



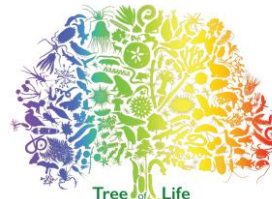
Welcome to the Biodiversity Genomics course!

Joana Meier, Karin Näsval, Nicol Rueda, Patricio Salazar
Tree of Life Programme, Wellcome Sanger Institute

THE
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Fellowship
Society in Science

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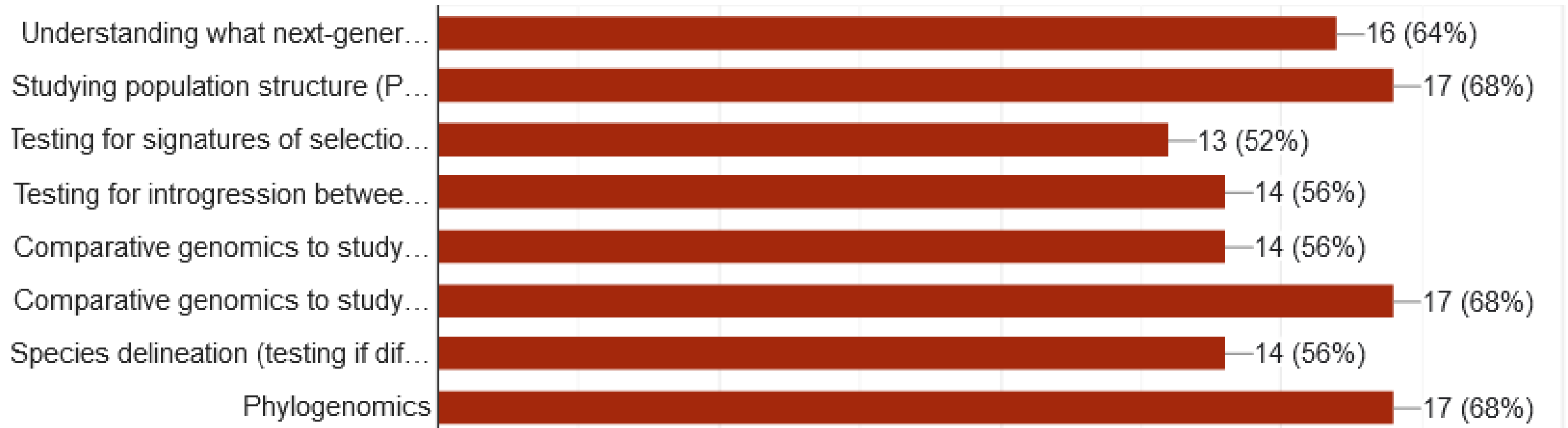


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What you wanted us to cover in the course



Basically everything we offered! We will thus give an introduction to each of these fields

Tentative schedule

- Saturday, 20 July:
 - introduction to biodiversity genomics, Linux, NGS data
 - Filtering and quality checks of Illumina data
- Sunday, 21 July:
 - Mapping reads to a reference genome
 - Variant calling and filtering vcf files
- Monday, 22 July:
 - Population structure with PCA and phylogenetics
 - Genome scans to identify regions under selection
- Tuesday, 23 July:
 - Genome scans to identify introgressed regions
 - Comparative genomics
 - Phylogenomics with reference genomes
- Wednesday, 24 July:
 - Buffer, topics of interest & discussing own projects

Daily sessions:

- 9:00-10:30: First session (1.5 hours)
- 10:30-11:00: Coffee break (30 min)
- 11:00-12:30: Second session (1.5 hours)
- 12:30-1:30: Lunch break (1 hour)
- 1:30-3:30: Third session (2 hours)
- 3:30-4:00: Coffee break (30 min)
- 4:00-6:00: Fourth session (2 hours)

Researchers who contributed to organising this course and can help with questions about IKIAM / Tena



Dr Patricio Salazar



Franz Chandi



**Kimberly
Gavilanes**



Alex Arias



**María José
Sánchez**



**Prof Caroline
Bacquet**

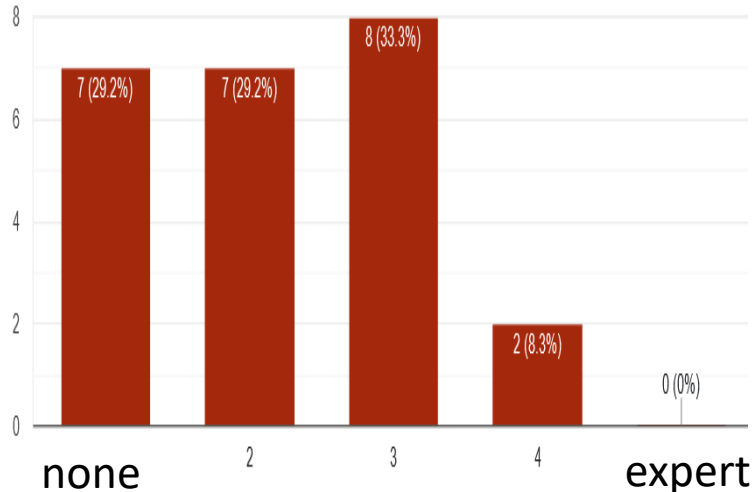
A few tips and housekeeping rules

- Be kind to each other
- Sexism, racism, or any other kind of unfair behaviour is not tolerated. Please let me, Patricio, Nicol or Karin know if you experience or see anything like this.
- To ask questions, please raise your hand. Questions are very much encouraged. If you do not understand something, just ask!
- If you are struggling to follow an exercise or need help, put the red card visible on your desk and someone will come to help you.
- Please arrive on time.

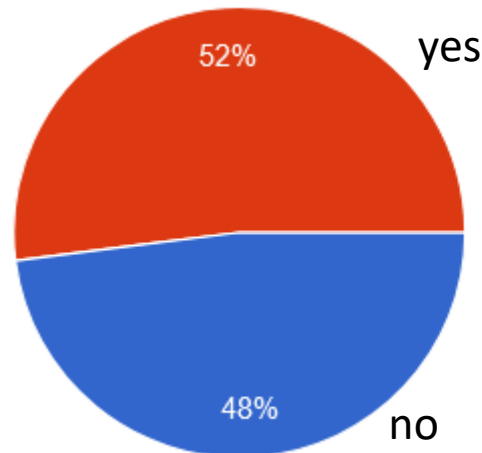
We are a very diverse group, which is great!

- Always feel free to ask questions at any time. It is likely that at least one other person is sooo happy that you asked.
- Our diversity is a big advantage. Let's learn from each other!

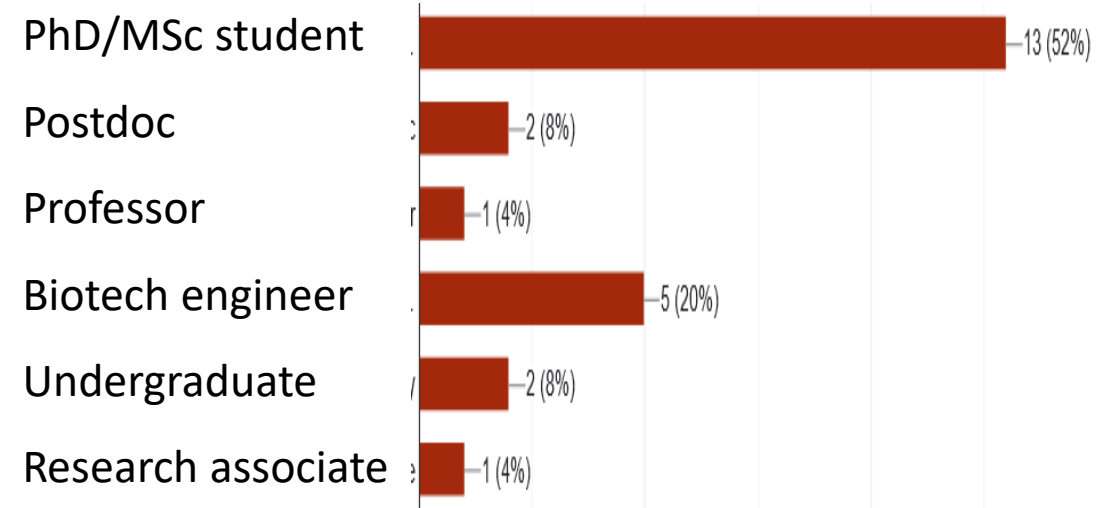
Linux experience



Prior experience with NGS data



Current academic level/job



Joana Meier

- Swiss, but born in Peru and childhood in Ecuador
- PhD at the University of Bern in Switzerland
- Postdoc at the University of Cambridge in the UK
 - St John's College Fellowship
 - Branco Weiss Fellowship
- Group leader and Royal Society Research Fellow at the Wellcome Sanger Institute in the UK

My wonderful team members

@Sanger



Arif Maulana
PhD Student



Dr Karin Näsvall
Postdoctoral Fellow



Dr Nicol Rueda
Postdoctoral Fellow



Dr Patricio A.
Salazar-Carrión
Postdoctoral Fellow



Jonah Walker
PhD Student



Eva van der
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in Ecuador



Franz Chandi



Kimberly
Gavilanes



Alex Arias



María José
Sánchez

and key
collabo-
rator



Prof Caroline Bacquet