

BIOLOGICAL MASS SPECTROMETRY (BMS) FACILITY, NUI GALWAY

Operation	€sample
Sample preparation: tryptic digestion*	
1D gel lanes are sliced and in-gel tryptic digestion is manually performed; peptides are extracted Manual and purified (Zip-Tips)	15
<i>2D gel spot</i>	
2D gel spots are subjected to manual in-gel tryptic digestion; peptides are extracted and purified (zip-tips).	15
Tryptic digestion is carried out on a protein extract, without any prior protein separation. In-solution	45
Suited to subsequent multi-dimensional chromatographic separation (Shotgun/MudPIT)	
* A 25% discount of will be calculated for self-performed extraction and resuspension steps during digestion (i.e., 50% discount for both)	
Sample preparation: Non- tryptic digestion	
Digestion of proteins with other proteolytic enzyme can be useful in particular cases. Please inquire.	Inquire
Mass spectrometric analysis	
Good mass accuracy and <i>Q-TOF of intact proteins</i>	15

sensitivity; For intact proteins and protein complexes. Able to measure up to 1.2 Megadaltons with the Covalx HM2 detector.	
High throughput, good sensitivity; Q-TOF suited for 2D spots and lower complexity protein mixtures.	15
Special workflows only; access 6510 Q-TOF arrangements necessary on these	Inquire
instruments. 6460 Triple Quadrupole	Inquire
MRM analysis of known compounds	
Using pre-established assay 6460Triple Quadrupole	5.50
Mass spectrometer hire (only available for QQQ and Q-ToF; only after verified training of staff	
1 full day (10am to 10am)	230
Half-day	120
Data analysis	
QQQ, QToF and HTC ETD IonTrap	
Algorithms available	
Raw data files are analysed with Mascot or Peaks	Inquire
Training (by arrangement only)	
Sample Prep	400
Mass Spec (3 days)	400