



Flanders TrAining network Life Sciences

Big Data in Life Sciences and Biomedicine

Gent, 26 and 27 September 2018

<https://ftales.be/gent-2018/homebigdatabiomedice>

Programme

Wednesday, 26 September 2018

08:15-08:45 *Registration and arrival coffee*

08:45-09:00	<i>Welcome</i>
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Session 1: Big Data in Omics technologies

09:00-09:30	Machine learning for proteomics Lukas Käll <i>Science for Life Laboratory and Royal Institute for Technology, Sweden</i>
09:30-10:30	Mining public RNA-seq repositories for discovery of non-coding RNA biomarkers and therapeutic targets Pieter Mestdagh <i>UGent, Belgium</i>
10:00-10:30	<i>Morning coffee break</i>

Session 1: Continued

10:30-11:00 Public data re-use in metabolomics: why, and how
Emma Schymanski
Luxembourg Centre for Systems Biomedicine, GD Luxembourg

11:00-11:30 lonbot: a data-driven search engine for open modification and mutation searches
Sven Degroeve
UGent, Belgium

11:30-12:30 *Flash talks by Young Investigators*

11:30-11:42 Title – **Speaker** (Institute, Country)

11:42-11:54 Title – **Speaker** (Institute, Country)

11:54-12:06 Title – **Speaker** (Institute, Country)

12:06-12:18 Title – **Speaker** (Institute, Country)

12:18-12:30 Title – **Speaker** (Institute, Country)

12:30-14:00 *Lunch & poster session*

Session 2: Data management and workflows

14:00-14:30 The Orange data mining suite with a visual programming interface
Blaž Zupan
University of Ljubljana, Slovenia

14:30-15:00 Data management in the life sciences
Speaker TBC
ELIXIR Belgium, Belgium

15:00-15:30 *Afternoon coffee break*

Session 3: Statistical methods for omics data analysis

15:30-16:00 Single-cell differential expression analysis
Charlotte Soneson
University of Zürich, Switzerland

16:00-16:30 Statistical proteomics data analysis
Laurent Gatto
Cambridge University, UK

16:30-18:15 *Reception*

Thursday, 27 september 2018

08:30-09:00 *Arrival coffee*

Session 4: Big Data Visualization

09:00-09:30 Biomedical big Data Visualization
Ryo Sakai
PharmiWeb Solutions – Bracknell, UK

Session 5: Large-scale protein structure analysis

09:30-10:00 Protein structure and integration with other resources
Sanne Abeln
Vrije Universiteit Amsterdam, Netherlands

10:00-10:30 *Morning coffee break*

10:30-11:00 Community testing of protein prediction methods (CASP/CAPRI)
Marc Lensink
Université de Lille, France

11:00-12:30 *Flash talks by Young Investigators*

11:00-11:12 Title – **Speaker** (Institute, Country)
11:12-11:24 Title – **Speaker** (Institute, Country)
11:24-11:36 Title – **Speaker** (Institute, Country)
11:36-11:48 Title – **Speaker** (Institute, Country)
11:48-12:00 Title – **Speaker** (Institute, Country)
12:00-12:12 Title – **Speaker** (Institute, Country)
12:12-12:24 Title – **Speaker** (Institute, Country)

12:30-14:00 *Lunch + poster session*

Session 6: Big Data in Epidemiology

14:00-14:30 Digital Epidemiology
Michael Höhle
University of Stockholm, Sweden

14:30-15:00 Big data for infectious disease surveillance and modeling
Shweta Bansal
National Institutes of Health & Georgetown University, USA

15:00-15:30 *Afternoon coffee break*

Session 7: Integrative Omics

15:30-16:00	Integration of metabolomics and transcriptomics Ewy Mathé <i>Ohio State University College for Medicine, USA</i>
16:00-16:30	Microbial systems analysis Vera van Noort <i>KULeuven, Belgium</i>
16:30-17:00	Poster and presentation <i>awards & wrap-up</i>