Organizing committee:
Henrik Clausen, Hans H. Wandall, Steffen Thiel, James Paulson, Nico Callewaert, Hans Bräuner-Osborne and Finn Cilius Nielsen
# Schedule

**MONDAY, AUGUST 27, 2018**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>09:00-09:05</td>
<td>Welcome</td>
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<tr>
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<td><strong>Opening Keynote Lecture</strong></td>
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<td>Chair: Henrik Clausen</td>
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<tr>
<td>09:05-10:00</td>
<td>Ajit Varki: CD33-related siglecs in innate immunity, aging, lifespan, grandmothering and late life cognitive decline</td>
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<td>10:00-10:10</td>
<td>Discussion</td>
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<td>10:10-10:40</td>
<td>Session I GlcNAcylation &amp; diseases</td>
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<td>Chair: Robert Haltiwanger</td>
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<tr>
<td>10:40-10:50</td>
<td>Discussion</td>
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<td>10:50-11:10</td>
<td>Coffee Break</td>
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<tr>
<td>11:10-11:40</td>
<td>John A. Hanover: Sweet disorder: O-GlcNAc in disease</td>
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<td>11:40-11:50</td>
<td>Discussion</td>
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<tr>
<td>11:50-12:20</td>
<td>Daan van Aalten: Molecular and biological mechanisms of XLID mutations in O-GlcNAc transferase</td>
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<td>12:20-12:30</td>
<td>Discussion</td>
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<tr>
<td>12:30-13:30</td>
<td>LUNCH</td>
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<tr>
<td>13:30-14:00</td>
<td>Session II Congenital diseases of glycosylation &amp; therapeutic options</td>
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<td>Chair: Hudson H. Freeze</td>
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<td>14:10-14:40</td>
<td>Tadashi Suzuki: Toward curing NGLY1-deficiency</td>
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<td>14:40-14:50</td>
<td>Discussion</td>
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<td>14:50-15:00</td>
<td>Francois Foulquier: TMEM165: a new key player in Golgi glycosylation and cellular Mn2+ homeostasis (Poster number I-1)</td>
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<td>15:00-15:05</td>
<td>Discussion</td>
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<td>15:05-15:15</td>
<td>Ramon Hurtado-Guerrero: The interdomain flexible linker of the polypeptide GalNAc-transferases dictates their long-range glycosylation preferences (Poster number I-2)</td>
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<td>15:15-15:20</td>
<td>Discussion</td>
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<td>15:20-15:50</td>
<td>Coffee Break</td>
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<td>15:50-16:00</td>
<td>Hideyuki Takeuchi: O-Glycosylation modulates the stability of epidermal growth factor-like repeats and thereby regulates Notch trafficking (Poster I-3)</td>
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<td>16:00-16:05</td>
<td>Discussion</td>
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<td>16:05-16:35</td>
<td>Hudson Freeze: Patients drive re-examination of basic glycscience</td>
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<td>16:35-16:45</td>
<td>Discussion</td>
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<td>16:45-18:15</td>
<td>Poster session I</td>
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<td>19:30-21:30</td>
<td>Reception at Café Mazzolis in Tivoli (old amusement park)</td>
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<td>(walking time from hotel to Tivoli is about 15 min.)</td>
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TUESDAY, AUGUST 28 2018

Session III  Immunology & therapeutic options I
Chair: Jamey D. Marth

09:00-09:30 James C. Paulson: Exploiting inhibitory Siglecs to modulate immune responses
09:30-09:40 Discussion

09:40-10:10 Robert Sackstein: GPS: Navigating cell therapeutics via glycoengineering
10:10-10:20 Discussion

10:20-10:50 Coffee Break

10:50-11:20 Avery Posey: Strategies to drive CAR-T cells into solid tumors
11:20-11:30 Discussion

11:30-11:40 Fredrik Zetterberg: The first class of orally available mono-saccharide galectin-3 inhibitors for treatment of fibrosis (NASH) and cancer (Poster number II-1)
11:40-11:45 Discussion

11:45-12:45 LUNCH

Session IV  Immunology & therapeutic options II
Chair: Gunnar Hansson

12:45-13:15 Max Crispin: Exploiting glycosylation in vaccine design and therapeutics
13:15-13:25 Discussion

13:25-13:35 Christian Büll: Reprogramming sialic acid-Siglec interactions to control the immune response (Poster number II-2)
13:35-13:40 Discussion

13:40-13:50 Morten Thaysen-Andersen: Paucimannosylation: Overlooked human glycoepitopes in inflammation, infection and cancer (Poster number II-3)
13:50-13:55 Discussion

13:55-14:30 Coffee Break

14:30-14:40 Thomas Mandel Clausen: Targeting of CS for cancer therapy and diagnosis (Poster number II-4)
14:40-14:45 Discussion

14:45-14:55 Caroline Kjaerulff Mathiesen: Genetically engineered cell factories produce glycoengineered vaccines that target antigen presenting cells and reduce antigen specific T-cell reactivity (Poster number II-5)
14:55-15:00 Discussion

15:00-15:30 Dennis Burton: Progress toward a neutralizing antibody-based HIV vaccine
15:30-15:40 Discussion

15:40-17:10 Poster Session II
WEDNESDAY, AUGUST 29, 2018

Session V  Glycome & Microbiome  Richard D. Cummings
09:00-09:30  Gunnar C. Hansson: Therapeutic opportunities addressing diseases involving mucus and mucins in the lung and intestine
09:30-09:40  Discussion
09:40-10:10  Kelley Moremen: Structural basis for mammalian glycoenzyme substrate specificity
10:10-10:20  Discussion

10:20-10:50  Coffee Break

10:50-11:20  Jamey Marth: Protein glycosylation in the origins and treatments of inflammatory diseases
11:20-11:30  Discussion
11:30-11:40  Chengcheng Huang: Studies on the serum sialyl oligosaccharides (Poster III-1)
11:40-11:45  Discussion
11:45-11:55  Rebecca Miller: Ion mobility mass spectrometry of heparan sulfate (Poster III-2)
11:55-12:00  Discussion
12:00-13:00  LUNCH

Session VI  Engineering glycosylation in cells  Hans H. Wandall
13:00-13:30  Nico Callewaert: Glycosylation customizaton of eukaryotic biopharmaceutical expression hosts: making better biopharmacauticals more cost-effectively
13:30-13:40  Discussion
13:40-14:10  Thomas Braulke: Mannose 6-phosphate-dependent alterations in tissue homeostasis in vivo
14:10-14:20  Discussion
14:20-14:50  Coffee Break
14:50-15:00  Francis Jacob: Glycosphingolipids are vital for reversible epithelial-to-mesenchymal transition in intermediate ovarian cancer cells (Poster III-3)
15:00-15:05  Discussion
15:05-15:15  Manuela Mally: A novel glycoengineering platform for better therapeutics (Poster III-4)
15:15-15:20  Discussion
15:20-15:50  Herta Steinkellner: In planta complex N-and O-glycan engineering
15:50-16:00  Discussion
16:00-17:30  Poster Session III
19:30-23:00  Banquet at The University of Copenhagen
(walk 19:20; time from hotel to University is about 3 min.)
THURSDAY, AUGUST 30, 2018

Session VII  Glyco-therapeutics
Chair  Nico Callewaert

09:00-09:30  Göran Larson: Glycopatterning of human FactorVIII used in replacement therapy; consideration of immunogenicity
Discussion

09:40-10:10  Mark von Itzstein: Structure-guided inhibitor discovery in targeting clinically-important viruses
Discussion

10:20-10:50  Coffee Break

10:50-11:20  Jeffrey Esko: Whole genome analysis of heparan sulfate assembly
Discussion

11:30-11:40  Benjamin Bailly: Discovery of heparan sulfate mimetic fragments as inhibitors of enterovirus 71 infection (Poster number III-5)
Discussion

11:40-11:55  Jeremy Turnbull: Next generation heparins: Targeting proteoglycan functions for therapeutic benefit (Poster number III-6)
Discussion

12:00-13:00  LUNCH

Session VIII  Platform technologies for advancing glyco-drugs
Chair  Steffen Thiel

13:00-13:30  Richard D. Cummings: Anti-inflammatory drugs targeting selectins
Discussion

13:40-14:10  Rita Gerardy-Schahn: Oncolytic adenoviruses dressed to selectively infect polysialic acid positive tumors
Discussion

14:20-14:30  Weihua Tian: The glycosylation design space for recombinant lysosomal replacement enzymes in CHO cells (Poster number III-7)
Discussion

14:35-14:45  Yoshiki Narimatsu: A validated gRNA library for CRISPR/Cas9 targeting of the human glycosyltransferase genome (Poster number III-8)
Discussion

14:50-15:20  Coffee Break

Final Keynote Lecture
Chair: Robert Sackstein

15:20-16:10  Linda Hsieh-Wilson: Glycans as novel targets for neurological disorders
Discussion
16:20-16:30  Concluding Remarks
RECEPTION
MONDAY, AUGUST 27, 2018
(19:30-21:30)

PARTICIPANTS, INVITED SPEAKERS
AND ACCOMPANYING PERSONS

The reception will be held at Café Mazzolis located in Tivoli, the old amusement park.

Situated in Tivoli Gardens in the city center, the building in which Café Mazzolis is located has – at times – been Tivoli's ball room, the hippodrome and confectioner's tea room – since it was built in 1883.

The elegant architecture of the facade has been preserved while inside the restaurant is characterized by modern Scandinavian design as a counterpoint to the period exterior. In the same vein, the modern, Italian inspired cuisine can be enjoyed against the traditional background of a wonderful view of the Tivoli Lake and Promenade.

Dress code: Smart casual.

No transportation will be provided for this event.
A group will assemble in the lobby and walk from the hotel to Café Mazzolis at 19:15
The banquet will take place at The University of Copenhagen Ceremonial Hall located at Vor Frue Plads, 1017 Copenhagen K.

The University is situated right across from the cathedral of Copenhagen, Vor Frue (Church of our Lady). The University was established more than 500 years ago, in 1479, but the present buildings are from the 19th century. With its more than 530 years, the University of Copenhagen is one of the oldest universities in Northern Europe. Being the largest institution of education and research in Denmark, the University has gone through numerous changes through the ages.

We are proud to hold the banquet in one of the city's most beautiful rooms, the University of Copenhagen Ceremonial Hall. The building was opened in 1836, but not until 60 years later was the decoration of the rooms finished. The Ceremonial Hall is decorated with paintings showing the University's history, an example is Wilhelm Marstrand’s painting from 1871 showing the University's inauguration in 1479.

Dress code: Smart (Jacket, tie not required).

No transportation will be provided for this event. A group will assemble in the lobby and walk from the hotel to the University at 19:20.

Website: www.benzon-foundation.dk