

SCHOOL OF CHEMISTRY PLANT CHEMISTRY GROUP

Analytical Capabilities

The analytical capabilities at Bangor University allow full chemical-physical characterisation and biological screening of a wide range of complex matrices. The research activities currently ongoing are focused on the determination of the elemental composition and secondary metabolites such as volatiles and phenolics. In addition macromolecules such as polysaccharides and proteins are also addressed by using traditional and innovative methods and the exceptional instrument capabilities available in-house.

Commercial Opportunities

A variety of technologies, core expertise and newly acquired instruments are available to develop commercial opportunities.

These include:

- Flash Chromatography, HPLC, LC-SPE, GC-MS, LC-MS for compound separation and identification
- Ion Exchange Chromatography for anion and cation composition
- MALDI-TOF for biological screening (large molecular weight and proteins)
- ^1H -NMR, ^{13}C -NMR and ^{31}P NMR for chemical structure elucidation.
- ICP-OES and GFAAS for elemental analysis
- XRD for mineral composition

Contact us

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