Pre-conference workshop: Mass Spectrometry in dairy milk analysis

Organized by: Department of Chemistry, University of Reading, Reading, UK

Cooperating institutions: BRITISH MASTITIS CONFERENCE, Royal society.

Resume:
Early diagnosis of mastitis in livestock and rapid detection of the pathogens responsible for this disease could lead to a more positive outcome for the animal welfare and will be the first important step towards the fight to antibiotic resistance.

Mass spectrometry is capable of rapidly and accurately targeting milk metabolites, lipids, proteins and bacterial consortia and provides the basis for several analytical applications to the dairy industry. It is currently used for the detection of antibiotics, mycotoxins and other chemical compounds of relevant importance for product safety. However, it's also applicability to the field of livestock production could be further optimized in the direction of the high throughput application to assess animal welfare.

The final aim of this meeting is to build a network between experts from the UK in bovine mastitis and the experts in the field of mass spectrometry applied to milk analysis. This successful interaction could be beneficial for the application and development of new methodologies for safety, quality assessment and to tackle antimicrobial resistance.

This workshop is aligned with the aims of One Health initiative in terms of animal and human welfare improvement.

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