

Detailed program

DAY 0, 7th of July

[Centro de Memória Building](#), Vila de Conde

18:00-19:30 – Registration & Welcome Reception

DAY 1, 8th of July

8:00 *Shuttle from Vila do Conde to the Venue (Building 1)*

8:30 - 9:00 Registration

9:00 - 9:30 Open Ceremony: Nuno Ferrand - CIBIO/BIOPOLIS director, Claire Mérot - STRiVE Network, Rui Faria - Main TiBE-STRiVE organizer

Chair: Claire Mérot

9:30 - 10:15 **Plenary Talk - Mark Kirkpatrick - Chromosome inversions as pre- and postzygotic isolating mechanisms**

10:15 - 10:30 **Carolina Segami** – The role of inversions in the reproductive isolation of recently diverged cryptic mouse lemur species.

10:30 - 11:00 *Coffee Break*

Chair: Marcial Escudero

11:00 - 11:30 **Mini plenary: Ashwini V Mohan - Genomic rearrangements underlie barriers to recombination in holocentric sedges**

11:30 - 11:45 **Alistair Hockey** – Massive genomic flux and rapid differentiation in a young autogamous diploid

11:45 - 12:00 **Léa Nicolas** – Evolutionary consequences of recombination suppression: the case of a chromosomal inversion in the seaweed fly

12:00 - 12:15 **Carina Mugal** - Population-level PacBio HiFi data enable the investigation of structural variants in the speciation process of two songbirds

12:15 - 12:30 **Desanka Lazić** – A graph-based pangenome of European beech (*Fagus sylvatica*) reveals the landscape of structural variation across the distribution range

12:30 - 14:00 *Lunch (Building 3)*

Chair: Marina Rafajlovic

14:00 - 14:15 Pierre Barry – Origin and fates of chromosomal inversions in *Littorina* marine snails

14:15 - 14:30 Katie Lotterhos – Comparison of population-genetic vs. read-based calls of inversions in Atlantic cod

14:30 - 14:45 Claire Lemaitre – Representation and detection of inversions in pangenome graphs

14:45 - 15:00 Mélody Temperville - SVJedi-Tag: a novel method for genotyping large inversions with linked-read data

15:00 - 15:15 Jana Wold – The good, the bad, and the complex: Characterizing structural variants using genome graphs

15:15 - 16:00 Parallel Discussions – session I

16:00 - 16:15 *Coffee Break*

16:15 - 17:00 Parallel Discussions – session II

17:00 - 17:30 Discussion reporting and conclusions

17:30 - 19:00 Poster Session

19:00 *Shuttle to Vila do Conde*

DAY 2, 9th of July

8:30 - 9:00 *Shuttle from Vila do Conde to the Venue (Building 1)*

Chair: Kay Lucek

9:00 - 9:45 Plenary Talk - Joana Meier - Structural variation facilitating speciation in butterflies and spiders

09:45 - 10:00 Amin Ghane – Genomic drivers of persimmon adaptive radiation in New Caledonia, a biodiversity hotspot

10:00 - 10:15 Guillaume Martin – Unravelling genomic drivers of speciation in *Musa* through comparison of wild banana ancestors genomes.

10:15 - 10:30 Simone D'Alessandro -Multiple chromosomal inversions shape the genomic landscape of a marine broadcast spawner

10:30 - 11:00 *Coffee Break*

Chair: Aurora Ruiz-Herrera

11:00 - 11:30 Mini plenary: Océane Mion - Uncovering the role of structural variations in the evolution and adaptation of a devastating fungal pathogen

11:30 - 11:45 Heidi Yang – Role of chromosomal inversions in local adaptation in California endemic oak

11:45 - 12:00 Laure Segurel – Adaptation of the bedbug *Cimex lectularius* to a new (human) host

12:00 - 12:15 Hugo Corval – A 38-Mb region underlies an ancient climate-linked inversion in barn owls

12:15 - 12:30 Malin Hasselgren – Structural variation in Iberian lynx (*Lynx pardinus*)

12:30 - 14:00 Lunch (*Building 3*)

Chair: Benjamin Dauphin

14:00 - 14:15 Jessica Purcell – The role of gene flux in the evolutionary trajectory of supergenes

14:15 - 14:30 Vitor Sudbrack – The effect of supergene evolution on the structure and stability of the G-matrix

14:30 - 14:45 Trevor Krabbenhoft – Structural variants and the genetic diversity – population viability paradox

14:45 - 15:00 Eleftherios Darzentas – The role of gene Copy Number Variations (gCNVs) in the local adaptation of major european tree species

15:00 - 15:15 Pascal Milesi – Show Case of the ‘rCNV’, a comprehensive framework to call gene copy number variations from SNPs data.

15:15 - 16:00 Parallel Discussions – session III

16:00 - 16:15 Coffee Break

16:15 - 17:00 Parallel Discussions – session IV

17:00 - 17:30 Discussion reporting and conclusions

17:30 Shuttle to Vila do Conde

18:00 Walking city Tour

DAY 3, 10th of July

8:30 - 9:00 Shuttle from Vila do Conde to the Venue (*Building 1*)

Chair: Tobias Aubier

9:00 - 9:45 Plenary Talk - Jeffrey Groh - Ancient rhythms of sex alternation in flowering plants

09:45 - 10:00 Dominique Hicks – Macro-evolutionary perspectives on a large chromosomal rearrangement underlying alternative life-histories in seaweed flies

10:00 - 10:15 Eva Koch – The role of a sex chromosome–autosome fusion in the evolution of live-bearing and speciation in the common lizard

10:15 - 10:30 Nikolas Vellnow – Sex-linked structural variation and paralogy shape genomic diversity in a songbird

Chair: Petr Nguyen

10:30 - 11:00 Coffee Break

11:00 - 11:30 Mini plenary: Katarina Stuart - Structural variants and transposable elements under weakened selection in invasive populations

11:30 - 11:45 Paul Battlay – Local PCA reveals widespread structural variation across the tree of life

11:45 - 12:00 Caitlin Price – Uncovering the complex genomic history of *Araneioidea* and the role of TEs on Intrachromosomal Rearrangements

12:00 - 12:15 Anna-Sophie Fiston-Lavier – Exploring Transposable Elements dynamic in human population in the Human Pangenome Reference Consortium Release 2 Data

12:15 - 12:30 Janina Rinke – Transposable element islands at the interface of 3D genome architecture and karyotype evolution in ants

12:30 Closing

12:45 - 14:30 Lunch (Building 3)

14:30 Visit to Hall of Biodiversity- Porto

19:00 Bus from Porto to the conference dinner

20:00 Conference Dinner

11th of July, After-Conference Excursion