the modern and unbiased proteomics strategies capable of identifying a drug targets and mechanisms of action. The course will show how the recently developed methods in this area can lead to relevant and key information for drug discovery and development. The course will be given by the Chemical Proteomics Facility at Karolinska Institutet site, part of the national facility of Chemical proteomics and Proteogenomics and Stockholm node of the national BioMS platform.

National course, open for current and potential facility users such as PhD students, postdocs, group leaders and core facility staff in need of proteome-wide proteomics skills with aims in drug discovery and proteomics. The course will be held in Stockholm / Solna, in English.

Topics covered will include:

- Introduction on quantitative mass-spectrometry-based proteomics
- Introduction on chemical proteomics and exploration of different methods, from traditional methods using molecular baits to recent unbiased methods
- Identification of compound/drug targets by thermal protein profiling (TPP) using cells and cell/tissue extracts
- Functional identification of targets and mechanism of action by expression proteomics (FITExP)
- Elucidation of the drug-protein interaction interface by Hydrogen/Deuterium (H/D) exchange mass spectrometry (HDX MS)

Date: October 24-26, 2018

Application deadline: September 15

Info & application: www.scilifelab.se

SciLifeLab

Karolinska Institutet

KTH Vetenskap och Konst

Stockholms universitet

Uppsala Universitet