

Advances in Computational Biology

Fostering collaboration among women scientists

Thursday, 28th November 2019

8:00 - 9:00	REGISTRATION
9:00 - 9:25	<p>WELCOME - Chair: Rosa M. Badia</p> <ul style="list-style-type: none"> - Janet Kelso, Group leader, Max Planck Institute for Evolutionary Anthropology - Alison Kennedy, Director, STFC Hartree Centre - Núria López Bigas, ICREA Research Professor and Group leader, Institute for Research in Biomedicine Barcelona - Carla Conejo, Scientific Projects Leader, Area of Knowledge, Education and Research at Fundació Catalunya La Pedrera - Àngels Chacón, Minister of Business and Knowledge, Government of Catalonia
9:25 - 10:10	<p>KEYNOTE TALK - Chair: Janet Kelso</p> <p>Christine Orengo (UCL). CATH Functional families - insights into impacts of genetic variations.</p>
10:10 - 11:10	<p>Plenary session 1 - Chair Janet Kelso</p> <ul style="list-style-type: none"> - Compute02: An RPCA (Robust Principal Component Analysis) based approach for protein-protein interaction hot-spot prediction, Divya Sitani - BioMed03: Predicting synthetic lethal interactions using conserved patterns in protein interaction networks, Frances Pearl - BioSeq01: Characterization of Selenoprotein Gene Expression across Tissues and Individuals, Aida Ripoll-Cladellas
11:10 - 11:40	Coffee break
11:40 - 13:00	<p>Plenary session 2 - Chair: Alison Kennedy</p> <ul style="list-style-type: none"> - BioSeq06: Go low with ATLAS: a tool for maximizing insight from minimal sequencing depth, Vivian Link - BioSeq02: Tools for transforming multiomics data into disease models, Ana Conesa - BioSeq05: Genomic based drug repurposing screen for Rett syndrome, Irene Unterman - Compute05: DLMF: Deep Logistic Matrix Factorization with multiple information integration for drug-target interaction prediction, Sarra Itidal Abbou
13:00 - 14:00	Lunch + Poster session I
14:00 - 14:45	<p>KEYNOTE TALK - Chair: Alison Kennedy</p> <p>Marie-Christine Sawley (Intel). Data centric large scale computing, a powerful scientific instrument for life and science.</p>
14:45 - 16:05	<p>Plenary sessions 3 - Chair: Rosa M. Badia</p> <ul style="list-style-type: none"> - BioSeq03: Widespread sexual dimorphism in genetic architecture in UK Biobank, Elena Bernabeu - BioSeq04: Fine-mapping UK Biobank traits GWAS using bayesian algorithms and chromatin annotation data, Erola Pairo-Castineira - Compute03: Automated extraction of color pattern and anatomical characteristics in dairy cows, Jessica Nye - Compute04: The human heart seen by the eyes of a computer scientist, Marta Garcia-Gasulla
	Group Picture
16:10 - 17:10	Coffee Break + Meeting with Women Leaders (prior confirmed registration) + Poster session I

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17:10 - 18:50	Plenary session 4 - Chair: Núria López-Bigas <ul style="list-style-type: none"> - BioMed05: Insight into genetic predisposition to chronic lymphocytic leukemia from integrative epigenomics, Renée Beekman - BioMed01: OncodriveCLUSTL: a sequence-based clustering method to identify cancer drivers, Claudia Arnedo-Pac - BioMed02: Detecting aberrant integrations of viral DNA that promote major restructuring of cancer genome architecture, Eva G Alvarez - Compute01: Discriminating Early- and Late-Stage Cancers Using Multiple Kernel Learning on Gene Sets, Arezou Rahimi - BioMed04: Mechanistic approach for optimal model selection in cancer research, Inmaculada Álamo-Álvarez
18:50 - 19:20	Theatre Performance
20:30	Networking Conference Dinner (prior registration, 7 Portes Restaurant)

Friday, 29th November 2019

9:00 - 9:45	KEYNOTE TALK - Chair: Núria López-Bigas Natasa Przulj (BSC, ICREA). Towards Data-Integrated Medicine.
9:45 - 10:45	Plenary session 5 - Chair: Mar Albà <ul style="list-style-type: none"> - BioSeq26: Dynamic hyper editing underlines temperature adaptation in <i>Drosophila</i>, Ilana Buchumenski - BioSeq29: Benchmarking coevolution methods, Rocío Rama Ballesteros - BioMed21: Computational challenges associated to plasmid mediated AMR spread, Alice Ledda
10:45 - 11:15	Coffee Break
11:15 - 12:35	Plenary session 6 - Chair: Marta Melé <ul style="list-style-type: none"> - BioMed22: Cell-intrinsic core-regulatory circuits driving tumor-related phenotypes with the I3-OncoNet cycle, Julia Puig - BioSeq28: Single-cell transcriptomics analysis reveals the dynamics of alternative polyadenylation during cell cycle progression, Mireya Plass - Compute15: An atomistic molecular dynamics simulations approach to the study of h-LDHA inhibition, Antonia Vyrkou - BioSeq27: Comparative epigenomics determines the enhancer sequence code of pluripotent embryonic stem cells and facilitates the creation of synthetic enhancers, Jennifer Mitchell
12:35 - 14:45	Lunch + Poster session II
14:45 - 15:45	Panel discussion: Challenges of Artificial Intelligence in Biomedical Research (ACM-WE & RSG-Spain)
15:45 - 16:10	Closing remarks and Best Poster and Oral presentation awards - Chairs: Janet Kelso, Alison Kennedy and Núria López-Bigas
16:10 - 17:00	Guided visit to La Pedrera (prior registration)
16:10 - 17:30	Networking activity (RSG-Spain)