

Chemistry Departmental Colloquium

Collaboration Across the Pond and Across Divisions: A Story of Stereospecific Analysis

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Many plant protection products have chiral centers, which add significant challenges to analytical method development. New European Food Safety Authority (EFSA) guidelines have brought increased attention to stereospecific analysis, in particular chiral active ingredients / metabolites. To be fit for purpose, stereospecific methods must be trace-level, robust performing in a range of challenging matrices, and high throughput (a typical residue study is several thousand samples). This presentation will showcase a powerful partnership to solve this problem by leveraging the collective knowledge across our organization on leading edge technologies to deliver business critical technologies to support the registration of new crop protection products. Highlights will be outcomes from a cross-regional (US and EU) and cross divisional (Crop Science and Pharmaceutical divisions) assignment within Bayer. This program designed to facilitate professional development and scientific collaborations, was leveraged to conduct a proof-of-concept experiment to quickly evaluate the potential of an analytical workflow that brings together the stereospecific separation power of supercritical fluid chromatography (SFC)-MS/MS and digital tools for automated method optimization.



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4:30 pm



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