Programme

Wednesday, October 4th

18:00 - 20:00 Welcome Cocktail (PRBB building – Terrace on the 5th 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

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 Arbabaygi, University of California, San Diego, US

10:50 – 11:30  Coffee break

Chair: Siavash Mir Arbabaygi, 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**  
Jaroslaw 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