

Scientific Seminar

Strategies for Glycoform and Monosaccharide Analysis

Joachim Weiss, Technical Director, Thermo Fisher Scientific, Dreieich, Germany

Jonathan Bones, National Institute for Bioprocessing Research and Training (NIBRT), Blackrock, Ireland

12:45 – 13:45 on Tuesday 30th August

Glycosylation is one of the most common protein post translational modifications and has a huge effect on protein structure, folding and function. This is especially important in biopharmaceuticals where changes in glycosylation patterns, sequence or attachment sites can lead to dramatic changes in efficacy and safety of that biopharmaceutical.

In the seminar, we will present a comprehensive overview of the current state-of-play with respect to glycan analysis, covering the tools that are available today, existing challenges and how these are being overcome. Dr. Joachim Weiss of Thermo Fisher Scientific will outline the latest developments and strategies for the analysis of monosaccharides, released glycans and glycopeptides with techniques such as HPAE-PAD, UHPLC and LC-MS. In the second part of the seminar, Dr. Jonathan Bones from NIBRT will describe in more detail how these technologies are being utilised to characterise glycoforms in real-life examples and also outline the challenges that still exist in the analysis of glycans and how next-generation technologies are beginning to overcome these obstacles.