

15th RECOMB CG
Comparative Genomics
Satellite Conference
Barcelona, Spain,
October 4-6 2017

Programme

Wednesday, October 4th

18:00 - 20:00 Welcome Cocktail (PRBB building – Terrace on the 5st floor)

Thursday, October 5th

(Marie Curie room – Ground floor)

09:00 – 09:30 Registration

09:30 – 09:40 Opening Remarks by **Tomàs Marquès** and **Roderic Guigó**

Chair: Roderic Guigó, Centre for Genomic Regulation, ES

09:40 – 10:30 **Keynote:** Iria Fernández, School of Biology, University of Vigo, ES
Genome sequencing and the future of coral reefs

10:30 – 11:00 Coffee break

11:00 - 11:15 **TreeShrink: efficient detection of outlier tree leaves**
Siavash Mir Arabbaygi, University of California, US

11:15 - 11:30 **Inferring Local Genealogies on Closely Related Genomes**
Ryan Elworth, Rice University, US

11:30 - 12:45 **The similarity distribution of paralogous gene pairs created by recurrent alternation of polyploidization and fractionation**
Yue Zhang, University of Ottawa, CA

11:45 - 12:00 **Fast Heuristics for Resolving Weakly Supported Branches using Duplication, Transfers, and Losses**
Maureen Stolzer, Carnegie Mellon University, US

12:00 - 12:50 **Keynote:** Iñaki Ruiz-Trillo, Institute of Evolutionary Biology (CSIC-IBE), ES
Investigating animal origins with the genomes of their closest unicellular relatives

12:50 - 14:30 Lunch

Chair: Tomàs Marquès, Institute of Evolutionary Biology (CSIC-IBE), ES

14:30 – 14:45 **Generation and Comparative Genomics of Synthetic Dengue Viruses**
Tamir Tuller, Tel Aviv University, IL

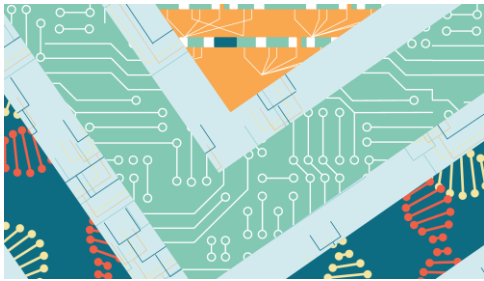
14:45 – 15:00 **A tractable variant of the Single Cut or Join distance with duplicated genes**
Aniket Mane, Simon Fraser University, CA

15:00 – 15:15 **Algorithms for Computing the Family-Free Genomic Similarity under DCJ**
Jens Stoye, Bielefeld University, DE

15:15– 15:30 **A Unified ILP Framework for Genome Median, Halving, and Aliquoting Problems under DCJ**
Pavel Avdeyev, George Washington University, US

15:30 – 18:00 Poster Session

20:00 – 22:00 Conference Dinner (not included in the registration fee – previous registration required).
Place: Llamber restaurant, Calle de la Fusina, 5, 08003 Barcelona
<http://llamber.com/en/>



15th RECOMB CG
Comparative Genomics
Satellite Conference
Barcelona, Spain,
October 4-6 2017

Friday, October 6th

Chair: Luay Nakhleh, Rice University, US

09:30 – 10:20 **Keynote: Toni Gabaldón**, Centre for Genomic Regulation, ES
*Recent genome evolution in the emerging fungal pathogen *Candida glabrata**

10:20 – 10:35 **Enhancing Searches for Optimal Trees using SIESTA**
Pranjal Vachaspati, UIUC, US

10:35 – 10:50 **ASTRAL-III: increased scalability and impacts of contracting low support branches**
Siavash Mir Arabbaygi, University of California, San Diego, US

10:50 – 11:30 Coffee break

Chair: Siavash Mir Arabbaygi, UCSD, US

11:30 – 11:45 **Statistical Consistency of Coalescent-based Species Tree Methods under Models of Missing Data**
Michael Nute, University of Illinois at Urbana-Champaign, US

11:45– 12:00 **New Algorithms for Genomic Duplication Problem**
Jarosław Paszek, University of Warsaw, PL

12:00 – 12:15 **On the Rank-Distance Median of 3 Permutations**
Leonid Chindelevich, Simon Fraser University, CA

12:15 – 14:00 Lunch and poster session

Chair: To be determined

14:00 – 15:00 **Keynote: Wes Warren**, McDonnell Genome Institute, Washington University School of Medicine US
The genetic odyssey of the African green monkey

15:00 – 15:15 **Finding Teams in Graphs and its Application to Spatial Gene Cluster Discovery**
Tizian Schulz, Bielefeld University, DE

15:15 – 15:30 **Orientation of Ordered Scaffolds**
Max Alekseyev, George Washington University, US

15:30 - 15:45 **Rearrangement Scenarios Guided by Chromatin Structure**
Sylvain Pulicani, LIRMM, IGH, FR

Closing remarks