

PROGRAMME

Day 1

Thursday	Session	Chair
9:30 – 10:00	<i>Registration</i>	
10:00 – 10:15	Welcome <ul style="list-style-type: none"> • <i>View on Danish Bioinformatics.</i> Søren Brunak, UCPH, DTU, RegionH; Anders Krogh, UCPH 	
10:15 – 10:45	<ul style="list-style-type: none"> • <i>On the Genomics of Rainforests.</i> Thomas Sicheritz-Pontén, DTU, DK 	
10:45 – 12:05	Non-coding RNA Bioinformatics <ul style="list-style-type: none"> • <i>New computational and single-cell transcriptomic approaches in microRNA biology.</i> Marc Friedländer, SU, S (keynote speaker) • <i>CRISPR specificity and off-target assesment with RNA-DNA duplex energy model.</i> Ferhat Alkan, UCPH, DK 	Stefan Seemann
10:45 – 11:30		
11:30 – 11:45		
11:45 – 12:00	CBioVikings <ul style="list-style-type: none"> • <i>CBioVikings - Bringing the next generation of Bioinformaticians together!</i> Georgi Dimitrov, President of CBioVikings, DK 	
12:00 – 12:30	<i>Lunch</i>	

PROGRAMME

Day 1 - continued

Thursday	Session	Chair
12:30 – 14:00	Systems Toxicology and Adverse Drug Reactions	
12:30 – 13:15	<ul style="list-style-type: none"> • <i>Applying Bioinformatics to Chemical Risk Assessment: Assays, Databases, Models.</i> Richard Judson, US EPA, US (keynote speaker) 	
13:15 – 13:45	<ul style="list-style-type: none"> • <i>From chemical-target to systems toxicology: An integrative computational approach to gain insight into disease etiology.</i> Olivier Taboureau, UCPH, DK 	Lasse Folkersen Alejandro Aguayo Orozco
13:45 – 14:00	<ul style="list-style-type: none"> • <i>Adverse drug events with antipsychotics - a sex difference?</i> Freja Hemmingsen Sørup, ZUH, UCPH, SDU, DK 	
14:00 – 14:15	<i>Break</i>	
14:15 – 15:45	Data integration	
14:15 – 15:00	<ul style="list-style-type: none"> • <i>Integration of Biological Data: The whole is greater than the sum of its parts.</i> Danielle Lemay, USDA, US (keynote speaker) 	
15:00 – 15:30	<ul style="list-style-type: none"> • <i>Prediction of genetic predisposition using prior biological information.</i> Peter Sørensen, AU 	Vivi Gregersen
15:30 – 15:45	<ul style="list-style-type: none"> • <i>Elucidation of time-dependent systems biology cell response patterns with time course network enrichment.</i> Jan Baumbach, SDU, DK 	
15:45 – 16:00	<i>Break</i>	

PROGRAMME

Day 1 - continued

Thursday	Session	Chair
16:00 - 17:00	POSTER SESSION	
17:00 – 18:30	Bioinformatics in precision medicine	Kenneth Kastaniegaard
17:00 – 17:45	<ul style="list-style-type: none"> • <i>Bioinformatics for Precision Oncology.</i> Rasmus Froberg Brøndum, AAU, DK (keynote speaker) 	
17:45 – 18:00	<ul style="list-style-type: none"> • <i>Approaches to Personalized Rheumatic Medicine using Mass Spectrometry.</i> Michael Kruse Meyer, RN/AAU, DK 	
18:00 – 18:15	<ul style="list-style-type: none"> • <i>Identification of underdiagnosed patients in the context of time-ordered comorbidities.</i> Isabella Friis Jørgensen, UCPH, DK 	
18:15 – 18:30	<ul style="list-style-type: none"> • <i>Conflicting associations of dietary patterns with changes of anthropometric traits in different subgroups of middle-aged women and men.</i> Jose Alejandro Romero Herrera, UCPH, DK 	
19:30	<p><i>Dinner at Restaurant Nordatlanten,</i> Nordatlantisk Promenade 1, 5000 Odense C</p> <p>A bus will leave SDU at around 18:45 and drive directly to the restaurant.</p>	

PROGRAMME

Day 2

Friday	Session	Chair
9:00 – 10:30	Machine and deep learning, and probabilistic programming	
09:00 – 09:45	<ul style="list-style-type: none"> • <i>Advances in Probabilistic Programming using Python.</i> Christopher Fonnesbeck, VUMC, USA (keynote speaker) 	Thomas Hamelryck
09:45 – 10:00	<ul style="list-style-type: none"> • <i>DeepLoc: Prediction of protein subcellular localization using deep learning.</i> Henrik Nielsen, DTU, DK 	
10:00 – 10:30		
10:30 – 10:45	<i>Break</i>	
10:45 – 11:05	ELIXIR Denmark	
	<ul style="list-style-type: none"> • <i>bio.tools update: status and plans.</i> 	
11:05 – 11:45	Industry session	
11:05 – 11:25	<ul style="list-style-type: none"> • <i>Molecular changes in a mouse model of the 15q13.3 microdeletion syndrome.</i> Annika Forsingdal, H. Lundbeck A/S 	
11:25 – 11:45	<ul style="list-style-type: none"> • <i>Insights from sequencing of Lactobacillus rhamnosus LGG® from commercial fermentations.</i> Mette Jørgensen, UCPH 	
11:45 – 12:15	POSTER SESSION	
12:15 – 12:45	<i>Lunch</i>	

PROGRAMME

Day 2 - continued

Friday	Session	Chair
12:45 – 14:15	Proteogenomics and Computational Proteomics	
12:45 – 13:30	<ul style="list-style-type: none"> • Public proteomics data: a (mostly unexploited) gold mine for computational researchers. Juan Antonio Vizcaino, EMBL-EBI, UK (keynote speaker) 	Veit Schwämmle
13:30 – 14:15	<ul style="list-style-type: none"> • Meta-analysis and generation of proteomics data analysis workflows combining text mining, ontologies and the bio.tools registry. Magnus Palmblad, LUMC, NL 	Thomas Doktor
14:15 – 14:30	<i>Break</i>	
14:30 – 16:00	Population genomics and evolution	
14:30 – 15:15	<ul style="list-style-type: none"> • Deconstructing evolutionary processes through the population palaeogenomic window. Tom Gilbert, UCPH, DK (keynote speaker) 	
15:15 – 15:30	<ul style="list-style-type: none"> • FarGen: The Faroese Reference Genome and Demographic Inference of the Faroese Population. Ólavur Mortensen, FarGen, FO 	Kasper Munch
15:30 – 15:45	<ul style="list-style-type: none"> • A probabilistic approach to whole genome based phylogeny. Johanne Arhenfeldt, DTU, DK 	Jonas Berglund
15:45 – 16:00	<ul style="list-style-type: none"> • Hidden Markov Model Based on Genotype Likelihood and Sequencing Depth to Detect Ploidy Levels. Samuele Soraggi, UCPH, DK 	
16:00 – 16:10	<i>Meeting closure & Announcement of best poster</i>	