

Workshop: Bioinfo/Biostat

Date of the event: 17-18 janvier 2018

This event organised in 2018 by the Onconet Sudoe project, by the labex CIMI and GenoToul, is the opportunity to continue a series of meetings and exchanges between bio-informatics, bio-statistics and biology teams. Exchanges concern methodological researches as well as data analysis through the development of appropriate bioinformatic and biostatistics tools. We invite all researchers and engineers (academic and private companies) to submit an abstract (1 page, preferably in English) for an oral or poster contribution.

**Location : Université Paul Sabatier, Institut de Mathématiques, amphithéâtre L. Schwartz
(bâtiment 1R3)**

Programme :

Invited speakers : Marie-Laure Martin-Magniette (Inra, AgroParisTech), Jean-François Deleuze (Directeur du Centre National de Recherche en Génomique Humaine)

Mardi 16/01/17

14h-17h ONCONET SUDOE Technical meeting

Mercredi 17/01/17

8h30-9h15 Accueil café

9h15-9h30 Introduction

9h30-10h30 Conférence invité : Marie-Laure Martin-Magniette (Inra, AgroParisTech), Inférence de réseaux biologiques à partir de données transcriptomiques

10h30-11h Pause café

11h-12h30 Communications « Onconet Sudoe »

Franklin Delehelle (Irit), ASGART – The hunt for duplications

Hector Tejero (CNIO), Predicting cancer sequential treatments and drug repurposing with SATIE

Jordi Martorell Marugán (GENYO), mCSEA: An R package for detection of differentially methylated regions

Alberto Labarga Gutierrez (NavarraBiomed), Stategra: Development of new statistical methods and tools for genomic technologies

12h30-14h Repas buffet

14h-15h30 Communications (*3)

Guillaume Devailly (GenPhySE) , scFeatureFilter: an R package for non-arbitrary feature filtering in single cell RNA-seq experiments

Sébastien Déjean (IMT), New developments of the mixOmics R package for the exploration and the integration of biological data sets

Olivier Chapleur (Irstea), Development of microbial indicators of anaerobic digestion inhibition with omics data integration

15h30-16h Pause Café

16h-17h30 Communications (*3)

Willy Rodriguez (IMT), Challenges when applying stochastic models to reconstruct the demographic history populations

Nicolas Nafati (Inserm), Algorithm based on a Multiple and Binary Logistic Regression (MBLR) model for pregnancy prediction

Alexandra Mancheno Ferris (CBI), Bioinformatic analyses of targets of the Shavenbaby Transcription Factor

18h30 Conférence grand-public: "Detecting selective events in genomes and the benefit of using ancient and modern-day populations: LSD, a tree-based approach to detect positive selection in time-series"

Pablo Librado and Ludovic Orlando, Centre for Geo Genetics, Natural History Museum of Denmark, University of Copenhagen, Copenhagen, Denmark;

Laboratoire AMIS CNRS UMR 5288, Faculté de Médecine de Purpan, 37 allées Jules Guesde, 31000 Toulouse, France

Jeudi 18/01/17

9h-10h Conférence invité : Jean-François Deleuze (Directeur du Centre National de Recherche en Génomique Humaine), NGS de la recherche au plan de médecine génomique FMG2025

10h-10h30 Pause café

10h30-12h30 Communications (*4)

Raphael Mourad (CBI), Predicting double-strand DNA breaks using epigenome marks or DNA at kilobase resolution

Cécilia Berges (Métatoul), Jérôme Fehrenbach (IMT), When industrial monitoring software meets biological data

Sabine Mercier (IMT), Atypical segment detection in biological sequences: A methodological approach for the local score distribution

Ludovic Cottret (LIPM), Comparaison des réseaux métaboliques de bactéries phytopathogènes

12h30-14h Repas buffet

13h30-14h30 Session poster

14h30-16h Communications (*3)

Benoît Augé (CBD), Transcriptional regulation of haematopoiesis by GATA and FOG transcription factor in *Drosophila*

Camille Champion (Inserm), Discovery of metagenomic biomarkers for the development of a diabetes 2 related disease

Gaëlle Lefort (Inra), Using ASICS to quantify metabolites in 1D 1H NMR spectra: an application to perinatal survival in pigs

16h-16h15 Clôture café

Les inscriptions sont gratuites mais obligatoires. Les pauses et repas de midi seront pris en charge. / Registration is free but mandatory. Coffee breaks and lunch are supported by the organization.

Steering committee

Sébastien Déjean (UPS IMT), Christine Gaspin (Inra MIAT), Sandrine Laguerre (Inra LISBP), Hervé Luga (UT2 IRIT), Matthias Zytnicki (Inra MIAT).