VI Jornada de Bioinformàtica i Genòmica

Organitzada per:
Secció de Bioinformàtica i Biologia Computacional de la SCB
Secció de Genòmica i Proteòmica de la SCB
Associació Bioinformatics Barcelona – BIB

Patrocinada per:

Hi col·labora:

PROGRAMA

Auditori CaixaForum

Av. Francesc Ferrer i Guàrdia, 6-8.

Barcelona

20 de desembre de 2018

COMITÈ ORGANITZADOR:

Patrick Aloy (ICREA, IRB Barcelona)
Miquel Àngel Pujana (IDIBELL)
Ricard Gavaldà (UPC)
Mario Cáceres (ICREA, UAB)
Roderic Guigó (CRG-UPF)
Ana Ripoll (UAB, BIB)

SUPORT:

Mariàngels Gallego (SCB)
Maite Sánchez (SCB)
Begoña Duran (BIB)

8:30 – 9:15   Registration

9:15 – 9:30   Wellcome and opening of the symposium
                Representant (Obra Social "La Caixa")
                Dra Ana Ripoll (Bioinformatics Barcelona)
                Dr Montserrat Coromines (Societat Catalana de Biologia)

SESSION I.   Chair Marc Martí-Renom (ICREA, CRG-CNAG).

9:30 - 10:15   **Invited Lecture**: **Henk Stunnenberg** (RIMLS, Netherlands).
                Epigenetic (de)regulation in health and disease.

10:15 - 10:30   **Pablo Baeza (CRG).** Combinatorial genetics reveals a scaling law for the effects of mutations on splicing.
10:30 - 10:45   **Pablo Latorre Doménech (IRB Barcelona).** Sensitive, high-throughput single-cell RNA-Seq reveals within-clonal transcript-correlations in yeast populations.
10:45 - 11:00   **Marta Puig Font (UAB).** Determining the impact of uncharacterized inversions in the human genome by droplet digital PCR (ddPCR).

11:00 - 11:30   Coffee Break

SESSION II.   Chair Baldo Oliva (UPF).

11:30 - 11:45   **Lídia Mateo (IRB Barcelona).** Exploring the OncoGenomic Landscape of cancer.
11:45 - 12:00   **Bernhard Knapp (UIC).** Predicting T-cell receptor binding using hierarchical natural Monte Carlo simulations.
12:00 - 12:15   **Janet Piñero (UPF).** Network, transcriptomic and genomic characterization of genes relevant for drug response.

12:15 - 13:00   **Invited Lecture: Júlio Sáez-Rodríguez** (BioQuant, Germany).
                Dynamic logic models complement machine learning to improve cancer treatment.

13:00 - 14:30   Lunch and free poster viewing

SESSION III. Chair Xavier Daura (ICREA, UAB).

14:30 - 14:45   **Oriol Pich (IRB Barcelona).** Somatic and germline mutation rates in nucleosome-occupied DNA.
14:45 - 15:00   **Maria Pilar Francino (FISABIO).** Metabolic adaptation in the human gut microbiota during pregnancy and the first year of life.
15:00 - 15:15   **Sergio Picart-Armada (UPC).** A tissue-specific network-based pathway test and application to GWAS data.
15:15 - 15:30   **Alejandro Caceres (ISGlobal).** Extreme downregulation of chromosme Y and male disease.
15:30 - 15:45   **Marina Ruiz Romero (CRG).** Time and tissue contribution to gene expression during tissue differentiation and development.
15:45 - 16:00   **Giovanni Iacono (CRG-CNAG).** Single-cell transcriptomics unveils gene regulatory network plasticity.

16:00 - 16:30   Coffee Break

SESSION IV. Chair Patrick Aloy (ICREA, IRB Barcelona).

16:30 - 16:45   **Davide Cirillo (BSC).** Training IBM Watson with MelanomaMine.
16:45 - 17:00   **Renée Beekman (IDIBAPS).** Integration of genomic and epigenomic data, including the three-dimensional chromatin structure, refines regulatory mechanisms at chronic lymphocytic leukemia risk loci.
17:00 - 17:15   **Josu Aguirre Gómez (VHIR).** The clinical costs of in silico tools: a novel approach to chose the best pathogenicity predictor for healthcare applications.

17:15 - 18:00   **Invited Lecture: Lars Juhl Jensen** (Uni of Copenhagen, Denmark). Population-wide data and text mining of electronic health records.

18:00 - 19:00   Poster viewing with authors and cocktail

19:00 - 19:15   *Genes* award to the best oral communication and poster and end of the symposium.

19:15   Guided visit to the CaixaForum (requires registration).