

Big Data in Biotechnology and Biomedicine

Thursday, May 31, 2018

9.00 – 9.30	Registration, coffee and tea
9.30 – 9.45	Welcome by Lars Haastrup Pedersen, DBS, DK/ Ole Nørregaard Jensen, SDU
9.45 – 10.45	Session 1 Big Data – Developments in Biotechnology and Biomedicine chair: 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	Posters and exhibition, meet the speakers, and lunch
12.30 – 13.45	Session 2 Precision medicine Chair: Eric Paul Bennett, KU
12.30 – 13.15	<i>The algorithm for precision medicine</i> 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	Posters and exhibition, meet the speakers, hotel check in
14.45 – 15.45	Session 3 Systems Biology in Medicine Chair: 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	<i>High throughput genomics for precision medicine in cancer and other complex diseases</i> José-Maria Gonzalez-Izarzugaza, DTU, DK
15.45 – 16.45	Posters and exhibition, meet the speakers
16.45 – 17.45	Session 4 Single cell analyses Chair: Anders Vagnø Pedersen, BioPharma Consult
16.45 – 17.15	<i>Identification of personalised regulatory networks using eQTLs and scRNA-seq data</i> Lude H Franke, Uni Groningen, NL
17.15 -17.45	<i>Computational methods for analysis of large collections of scRNA-seq data</i> Martin Hemberg, Sanger Institute, UK
17.45- 18.00	Coffee Break
18.00 – 19.00	Legal aspects and round table discussion Chair and moderator : 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	Round table discussion best practice, handling, storage, safety, ethics Representatives from KTH: Matthias Uhlén, QIAGEN: Bjarni Vilhjalmsón, Elixir and The Computerome Center, DTU: Peter Løngreen, The Danish Council on Ethics: Anne-Marie Gerdes, UAB: Matt Might, KU Legislation: Jakob Wested, IBM: Henrik Rindel Gudbergsen

19.00 - 19.30	Posters and exhibition, meet the speakers
20.00 -	Conference dinner

Friday, June 1, 2018

8.30 - 9.30	Session 5 Precision medicine and nutrition Chair: Leonor Rib, KU
8.30 - 9.00	<i>Precision medicine and patient stratification in weight loss clinical studies</i> 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
9.30 - 10.30	Posters and exhibition, meet the speakers, hotel check out
10.30 - 11.30	Session 6 Systems Biology in Process Biotechnology Chair: Jochen Förster, Carlsberg A/S
10.30 - 11.00	<i>Systems Biology of Yeast Metabolism</i> Jens Nielsen, Chalmers, S
11.00 - 11.30	<i>Designing and evolving cell factories for chemical production</i> Markus Herrgard, NNF Centre for Biosustainability, DK
11.30 - 13.00	Lunch, posters and exhibition, meet the speakers
13.00 - 13.30	Session 7 Poster presentations / exhibitor presentation Chair: Anders Vagnø Pedersen, BioPharma Consult
13.00 - 13.10	P1
13.10 - 13.20	P2
13.20 - 13.30	Exhibitor presentation
13.30 - 14.15	Posters and exhibition, meet the speakers
14.15 - 15.15	Session 8 Genome Networks and Statistical Genetics Chair: 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	Posters and meet the speakers
15.45 - 16.45	Session 9 Microbiomics Chair: Leif Schausser, QIAGEN
15.45 - 16.15	<i>Towards a complete tree of life</i> Mads Albertsen, Aalborg University, DK
16.15 - 16.45	<i>Deep-diving in microbiome data and what to do when n is way to small</i> Henrik Bjørn Nielsen, Clinical Microbiomics, DK
16.45 - 17.00	Closing remarks Lars Haastrup Pedersen, DBS, DK