

## 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: Thomas 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 *Araneoidea* 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**