

# LC-MS

## Triple Quadrupole / Ion Trap

### Description

AB SCIEX QTRAP 5500 ([More details](#))

### Location

Rm510A, Biotech Centre 1

### Features

#### LC system

Agilent 1260 Infinity ([More details](#))

- Binary pump with max. pressure of 600 bar
- Thermostatted column compartment and degasser

PAL HTC ([More details](#))

- Autosampler handles up to 324 samples in vial or up to 576 samples in 96-well plate

#### Ionization Modes ([More details](#))

- TurbolonSpray (ESI) and Atmospheric-pressure chemical ionization (APCI)

#### Scan Types

- Q1 MS, Q3 MS, Product ion, Precursor ion, Neutral loss, MRM, EMS, EPI, ER, MS<sup>3</sup>

#### Scheduled MRM algorithm

- Allows the acquisition of hundreds of compounds
- Provides enough data points across the chromatographic peak to give a better peak detection and an improved reproducibility

#### Information Dependent Acquisition (IDA)

- Automatically runs experiments based on results obtained from previous experiments
- For example, MS survey scan to trigger EPI with library searching

### Applications

- Pharma (Discovery, Development, Production)
  - DMPK, microdosing, bioavailability, metabolite ID;
- Protein Sciences
  - Proteomics, peptide quantitation/ID;
- Forensics;
- Food Testing
  - Pesticides, mycotoxins, vitamins;
- Environmental
  - Perchlorate, PPCPs;
- Clinical research

### Contact

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