

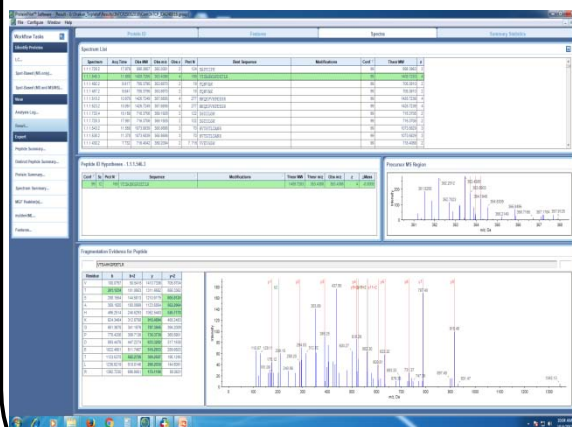
Targeted Proteomics

About the course

Multiple reaction monitoring (MRM) based targeted quantification is becoming quite popular in the proteomics community, as this approach is able to replace expensive antibody-based quantification like Western blotting and ELISA. MRM performed on QTOFs and Orbitraps are called parallel reaction monitoring (PRM). In PRM, post mass spectral acquisition, extracted ion chromatograms (XIC) for selected ions are used for quantitation. The high scan speed facilitates development of sequential window acquisition of all theoretical mass spectra (SWATH). In this approach, peptides are quantitated by targeted data extraction of SWATH-MS data.

This course deals with

- 1) Sample preparation.
- 2) Development of mass spectral library by information dependent acquisition for SWATH based quantification.
- 3) MRM/PRM/ SWATH acquisition.
- 4) Analysis of data.



Eligibility

Masters degree (completed/pursuing) or higher in any Science subject or equivalent.

Course Fees:

Student: Rs.5,000 /-

Faculty: Rs. 10,000/-

Industry candidate: Rs. 15,000/-

(Fee includes breakfast and lunch)

Accommodation Charges

(For course duration plus two days)

Student: Rs.500/-

Faculty / Professionals: Rs.1000/-

For application procedure please visit
(<http://www.ncl-india.org/files/SDP/Default.aspx>)

Coordinator

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CSIR – Integrated Skill Initiative



Council of Scientific and Industrial Research
National Chemical Laboratory



Skill development course

Advanced training in mass spectrometry-based quantitative proteomics

Duration: One week

No. of participants per batch - 10

Selection: First come first serve basis

