

## Big Data in Biotechnology and Biomedicine

Thursday, May 31, 2018

9.00 – 9.30	<b>Registration, coffee and tea</b>
9.30 – 9.45	<b>Welcome</b> by Lars Haastrup Pedersen, DBS, DK/ Ole Nørregaard Jensen, SDU
9.45 – 10.45	<b>Session 1</b> Big Data – Developments in Biotechnology and Biomedicine <b>chair:</b> Ole Nørregaard Jensen, SDU
9.45 – 10.15	<i>Rethinking healthcare by use of data, cloud solutions and cognitive technologies</i> Henrik Rindel Gudbergsen IBM Nordic, DK
10.15 – 10.45	<i>Regulatory challenges of big data: The HMA/EMA Task Force on Big Data</i> Thomas Senderovitz, Danish Medicine Agency, DK
10.45 – 12.30	<b>Posters and exhibition, meet the speakers, and lunch</b>
12.30 – 13.45	<b>Session 2</b> Precision medicine <b>Chair:</b> Eric Paul Bennett, KU
12.30 – 13.15	Matthew Might, Hugh Kaul Personalized Medicine Institute, University of Alabama at Birmingham, USA
13.15 – 13.45	<i>Pathogenic mutations and their implications for diagnosis and prognosis</i> Daníel F. Guðbjartsson, DeCode Genetics, IS
13.45 – 14.45	<b>Posters and exhibition, meet the speakers, hotel check in</b>
14.45 – 15.45	<b>Session 3</b> Systems Biology in Medicine <b>Chair:</b> Jens Nielsen, Chalmers
14.45 – 15.15	<i>The Human Protein Atlas - implications for human biology, drug development and systems medicine</i> Matthias Uhlen, KTH, S
15.15 – 15.45	José-Maria Gonzalez- Izalzogazza, DTU, DK
15.45 – 16.45	<b>Posters and exhibition, meet the speakers</b>
16.45 – 17.45	<b>Session 4</b> Systems Biology in Process Biotechnology <b>Chair:</b> Jochen Förster, Carlsberg A/S
16.45 – 17.15	<i>Systems Biology of Yeast Metabolism</i> Jens Nielsen, Chalmers, S
17.15 – 17.45	<i>Designing and evolving cell factories for chemical production</i> Markus Herrgard, NNF Centre for Biosustainability, DK
17.45 – 18.00	<b>Coffee Break</b>
18.00 – 19.00	<b>Legal aspects and round table discussion</b> <b>Chair and moderator :</b> Kåre Lehman Nielsen, AAU, DK
18.00 – 18.20	<i>Governing prospects, navigating minefields and protecting interests - Legal issues in big data driven biotech and biomedical innovation</i> Jakob Wested, Centre for Advanced Studies in Biomedical Innovation Law, KU, DK
18.20 – 19.00	<b>Round table discussion</b> best practice, handling, storage, safety, ethics Representatives from <b>KTH:</b> Matthias Uhlén, <b>QIAGEN:</b> Bjarni Vilhjalmsón, <b>Elixir and The Computerome Center, DTU:</b> Peter Løngreen, <b>The Danish Council on Ethics:</b> Anne-Marie Gerdes <b>UAB:</b> Matt Might, <b>KU Legislation:</b> Jakob Wested, <b>IBM:</b> Henrik Rindel Gudbergsen
19.00 – 19.30	<b>Posters and exhibition, meet the speakers</b>
20.00 –	<b>Conference dinner</b>

Friday, June 1, 2018

<b>8.30 - 9.30</b>	<b>Session 5</b> Precision medicine and nutrition <b>Chair:</b> Leonor Rib, KU
8.30 - 9.00	Armand Valsesia, Nestlé, CH
9.00 - 9.30	<i>Genomics Medicine in Psychiatry: Leveraging the Danish Genealogy, Nationwide biobanks and Population-based eHealth records.</i> Thomas Werge, KU, DK
<b>9.30 - 10.30</b>	<b>Posters and exhibition, meet the speakers, hotel check out</b>
<b>10.30 - 11.30</b>	<b>Session 6</b> Single cell analyses <b>Chair:</b> Anders Vagnø Pedersen, BioPharma Consult
10.30 - 11.00	<i>Identification of personalised regulatory networks using eQTLs and scRNA-seq data</i> Lude H Franke, Uni Groningen, NL
11.00 - 11.30	<i>Computational methods for analysis of large collections of scRNA-seq data</i> Martin Hemberg, Sanger Institute, UK
<b>11.30 - 13.00</b>	<b>Lunch, posters and exhibition, meet the speakers</b>
<b>13.00 - 13.30</b>	<b>Session 7</b> <b>Poster presentations / exhibitor presentation</b> <b>Chair:</b> Anders Vagnø Pedersen, BioPharma Consult
13.00 - 13.10	<b>P1</b>
13.10 - 13.20	<b>P2</b>
13.20 - 13.30	<b>Exhibitor presentation</b>
<b>13.30 - 14.15</b>	<b>Posters and exhibition, meet the speakers</b>
<b>14.15 - 15.15</b>	<b>Session 8</b> Genome Networks and Statistical Genetics <b>Chair:</b> Markus Herrgard, DTU
14.15 - 14.45	<i>Inferring direct biochemical relationships by statistical parametric mapping of cell-type-specific RNA sequencing data</i> Sandrine Muller, Massachusetts General Hospital and Broad Institute of MIT and Harvard, USA
14.45 - 15.15	<i>Linear mixed models to study multivariate gene-environment interactions</i> Francesco Paolo Casale, Microsoft Research New England, USA
15.15 - 15.45	<b>Posters and meet the speakers</b>
<b>15.45 - 16.45</b>	<b>Session 9</b> Microbiomics <b>Chair:</b> Leif Schauser, QIAGEN
<b>15.45 - 16.15</b>	<i>Towards a complete tree of life</i> Mads Albertsen, Aalborg University, DK
<b>16.15 - 16.45</b>	<i>Deep-diving in microbiome data and what to do when n is way to small</i> Henrik Bjørn Nielsen, Clinical Microbiomics, DK
<b>16.45 - 17.00</b>	<b>Closing remarks</b> Lars Haastrup Pedersen, DBS, DK

