Multi-Omics data integration
8 & 9 October 2020 - Online

Scientific committee
Stein Aerts (VIB-KU Leuven Center for Brain & Disease Research)
Steven Maere (VIB-UGent Center for Plant Systems Biology)
Shoshana Wodak (VIB-VUB Center for Structural Biology)

8 October 2020

13h25-13h30   **Welcome**

13h30-14h10   **Trainer 1** Michel Dumontier, Institute of Data Science, Maastricht University, NL
Suggested title: FAIR Guiding Principles for scientific data management and stewardship

SESSION 1: MULTI-OMICS FACTOR ANALYSIS

14h10-14h50   **Trainer 2** Ricard Argelaguet, European Molecular Biology Laboratory European Bioinformatics Institute, Wellcome Trust Genome Campus, Cambridge, UK

14h50-15h30   **Trainer 3** Edward Marcotte, Molecular Biosciences, College of Natural Sciences, University of Texas at Austin, US

15h30-16h00   Coffee – networking break

SESSION 2: SINGLE CELL DATA INTEGRATION

16h00-16h40   **Trainer 4** Yvan Saeys, VIB-UGent Center for Inflammation Research, BE

16h40-17h20   **Trainer 5** Carl Herrmann, Health Data Science Unit, Medical Faculty University Heidelberg and BioQuant, Heidelberg, DE

17h20-17h50   Closing – networking

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13h25-13h30   **Welcome**

SESSION 3: MACHINE LEARNING / DEEP LEARNING IN GENOMICS & PROTEOMICS

13h30-14h10   **Trainer 6** Julien Gagneur, Department of Informatics, Technical University of Munich, DE

14h10-14h50   **Trainer 7** Avi Ma'ayan, Department of Pharmacological Sciences, Mount Sinai Center for Bioinformatics, Icahn School of Medicine at Mount Sinai, New York, US

14h50-15h30   **Trainer 8** Sushmita Roy, Department of Biostatistics and Medical Informatics, University of Wisconsin-Madison, US

15h30-16h00   Coffee – networking break

SESSION 4: MACHINE LEARNING IN DRUG DISCOVERY & DISEASE

16h00-16h40   **Trainer 9** Ernest Fraenkel, Department of Biological Engineering, Massachusetts Institute of Technology, Cambridge, US
Drug Toxicity Predictions

16h40-17h20   **Trainer 10** Stephen MacKinnon, Cyclica, Toronto, CA
Target deconvolution/multi-pharmacology

17h20-17h50   Closing – networking