

Participant Introduction

Hanin Ahmed

PhD student

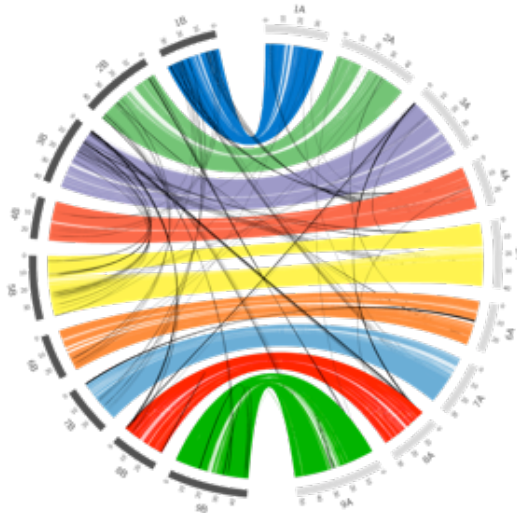
Simon Krattinger's Lab

<https://cerealgenomics.kaust.edu.sa>

Thuwal, Saudi Arabia

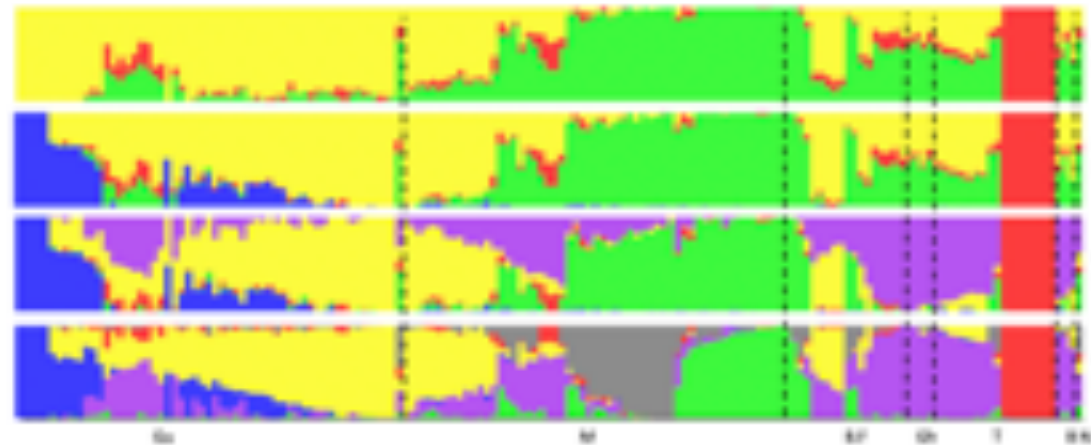
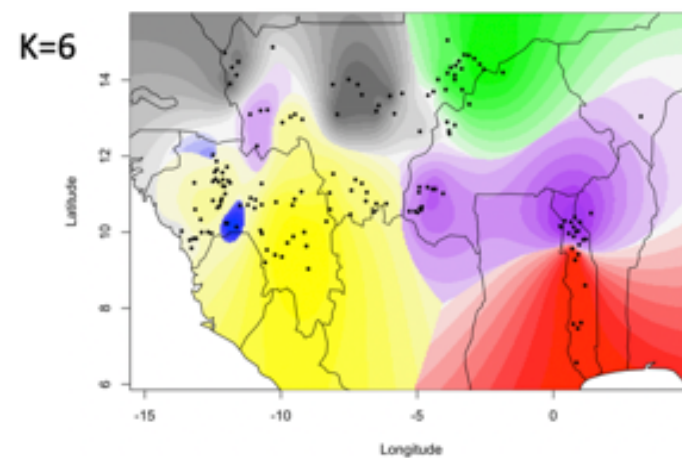


High quality reference genome of
Fonio millet (*Digitaria exilis*)



Whole genome re-sequencing data of Fonio millet

- Genetic diversity and structure
- Is fonio a domesticated species?



Genomic resources are the basis that will allow
us to advance the crop improvement



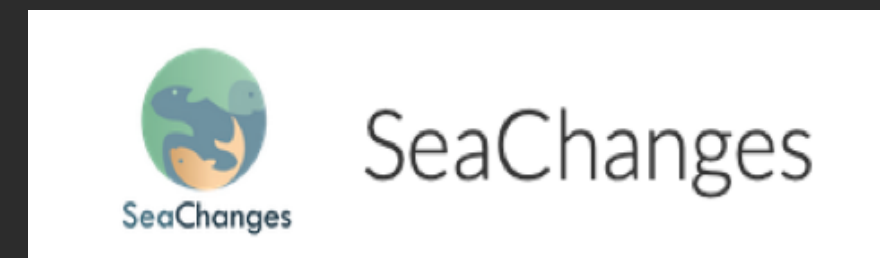
Lane Atmore
PhD Candidate
University of Oslo



Current research:
Tracing early origins of Atlantic herring exploitation
using ancient DNA and marine historical ecology

Academic Interests:
Genomics, population genetics, marine biology,
human evolution and culture

Background:
B.A. in anthropology and Chinese
Grinnell College, USA
MPhil in applied biological anthropology
University of Cambridge



Adaptive responses in coexisting three-spined and nine-spined stickleback

Thijs M.P. Bal, PhD candidate
Nord University
Bodø, Norway
[@Thijs_MP_Bal](#)

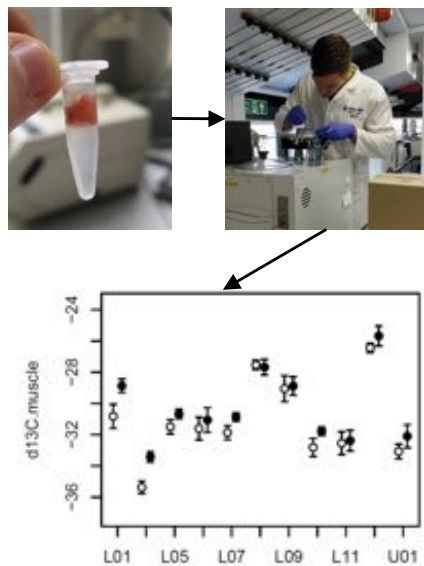
Environmental conditions



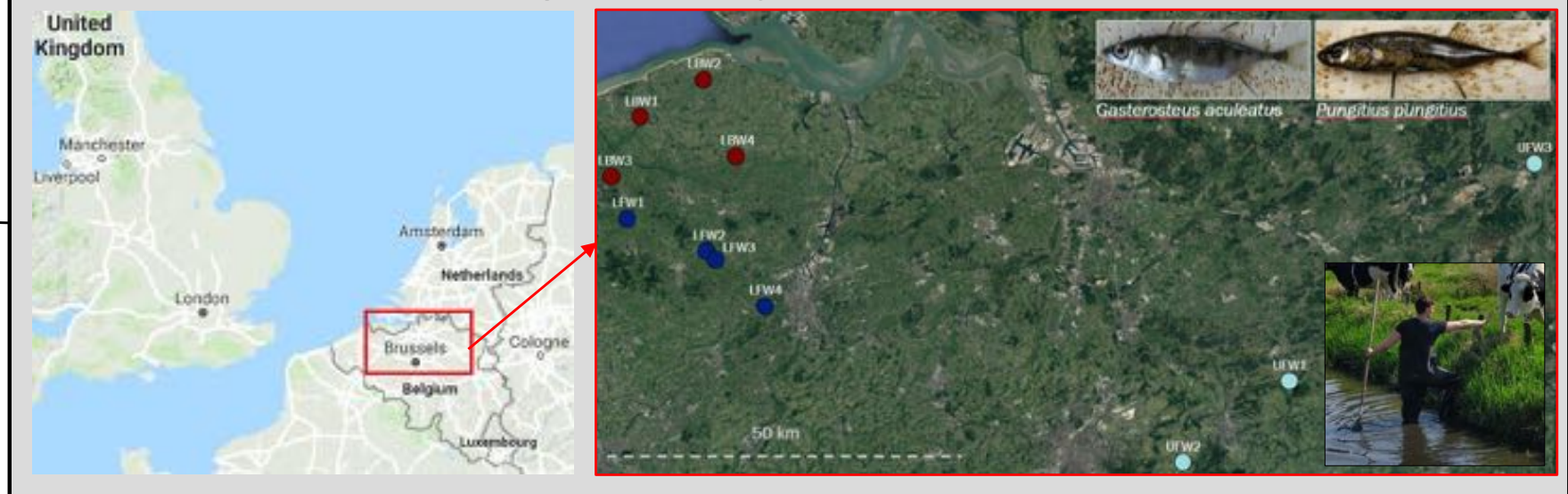
Morphological divergence



Ecological divergence



The study area in Belgium and the Netherlands



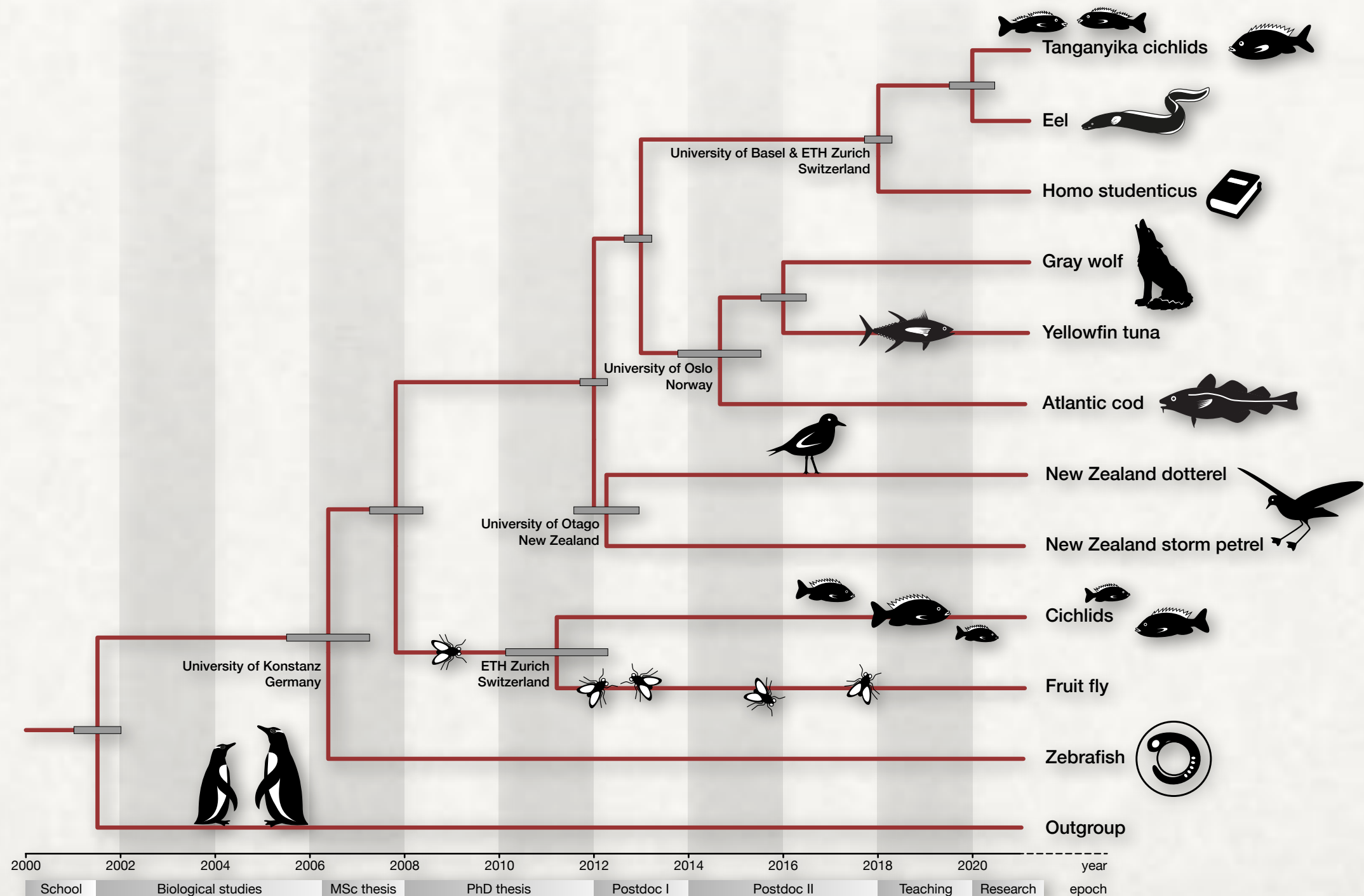
Genomics of local adaptation



JULIA M.I. BARTH

University of Basel, Switzerland

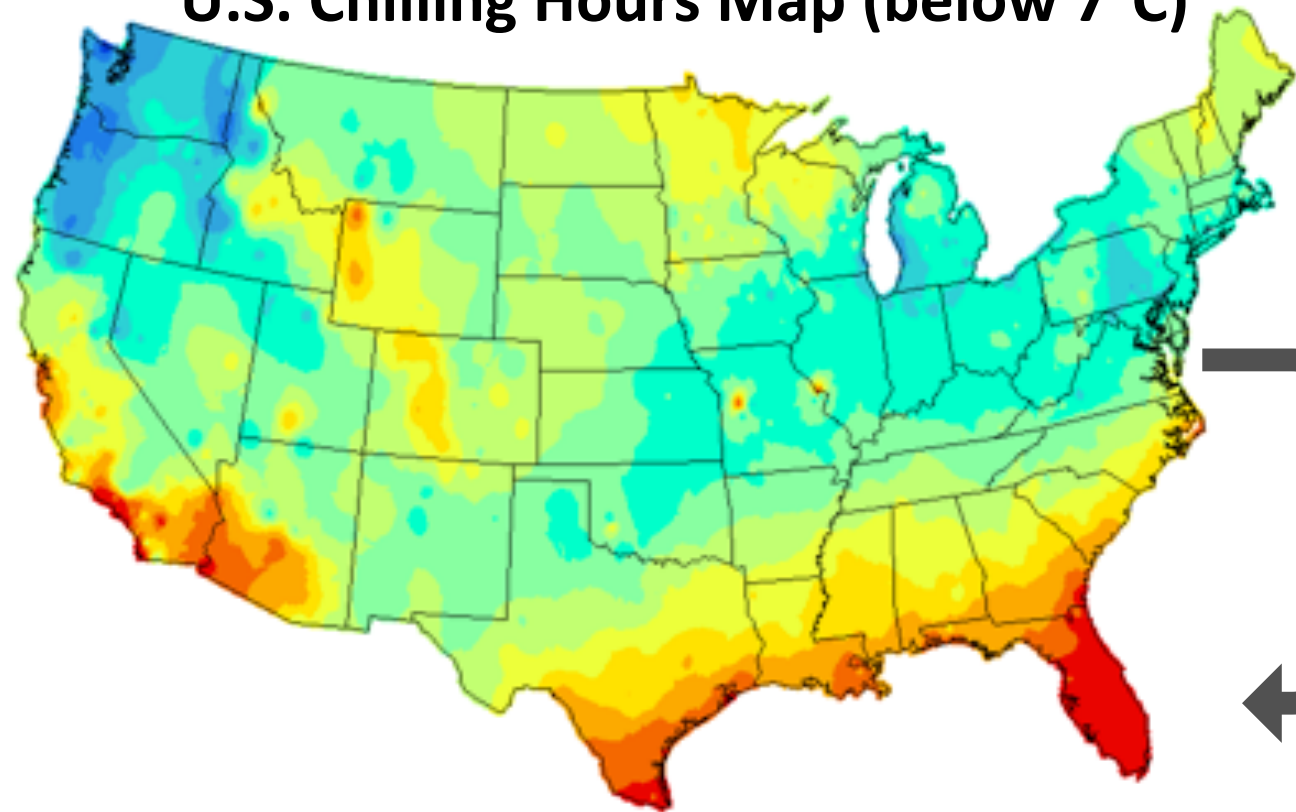
www.zebrafin.ch



The blueberry domestication history: diversity, introgression, and signatures of selection

PhD. Juliana Benevenuto
Postdoc Associate

U.S. Chilling Hours Map (below 7°C)



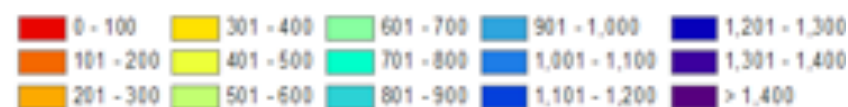
Northern Highbush Blueberry
Vaccinium corymbosum



Southern Highbush Blueberry
Vaccinium spp.



Interspecific hybridization with
Florida native species



Source: <https://mrcc.illinois.edu/VIP/indexChillHours.html>

Blueberry
BREEDING PROGRAM

UF UNIVERSITY of
FLORIDA



Semyon Bodrov

Molecular systematics of mammals dept.

Zoologycal Institute of Russian academy of sciences

Saint-Petersburg, Russia



Olga Bondareva, PhD student



*Molecular systematics of mammals dept.
Zoological Institute of Russian academy of sciences
Saint-Petersburg, Russia*

Key words: underground rodents, adaptations, molecular evolution, underground lifestyle, Arvicolinae subfamily



Me



Underground rodent *Ellobius talpinus*



MAX-PLANCK-GESELLSCHAFT

Andrea Borbón

PhD. Student

Department of Microbiome Science
Max Planck Institute for Developmental Biology
Tübingen, Germany



LEY LAB

Background:

MSc. Microbiology / Computational biology
Gut microbiome of Andean bears



shutterstock.com • 650966575



Current project:



Co-diversification of mammalian
hosts and their gut microbiomes



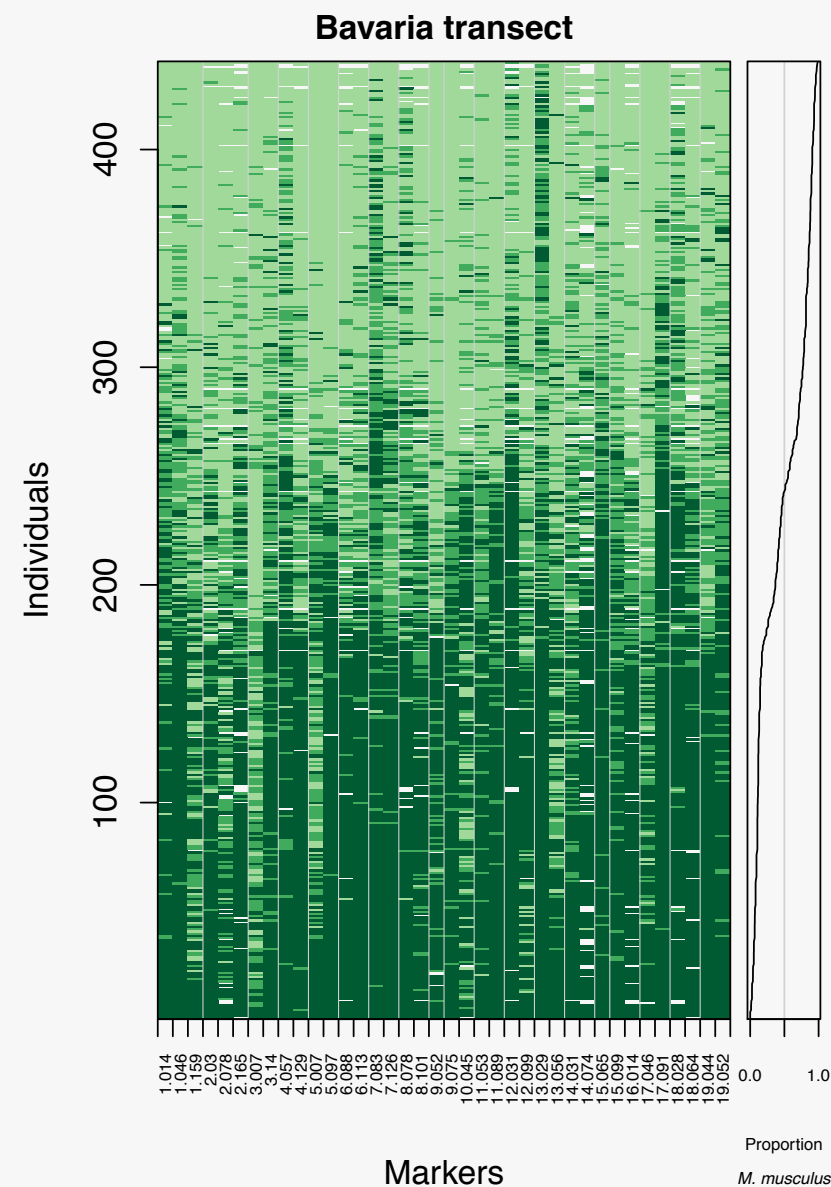
TLR5 and bacterial flagellin



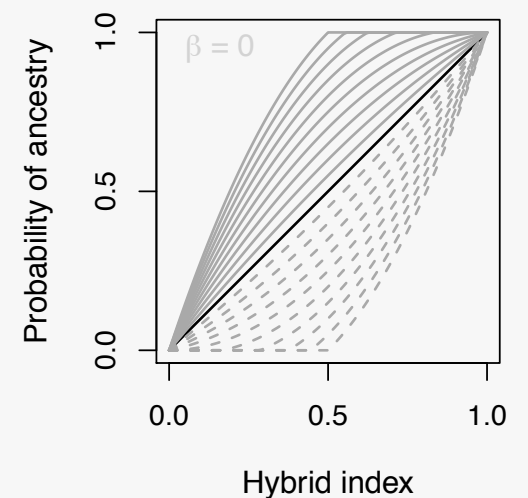
Andrea Bours, Doctoral Researcher
Max Planck Research Group for Behavioural Genomics
(Group Leader: Dr. M. Liedvogel)

(Statistical) models for hybridization and speciation

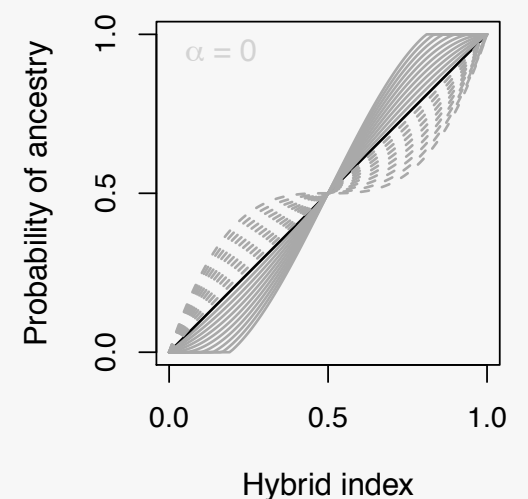
Alex Buerkle – University of Wyoming, USA



Genomic cline center $\alpha_i = -1 \dots 1$



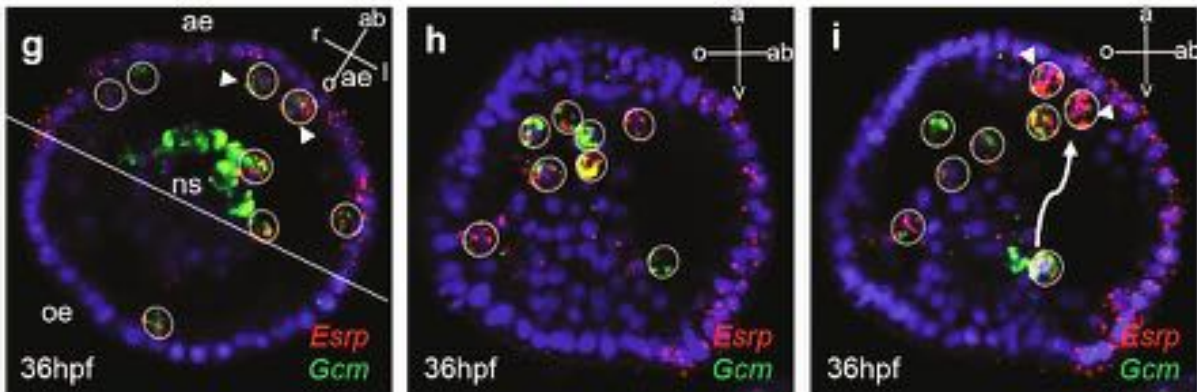
Genomic cline rate $\beta_i = -1 \dots 1$



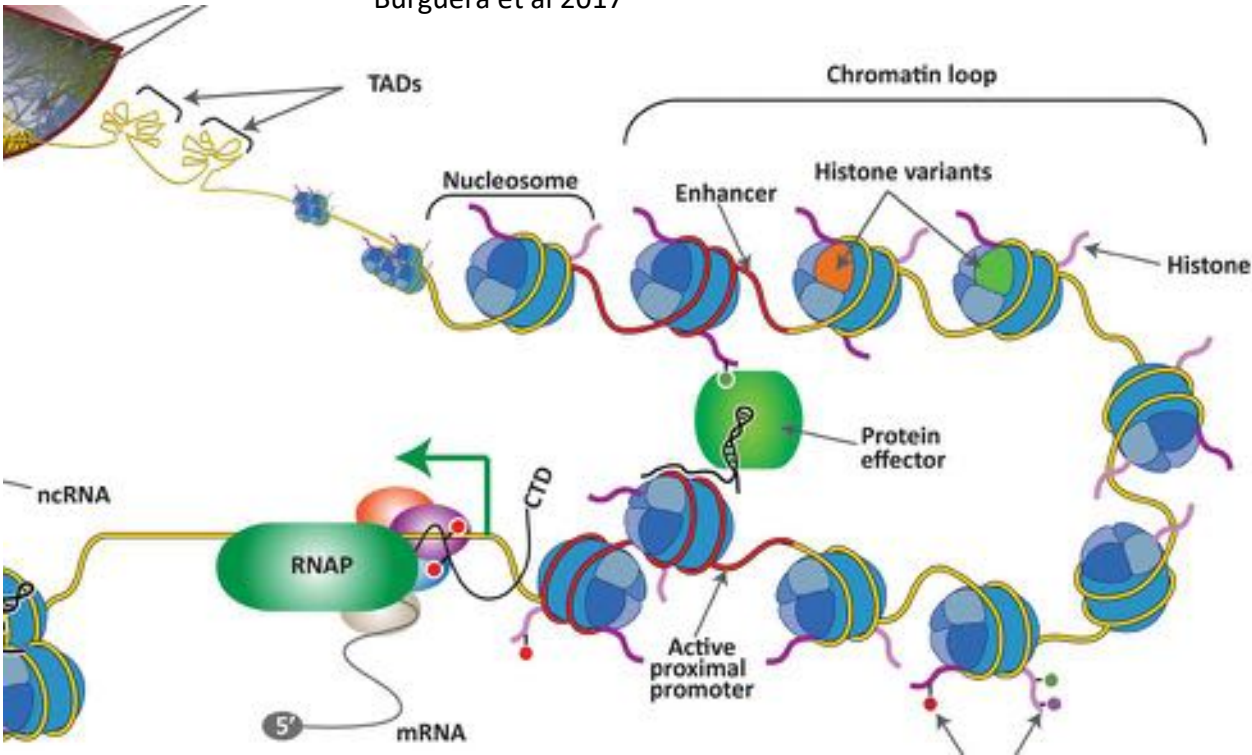
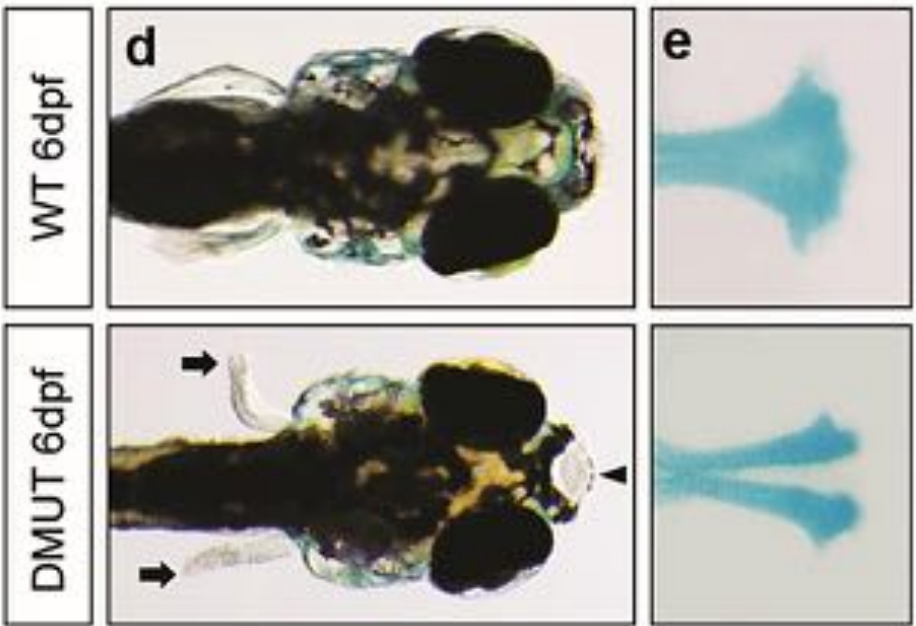
Demian Burguera
 Fish Evolution Group
 Charles University
 in Prague



Aranda et al 2015

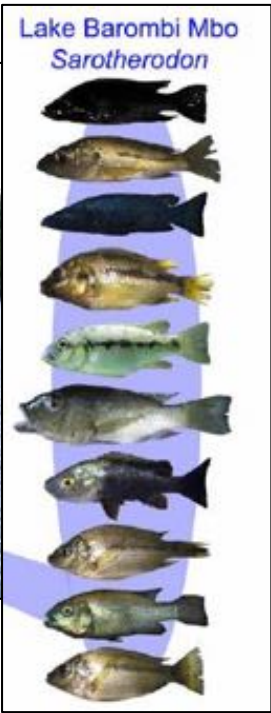


Burguera et al 2017

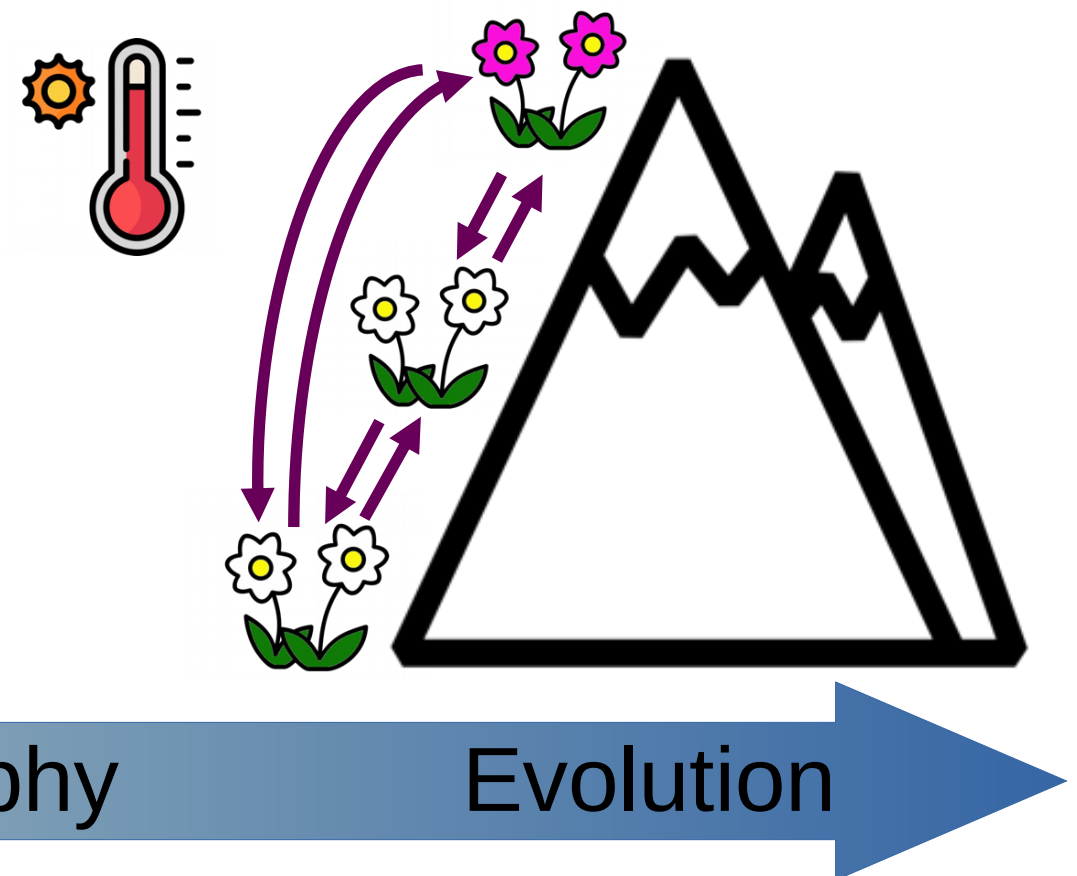
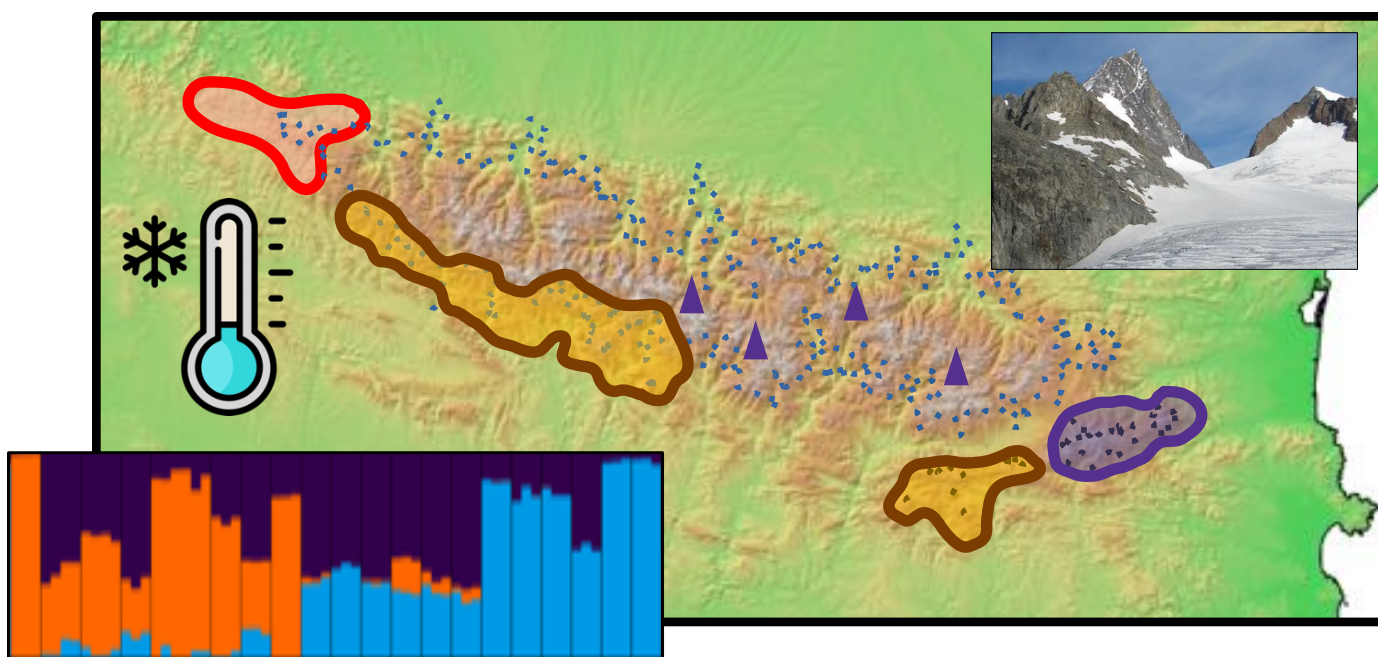


Barombi Mbo
 Cameroon

Adapted from Martin et al 2015



Alpine plant populations under environmental change

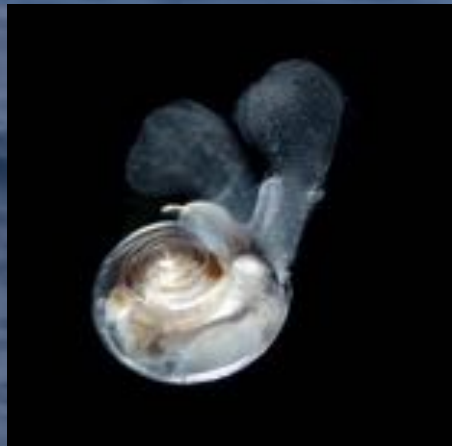
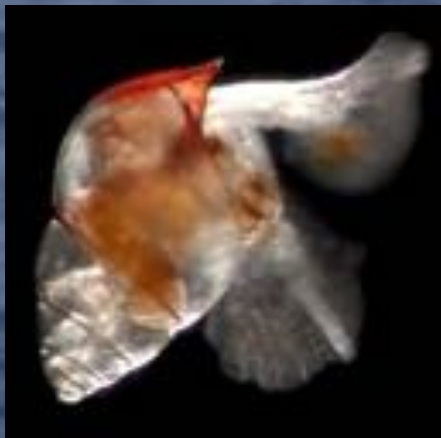


Phylogeography

Demography

Evolution

- Pteropods (shelled planktonic gastropods)
- Population structure and dispersal in global oceans
- Apply population genomics analyses to target capture dataset
 - high coverage SNPs
 - homologous regions





香港大學
THE UNIVERSITY OF HONG KONG



Impact from mercy release of Hybrid grouper/ Sabah grouper (Tiger grouper, *Epinephelus fuscoguttatus* x giant grouper, *E. lanceolatus*) Arthur Y.C. Chung, Mphil student

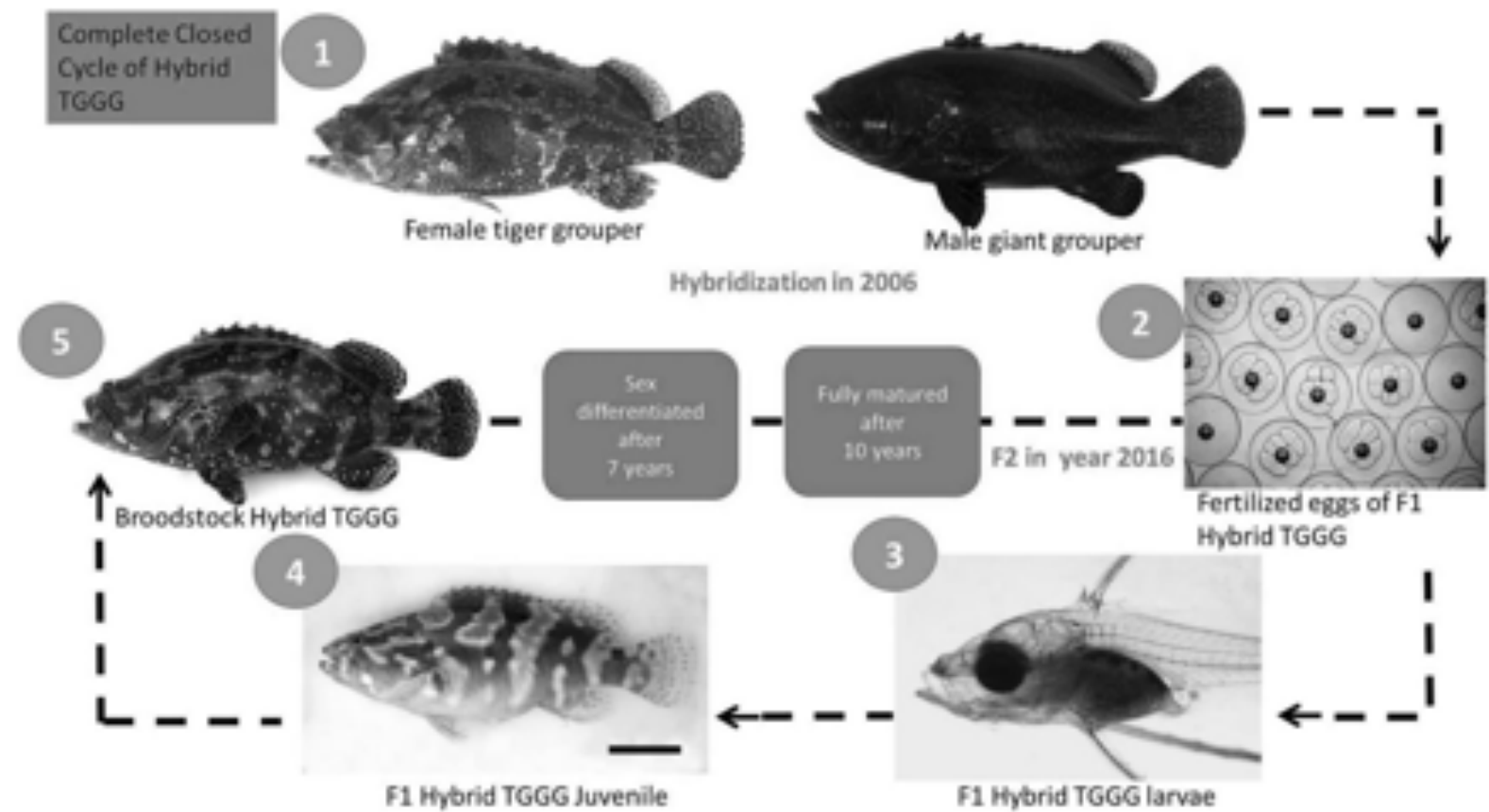


Fig. 1 Complete closed cycle of hybrid tiger grouper, *Epinephelus fuscoguttatus* × giant grouper, *E. lanceolatus* (TGGG)

Ching, F. F., Othman, N., Anuar, A., Shapawi, R., & Senoo, S. (2018). Natural spawning, embryonic and larval development of F2 hybrid grouper, tiger grouper *Epinephelus fuscoguttatus* × giant grouper *E. lanceolatus*. *International Aquatic Research*, 10(4), 391-402.

Claudia Ciotir, PhD, University of Haifa Israel

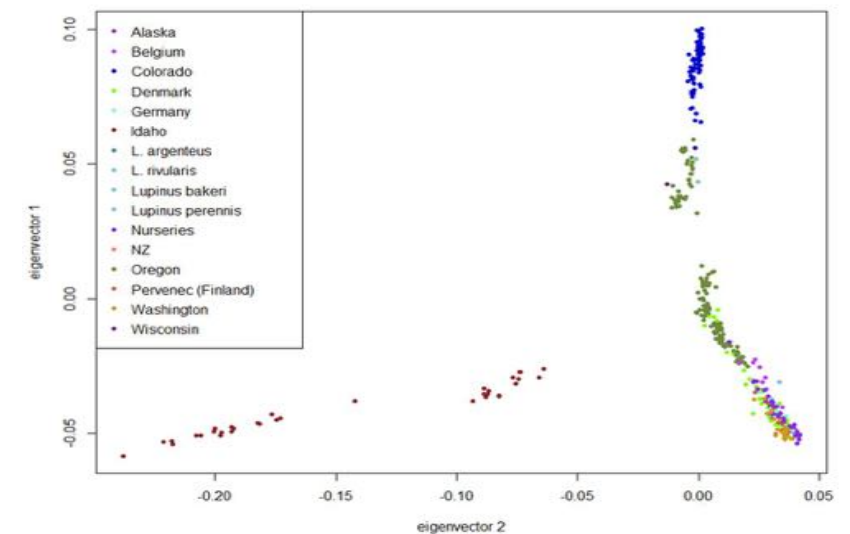
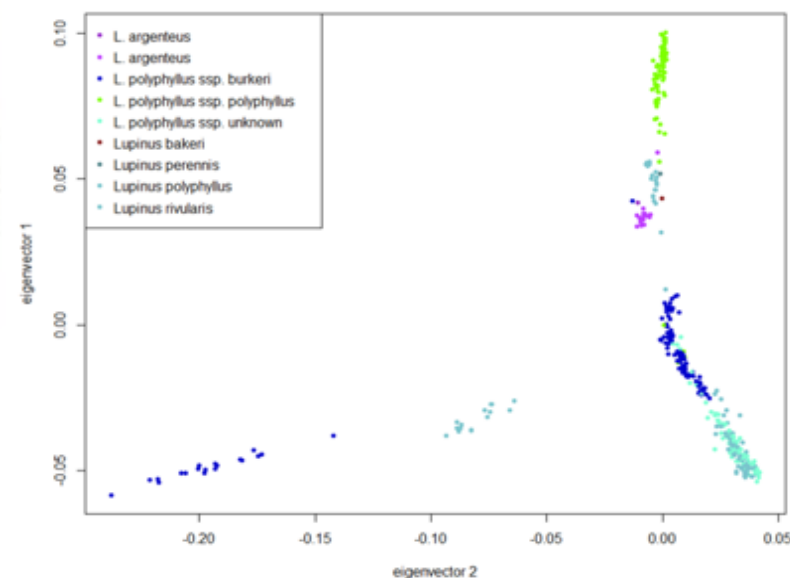
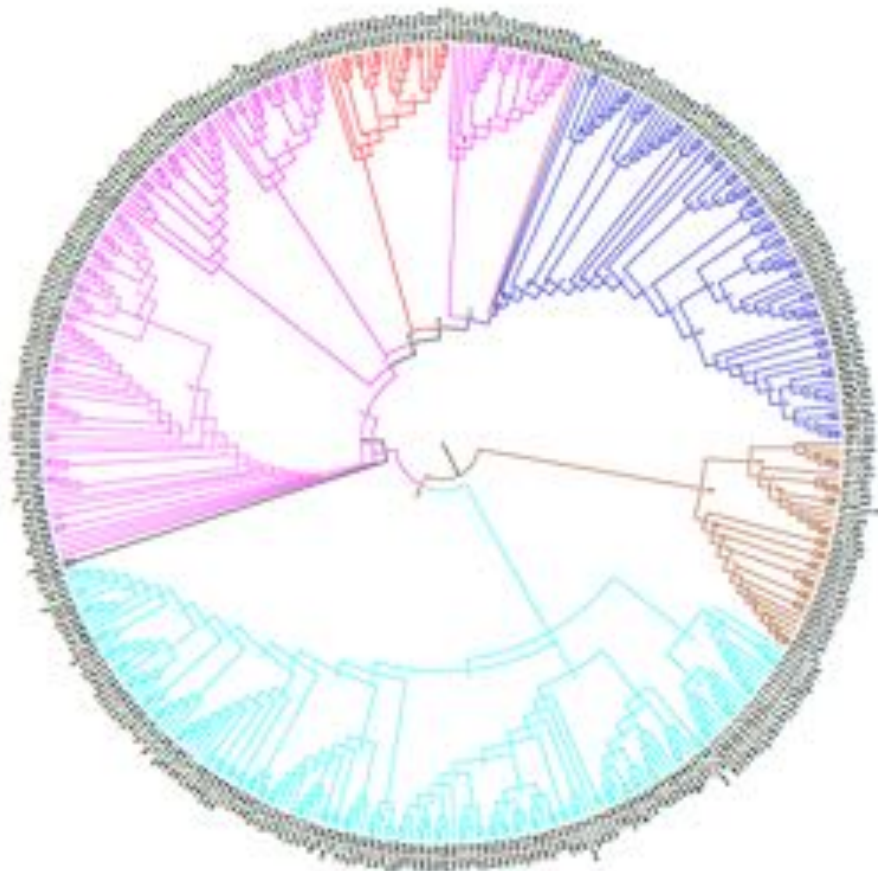
Evolutionary history of Washington Lupine, *Lupinus polyphyllus*

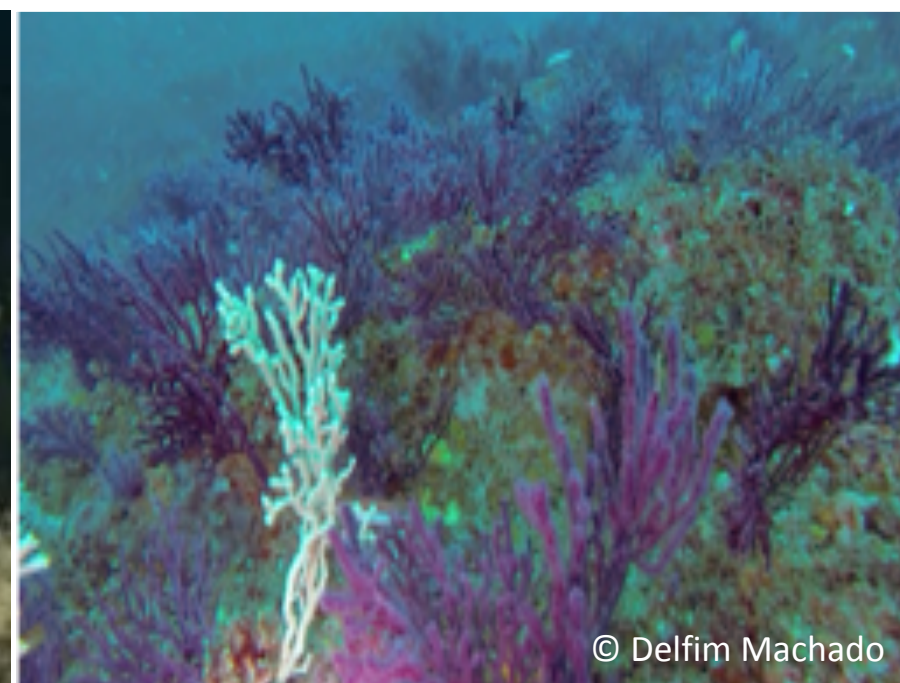


**Washington lupine
Natural populations**



**Russell Lupine, ornamental and feral
populations**

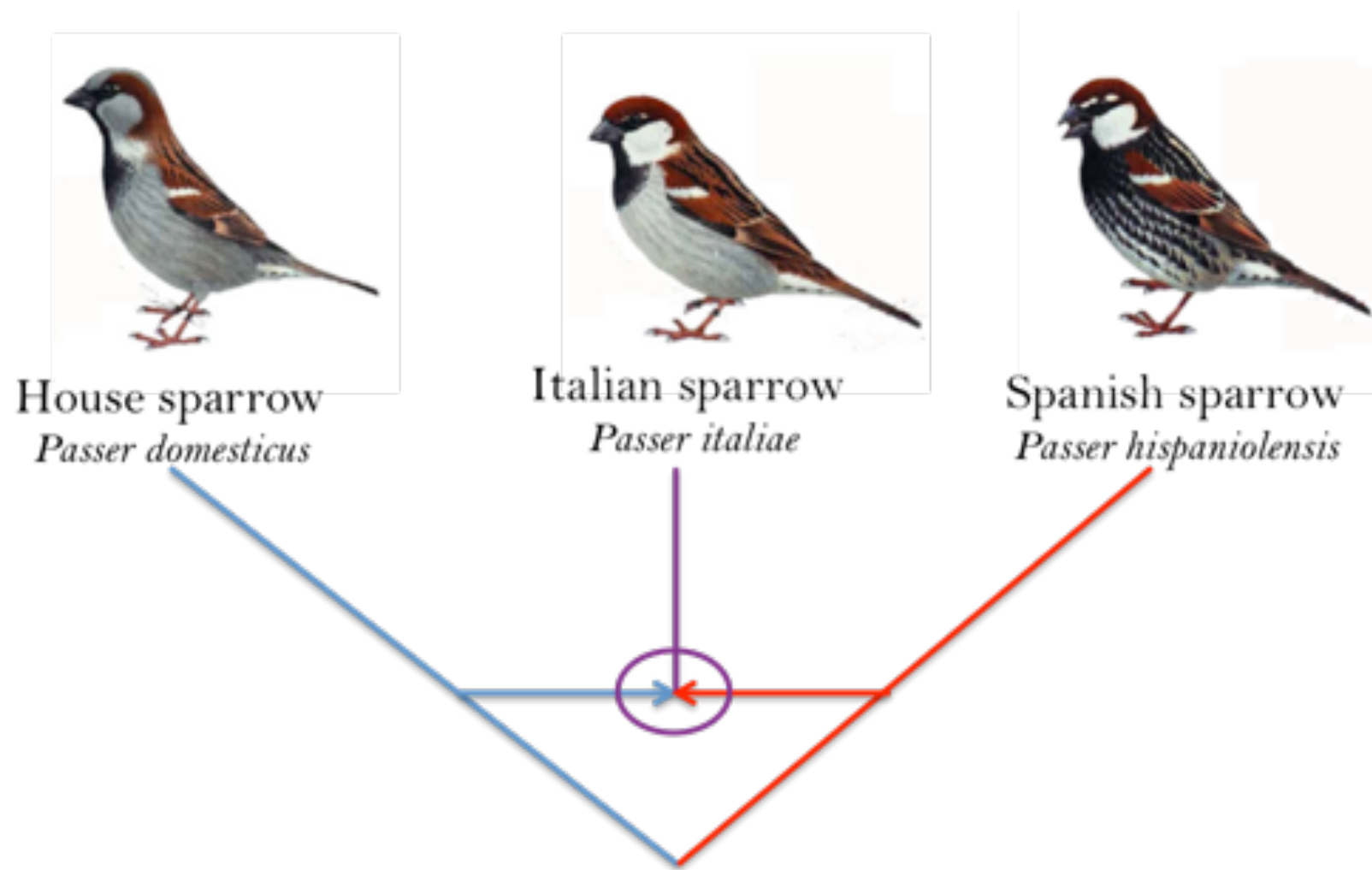




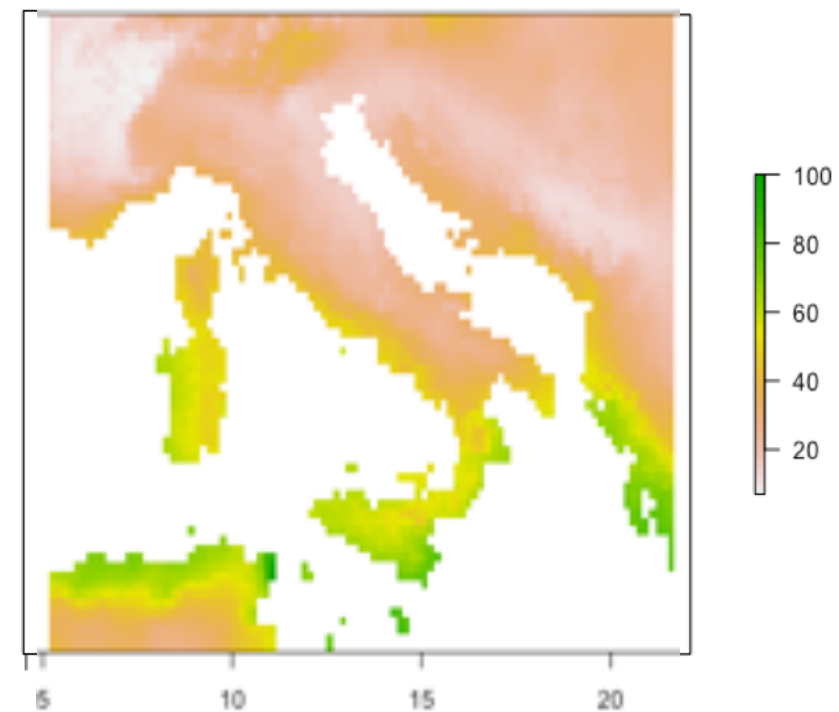
Márcio Coelho

Postdoc, Centre of Marine Sciences - University of Algarve

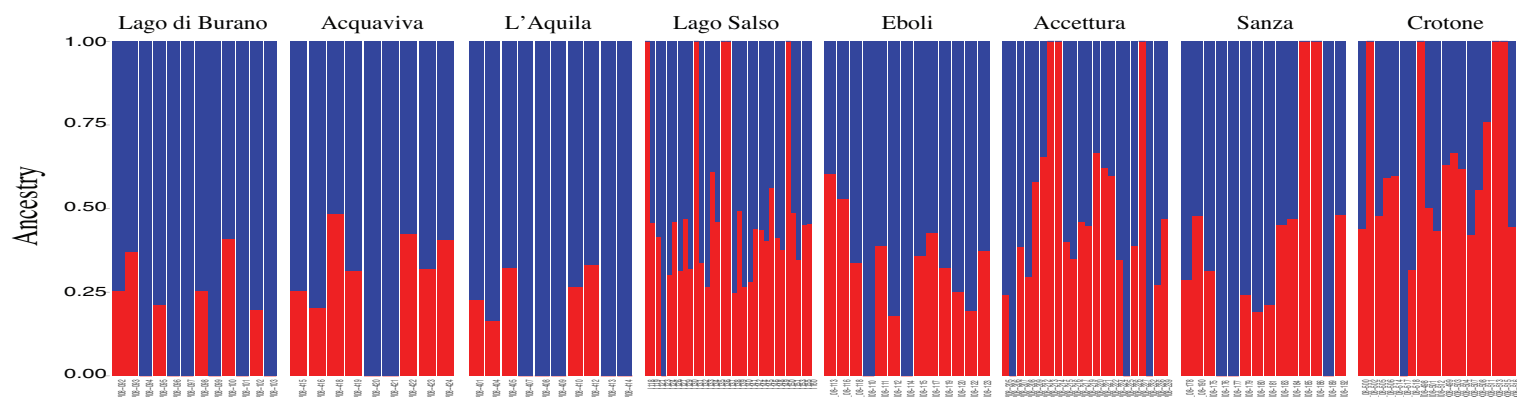
The genomic architecture of a hybrid species and its adaptive potential



Population structure and
isolation by adaptation



Genomic landscape of population divergence



Angélica Cuevas
PhD candidate



Laura Cuypers

PhD student

Evolutionary Ecology Group
University of Antwerp

Promotors:

Herwig Leirs

Joëlle Goüy de Bellocq

Stuart J.E. Baird



Mastomys natalensis hybrid zones
shaping arenavirus distribution

GABRIEL DAVID

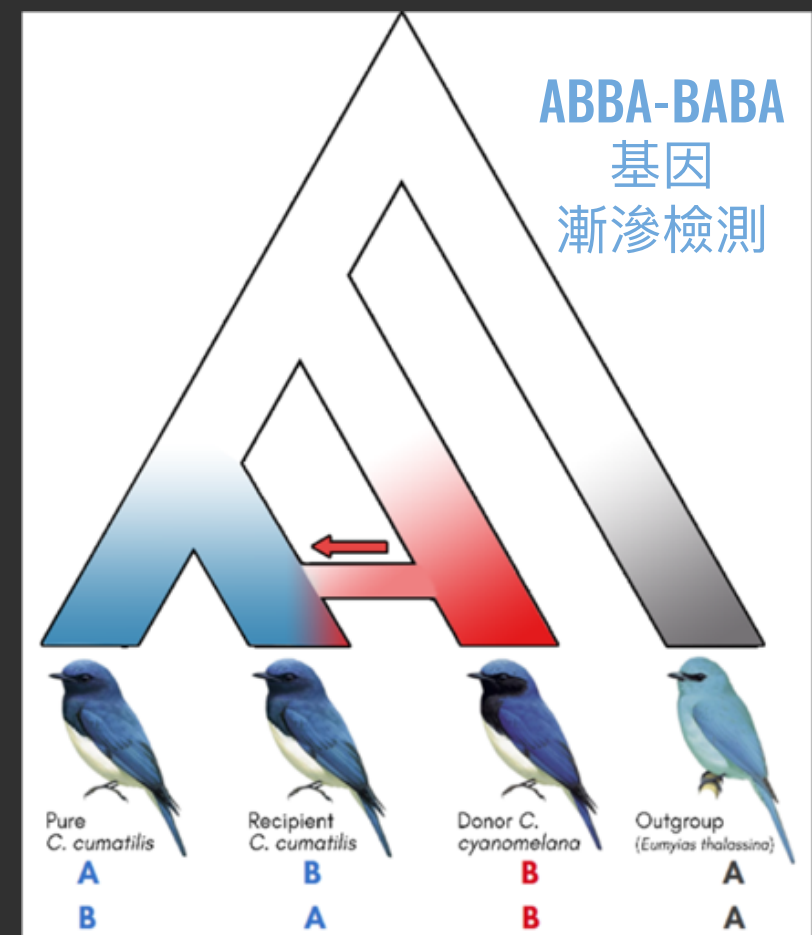
Evolutionary Biology, Husby Group
Uppsala University | gabriel.david@ebc.uu.se



Adaptive Structural Variants and Demography of Norwegian House Sparrows



Phylogeography and Population Genomics of *Cyanoptila* Flycatchers in East Asia





Landscape and Evolutionary Genetics Lab

1. Species adaptive response to environmental change
2. Landscape and climatic effects on genetic connectivity
3. Host-parasite coevolution, speciation and hybridization



What?

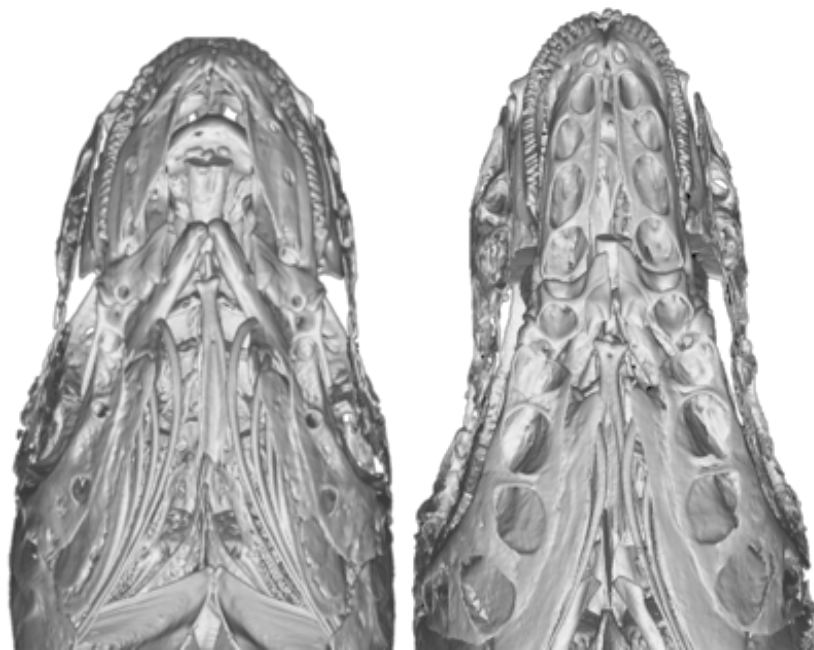
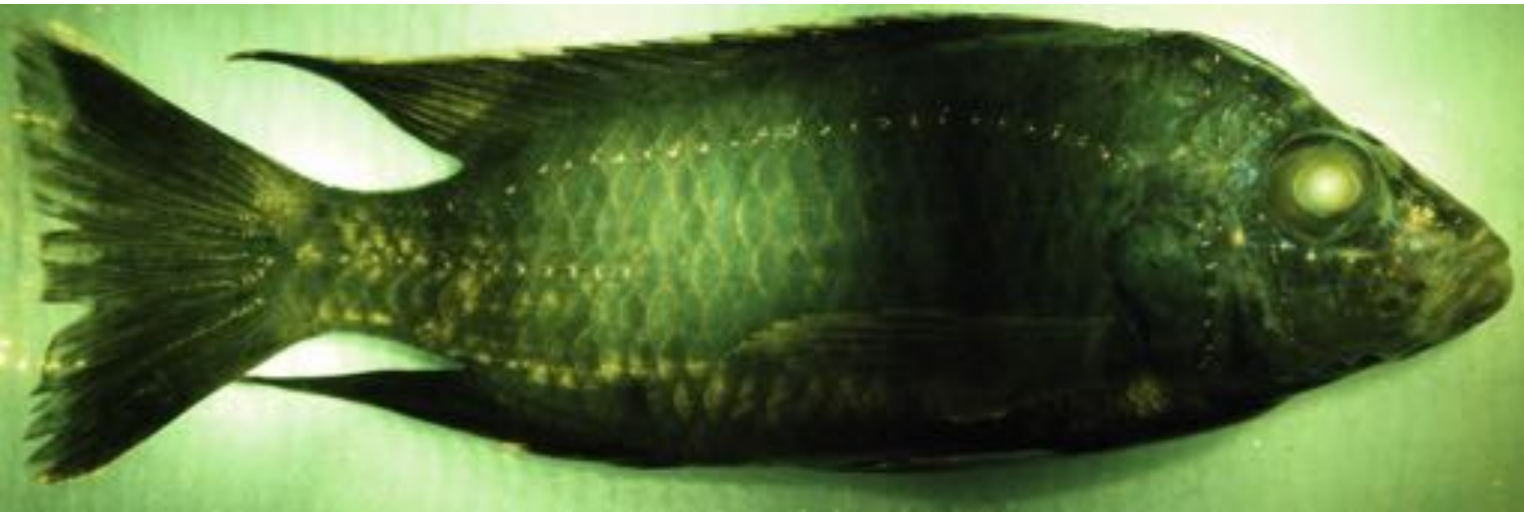
- Damselflies
- Grasshoppers
- Bumblebees
- Darwin's finches + parasitic flies

How?

- RADseq
- RNAseq
- WGS

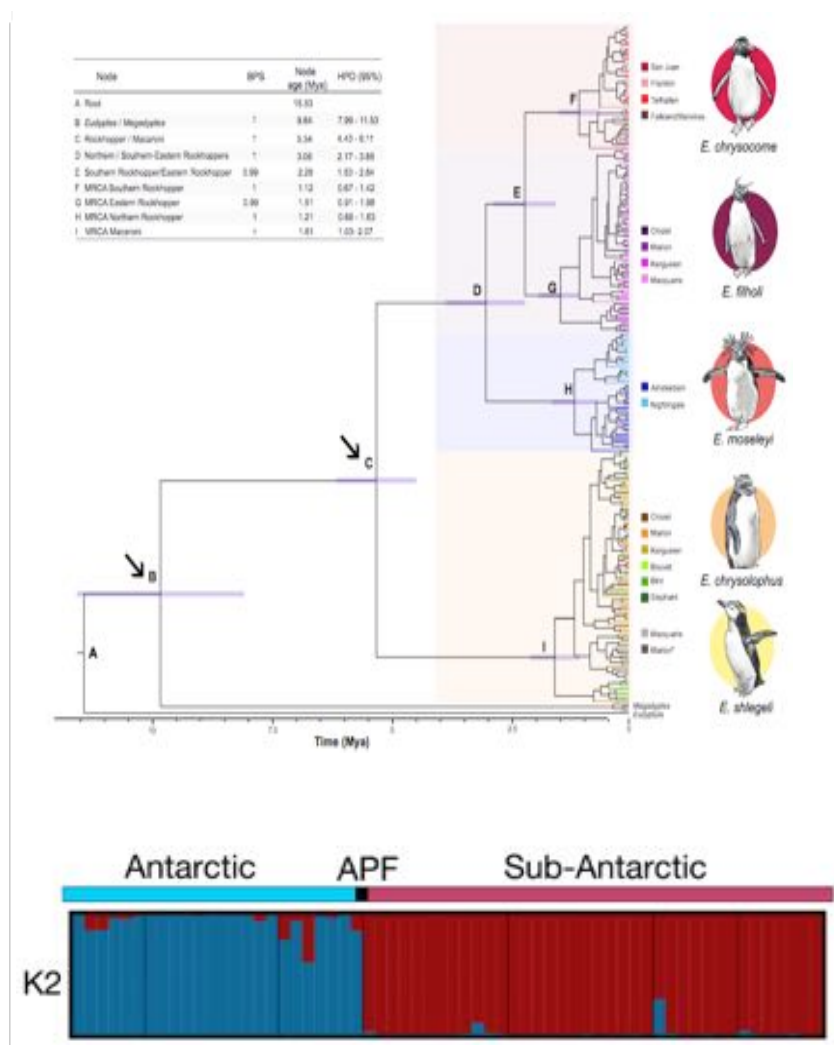
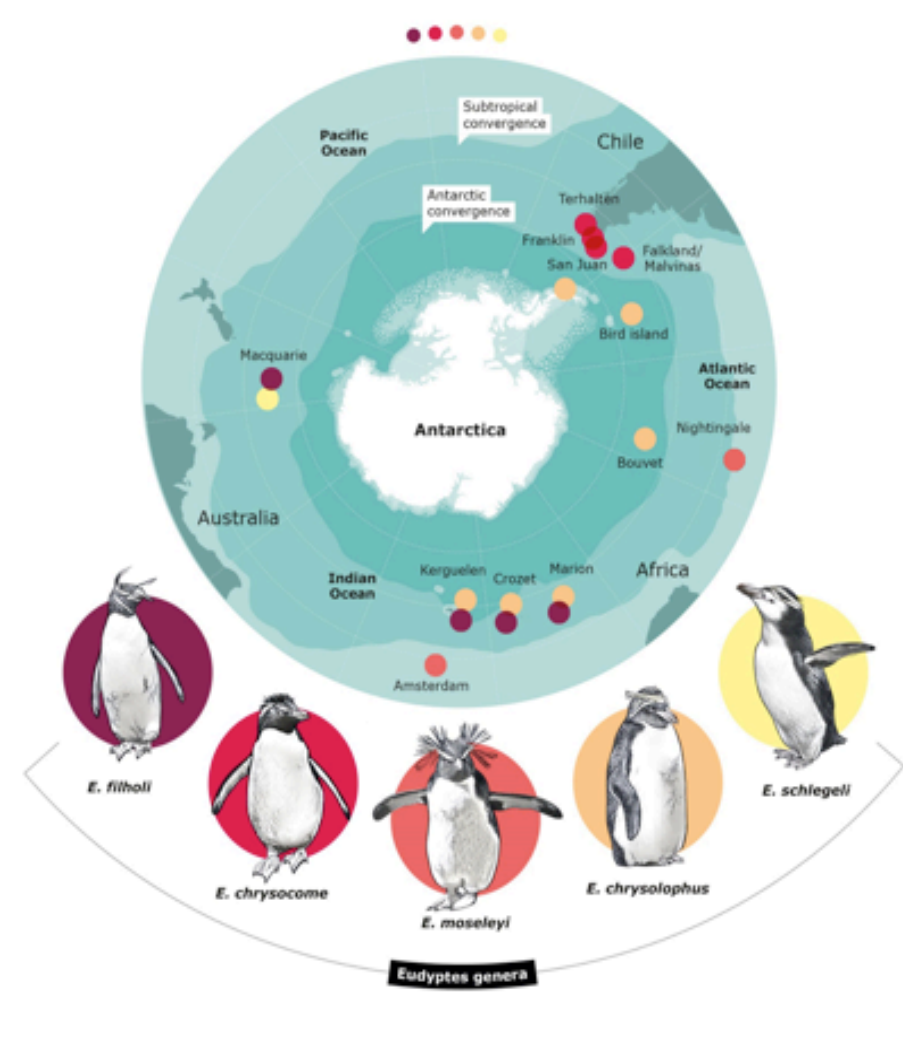
Duncan Edgley

PhD, University of Bristol





- *Eudyptes* penguins
- Historical and contemporary patterns of connectivity
- Barriers to dispersal
- Taxa under taxonomic debate



Angela Fuentes-Pardo, PhD

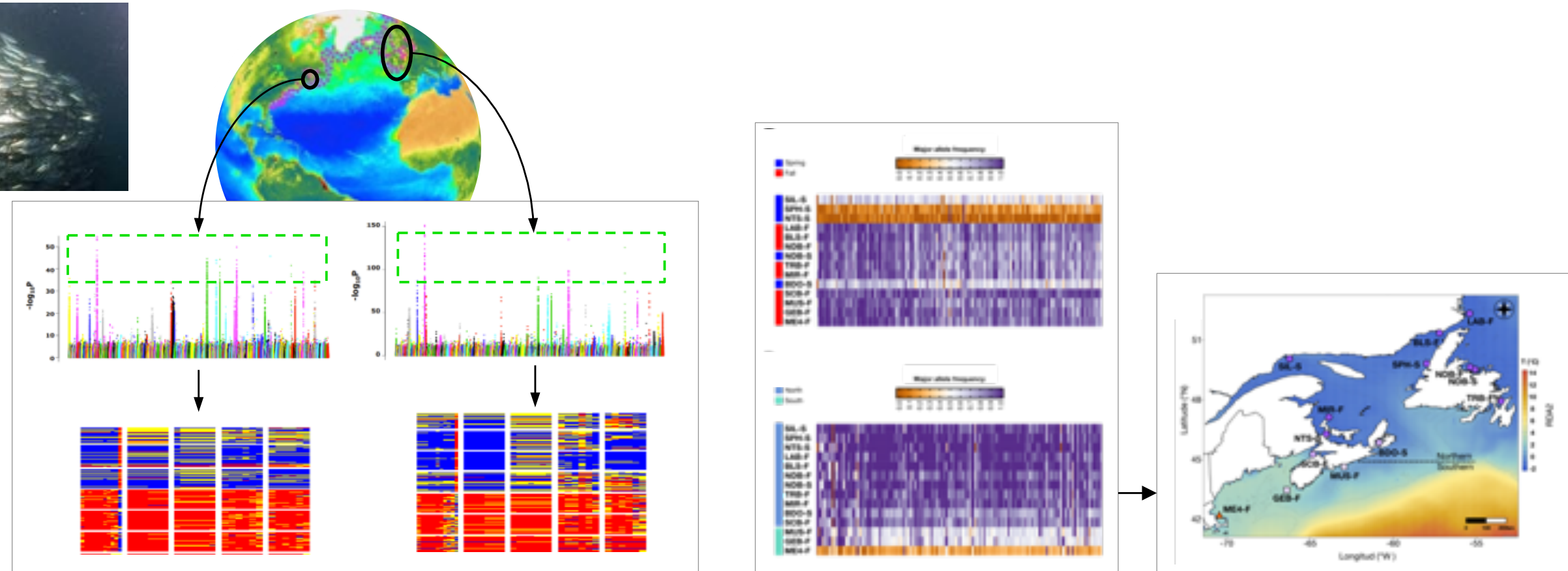
E-mail: apfuentesp@gmail.com  @apfuentes7



UPPSALA
UNIVERSITET

Evolutionary biology - Genomics - Bioinformatics - Management applications

- BSc from Universidad del Valle, Colombia
- PhD from Dalhousie University, Canada
- Postdoctoral researcher in Leif Andersson's Lab, Uppsala University, Sweden
- Currently: Population genomics, transcriptomics, and ecological adaptation of Atlantic herring and other fish species





Species delimitation and introgressive hybridization of *Ficus auriculata* complex in an obligate symbiotic system based on the whole genome resequencing

Jie Gao Xishuangbanna tropical botanic garden Yunnan, China



F. auriculata



F. oligodon



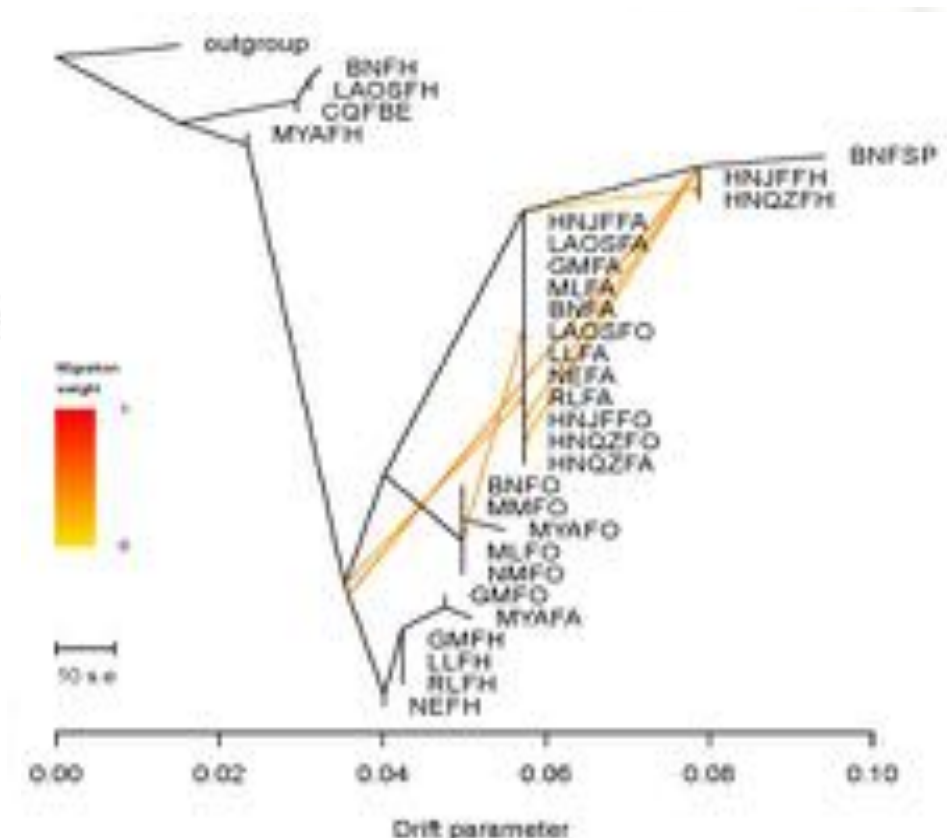
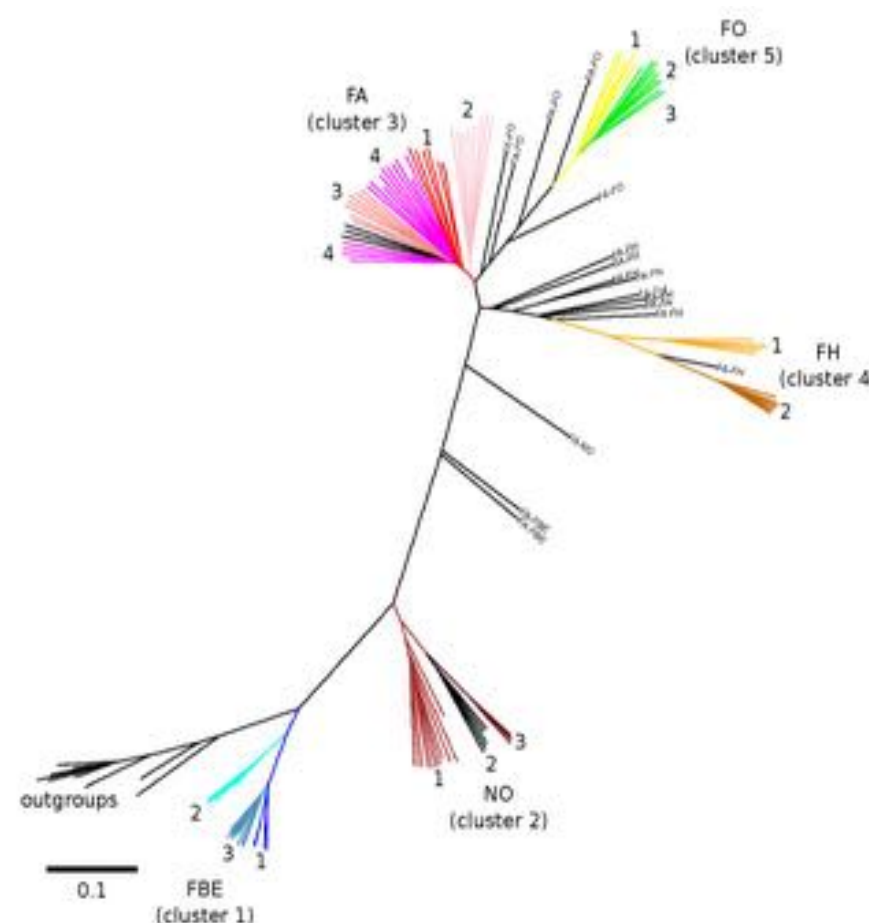
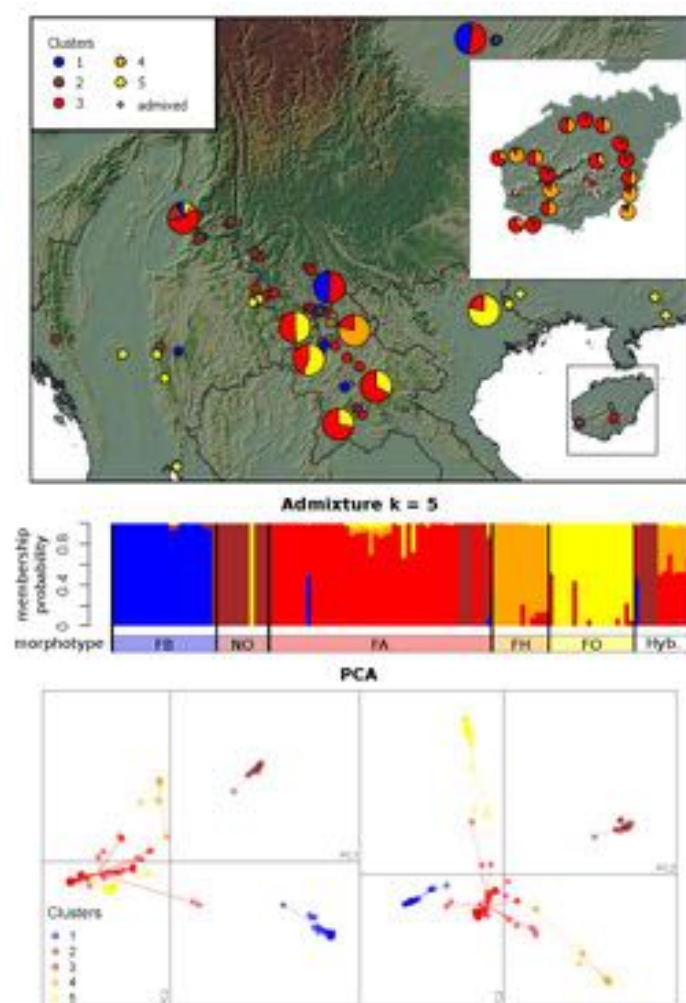
F. hainanensis



F. beipeiensis



pollinator wasps



SpeciationClock: How fast does the "speciation clock" tick in selfing versus outcrossing lineages?

Abel Gizaw

Postdoctoral Research Fellow

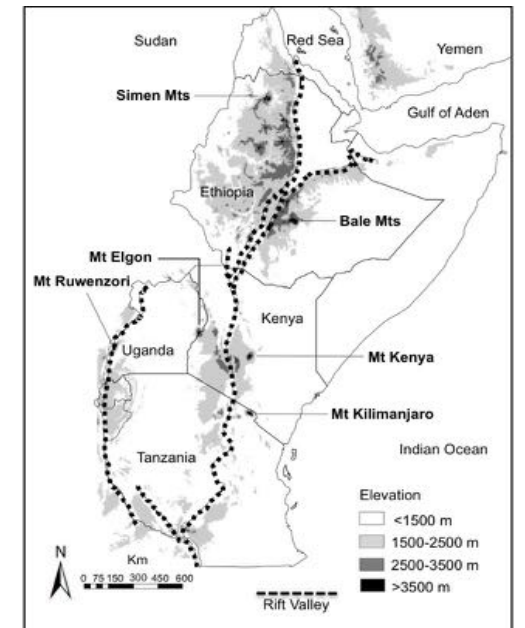


UiO Natural History Museum
University of Oslo

How long it takes for new, reproductively isolated species to arise and what factors influence the rate of speciation?



Develop and empirically test theoretical models on the impact of mating systems on the genetic architecture and rate of speciation (i.e. the ticking of the 'speciation clock')

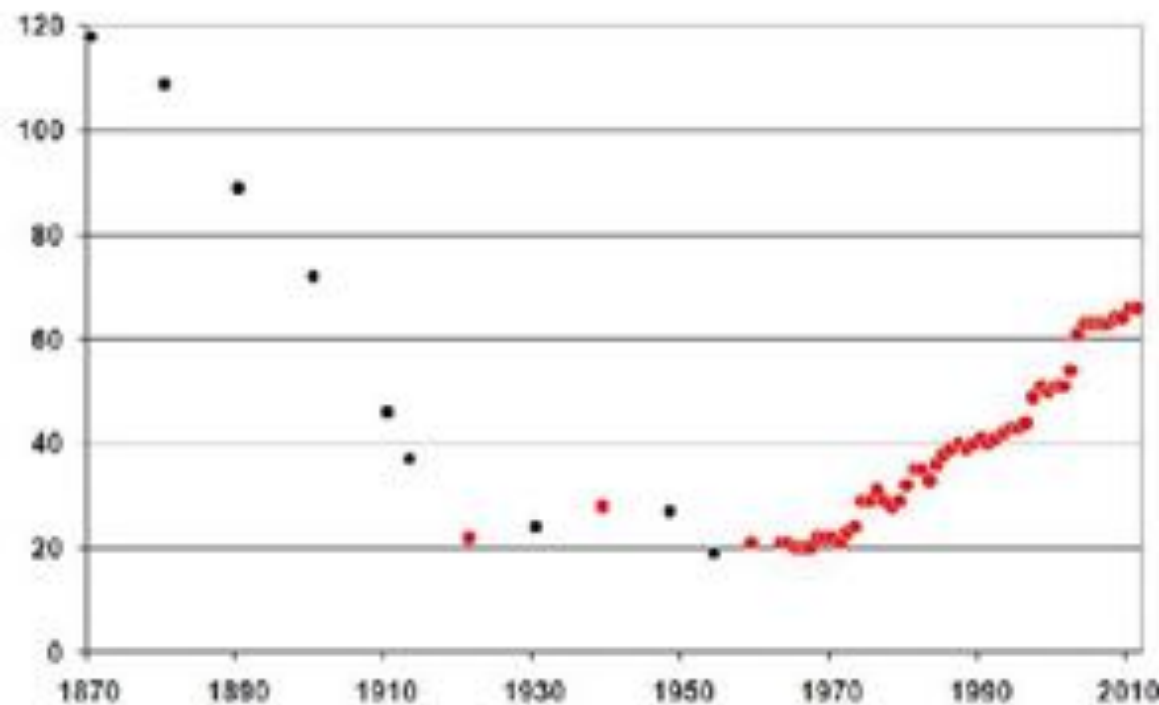


Mt Kenya



Mt Kilimanjaro

Charles Christian Riis Hansen



Population genomics of white-tailed eagles in Iceland

PhD student at the University of Iceland, supervisor: Snæbjörn Pálsson

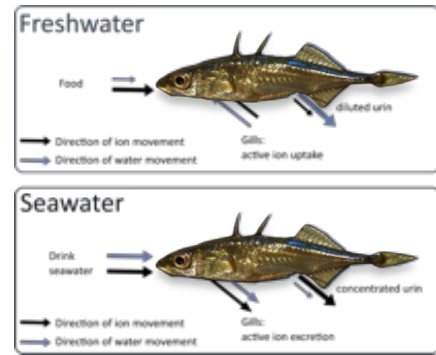
M.Sc. Biology (populations genetics), Copenhagen 2016

Melanie Heckwolf

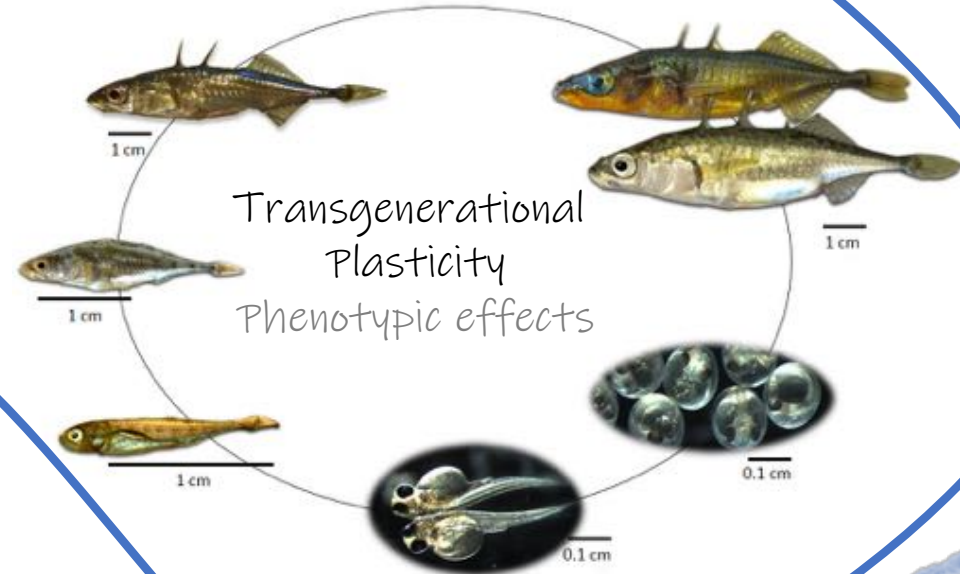


Bachelor

Osmoregulation
qPCR / gene expression



Master



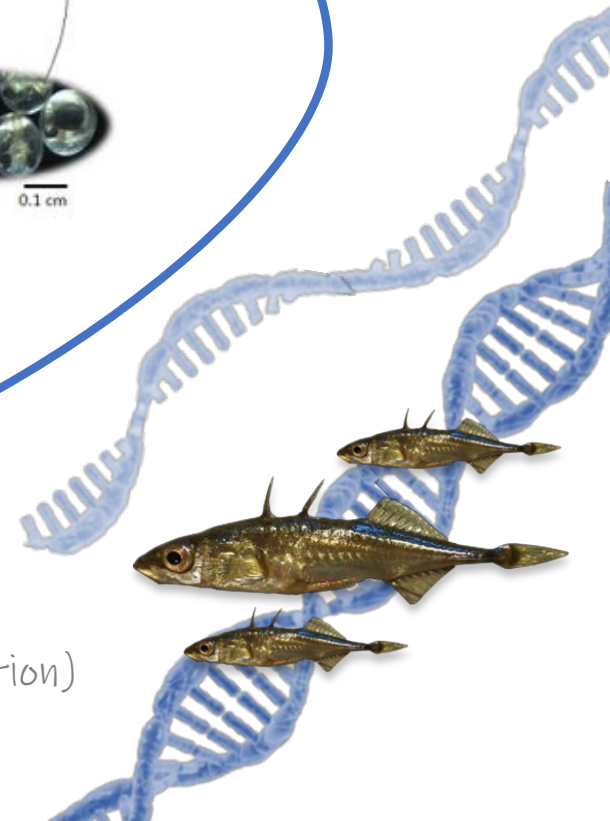
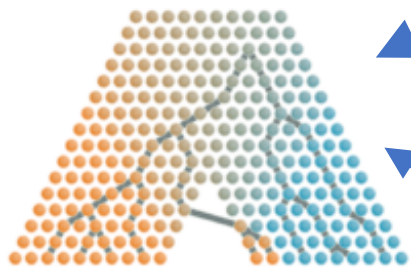
Transgenerational
Plasticity
Phenotypic effects

PhD

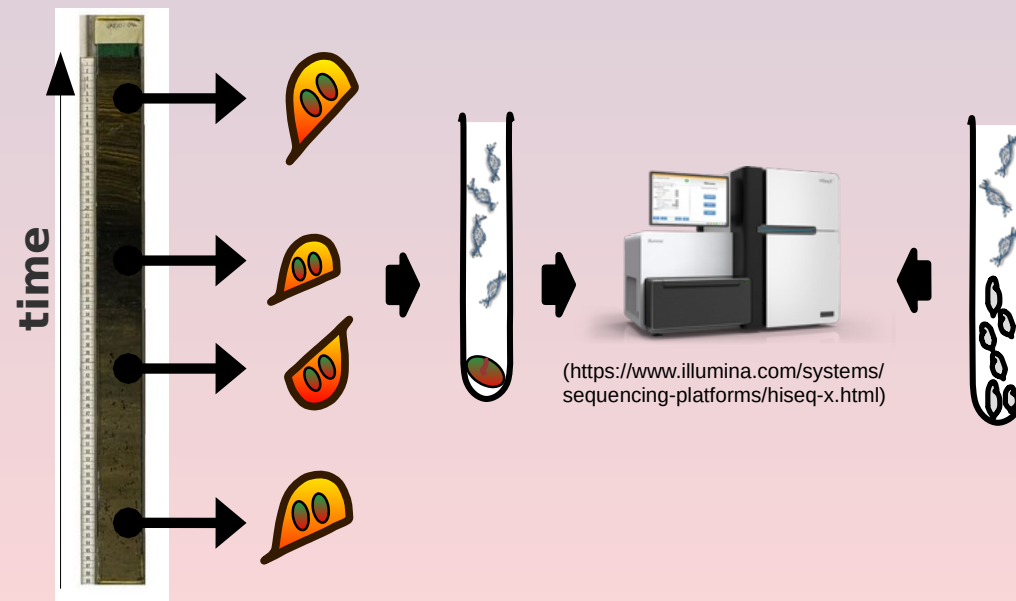
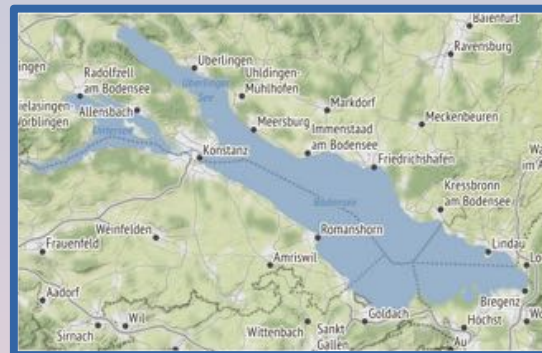
Transgenerational Plasticity
Population variation
Bisulfite sequencing (DNA methylation)
Transcriptomics

Postdoc

Ecosystem Services
Review



Daphnia Resilience - Genomic and ecological changes within peri-alpine populations of the *Daphnia-longispina*-species-complex under trophic change



Tania Holtzem MSc
Markus Möst Dr.
Birgit Schlick-Steiner Dr. Univ.-Prof.



Tania.Holtzem@uibk.ac.at



@tania_holtzem

Hu Ai-Qun, Daisy

Ph.D. The University of Hong Kong

IUCN SSC Orchid Specialist Group

Postdoctoral Researcher

Biodiversity Research Center

Academia Sinica

Email: daisyhu2012@gmail.com

Research focuses

Elucidating diversification and adaptive evolution in tropical flowering plants:
Using Orchidaceae and *Begonia* as models



Jun Ishigohoka

Max Planck Institute for Evolutionary Biology
Supervisor: Dr Miriam Liedvogel



International Max Planck
Research School
for Evolutionary Biology

Max Planck Institute for
Evolutionary Biology



Behavioural Evolution

Genetic & evolutionary basis

- Genetic architecture
- Differentiation & speciation
- Demography
- Structural variations

Molecular & neural basis

- Specialised brain regions
- Gene expression pattern & regulation
- Cell-type specific expression



Me with a well-dressed Neanderthal

Bachelor: Neural basis for species-specific song learning



Master & PhD: Evolutionary genomics of avian migration



 @junishigohoka

Mechanisms underlying behaviour, sociality and diversification of species

Julia Jones

School of Biology and
Environmental Science,
UCD Dublin



Darija Josić

PhD student - Museum für Naturkunde Berlin

darija.josic@mfn.berlin

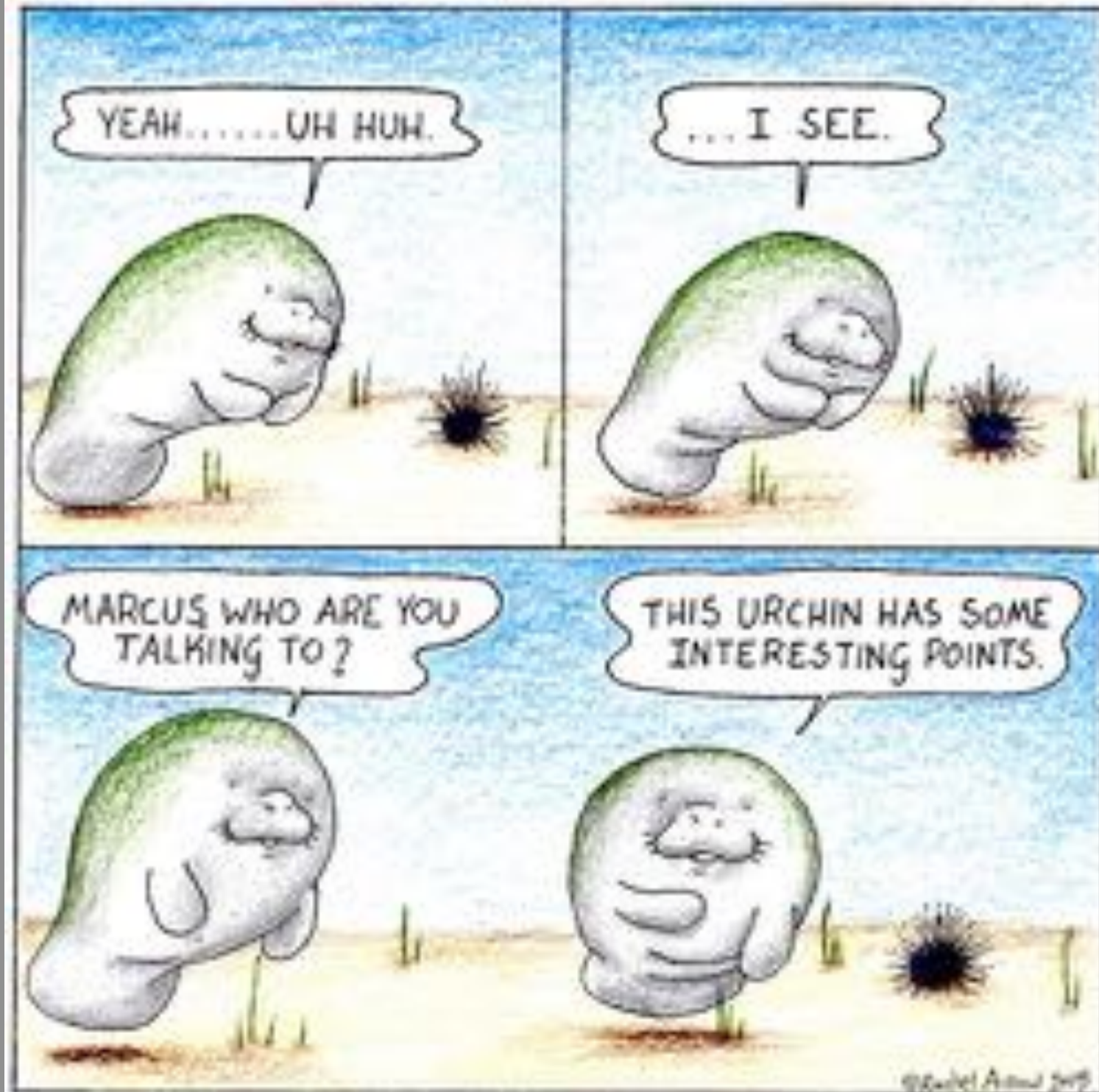
Population structure of *Myotis nattereri* species complex

Evolutionary history of two lineages – *M. nattereri* & *M. crypticus*





Remi N. Ketchum
University of North Carolina
Charlotte



Verena Kutschera, Stockholm (Sweden)

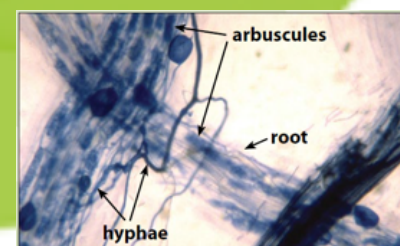
Bioinformatician

SciLifeLab

NBS
NATIONAL BIOINFORMATICS
INFRASTRUCTURE SWEDEN

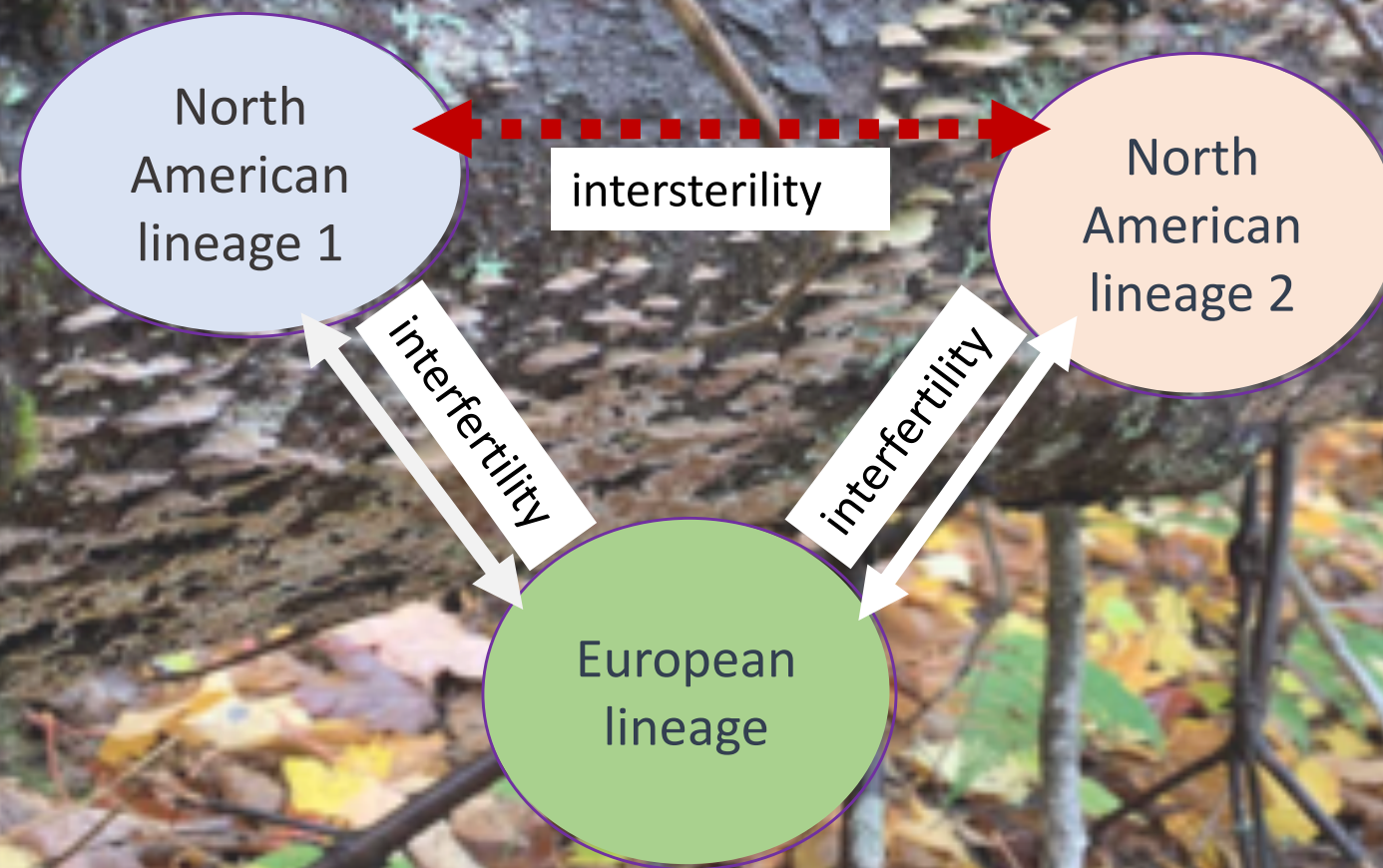
Stockholm
University

- Bioinformatics support for research projects at Swedish universities
- Population & conservation genomics, genome annotation
- Non-model organisms



@vekutschera 

Population genomics of *Trichaptum abietietinum* -a window into fungal speciation



Phd project of Dabao Lu, University of Oslo



PhD project: Genomics of hybridization and speciation

Supervised by **Reto Burri** & **Holger Schielzeth**

Research background:

- MSc in evolutionary biology (Montpellier)
- Phylogeography & cyto-nuclear conflicts
- Comparative transcriptomics & convergent molecular evolution

PhD project

- **3 replicated hybrid zones**
- Chromosome scale reference genome & **physically phased resequencing data**

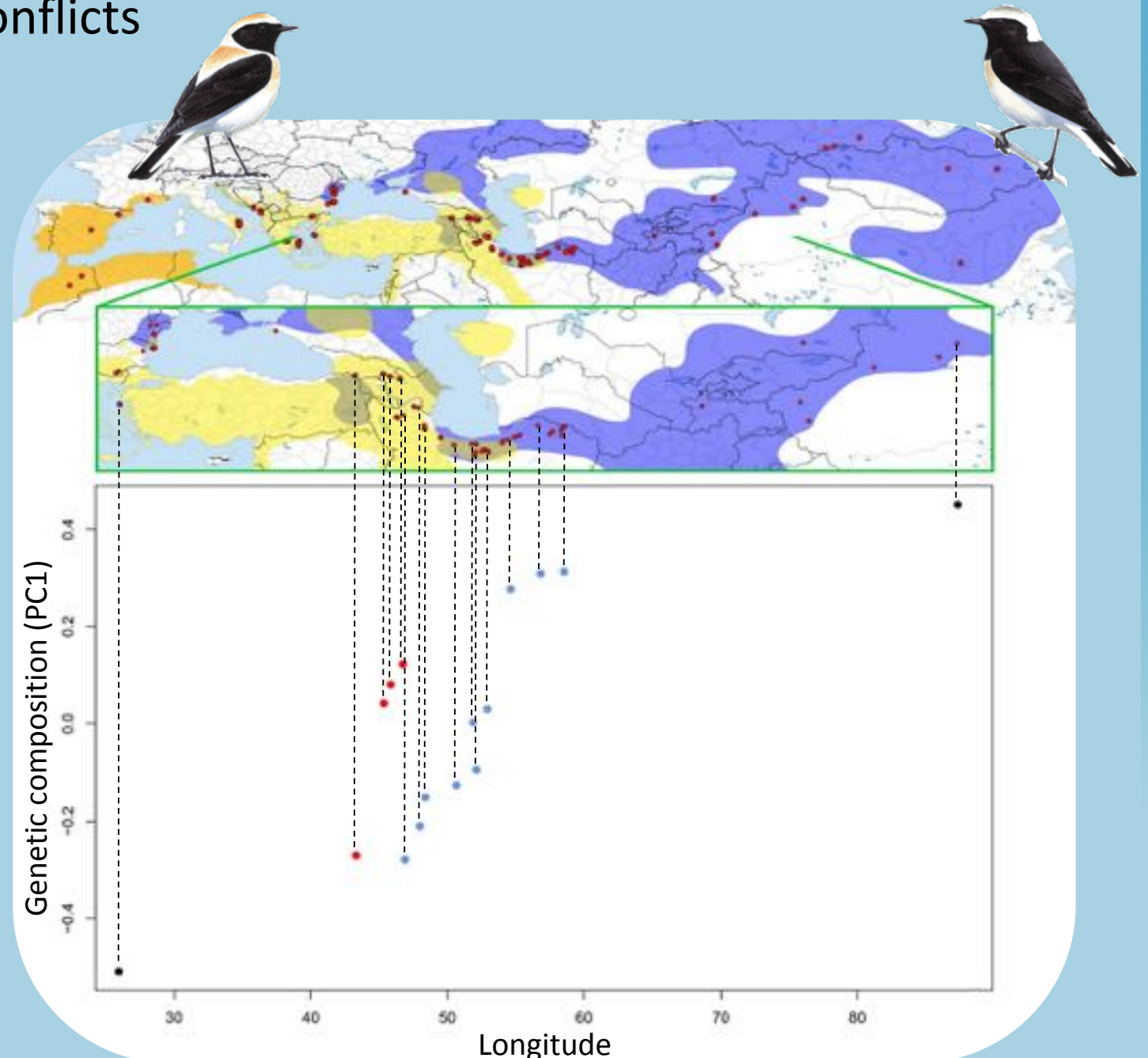
AIMS

Infer the **histories of colonization and hybridization**

Admixture mapping of the genomic regions underpinning **plumage coloration**

Identify the **genomic regions involved in reproductive isolation**

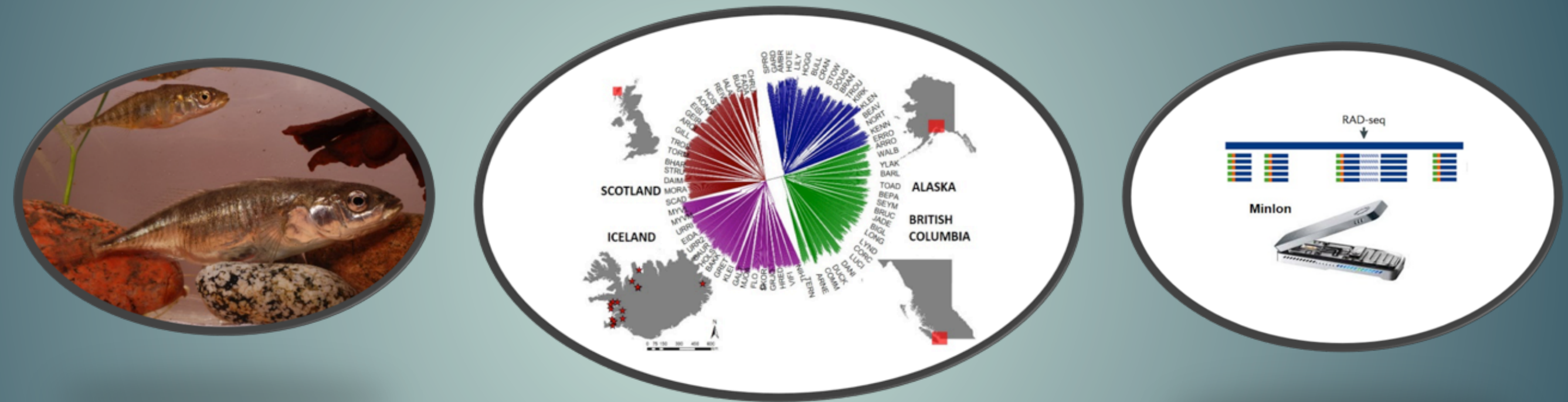
Infer the **genomic underpinnings of parallel phenotypic evolution**



What is the genetic basis of adaptation to new environments?

Does migration from differently adapted populations change the potential for local adaptation?

To what extent is evolution during adaptation parallel ?



Isabel S. Magalhaes
isabel.magalhaes@roehampton.ac.uk

Milan Malinsky

Short CV

2007-2010 BSc Computer Science, Birmingham, UK

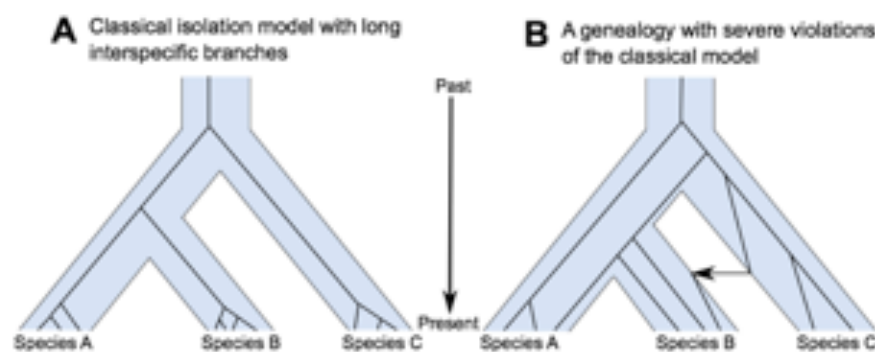
2010-2011 Master in Computational Biology, Cambridge, UK

2011-2015 PhD in Evolutionary Genomics, Cambridge, UK

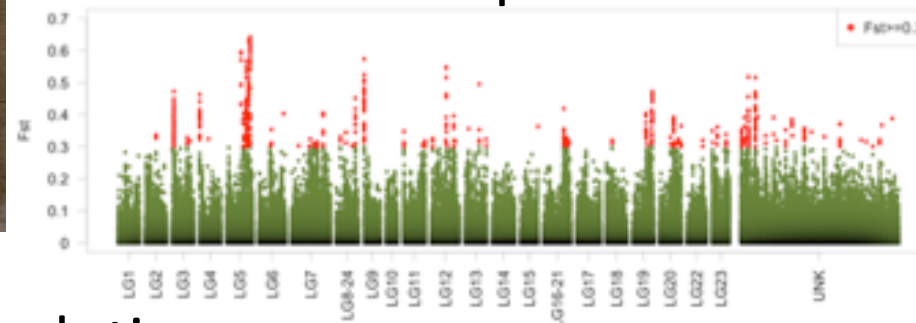
2016-present EMBO Fellowship + Postdoc, Basel, Switzerland

Biology:

1. Genetic diversity in Lake Malawi cichlids



2. Genomics of speciation



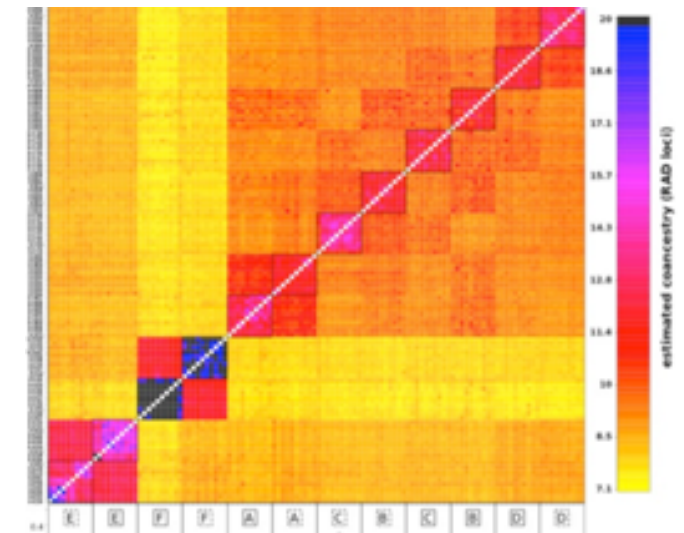
3. Convergent evolution



Technical interests:

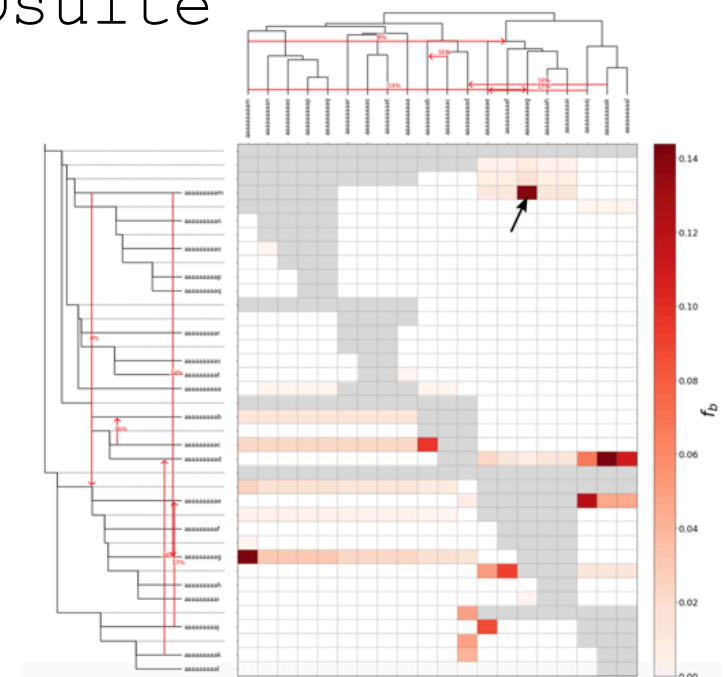
1. Population structure inference

→ fineRADpainter



2. Gene flow inference

→ Dsuite



3. *De novo* genome assembly

– including PacBio genomes

Lourdes Martínez-García

University of Oslo

Department of Biosciences



2011-2015

Biology



Conservation Biology

2017-2019



l.m.garcia@ibv.uio.no



CEES







Centre for Ecological and Evolutionary Synthesis

2019-2022

PhD

Archaeogenomics
and Marine Biology



Interests:      



Michael Matschiner

University of Zurich



©Chris Gin



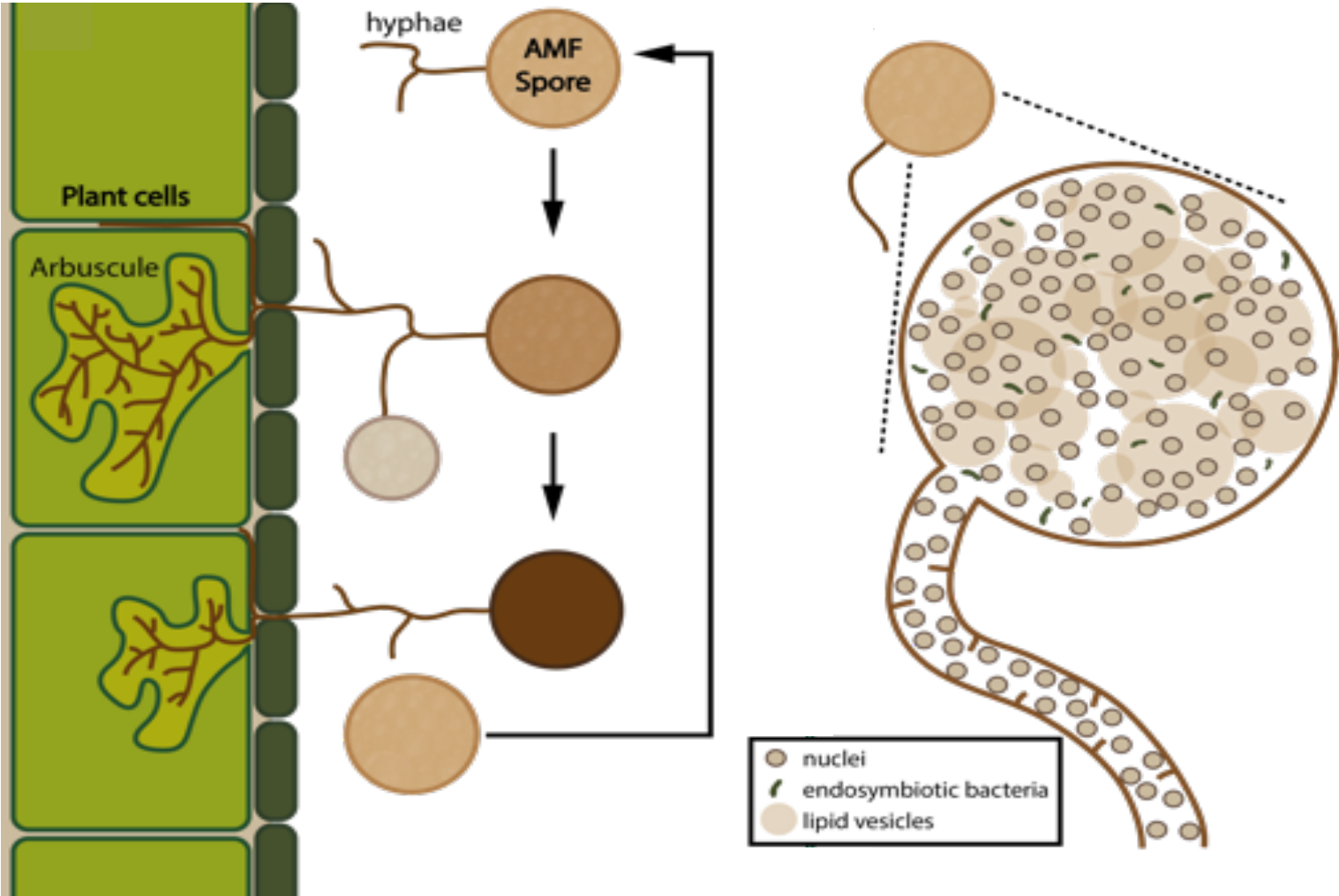
©Julia M. I. Barth



©Dante Fenolio

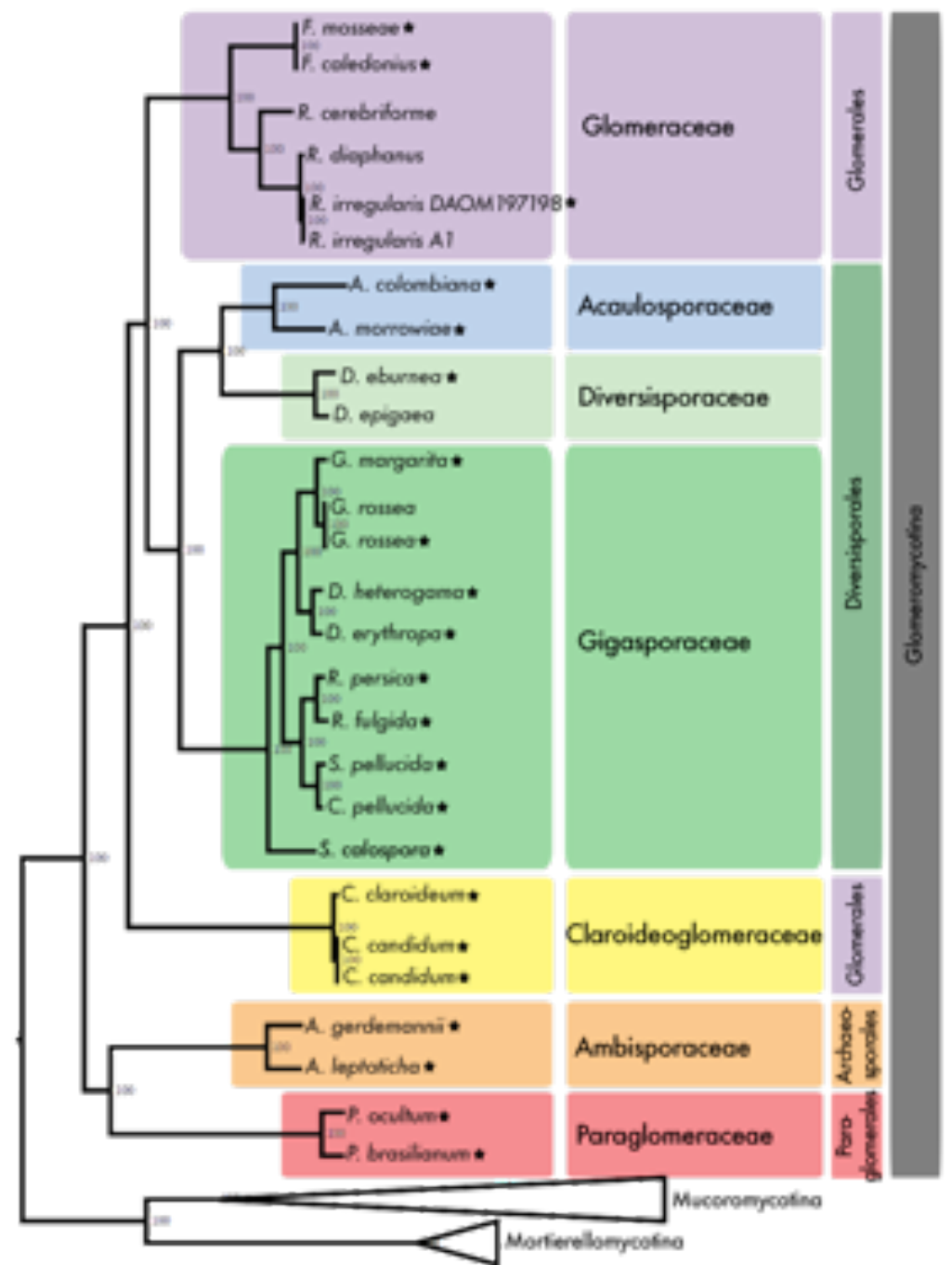


- From Boston, Massachusetts (USA)
- 1st year PhD Student at the University of Copenhagen (Evolutionary Genomics Section, Marine Mammals Ecology and Evolution Group)
- Currently mapping and comparing genomes of three species of beaked whales, including one new species (Sept. 2019)
- Generally interested in marine mammal population structure, speciation, bottlenecks, aDNA, eDNA

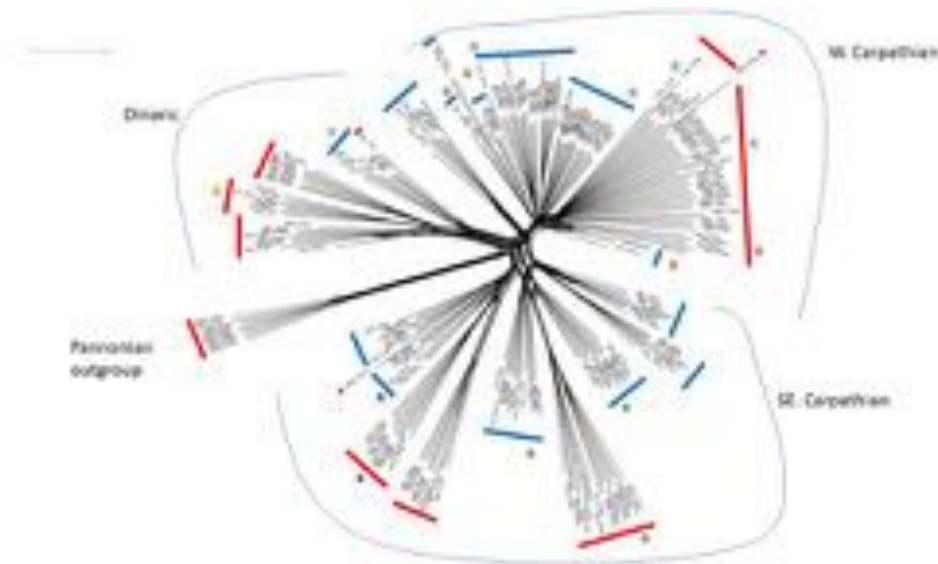
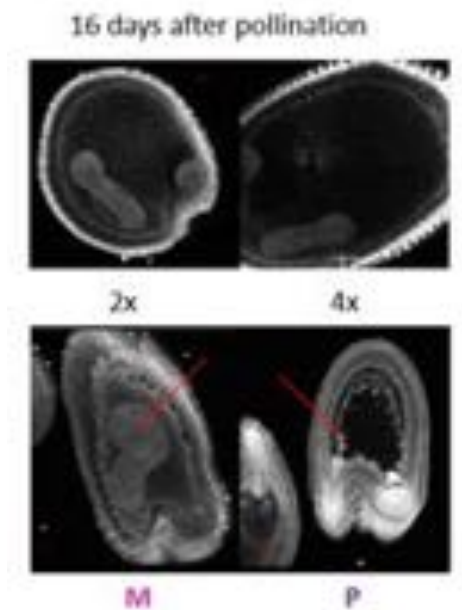
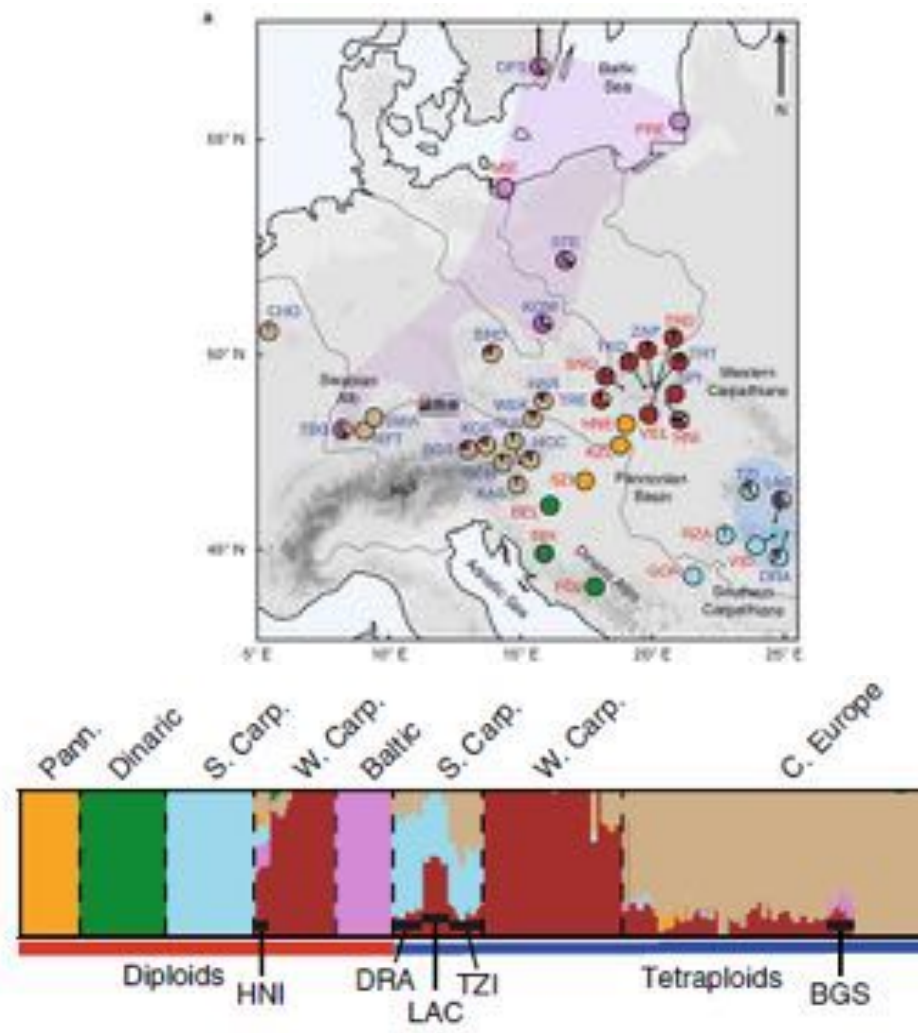


Genomics and evolutionary relationships of arbuscular mycorrhizal fungi

Mercè Montoliu Nerín
Uppsala University



Barriers and drivers of gene flow across ploidy barrier in wild *Arabidopsis*



Emma Jane Morgan
Charles University in Prague



Samantha Mynhardt

University of Pretoria, South Africa



Faculty of Natural and
Agricultural Sciences

Fakulteit Natuur- en Landbouwetenskappe
Lefapha la Disaense tša Tlhago le Temo

Prof. Nigel Bennett

Behavioural Ecology and Physiology of
Mammals

Department of Zoology and Entomology

Prof. Paulette Boomer

Molecular Ecology and Evolution Programme
(MEEP)

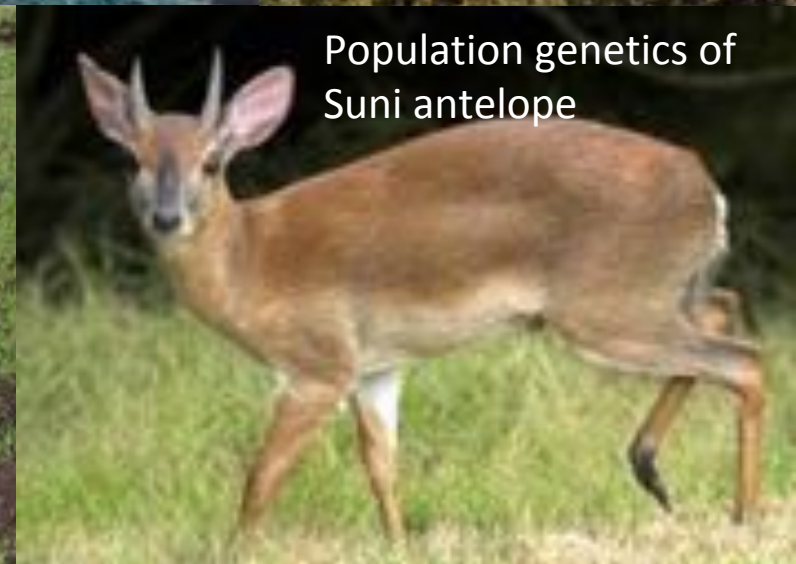
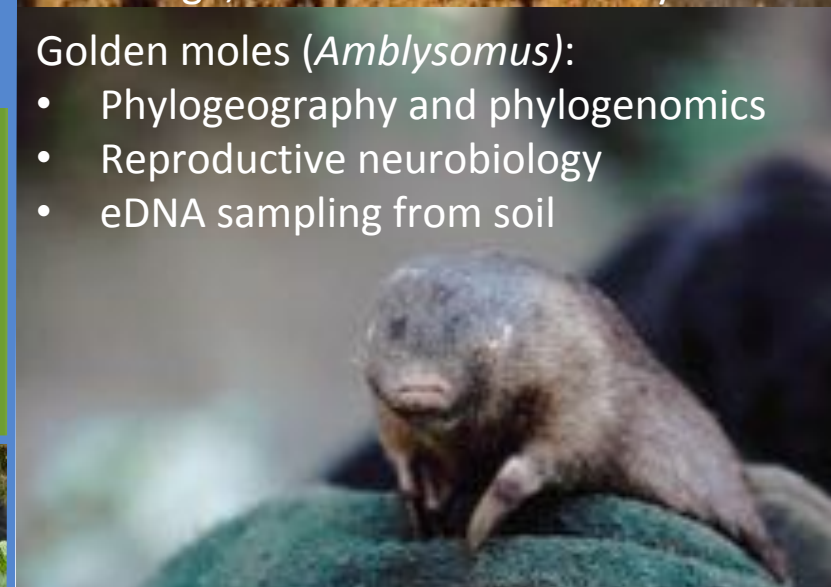
Department of Biochemistry, Genetics and
Microbiology (BGM)



Parentage, relatedness and colony structure in Damaraland mole-rats

Golden moles (*Amblysomus*):

- Phylogeography and phylogenomics
- Reproductive neurobiology
- eDNA sampling from soil

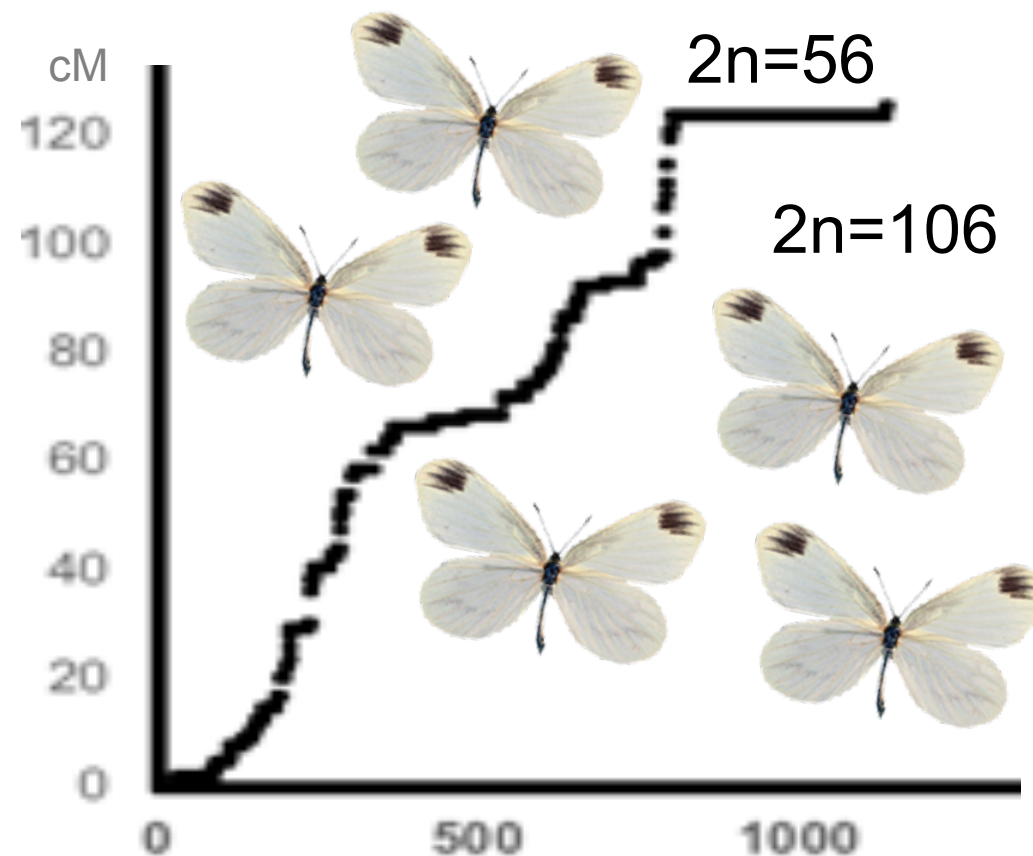


Population genetics of
Suni antelope



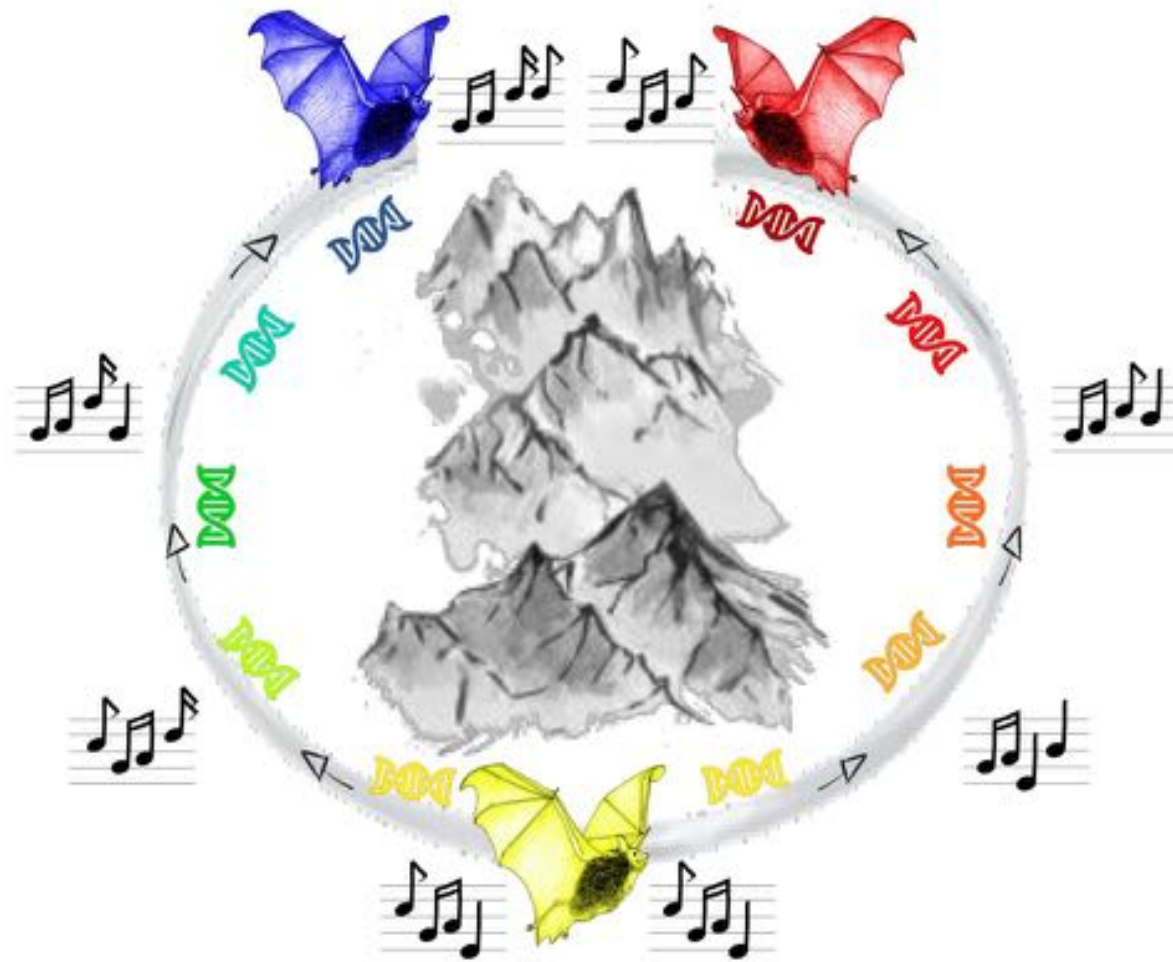
Karin Näsval
PhD-student

Speciation and genome evolution in butterflies



**Dept of Ecology and
Genetics, EBC
Norbyvägen 18D
SE-752 36 Uppsala
Sweden**

Culture as an evolutionary force: Does song learning accelerate speciation in a bat ring species?

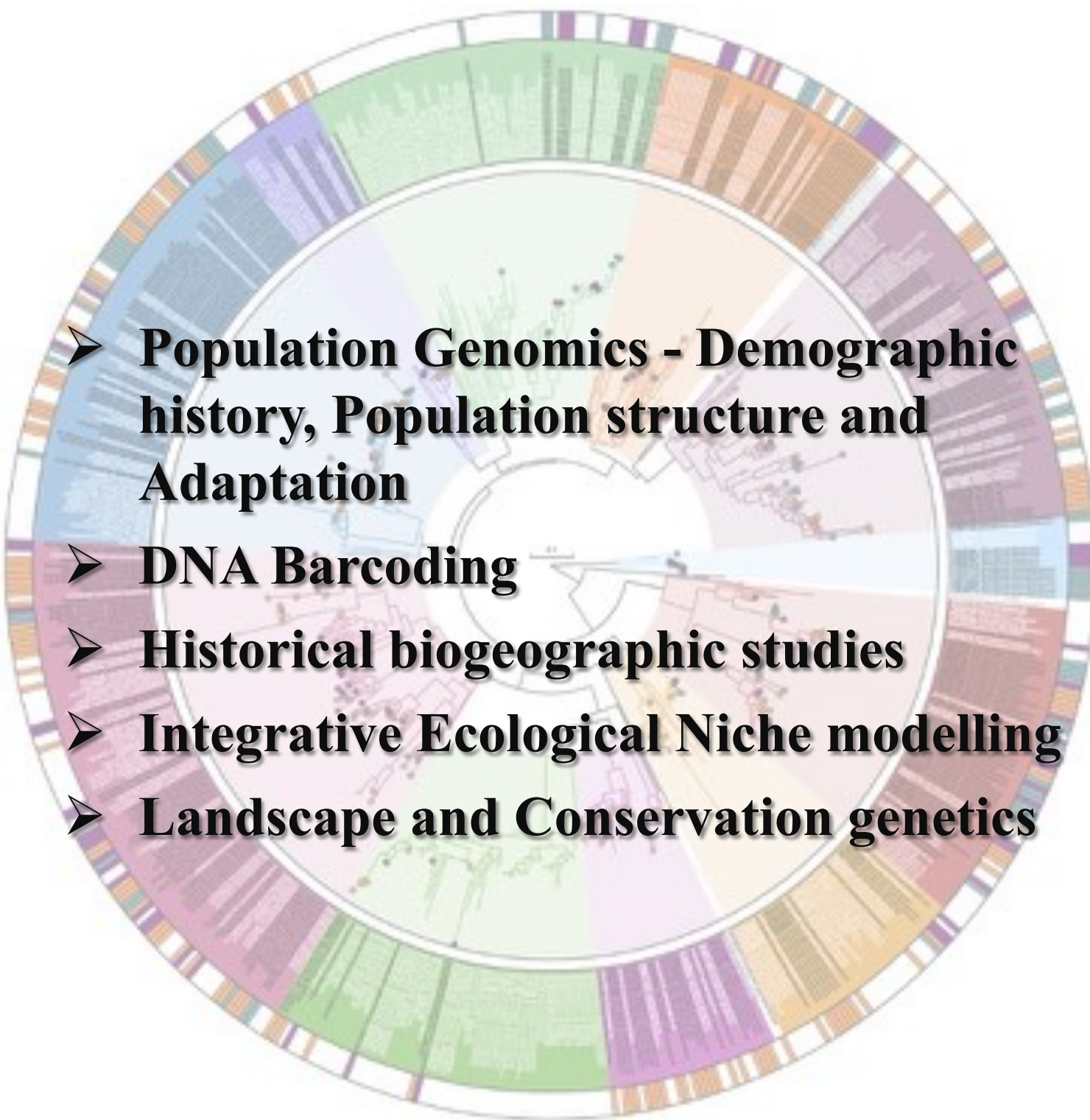


Greater sac-winged bat
(*Saccopteryx bilineata*)

Martina Nagy

für Natur
MUSEUM FÜR
NATURKUNDE
BERLIN





My PhD project:

Population genomics of parasite adaption: insights into diversification and speciation of parasites





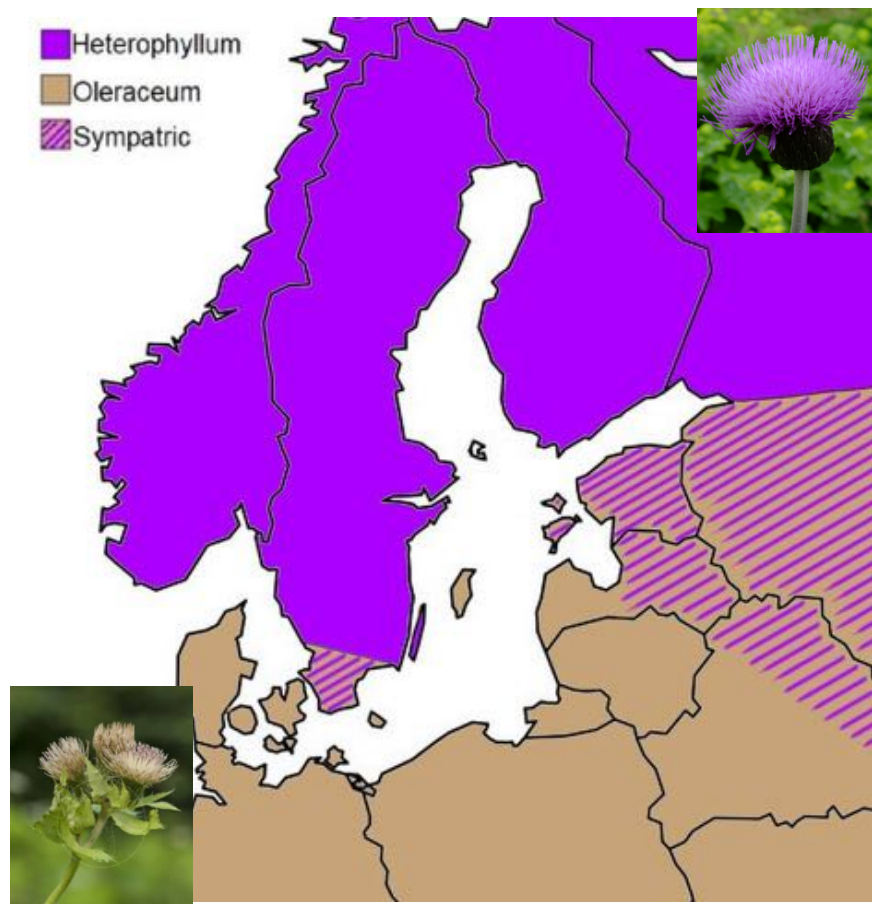
LUND
UNIVERSITY

- Kalle Nilsson
- Lund University, Sweden
 - Evolutionary Ecology
 - Evolutionary Ecology of Plant-Insect Interactions

Tephritis conura



Genomic underpinnings of host plant adaptation in *Tephritis* flies



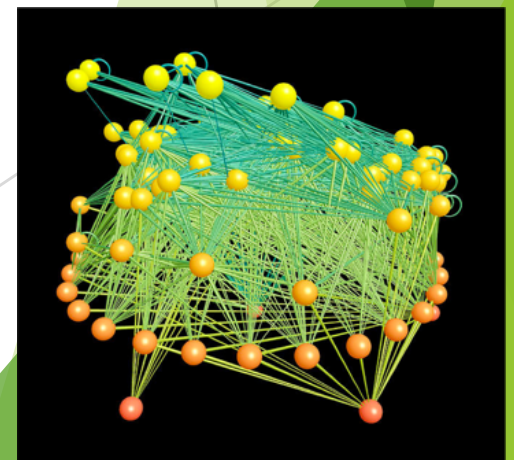
- Phenotypic responses to host plant adaptation and secondary sympatry with a close congener
- How does colonizing a new niche affect evolvability?
- The genomic landscape of host race plant adaptation
- What are the relative roles of coding genetic divergence and regulation of expression in host plant adaptation?

Etsuko Nonaka

Postdoctoral researcher

University of Jyväskylä, Finland

- ▶ Ecologist and modeler
- ▶ Research interests
 - ▶ Interaction between ecological and evolutionary processes
 - ▶ Especially, in a spatial context
 - ▶ Genetically explicit (individual-based) population models
- ▶ Projects
 - ▶ Inferring pollinator movement from population genomics of spatially structured plant populations (*Primula farinosa* in Öland, Sweden)
 - ▶ Effects of density dependent attack on the extinction risk of inbreeding parasitoid populations
 - ▶ Fisheries-induced evolution and population dynamics in complex food webs
- ▶ From Osaka, Japan
- ▶ Studied/Worked in US, Sweden, and Finland



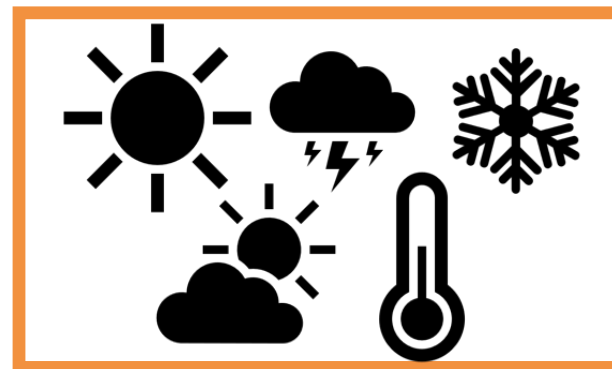
Ph.D. project: Genomic and ecological bases of adaptation in aphids in the context of fruit tree domestication



Dysaphis plantaginea
Passerini
Rosy apple aphid



Biotic environment
Malus domestica
Borkh
Cultivated apple



ABIOTIC
environment

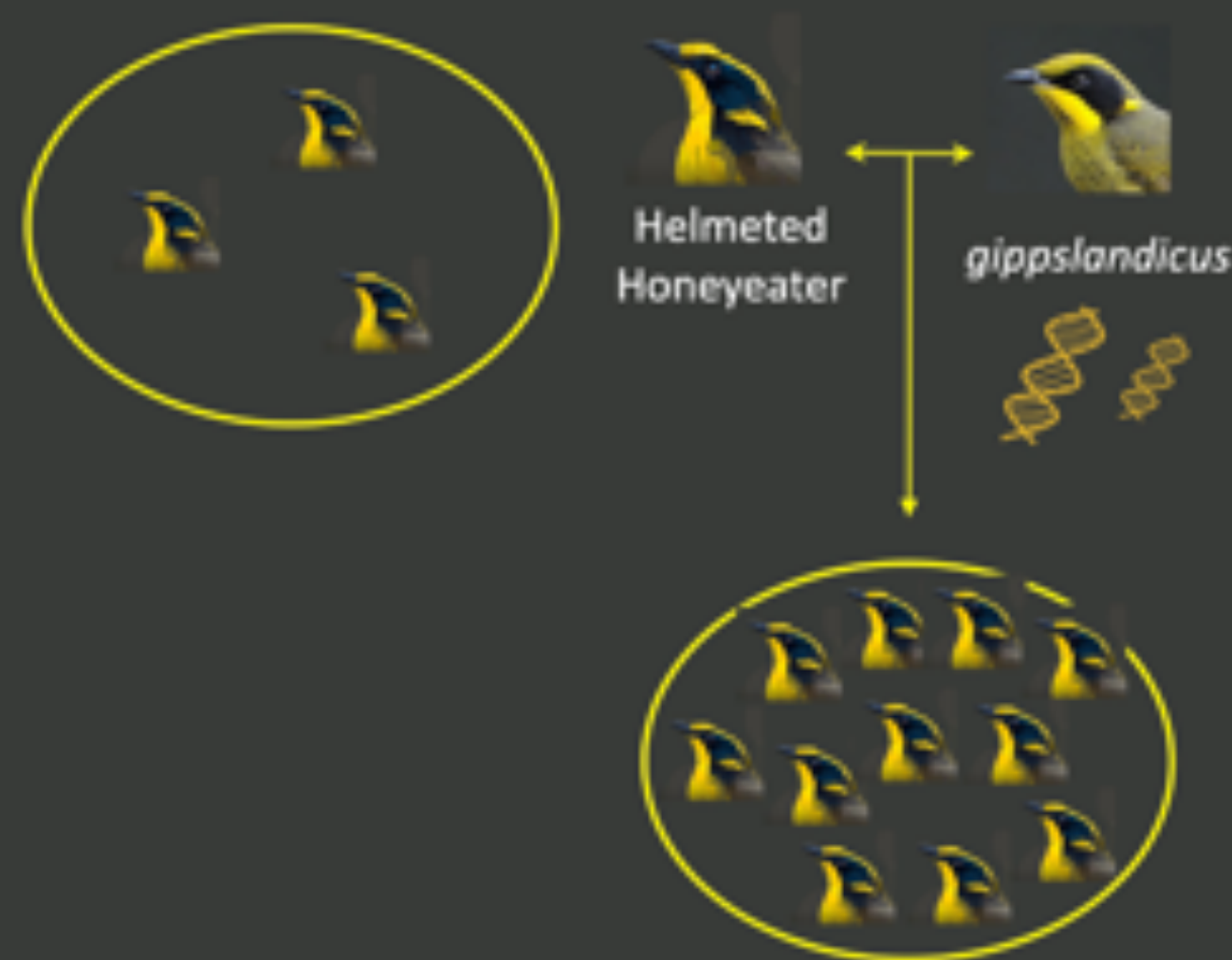
Adapted to local host
and/or local climate?

Genomic architecture of
local adaptation?

Genetic rescue of the Helmeted Honeyeater

Diana Robledo-Ruiz

Supervisor: Paul Sunnucks



Genomic
consequences!

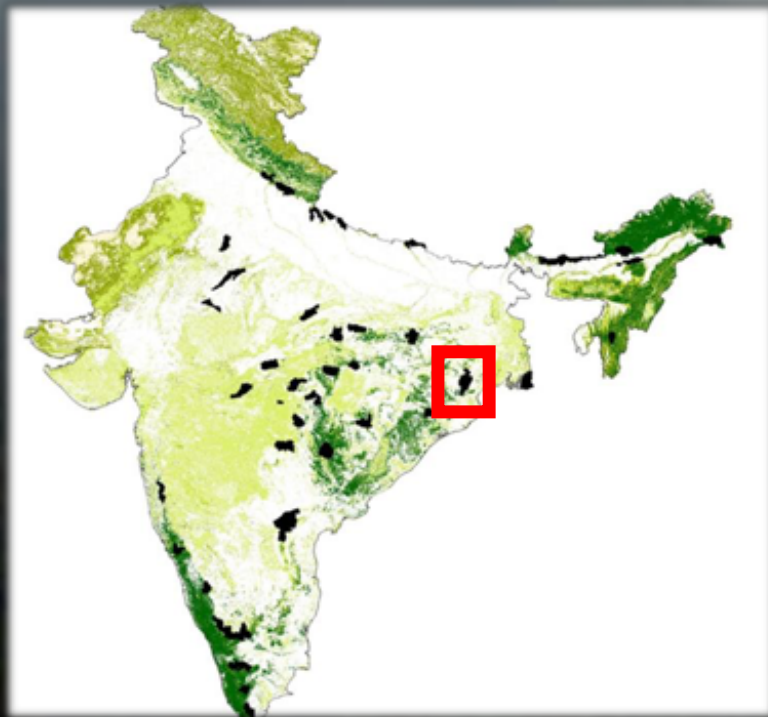
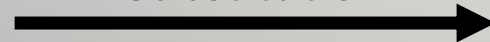


Black is the new Orange

The Story of the Pseudomelanistic Tigers of India



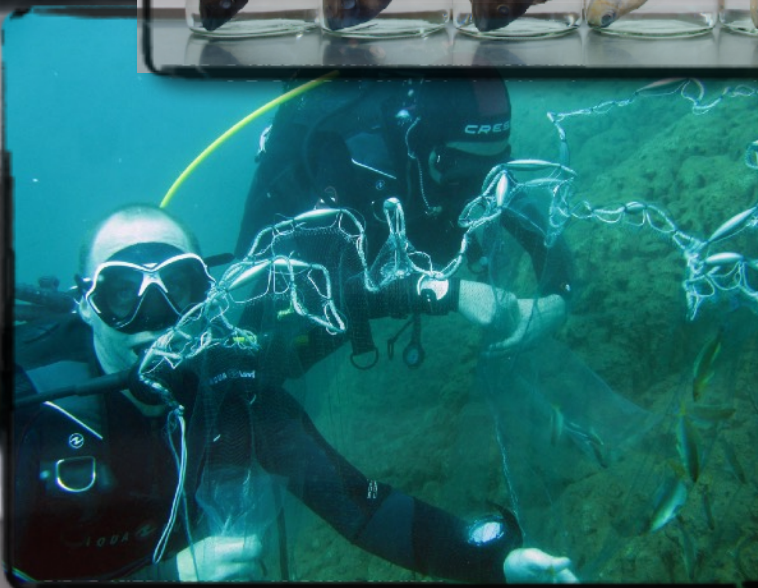
Single Base
Substitution



Vinay Sagar
Research Scholar
Uma Ramakrishnan's Lab
NCBS, Bangalore (India)



The dynamics of diversification





Stephen Schlebusch

Postdoc at Charles University

MARCOS SILVA

UNIVERSITY OF BASEL

PHD STUDENT

Adaptive radiation
Convergent evolution
Chromosomal evolution
Genotype X Phenotype
Biodiversity Conservation



Bio-diversity

Ecological response -----Local adaptation-----Ecological speciation

—————> Changing environmental conditions over time <————

- To study the effect of land cover on the abundance of a range of mosquito species including both forest and rice agro-ecosystem adapted species and its implications on malaria epidemiology in Meghalaya, North-east India. **(Ecological response)**
- Population genomics studies of *An. baimaii* to identify genomic regions putatively involved in adaptation to well-breeding in South-eastern Myanmar **(Local adaptation)**
- Speciation genomics to understand genomic changes under different modes of speciation i.e. allopatric and sympatric in *An. dirus* species complex and to reveal their evolutionary history **(Speciation)**

Upasana Singh
PhD Ecology and Evolution
Supervisor: Dr Catherine Walton



František Sklenář

PhD. student

Charles University, Faculty of Science, Department of Botany

Institute of Microbiology of the Czech Academy of Sciences



Aspergillus

Microscopic fungi



Phylogeny



Reproductive barriers


















Bartosz Sobociński

PhD student

University of South Bohemia (České Budějovice, Czech Republic)

Rapid diversification in Neotropical cichlids

Lower Iguazú / Middle Paraná Rivers		Uruguay River	
<i>Crenicichla tucay</i> - head/thick lips ramming against rock surfaces ¹	thick-lipped invertivore (TL)	<i>Crenicichla tendybaguassu</i> - insect, snail ^{2,3}	
			
<i>Crenicichla iguazuensis</i> - fish remnants common in stomachs of bigger specimens ⁴ - fish (80%), insect ⁵	piscivore (P) - benthic	<i>Crenicichla missioneira</i> - benthic/open-water fish, crustacean, insect ² - catfish, molluscs, insect, crab ³	
			
<i>Crenicichla tessey</i> - molluscs ^{1,6}	molluscivore (M)	<i>Crenicichla minuano</i> - bivalve, insect, snail ² - molluscs, insect ³	
			
<i>Crenicichla topii</i> - gregarious grazing on rocky substrate with epiphyte growth ⁴ - centric diatoms, insect ⁵	periphyton grazer (G)	<i>Crenicichla hadrotaigma</i> - gregarious grazing on rocky substrate with epiphyte growth ⁴ - mollusc shells (1 female) ⁷	
			
<i>Crenicichla</i> sp. "Uruguay-I line" - not studied	piscivore (P) - open water	<i>Crenicichla celidochilus</i> - open-water fish ²	
			
Lower Iguazú: <i>C. iguazuensis</i> (P), <i>C. topii</i> (G), <i>C. tessey</i> (M), <i>C. tucay</i> (TL) Middle Paraná: <i>C. mandiburgeri</i> s.l. (P) (<i>C. mandiburgeri</i> , <i>C. sp. "Piray-Guazú"</i> , <i>C. sp. "Piray-Guazú line"</i> , <i>C. sp. "Uruguay-I line"</i>), <i>C. gillmarlii</i> (P), <i>C. tsikyo</i> (M), <i>C. yoho</i> (M)		Diversity/distribution	
1.6 mya ⁸ (<i>C. mandiburgeri</i> sp. complex)		Estimated age	
		Middle/Upper Uruguay: <i>C. celidochilus</i> (P), <i>C. hadrotaigma</i> (G), <i>C. minuano</i> (M), <i>C. missioneira</i> (P), <i>C. tendybaguassu</i> (TL) Upper Uruguay: <i>C. emphares</i> (P), <i>C. igara</i> (P), <i>C. jurubi</i> (M)	
		1.2 mya ⁹ (<i>C. missioneira</i> sp. complex)	



Katedra
zoologie
Department
of zoology



Přírodovědecká
fakulta
Faculty
of Science

Jihočeská univerzita
v Českých Budějovicích
University of South Bohemia
in České Budějovice

Supervisor:
Lubomír Piálek, Ph.D.

Carolyn Sommer-Trembo



Adaptive radiation
Cichlids

Salzburger lab



Combining behavioural
data with genomics, ecology,
etc.



Bioinformatics and Population genomics

Interaction of gene flow and natural selection

Development of methods to detect and quantify:

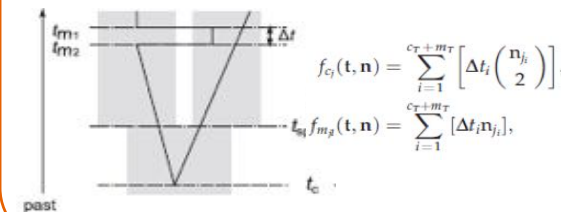
Demographic history of populations

Gene flow and divergent selection

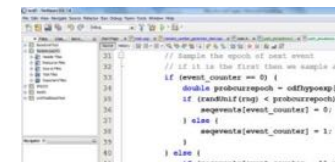
Effect of deleterious mutations (background selection)

Analysis of data from **experimental evolution** and **natural populations**

Population Genetics theory

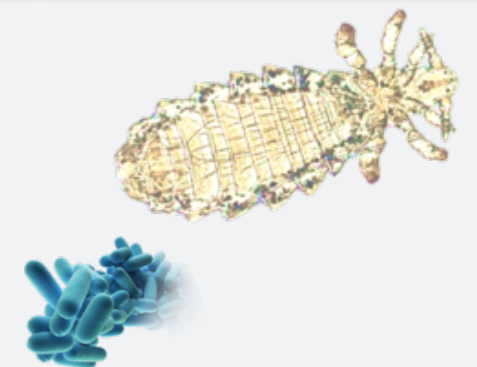
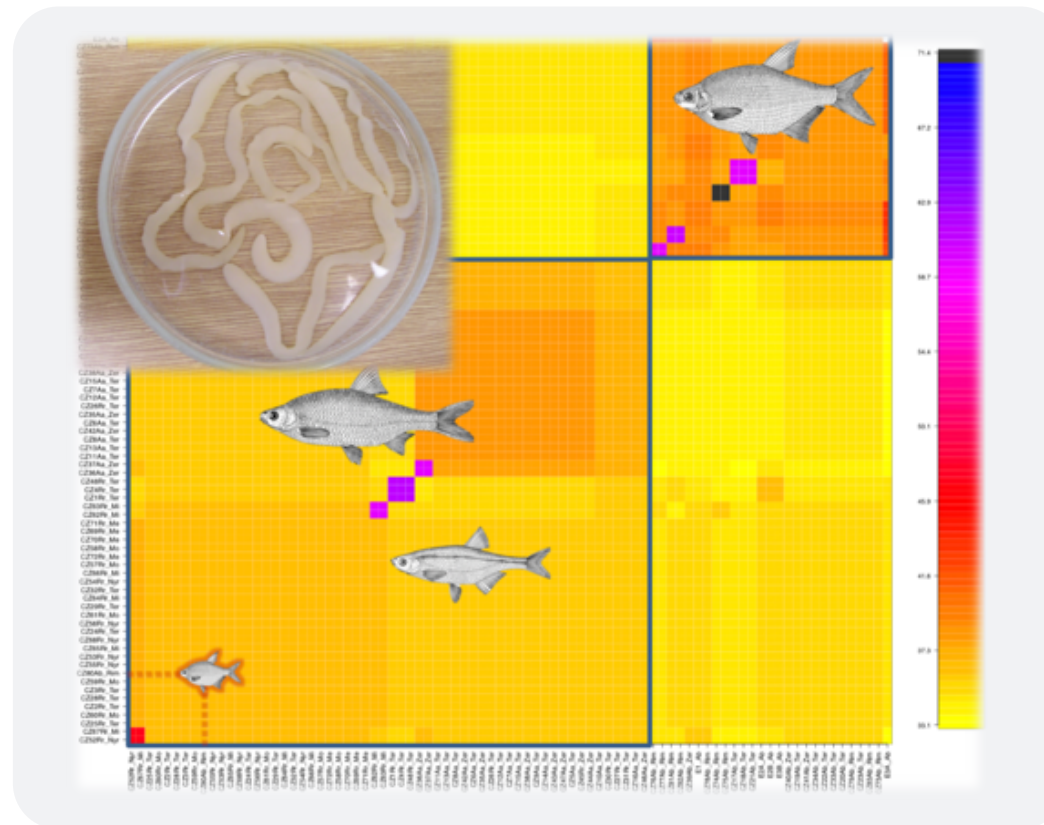
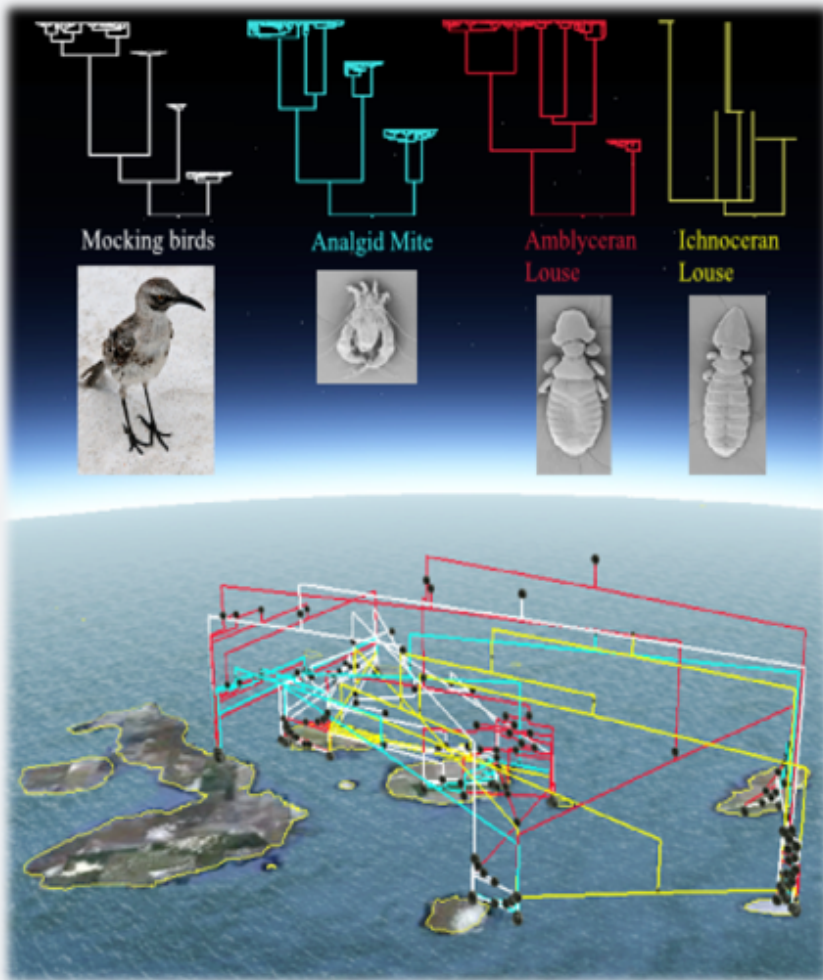


Computational methods

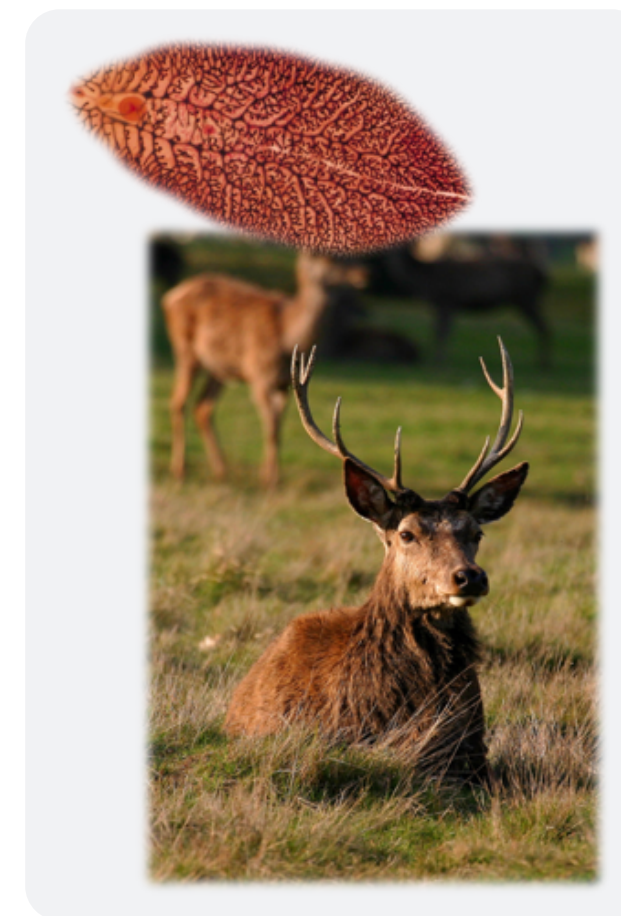


Modeling and data analysis of genomic data





Population genetics/omics of host-parasite co-evolution



Rapid adaptation and diversification

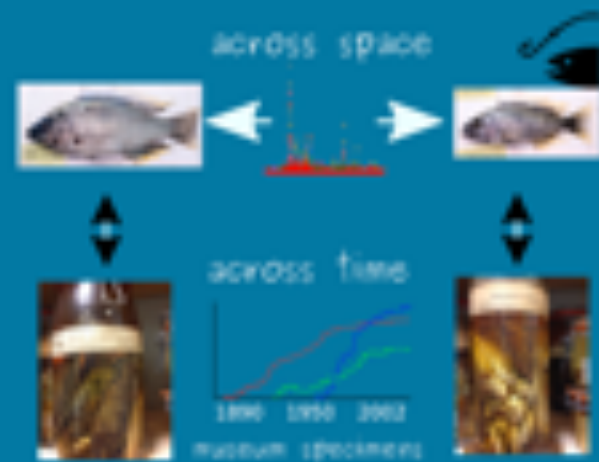
Hannes Svardal

hannes.svardal@uantwerpen.be



University
of Antwerp

Adaptation to fishing

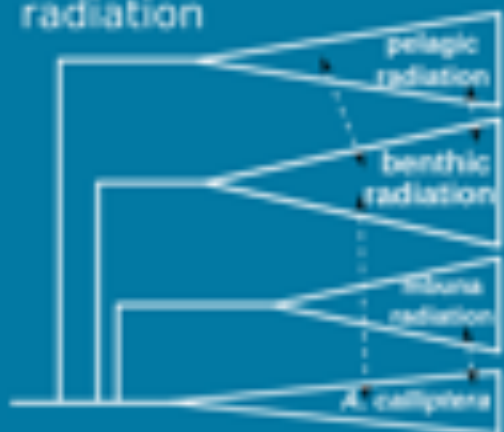


Role of gene flow



Role of genomic inversions in adaptive diversification

Malawi cichlid adaptive radiation



Cross 1

Cross 2



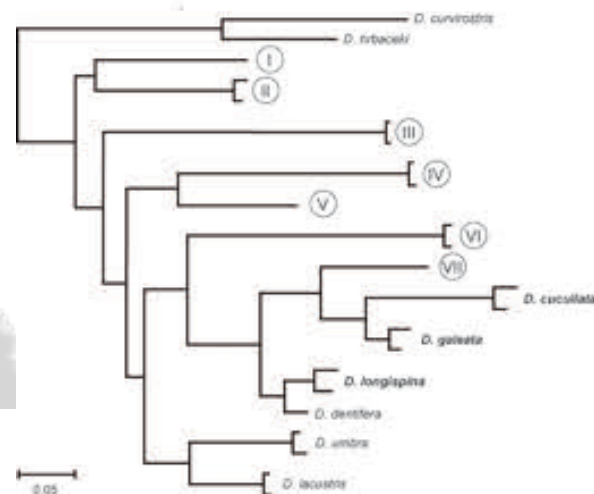
Looking for a PhD student!

Computational genomics + experiments

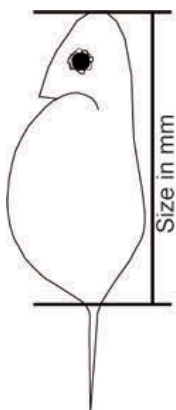
Population genetics

Population genomics

Molecular systematics

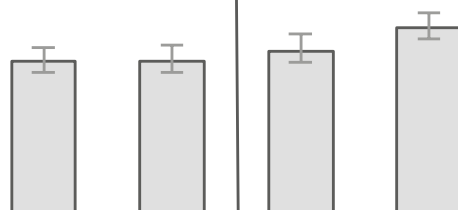


Life history studies



D. magna

D. pulex



Emiliano Trucchi

Population genomics



UNIVERSITÀ
DEGLI STUDI
DI FERRARA
- EX LABORE FRUCTUS -



The Evolutionary History of Alba

An Ancient Life-history Polymorphism



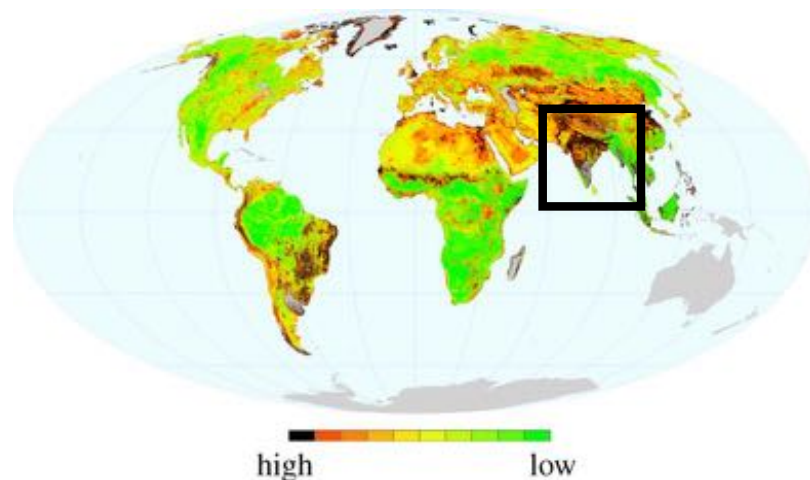
Kalle Tunström
@kallekarlhugo

Differential impact of habitat fragmentation on genetic connectivity and population structure of ungulates in India

Abhinav Tyagi

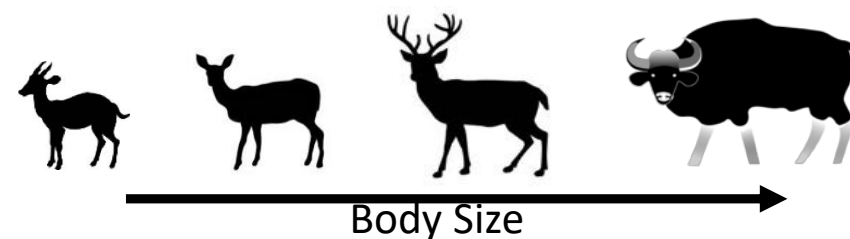
Ph.D. Student

National Centre for Biological Sciences, India



Habitat fragmentation

- Habitat loss
- Land use change
- Road network

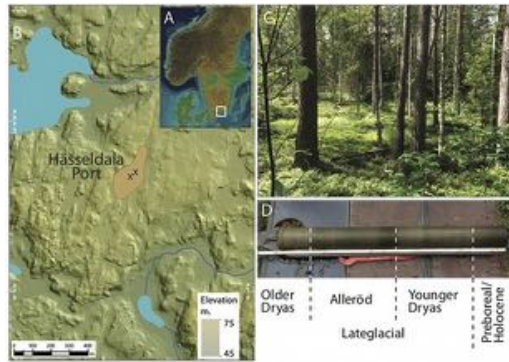


Genomics and landscape genetics

Identify potential barriers

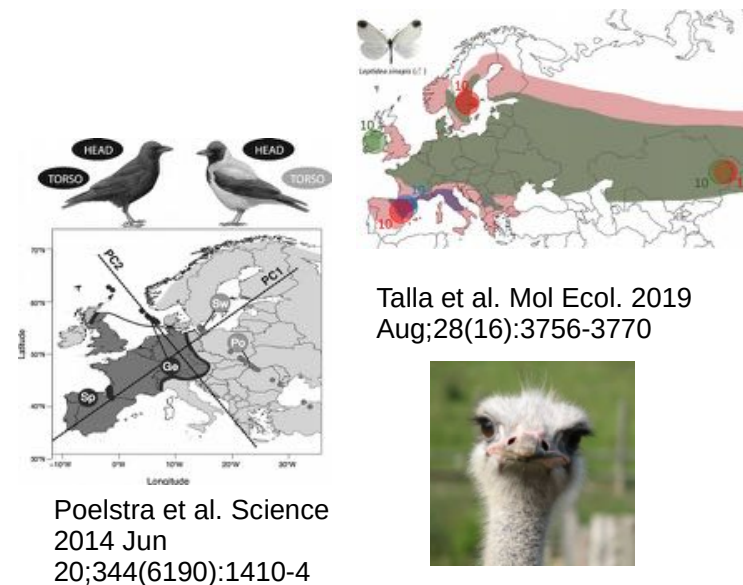
- Animal movement/Gene flow
- Isolated populations
- Conservation units

aDNA

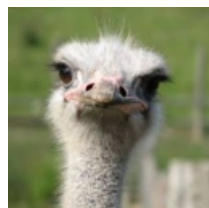


Ahmed et al. Quat. Sci. Rev., 181 (2018), pp. 19-29

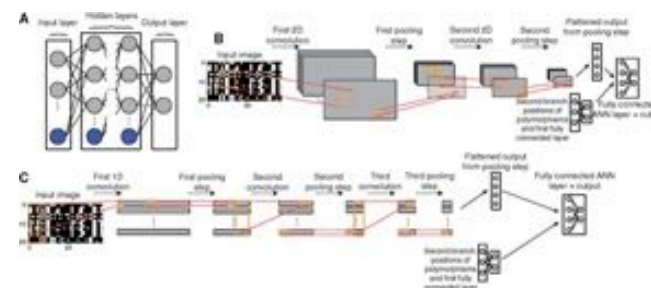
Speciation and population genetics



Talla et al. Mol Ecol. 2019 Aug;28(16):3756-3770

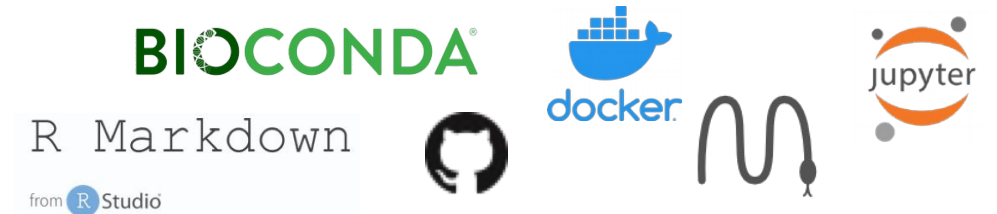


Deep learning

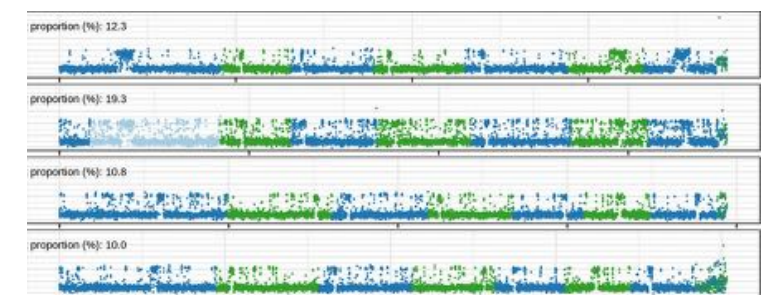


Flagel et al. Mol Biol Evol. 2019 Feb 1;36(2):220-238

Reproducible research



Transposon biology



Genome assembly





UiO • Natural History Museum
University of Oslo



Margret Veltman, PhD candidate



- MSCA-ITN Plant.ID
PhD dissertation:
"Genomic barcoding to
identify and trace traded
orchids"
- MSc Biology from
Wageningen University:
"Domestication and
dispersal of African rice"

Sofie Vranken



- 2012: MSc. Ecology & Evolution, Ghent University, Belgium
- PhD student, Wernberg lab, The University of Western Australia:
Common kelp (*Ecklonia radiata*):
population connectivity, local adaptation, (re)colonization
pathways, different reproduction modes



✉ sofie.vranken@research.uwa.edu.au

🐦 @vranken_sofie





Matthew Williams



The Australian Centre for Ancient DNA, University of Adelaide



B.A. Ancient Near Eastern History & Languages

M.A. Archaeology



**PhD. Candidate
Genetic History of the
Ancient Near East**

Dr. Yassine Souilmi

Dr. Raymond Tobler

Assoc Prof. Bastien Llamas



EFFECTIVE-POPULATION-SIZE
ADMIXTURE
COALESCENT
POPULATION
POPULATION-STRUCTURE
GENEALOGY
SFS
WRIGHT-FISHER



GENETIC-DRIFT
SELECTION
MUTATION
SIMULATION
GENETICS
RANDOM-MATING
RECOMBINATION
MIGRATION



Bucknell
UNIVERSITY

Dr. Tanisha Williams

David Burpee Postdoctoral Fellow
Botany Conservation, Genetics, and
Ecology & Evolution of Plant Reproduction Group
Biology Department
Bucknell University, Pennsylvania, United States

tmw018@bucknell.edu

 @T_Marie_Wms



Past Research: plant ecology, plasticity, functional traits, climate science using common gardens, species distribution modeling, and phenology/herbarium specimens (South Africa)

** I have dabbled in population genetics research trying to understand gene flow and hybridization patterns among three Populus species found throughout California and Nevada.*



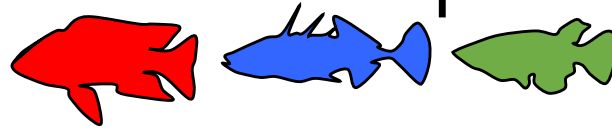
Current Research: conservation science (rare species in Pennsylvania), new species discovery (Australia), ecology and evolution of plant reproduction in the plant family Solanaceae (Australia)

****** I am currently using GBS tools to understand how biogeographic barriers impact population structure in a widespread legume found throughout northern Australia.

Lengxob 'Lenny' YONG

Evolution | Color | Behavior | Genomics

Post-Doctoral Fellow

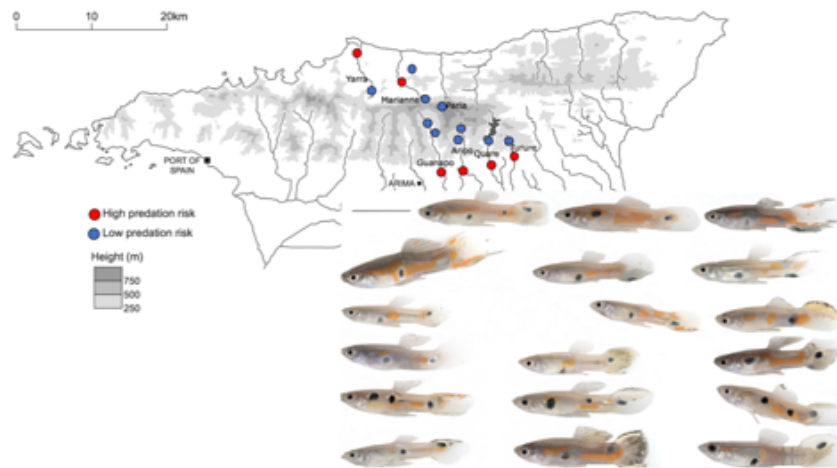


General Research Interest:

Evolutionary genetics of sexual conflict and/or differences

Current Work:

Evolutionary genetics of male color polymorphism (and related chromosomal evolution) in guppies



Current Pls:



Alastair Wilson



Deborah Charlesworth (co-PI)