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Title: Structure elucidation of isomeric natural products and food processing products using tandem mass spectrometry

Abstract: Mass spectrometry has evolved as a powerful tool in structure elucidation of small organic molecules. Characteristic fragment spectra allow in many cases even unambiguous assignment of regio- and stereochemistry. The talk will introduce several classes of natural products (chlorogenic acids from coffee, caffeoyl glucoses from berries, flavonoids from tea or quinic acid diastereomers from thermal food processing) and food processing products where reliable assignment of isomeric structures has been possible. Additionally the talk will provide mechanistic insight into fragmentation mechanisms leading to an ability to distinguish isomeric structures.