



FRIDAY 2 FEBRUARY 2018

Glycoscience Symposium - Welcome

8:55pm - 9:00am Chair: Morten Thaysen-Andersen

Horizons Room

Waters

The Symposium acknowledges the sponsorship of **THE SCIENCE OF WHAT'S POSSIBLE.®**

Glycoscience Symposium - Session One: Glycomics and Glycoproteomics

9:00am - 10:30am Chair: Nicolle Packer

Horizons Room

We acknowledge our Invited speaker supporter:

Pauline Rudd supported by **APS**

9:00 AM

Pauline Rudd

Glycosylation pathways associated with disease and personalised approaches to therapies

9:25 AM

Erdmann Rapp

Advances in the glycoanalytical toolbox

9:45 AM

Benjamin L Parker

The role of protein glycosylation on the development of skeletal muscle

10:00 AM

Ben L Schulz

Thermal glycoproteome profiling: The role of site-specific glycosylation in glycoprotein stability

10:15 AM

Rebeca Sakuma

Uncovering N-linked protein glycosylation changes during prostate cancer progression

Session sponsored by



Glycoscience Symposium - Morning Tea

10:30am - 11:00am

Exhibition Hall

Waters

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Glycoscience Symposium - Session Two: Microbial and Plant Glycobiology

11:00am - 12:35pm Chair: Malcolm McConville

Horizons Room

We acknowledge our Invited speaker supporters:

- **Tony Bacic** supported by **Bioplatfroms Australia**
- **Vincent Bulone** supported by **CSL**
- **Benjamin Bailly** supported by **Institute for Glycomics**

11:00 AM

Tony Bacic

Plant glycoconjugate glycans are important in growth and development!

11:25 AM

Vincent Bulone

Cell wall carbohydrate structure and biosynthesis in pathogenic oomycetes

- 11:45 AM** **Benjamin Bailly**
Discovery and structure-based characterisation of new-generation influenza virus neuraminidase inhibitors
- 12:05 PM** **Cassandra L Pegg**
Cell-line specific glycosylation of respiratory syncytial virus fusion protein and implications for vaccine design
- 12:20 PM** **Zeynep Sumer-Bayraktar**
Campylobacter jejuni infection modifies the human intestinal epithelial cell *N*-glycome

Glycoscience Symposium - Lightning Talks

12:35pm - 1:00pm Horizons Room

Chair: Benjamin Schulz

Abdulrahman Shathili

Human CD52 initiates its immunosuppressive activity via specific sialoforms

Harry Tjondro

Glycosylation features of neutrophilic granules

K Y Benjamin Yeo

Dual function of Ost3 proteins elucidated using glyco- and global proteomics

Danila Elango

Characterising site-specific *N*-glycosylation facilitated by the oligosaccharyltransferase

Andreia Almeida

Carcinoembryonic antigen glycosylation – a highly underestimated cancer marker?

Christopher Ashwood

Taming the beast: Standardising porous graphitised carbon based LC-MS glycomics

Glycoscience Symposium - Lunch/Poster Session

1:00pm - 2:30 pm Please refer to the poster listing on page 4.

Exhibition Hall

Proteomics 2018 & Glycoscience Symposium posters will be displayed together.

Waters

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Glycoscience Symposium - Session Three: Analytical Glycoscience and Glycochemistry

2:30pm - 4:25pm Chair: Daniel Kolarich

Horizons Room

We acknowledge our invited Speaker supporters:

- **Richard Payne** supported by **CSL**
- **Emily Parker** supported by **ANZGG**

- 2:30 PM** **Richard Payne**
Modifications matter: Probing the effects of glycosylation on peptide and protein activity
- 2:55 PM** **Emily Parker**
Twisting tails and curious channels – the phosphoribosyltransferases
- 3:20 PM** **Matthias Pelzing**
Analytical strategies for glycan characterisation of biotherapeutics
- 3:40 PM** **Matthew Briggs**
MALDI mass spectrometry imaging of early- and late-stage serous ovarian cancer tissue reveals stage-specific *N*-glycans

Proteomics 2018 & Glycoscience Symposium posters will be displayed together in the Exhibition Hall.

Abdulrahman Shathili

Human CD52 initiates its immunosuppressive activity via specific sialoforms abs# 106

Harry Tjondro

Glycosylation features of neutrophilic granules abs# 107

K Y Benjamin Yeo

Dual function of Ost3 proteins elucidated using glyco- and global proteomics abs# 108

Danila Elango

Characterising site-specific *N*-glycosylation facilitated by the oligosaccharyltransferase abs# 109

Andreia Almeida

Carcinoembryonic antigen glycosylation – a highly underestimated cancer marker? abs# 110

Christopher Ashwood

Taming the beast: Standardising porous graphitised carbon based LC-MS glycomics abs# 111

Daniel Kolarich

Selenomonas sputigena flagellin glycoproteomics reveals previously not described O-glycans and rhamnose fragment rearrangement occurring on the glycopeptides abs# 112

Joel Cain

Determining the role of *Campylobacter jejuni* *N*-glycosylation in protein stability by *N*-terminomics abs# 113

Liisa Kautto

Automating the release of *N*- and *O*- glycans from glycoproteins abs# 114

Sameera Iqbal

Inflammation induces Polysialic Acid in the Brain abs# 115

Morten Thaysen-Andersen

Enrichment of lowly-hydrophilic truncated *N*-glycopeptides using IP-HILIC-SPE abs# 116

Edward S.X. Moh

Probing synaptic *N*-glycome fluctuations in circadian rhythm abs# 117

Masahiro Sano

Enhancement of effects of salmon nasal cartilage proteoglycan on biological function by its modification abs# 118

Nima Sayyadi

Site specific conjugation of europium chelate to the glycans of monoclonal antibodies: Application for highly sensitive time-gated luminescence detection of prostate cancer cells abs# 119

Sayantani Chatterjee

Mapping protein paucimannosylation across human cancers abs# 120