





Welcome to the Biodiversity Genomics course!

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



The Branco Weiss Fellowship Society in Science

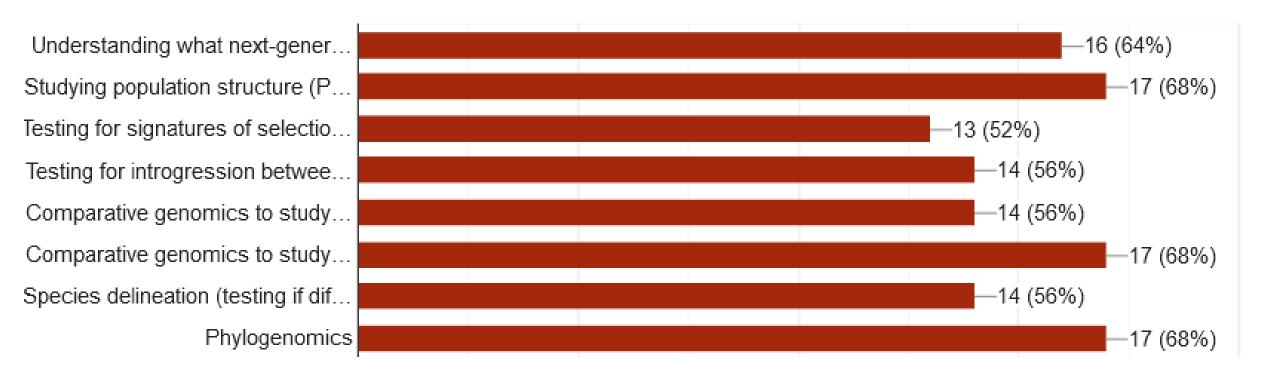








What you wanted us to cover in the course



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

Lead organiser

Chief of lunch breaks

Chief of coffee breaks & facilities

Chief of class room infrastructure

Jack of all trades

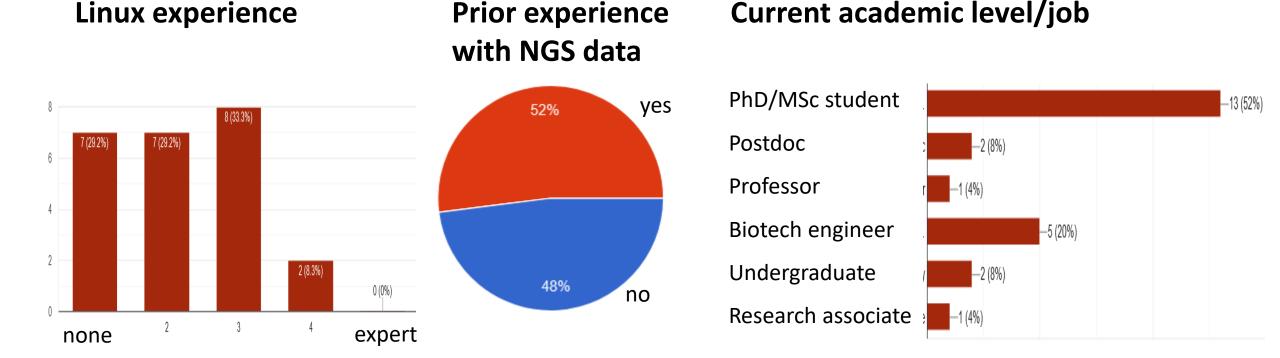
Key facilitator

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 struggle with something, put the green card on your desk and someone will come to help you.
- All course materials (including slides) can be found here:
 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!



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

Joana Meier

Childhood





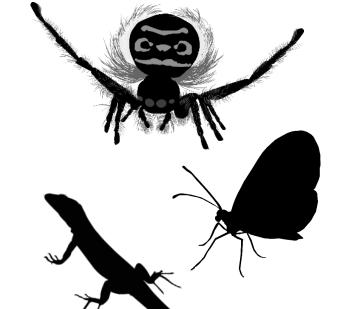
PhD on cichlid fish Speciation in Bern, Switzerland







Group leader at the Wellcome Sanger Institute



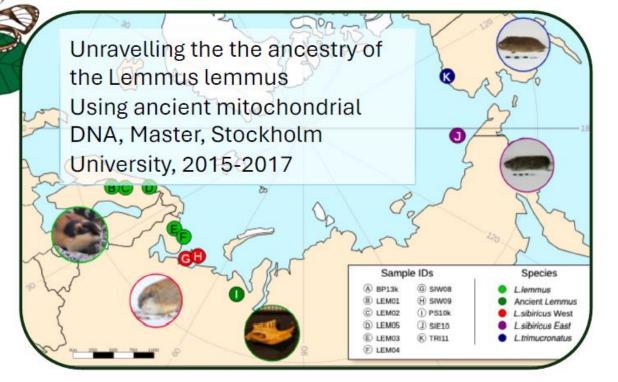


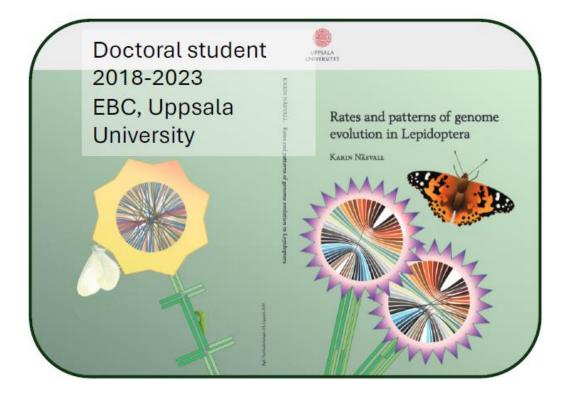


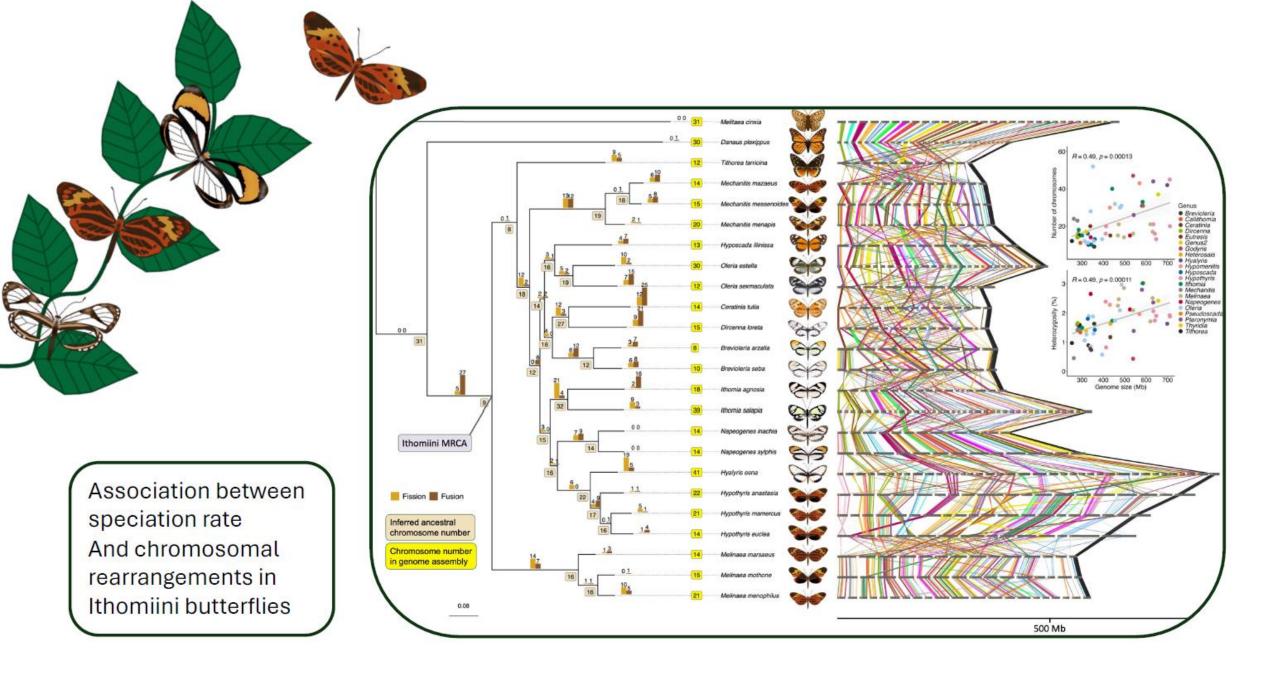


Karin Näsvall, PhD

Postdoctoral fellow Rapid speciation group, Tree of Life Wellcome Sanger Institute, UK







Nicol Rueda

Colombia

- BSc in Biology Colombia
- Master in Species Conservation in trade (CITES)
 Universidad Internacional de Andalucia Spain
- Master of Science in Biology Universidad Nacional de Colombia
- PhD candidate in Biology
 Universidad del Rosario Colombia

Master of science in Biology



Population monitoring for 7 months in two forests of different conservation status.

Capture-Mark-recapture technique

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Ciencias Naturales

Drivers of diversification in *Heliconius*, with special focus on the *sara/sapho* clade

