

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Biotechnology - NOC:Mass spectrometry based proteomics

Subject Co-ordinator - Prof. Sanjeeva Srivastava

Co-ordinating Institute - IIT - Bombay

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 0 - Introductory lecture
Lecture 1 - Introduction to proteomics
Lecture 2 - Proteomics and sample preparation
Lecture 3 - Bacterial protein extraction
Lecture 4 - In-gel digestion
Lecture 5 - Fundamentals of mass spectrometry
Lecture 6 - Chromatography technologies
Lecture 7 - Liquid chromatography
Lecture 8 - Mass spectrometry
Lecture 9 - Mass spectrometry
Lecture 10 - MALDI sample preparation and analysis
Lecture 11 - Introduction to quantitative proteomics
Lecture 12 - Hybrid mass spectrometry configurations
Lecture 13 - SILAC
Lecture 14 - iTRAQ
Lecture 15 - TMT
Lecture 16 - Quantitative proteomics data analysis
Lecture 17 - Proteomics and Systems biology I
Lecture 18 - Proteomics & Systems biology II
Lecture 19 - Proteomics applications
Lecture 20 - Advances and challenges in proteomics