

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

09:00 – 09:30 Registration

09:30 – 09:40 Opening Remarks

Chair: Roderic Guigó, Centre for Genomic Regulation, ES

09:40 – 10:30 **Keynote: Iria Fernández, Vigo University, 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, 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

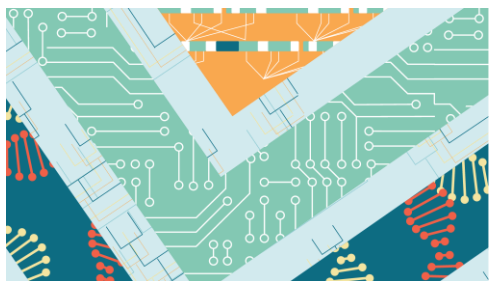
15:00 – 15:15 ***Algorithms for Computing the Family-Free Genomic Similarity under DCJ***
Jens Stoye, Bielefeld University, DE

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- you have previously been registered to the dinner).

Place: Llamber restaurant, Calle de la Fusina, 5, 08003 Barcelona
<http://llamber.com/en/>



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Friday, October 6

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