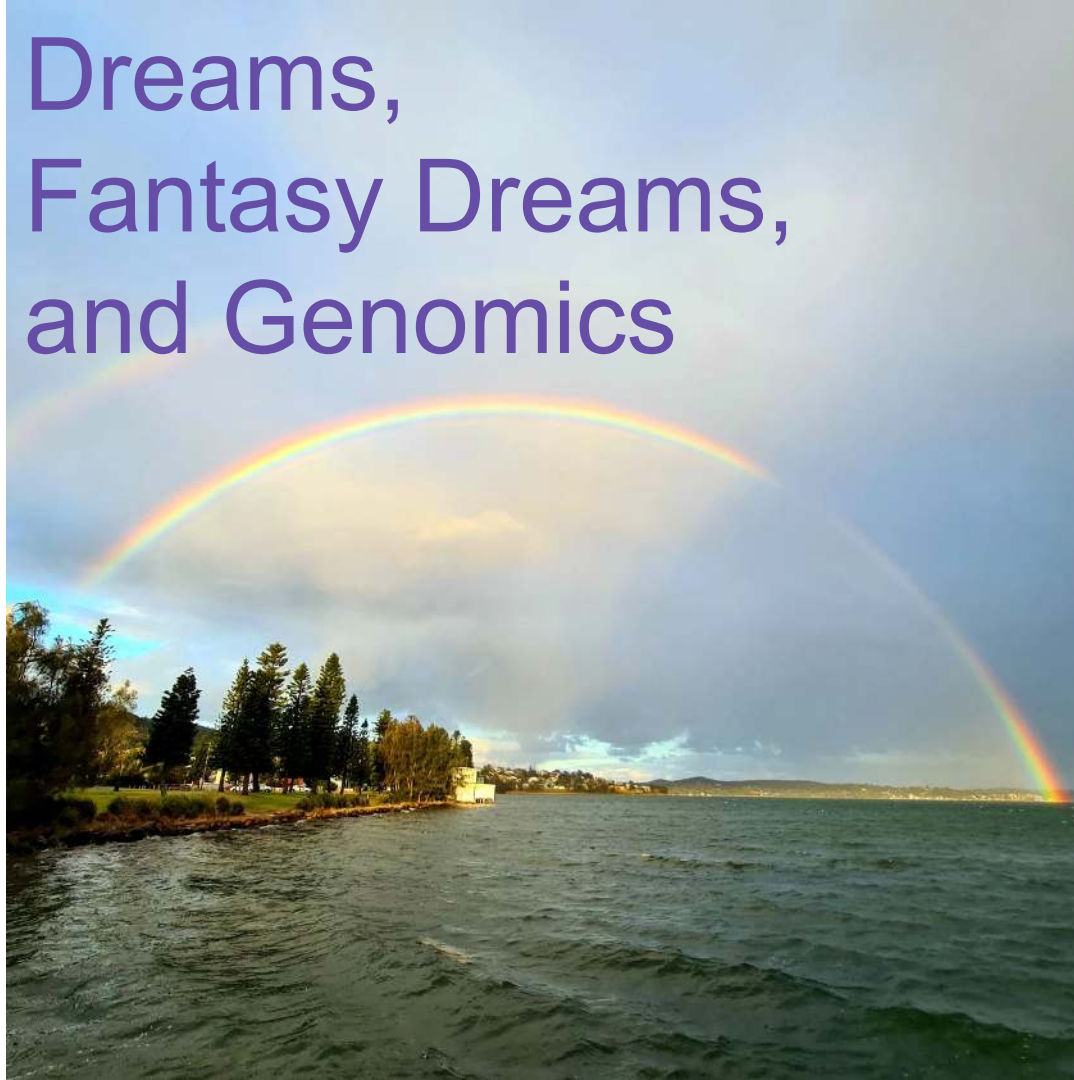


Dreams, Fantasy Dreams, and Genomics



Why this session title?

**Lies, damn lies, and
genomics**

Christopher West Wheat





This session:

- Get to know the team
- Share our enthusiasm
for genomics
- Get to know each other

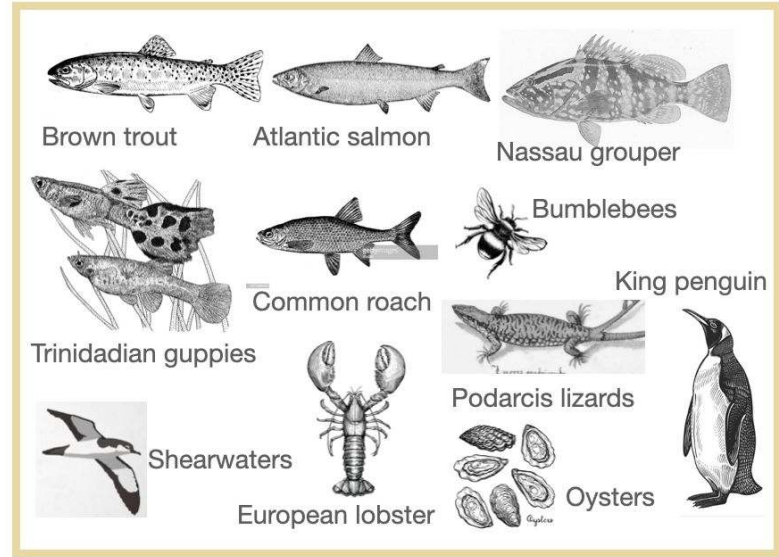
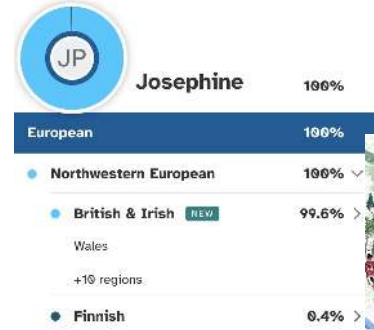
Parts:

1. Brief intro by yours truly
2. Co-directors/TAs introduce themselves
3. TA-led social activity





The Team!





Rayan
Chikhi



your results from Dante Labs US may have
been affected by a technical issue identified in a specific batch of analysis
during our internal quality assurance process



Sequence
Bioinformatics
INSTITUT
PASTEUR

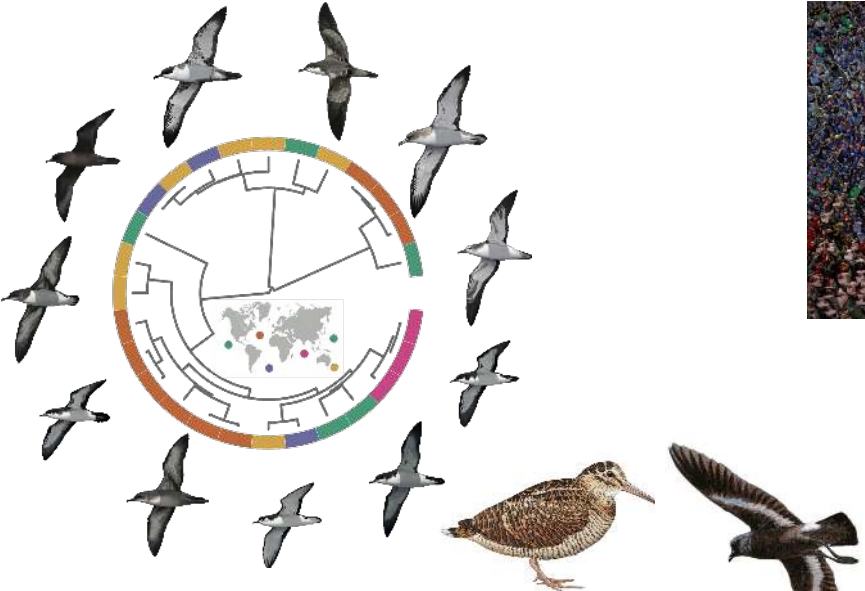




Joan

100%

European	98.6%
● Southern European	97.7%
● Spanish & Portuguese	97.7%
Catalonia, Spain	
+9 regions	
● Broadly European	0.9%
Western Asian & North African	1.4%
● North African	1.4%

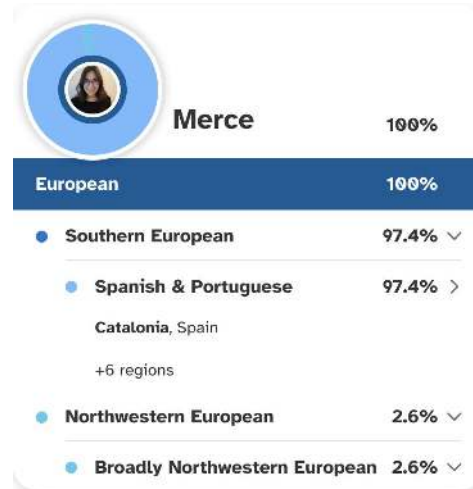
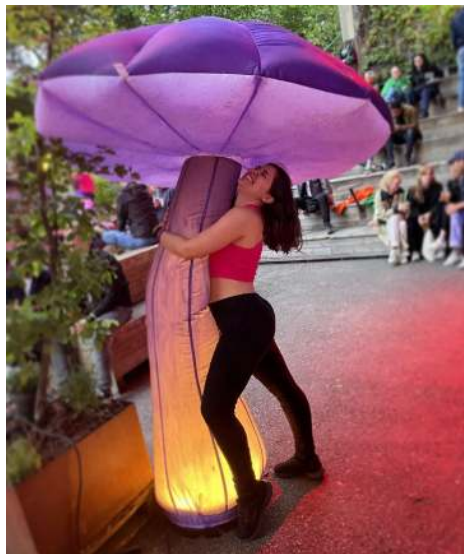
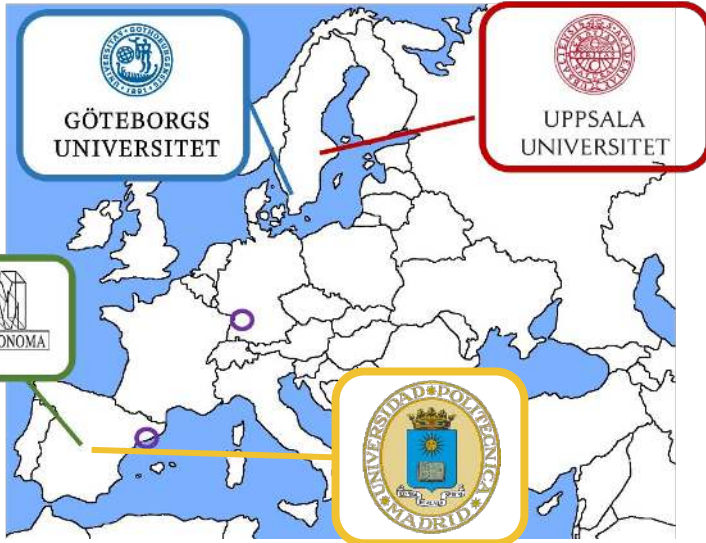
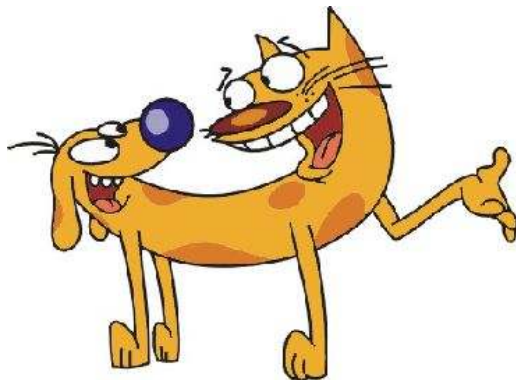


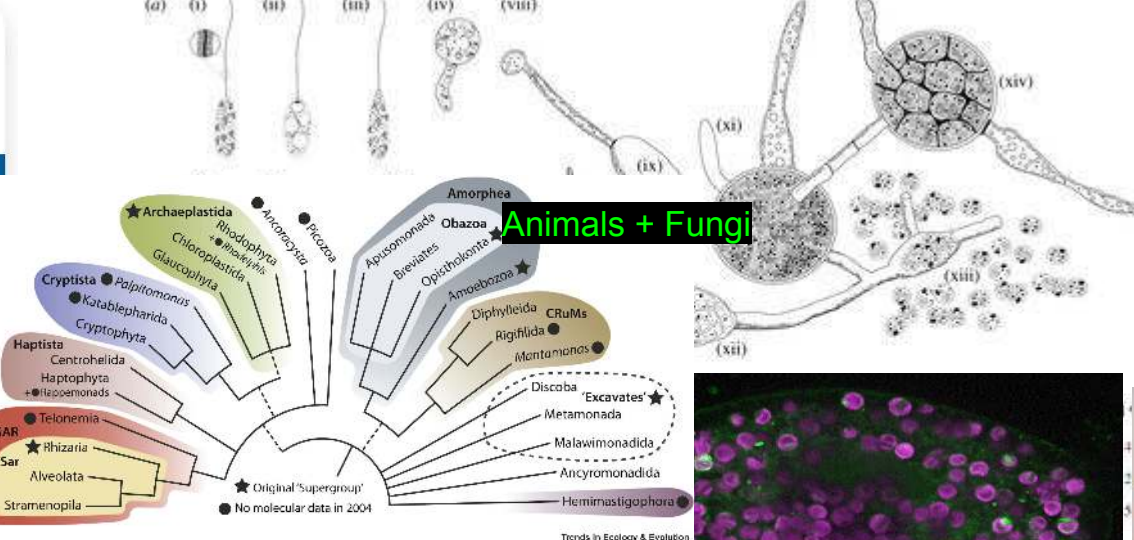
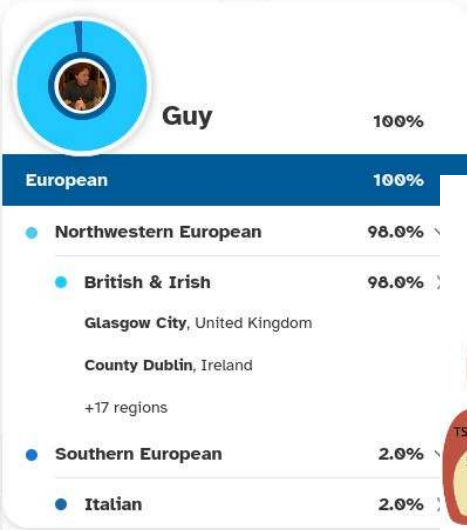
UNIVERSITAT DE BARCELONA

UNIVERSITÀ DEGLI STUDI DI MILANO

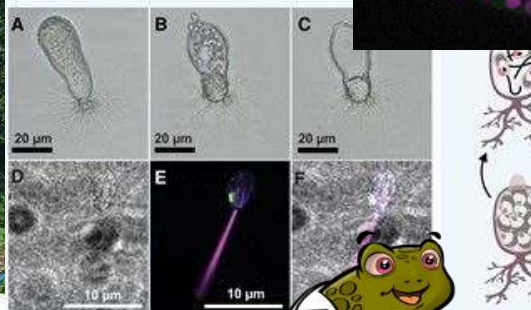
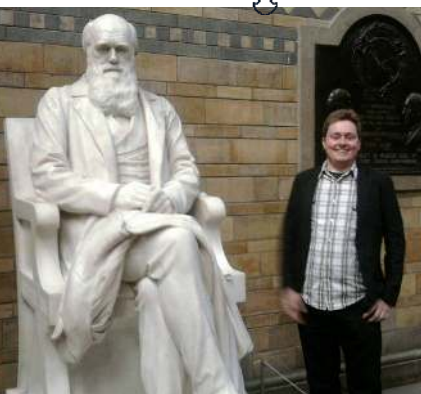


Mercè





University of Exeter



Darwin
TREE of LIFE

Scott Handley, course founder





Janina



Universität
Münster

UNIVERSITY OF
COPENHAGEN



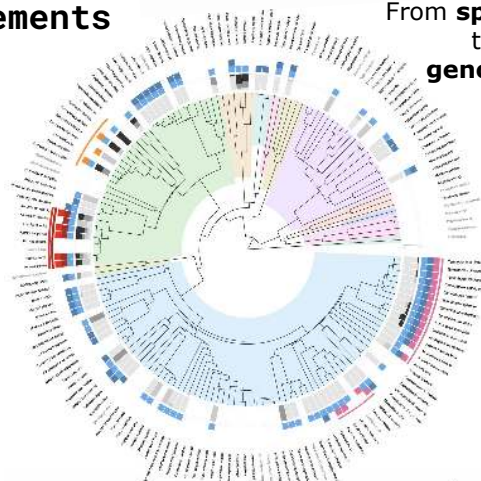
The
University
Of
Sheffield.



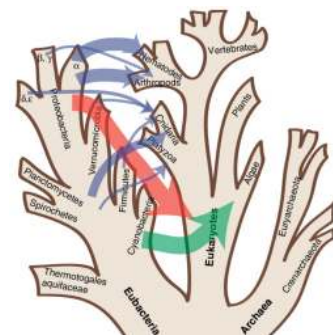
Transposable Elements

From **species in the field**
to looking at
genome evolution

Horizontal Gene Transfer



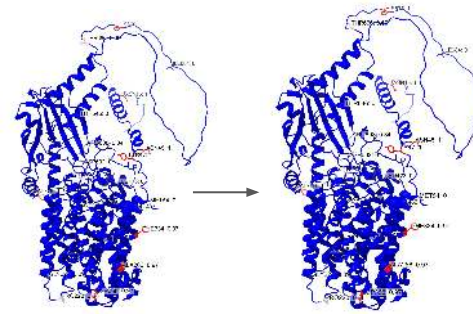
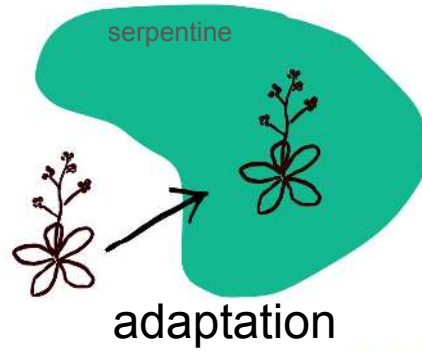
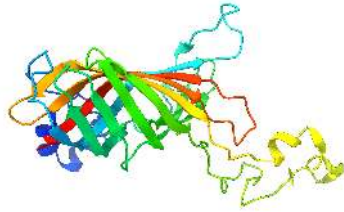
Comparative genomics



Miloš



Charles University
Prague



Czech Republic



Luis



Cali,
Colombia



Major in Microbiology
&
Masters in Computational
Biology



Diet estimation by metabarcoding,
16s microbiome analysis &
Culture in anaerobic conditions



Evaluating phage therapy
effects In a malnourished
microbiota



PhD in Computational
Biology

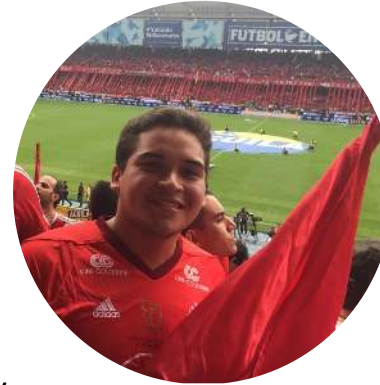


Ulcerative colitis



Crohn's disease

Hecatomb



Karthick



Verhulst-team



Mutational genomics in stem rust



Wild wheat disease resistance genes



Mechanism of atypical wheat resistance genes

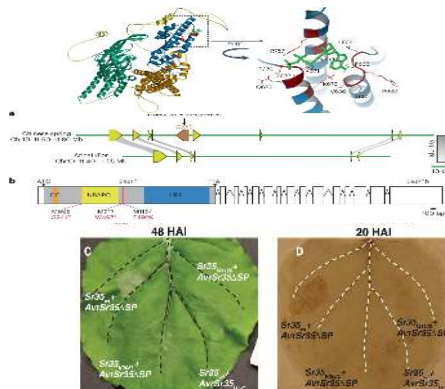
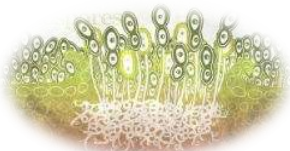


Wheat pathogen genomics



Engineering disease-resistant wheat

Insect sex determination cascade



The Wulff Lab



@ 2023 Evogenomics

Thea
Rogers



The
University
Of
Sheffield.

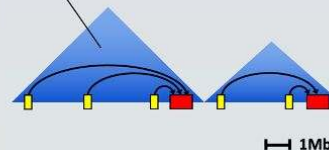


universität
wien



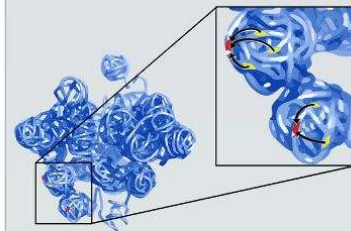
Local and distal regulatory interactions

Topologically associating domain (TAD)



3C methods e.g. HiC, Omni-C, Micro-C

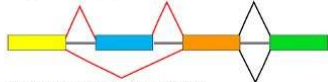
Pan-chromosomal regulatory interactions



3D modelling of high quality 3C data



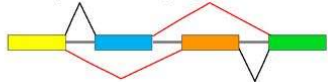
Skipped exon (SE)



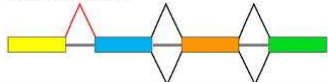
Mature mRNA



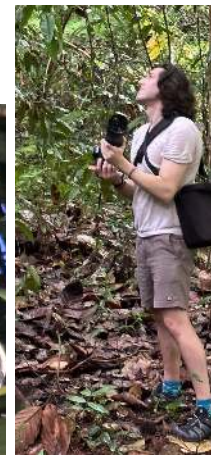
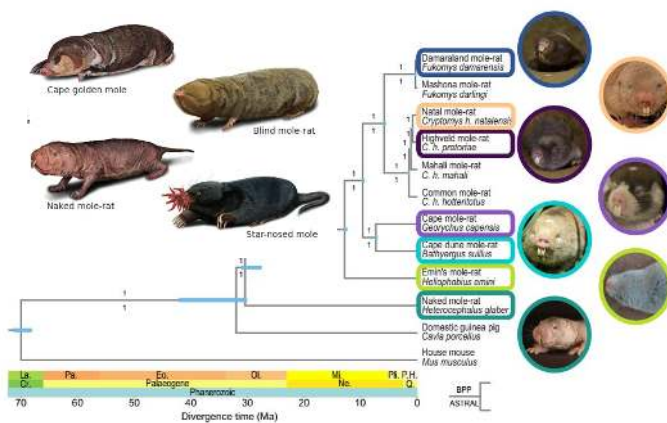
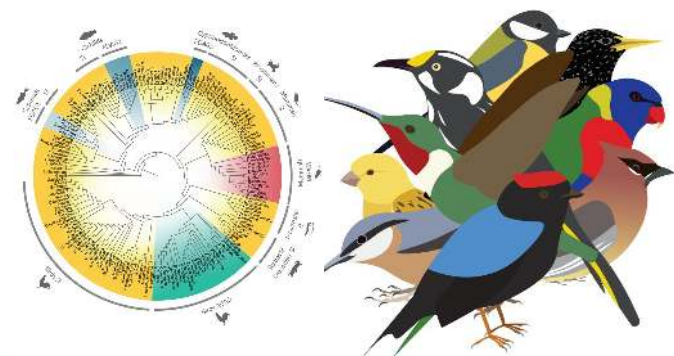
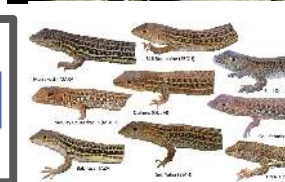
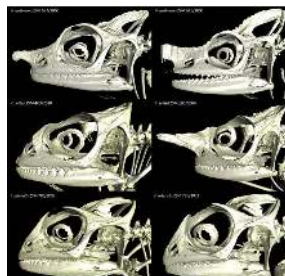
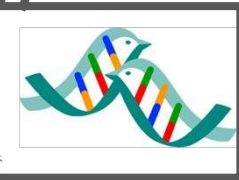
Mutually exclusive exons (MXE)



Retained intron (RI)



Daniel (Dan)

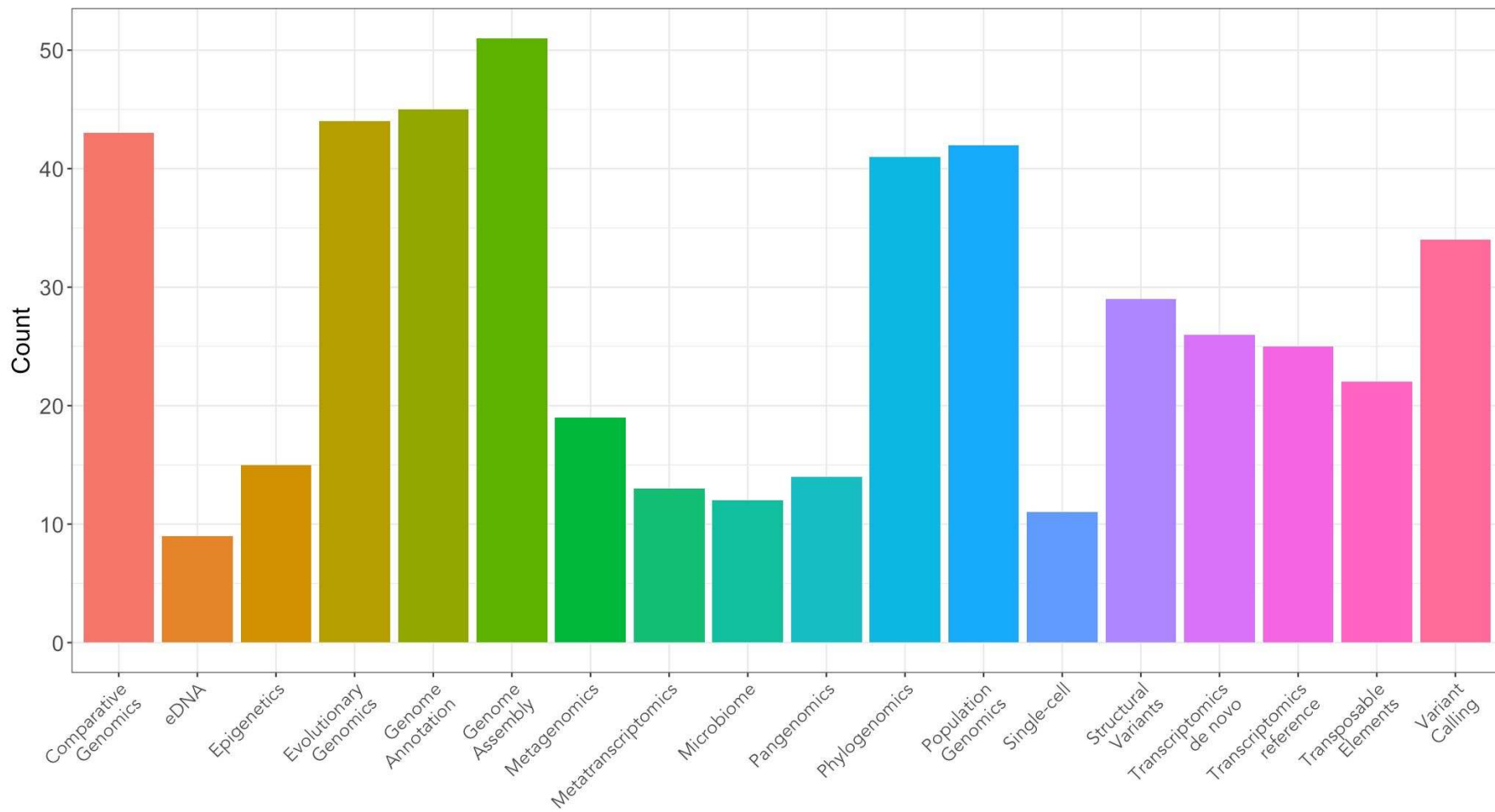


On to speed networking..

These were the slides for the group activity
2024 (that took place before the Dreams
session)

Group activities

We will split **you all** by a subset of themes:



Groups

comparative genomics	Janina, Daniel
genome annotation	Miloš, Josie
genome assembly	Mercè, Rayan
microbiome	Luis, Karthick
phylogenomics	Guy
population genomics	Joan, Josie
transcriptomics	Thea, Josie