



Skill development program workshop on Targeted proteomics Course Code: SDP_NCL22_2022 March 10-12, 2022

About the course

CSIR-National Chemical Laboratory, Pune has a state of art Mass Spectrometry facility comprising of high end mass spectrometers such as LC-HRMS (Thermo Q-Exactive hybrid Quadrupole Orbitrap MS), Triple TOF MS (SCIEX 5600) and MALDI TOF/TOF-MS (SCIEX 5800). These mass spectrometers cater to various applications. Triple-quadrupole mass spectrometers are used for quantitation because of their high sensitivity and scan speed. These instruments facilitated development of quantitative approaches such as multiple reaction monitoring (MRM), which recently have made a mark in the area of proteomics for biomarker validation. 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. Targeted quantification done on high resolution mass spectrometers such as QTOF and Orbitraps, are called high resolution MRM (HR-MRM) or parallel reaction monitoring (PRM).



TRIPLE TOF MS (AB SCIEX 5600 System)

Applications: HR-MRM, SWATH



LC-HRMS (Thermo Q Exactive Hybrid Quadrupole Orbitrap Mass Spectrometer)

Application: PRM

- **Eligibility:** Bachelors completed /Masters or higher degree (completed/pursuing) in any Science subject or equivalent.
- **Course Fees:** Student: Rs. 500/- Faculty: Rs. 1,000/- Industry candidate: Rs. 2,000/- (Payment should be made by DD/Online transfer)
- **How to apply:** : For application form and more visit: <https://nclsdp.ncl.res.in/>

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