



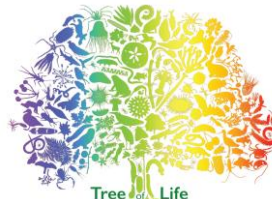
Welcome to the Biodiversity Genomics course!

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

THE
ROYAL
SOCIETY

The
Branco Weiss
Fellowship
Society in Science

W
wellcome

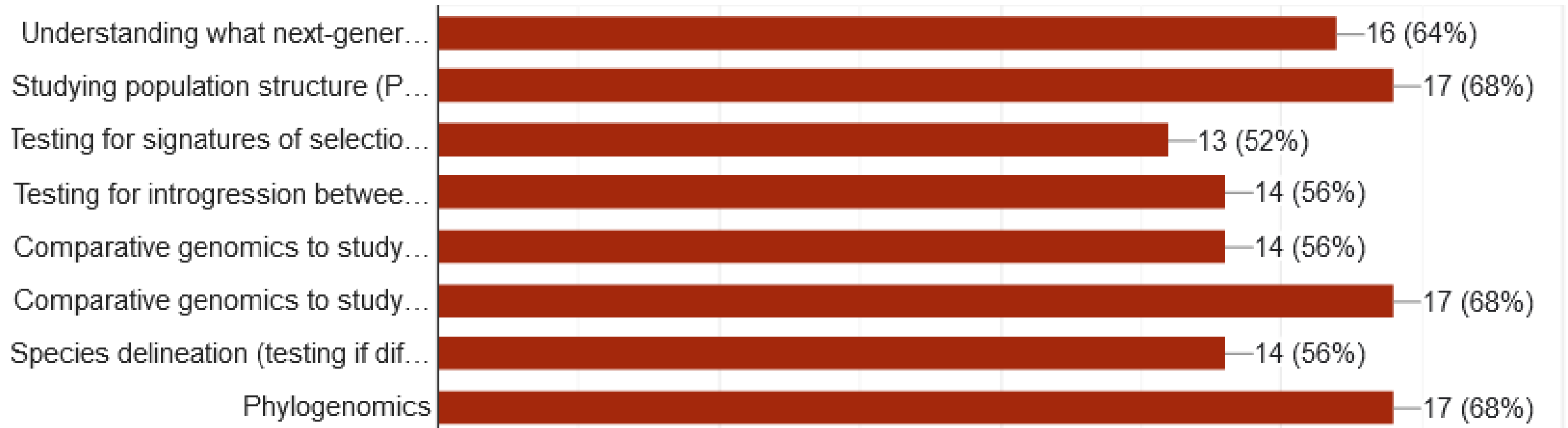


wellcome
sanger
institute



UNIVERSITY OF
CAMBRIDGE

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

Lead organiser



Franz Chandi

**Chief of
lunch breaks**



**Kimberly
Gavilanes**

**Chief of coffee
breaks
& facilities**



Alex Arias

**Chief of class
room
infrastructure**



**María José
Sánchez**

**Jack of all
trades**



**Prof Caroline
Bacquet**

Key facilitator

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 green card visible on your desk and someone will come to help you.
- Please arrive on time.

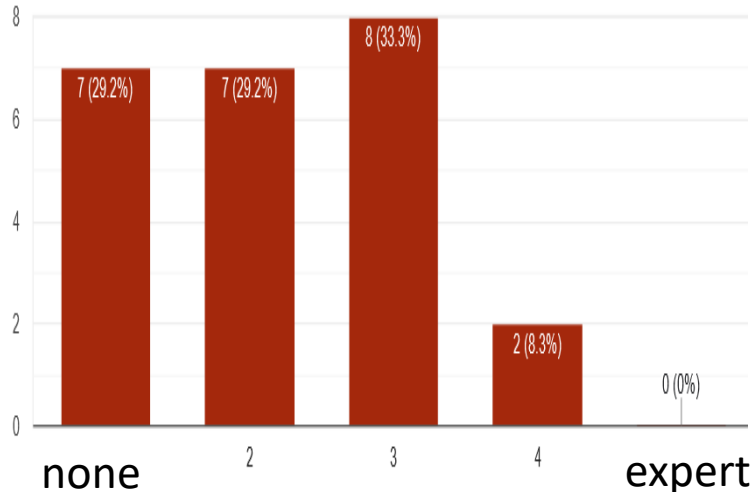
Where to get help

- All course materials (including slide presentations) can be found here:
http://github.com/rapidspeciation/biodiversity_genomics_course

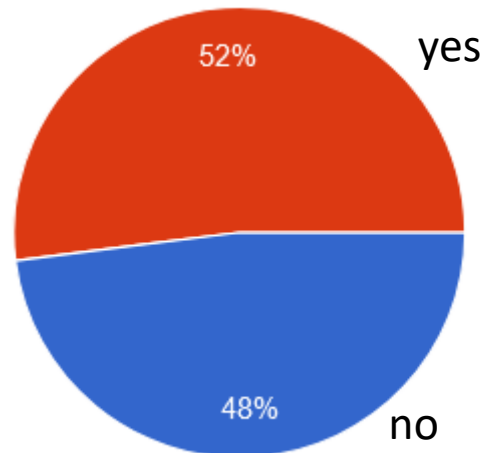
We are a very diverse group, which is great!

- 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!

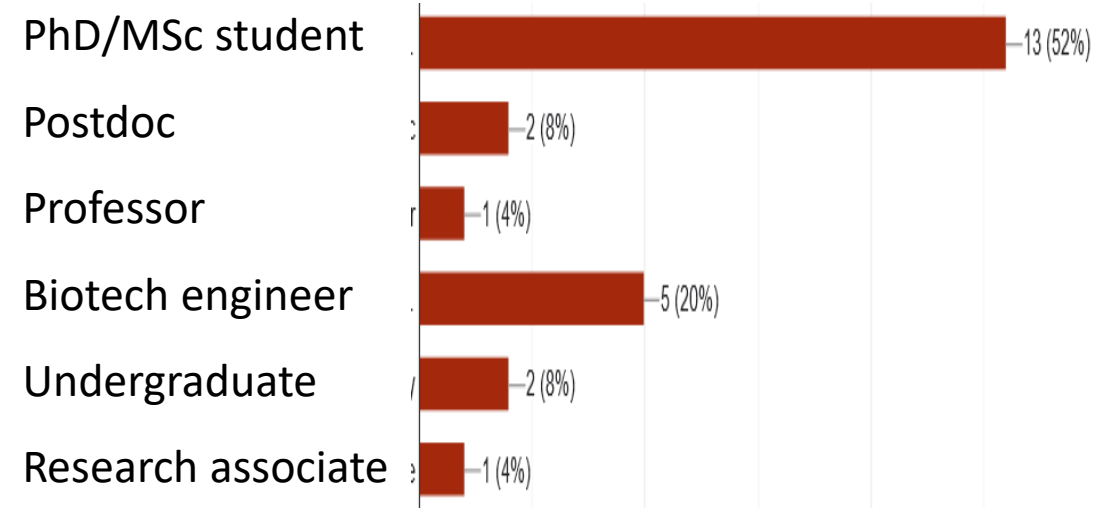
Linux experience



Prior experience with NGS data



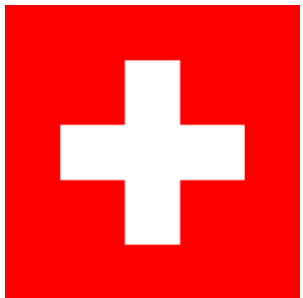
Current academic level/job



**Please, introduce yourself with your
name and if you wish also your country,
study organism or research question**

Joana Meier

Childhood



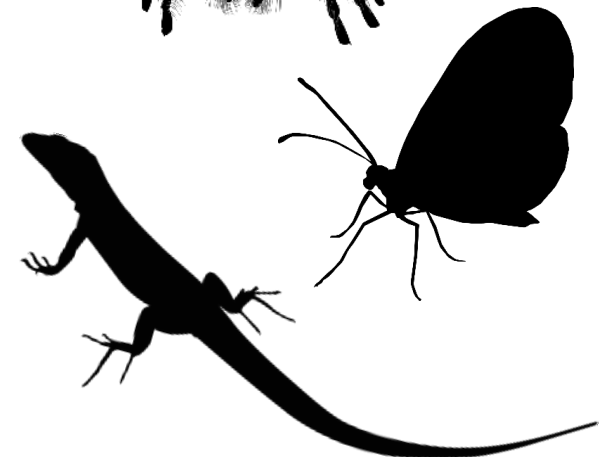
**PhD on cichlid fish
Speciation in Bern,
Switzerland**



**Postdoc at the
University of
Cambridge, UK**



**Group leader at the
Wellcome Sanger
Institute**



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
Heijden
PhD student

@IKIAM
in Ecuador



Franz Chandi



Kimberly
Gavilanes



Alex Arias



María José
Sánchez

and key
collabo-
rator



Prof Caroline Bacquet