workshop on population and speciation genomics

Český Krumlov
Summer, 2022
objectives

• settings and logistics
• introductions
• workshop history
• establishing expectations
f.a.q.

• where are the restrooms?

• coffee breaks?
  • approx. 10:00 in the lecture hall
  • anytime in House of Prelate (Computer Lab)

• where and when to eat?
  • workshop map on the main schedule page
  • information from Daniel Kintzl
  • ask the team
  • times: 12-14, 17-19
  • late night dining options are limited
The Organizing Team

Julia

Scott

Milan

Jan

Michael

Walter

Britta

Emiliano
Teaching Assistants

Angela

Andrea

Hannes

Angelica
what
history
concepts
history
Woods Hole Workshop on Molecular Evolution

- Michael Cummings: Director (1988)
- Mitch Sogin: Director (1988)
- Walter Salzburger: Student (2002)
- Michael & Scott have dinner in DC (2007)
CDC loves trees
why Český Krumlov?
what is a Cheskie Kroomlav?
why Český Krumlov?

- reasonably priced
- relatively close to major airports
- three l’s
  - Isolated
  - Idyllic
  - Infrastructure
- support from the local community
workshops go global

2007
Michael & Scott have dinner in DC

2008
Workshop on Molecular Evolution
Český Krumlov

2009
Workshop on Molecular Evolution
Český Krumlov

2011
Workshop on Genomics
Český Krumlov

2016
Workshop on Phylogenomics
Český Krumlov

2017
Workshop on Population and Speciation
Genomics
Český Krumlov
schedule in detail

notable social events

- Saturday
  - meet at 6-7pm in the Town Square for a group tour of Český Krumlov
  - tour will finish with dinner (location TBD)
- Sunday
  - free day. More information from Daniel Kintzl shortly
- Friday
  - you plan end-of-workshop dinner / party
key locations
Egon Schiele Museum

Zlaty Andel & Music Bar

Infocentrum

Prelate (computer lab)
expectations
• exhaustion

• watch your health

• stay hydrated (ask a staff member about the magical powers of fizzy water)

• let a staff member know if you are not feeling well

• **If you do not feel well do not come to class!**

• frustrations

• you will likely not finish every step of every exercise

• application bugs, connectivity issues

• you will not become an expert in 2 weeks
approach and attitude

- patience!
  - you have 2 weeks together!
- sleep
- ask questions (Slack)
- everything will be available on the web after the course is over
- have fun, make new friends and colleagues, enjoy Krumlov
- WORK WITH YOUR NEIGHBORS
Won’t you be my neighbor?
awk '{printf $3 "\t" $4}' text.txt
Thanks neighbor
code of conduct

http://evomics.org/information/code-of-conduct/

All attendees, instructors and faculty at our workshops are required to agree with the Evomics Workshops code of conduct. Organisers will enforce this code throughout the event. We expect cooperation from all participants to help ensure a safe environment for everybody. Those found to be in violation of this code of conduct will be subject to expulsion from all Workshop activities at the request of the workshop organisers.

Our Code of Conduct

Our workshops are dedicated to providing a supportive and harassment-free environment for everyone, regardless of gender, gender identity and expression, age, sexual orientation, disability, physical appearance, body size, race, ethnicity, religion (or lack thereof), or technology choices. We do not tolerate harassment of conference participants, instructors or faculty in any form.

Harassment includes offensive verbal comments, sexual images in public spaces, deliberate intimidation, stalking, following, harassing photography or recording, sustained disruption of talks or other events, inappropriate physical contact, deliberate behaviour to exclude, intimidate, or cause discomfort, and unwelcome sexual attention. This applies to any workshop venue, including talks, workshops, social events, parties, slack, Facebook, Twitter and other online media, and any other non-official events or activities taking place over the duration of the workshop.

If anyone engages in harassing behaviour, the organisers may take any action they deem appropriate, ranging from warning the offender or expulsion from the workshop without a refund. This includes the storage of personal information pertinent to the incident.

If you are being harassed, notice that someone else is being harassed, or have any other related concerns, please contact a member of the organising team immediately. A point of contact dedicated to dealing with these issues will be highlighted during the welcome talk, but please know that you can discuss issues with the Workshop directors.
• dates back to the 2nd half of the 14th century
• one of the oldest buildings in Krumlov (Gothic period)
• has housed several breweries between the 1596 - 1865
• important for us:
  • fully wired and wireless internet
  • power distribution
lab policy

• no food or drink inside the computer hall
• wipe feet before entering
• coats in the coatroom
• do not touch the walls (frescoes) - painter died in 1791
• strict arrival and departure times
• wash your own coffee mugs
post lab discussions

• important feature of the Workshop

• Music bar (tonight), Zappa Bar, Apotheka
• information from Daniel Kintzl
Workshop 2022

WELCOME!
Where can I eat – partner restaurants, pubs?
Where can I buy a food – bakery, fruit...?
I don´t feel well – Pharmacy, Hospital?
Other services – Taxi, exchange?
What to do – facultative programms?
Where can I eat – restaurants, pubs...?

Together with our partners we prepared special - cheaper boarding possibilities. Please respect the payment condition of each of these restaurants - we recommend payment cash in CZK. You can enjoy also your meal in approximately 30 others restaurants, coffees and pubs in the town. PARTNER RESTAURANTS – for getting discount or special price show your workshop name tag to the staff. This offer is valid only from 22<sup>nd</sup> May till 17<sup>th</sup> June 2022. TIP: ca. 10% if you are satisfied, 15% if you are pleased with the service (my rules DK) ...
Restaurant – PUB DEPO
Lunch menu 139,- CZK or 10% Discount
Dinner 10% discount
Art: Czech and international cuisine

Restaurant Laibon
Lunch menu 130,- CZK or discount 10%
Dinner 15% discount a la carte
Art: vegetarian cuisine

Restaurant Švejk
10 % Discount
Art: Czech and international cuisine
EGON Café
10 % Discount
Art: Nespresso, sendwiges, cakes, Limite opening time – ask th staff

Restaurant Don Julis (Hotel Zlaty Andel)
10 % Discount
Art: Czech and international cusien

Restaurant Maštal
10 % Discount
Art: Czech and international cusien
Restaurant Šatlava
5 % Discount
Art: Grill restaurant

Restaurant Mill (Krumlovský Mlýn)
5 % Discount
Art: Czech and international cuisine

Fast-food and Café:
Theater Club Antré - Horní Street (the Town Theater), Café & Wine Bar Kolektiv – Latran Str.,
Kabab House – Linecká Str.,

Other recommended restaurants in the town centre:
Hospoda na Louži – Czech cuisine, with the local beer Eggenberg (PUB)
More restaurants, pubs, bars under: http://www.crumlov.info/gastronomy
Where I can buy some food – markets & drugstores in the town centre:
Bigger supermarkets are out of the town center:

How to get to the Hypermarkets outside the centre?
1) by Taxi (cca 170,- CZK one way) / 00420 380 712 712
2) by local bus – main bus station to bus stop “U Supermarketu”
timetable: www.idos.cz or ask at the Infocentrum
I don’t feel well – Pharmacy, Hospital...

A) Infocentrum Český Krumlov or ask on your hotel reception
B) Pharmacy Lloyds (Mon-Sat)
C) Hospital Český Krumlov Tel.: 00420 380 761 111 (Pharmacy Mon-Fri)
D) Pharmacy BENU (open daily) - in Hypermarket Kaufland

Emergency Telephone numbers:
112 Emergency / 150 Fire brigade / 155 First aid / 156 Town police / 158 State police
LAUNDERING - Please ask in your guest house or use the discounted service at the Hotel Zlatý Anděl

Exchange:
At Infocentrum or in the Bank or use the ATM
(we don’t recommend the Exchange “Check Point”!)

TAXI Krumlov
Call: 00420 380 712 712
or ask at the Infocentrum or on your hotel reception
What to do – special facultative offer

TOWN TOUR + WORKSHOP DINNER
DATE: Saturday 11th May at 6 p.m., Place....??
WHERE: Meeting point on the main square near the St. Mary column
no tickets - just be there
combi-ticket into 5 museums / half-price admission / pay once and go...

Price: 400,- CZK per person (200,- CZK)

TICKETS: available only at Infocentrum – Tickets service.
Baroque Theatre of ČESKÝ KRUMLOV CASTLE (V. castel courtyard) with English speaking guide
Price: 300,- CZK per person
DATE:
Sunday 12th May at 02 p.m. (20 places), Meeting: Infocentrum 01:00 p.m.
THIS TICKETS are available only at Infocentrum – Tickets service.
2HOUR of YOGA

June 9th (beginning at 12:15 p.m.) + June 16th (beginning 12:15 p.m.)

Price for two lessons: 290,- CZK (2 x 1 hour Yoga / max. 15 persons)
WHERE: In the Lector venue in Egon Schiele Art Centre (on a sunny day in the park)
Tickets available at Infocentrum on the square
EASY HIKING & RAFTING ca. 5 hours long trip
Where: from Český Krumlov to Zlatá Koruna (Golden Crown) Date: Sunday the 12th June
Price: 400,- CZK per Person (place in boat, lifejacket, paddle...)
Beginning: Sunday the 12th June at 1.00 p.m. , meeting in Infocentrum
Capacity: min. 10 persons max. 36 (6 rafts)
tickets available at Infocentrum till Saturday the 11th June till 5 p.m.
Czech and regional MORAVIAN WINE WITH COMMENTARY and taste of local specialties and delicacies...

Price 950,- CZK per. person

Where: Wine shop St. Christopher (Fairytale House), Radniční Str. 29,

Beginning: Sunday the 12th June at 7 p.m.

Capacity: min. 10 per. max. 34 per. for the tasting

tickets available at Infocentrum till Saturday the 11th May till 5 p.m.
PICTURE FROM THE HISTORICAL PHOTOSTUDIO SEIDEL
Date: every day except Monday from 9 a.m. till 2 p.m. (lunches time 12 – 01 p.m.)
Payment directly in the Museum
Climb on – Via Ferrata

Just a few minutes' walk from the centre of Český Krumlov, on the right bank of the Vltava River on the rock formation known as Havraní skála (The Raven Rock), is the first Via ferrata. The first route with difficulty C is currently open for more experienced ferratists. If you are new to ferrata climbing, you can book an instructor who will go through the route with you and teach you the skills for safe climbing.

Ferrata Havranka

The first route of the ferrata, with difficulty level C, is currently accessible. In 2022, two more routes of difficulty levels C and C/D are planned, as well as a children's route of difficulty level B.
Swimming pool in Cesky Krumlov - Opening hours for public

6 – 8 a.m. except Monday
12 – 2 p.m. except Monday
General rules for facultative trips and activities 2022

1) If you need cancel your ticket, please bring it personally to the Infocentrum before the dead line of each activity. The cancellation after the trip cannot be accepted.

2) If you have any questions or if you were discontented with some service, please contact Mr. Daniel Kintzl from Infocentrum or inform the staff at the Infocentrum – front office

3) All offered programs and times are subject to changed mostly regarding the weather or personal capacity.

4) For the offers aren’t provided discounts (ISIC Card, ITYC Card …)

For other leisure activities – Horseback riding, guided town tours, swimming, ice skating… ask the staff of Infocentrum on the main square:

Infocentrum Český Krumlov:
Náměstí Svornosti 2 / 38101 Český Krumlov /
Telephone: +420 380 704 622, E-mail: info@ckrumlov.info,
www.ckrumlov.info/infocentre
Good morning >> Dobré ráno

How are you? >> Jak se máš?

I'm thirsty to drink my own eye >> mám žízen, že bych si vypil vlastní oko

Can I invite you for a drink? >> Mohu tě pozvat na drink?

Thank you, its kind >> Děkuji, to je milé

fizzy water and one beer please >> perlivou vodu a pivo

Cheers! >> Na zdraví
enjoy the workshop
Welcome!
<table>
<thead>
<tr>
<th>Name</th>
<th>Sun 05.06</th>
<th>Mon 06.06</th>
<th>Tue 07.06</th>
<th>Wed 08.06</th>
<th>Thur 09.06</th>
<th>Fri 10.06</th>
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<td>Matteo Fumagalli</td>
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<td>Flora Jay</td>
<td>Present full day</td>
<td>Arrival/departure day</td>
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<td>Simon Myers</td>
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<td>Fabrizio Mafessoni</td>
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</table>
Participants (by country of host institution)

- Argentina
- Australia
- Austria
- Chile
- Czech Republic
- Denmark
- Germany
- Iceland
- Ireland
- Italy
- Latvia
- Netherlands
- Norway
- Poland
- Portugal
- Saudi Arabia
- South Africa
- Spain
- Sweden
- Switzerland
- UK
- United Arab Emirates
- USA
<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Time</th>
<th>Instructor(s)</th>
<th>Activity</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>6 Jun</td>
<td>Monday</td>
<td>10:30-12:00</td>
<td>Michael Matschiner</td>
<td>Likelihood and probability</td>
<td>Egon Schiele</td>
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<td></td>
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<td>14:00-17:00</td>
<td>Workshop Team</td>
<td>AMI introduction/Probability activity</td>
<td>Prelate</td>
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<td>19:00-22:00</td>
<td>Everyone</td>
<td>Participant introduction</td>
<td>Prelate</td>
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<tr>
<td>7 Jun</td>
<td>Tuesday</td>
<td>9:00-12:00</td>
<td>Rasmus Nielsen</td>
<td>Population genomics</td>
<td>Egon Schiele</td>
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<td>14:00-17:00</td>
<td>Rasmus Nielsen and Thorfinn Korneliussen</td>
<td>ANGS activity</td>
<td>Prelate</td>
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<td>19:00-22:00</td>
<td>Rasmus Nielsen and Thorfinn Korneliussen</td>
<td>ANGS activity (continued)</td>
<td>Prelate</td>
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<tr>
<td>8 Jun</td>
<td>Wednesday</td>
<td>9:00-12:00</td>
<td>Matthew Hahn</td>
<td>Coalescent theory and introgression</td>
<td>Egon Schiele</td>
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<td>14:00-17:00</td>
<td>Matthew Hahn and Workshop Team</td>
<td>D-statistics activity</td>
<td>Prelate</td>
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<td>19:00-22:00</td>
<td>Matthew Hahn and Workshop Team</td>
<td>D-statistics activity (continued)</td>
<td>Prelate</td>
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<td>9 Jun</td>
<td>Thursday</td>
<td>9:00-12:00</td>
<td>Vitor Sousa</td>
<td>Model-based inference of population history</td>
<td>Egon Schiele</td>
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<td>14:00-17:00</td>
<td>Workshop Team</td>
<td>Species tree inference activity</td>
<td>Prelate</td>
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<td>19:00-22:00</td>
<td>Vitor Sousa</td>
<td>fastsimcoal2 activity</td>
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<td>10 Jun</td>
<td>Friday</td>
<td>9:00-12:00</td>
<td>Leonie Moyle</td>
<td>Selection and adaptation</td>
<td>Egon Schiele</td>
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<td>14:00-17:00</td>
<td>Derek Setter</td>
<td>Sweep detection</td>
<td>Prelate</td>
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<td>19:00-22:00</td>
<td>Pieter Clauw</td>
<td>GWAS</td>
<td>Prelate</td>
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<tr>
<td>11 Jun</td>
<td>Saturday</td>
<td>9:00-12:00</td>
<td>Walter Salzburger</td>
<td>The genomics of organismal diversification</td>
<td>Egon Schiele</td>
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<td>14:00-17:00</td>
<td>Workshop Team</td>
<td>Open lab</td>
<td>Prelate</td>
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<td>18:00–</td>
<td>Everyone</td>
<td>Town Tour (18:00) and Dinner (19:00–)</td>
<td>Meet in Town Square</td>
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<td>Time</td>
<td>Name(s)</td>
<td>Topic</td>
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<tr>
<td>13 Jun</td>
<td>9:00–12:00</td>
<td>Chris Jiggins</td>
<td>Speciation with gene flow</td>
<td>Egon Schiele</td>
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<td>14:00–17:00</td>
<td>Alexander Suh</td>
<td>Structural variation</td>
<td>Egon Schiele</td>
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<td>19:00–22:00</td>
<td>Valentina Peona</td>
<td>Structural variation activity</td>
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<tr>
<td>14 Jun</td>
<td>9:00–12:00</td>
<td>Matteo Fumagalli and Flora Jay</td>
<td>Machine learning</td>
<td>Egon Schiele</td>
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<td></td>
<td>14:00–17:00</td>
<td>Flora Jay</td>
<td>Demography inference with ML activity</td>
<td>Prelate</td>
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<td></td>
<td>19:00–22:00</td>
<td>Matteo Fumagalli</td>
<td>Selection inference with ML activity</td>
<td>Prelate</td>
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<tr>
<td>15 Jun</td>
<td>9:00–12:00</td>
<td>Simon Myers</td>
<td>Tree sequences</td>
<td>Egon Schiele</td>
<td></td>
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<tr>
<td></td>
<td>14:00–17:00</td>
<td>Simon Myers, Jasmin Rees, and Leo Speidel</td>
<td>Relate activity</td>
<td>Prelate</td>
<td></td>
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<td></td>
<td>19:00–22:00</td>
<td>Workshop Team</td>
<td>Open lab</td>
<td>Prelate</td>
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</tr>
<tr>
<td>16 Jun</td>
<td>9:00–12:00</td>
<td>Georgia Tsambos</td>
<td>Simulation</td>
<td>Egon Schiele</td>
<td></td>
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<tr>
<td></td>
<td>14:00–17:00</td>
<td>Georgia Tsambos</td>
<td>Simulation with msprime activity</td>
<td>Prelate</td>
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<td></td>
<td>19:00–22:00</td>
<td>Georgia Tsambos</td>
<td>Inference with tsinfer activity</td>
<td>Prelate</td>
<td></td>
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<tr>
<td>17 Jun</td>
<td>9:00–12:00</td>
<td>Fabrizio Mafessoni</td>
<td>Ancient genomics</td>
<td>Egon Schiele</td>
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<td></td>
<td>14:00–17:00</td>
<td>Workshop Team</td>
<td>Wrap-up</td>
<td>Prelate</td>
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<td>19:00–22:00</td>
<td>Everyone</td>
<td>End of Workshop Party</td>
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<tr>
<td>18 Jun</td>
<td>9:00–12:00</td>
<td>Everyone</td>
<td>Departure</td>
<td>Egon Schiele</td>
<td></td>
</tr>
</tbody>
</table>
Welcome to everyone who arrived early to Český Krumlov!!

- Preparation material: suggested reading and activities to get ready for the 2022 workshop!
- Map of important locations in Český Krumlov

## SCHEDULE

**Week 1: 5-11 June, 2022**

<table>
<thead>
<tr>
<th>DATE</th>
<th>DAY</th>
<th>TIME</th>
<th>PRESENTER</th>
<th>TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Jun</td>
<td>Sunday</td>
<td>4p - 6p</td>
<td>Workshop Team</td>
<td>UNIX primer (optional)</td>
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<td></td>
<td></td>
<td>7p - 10p</td>
<td>Everyone</td>
<td>Reception dinner and intro.</td>
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<tr>
<td>6 Jun</td>
<td>Monday</td>
<td>9a - 10:30a</td>
<td>Workshop Team</td>
<td>Workshop introduction</td>
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<td>10:30a - 12p</td>
<td>Michael Matschiner</td>
<td>Likelihood and probability</td>
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<td>2p - 3:30p</td>
<td>Workshop Team</td>
<td>AMI introduction</td>
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<tr>
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<td></td>
<td>3:30p - 5p</td>
<td>Workshop Team</td>
<td>Probability activity</td>
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<td>5p - 5:10p</td>
<td>Everyone</td>
<td>Group photo</td>
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<tr>
<td></td>
<td></td>
<td>7p - 10p</td>
<td>Everyone</td>
<td>Participant introduction</td>
</tr>
</tbody>
</table>


[https://wpsg2022_participants.slack.com](https://wpsg2022_participants.slack.com)

Workshop on Population and Speciation Genomics

#wpsg2022
• Explore Český Krumlov and take pictures
• A row, column or diagonal of five is a Bingo!
• Win the WPSG2022 Bingo! prize
WPSG | T-shirt design competition

Submission deadline:
Friday, June 10
The history and organization of the Workshop on Population and Speciation Genomics

Julia Mi Barrá, Scott Hanley, David Kintz, Guy Leonard, Milan Malinsky, Michael Matschiner, Britta Meyer, Walter Salamonde, Jan Stella, Sandro Turchet

All authors contributed equally and are sorted alphabetically.

Abstract

With the recent advances in high throughput genomics sequencing, this information has been integrated into the standard workflow in evolutionary biology and related fields. However, individual research groups are often not in the position to teach students about the most up-to-date methodology in the field. To fill this gap, workshops in evolutionary biology have been developed to provide an overview of the latest developments, as well as the opportunity to present your research to your peers. One of the workshops in the framework of the European Workshop on Population and Speciation Genomics (EWPSG) is the WPSG Workshop on Population and Speciation Genomics. We outline the activities of this workshop and the future of the WPSG Workshop on Population and Speciation Genomics.
Dear participants,

The Workshop on Population and Speciation Genomics is fast approaching. While the availability of vaccines and other factors lead to an easing of Covid restrictions in most countries, the disease is still circulating and many of you might have been wondering about our approach to Covid-related risks. Overall, we hope the workshop is going to be an immersive experience, with many scientific and social interactions among participants, faculty, and organisers. We believe that these interactions will stimulate learning, collaborations, new inspiration, and ultimately scientific progress.

To be able to enjoy the benefits of the workshop, please read and take seriously the following guidelines. Covid mitigation/guidelines:
1) All participants are fully vaccinated. This has been checked during registration.
2) We strongly encourage everyone to take a Covid test on the day before departure. If you test positive, please do not come to Czech Kroměříž but inform us and your course fee will be fully refunded. We are not going to enforce this as a rule, but please do take the pre-departure test, especially if you don’t feel 100%. If you arrive to Czech Kroměříž with Covid and spread it around you may ruin the entire workshop for many others.
3) We strongly encourage wearing masks during the group indoor learning activities (e.g., in the House of Prints). This is especially important at the beginning.
4) We will attempt to mitigate the risks in the organisation: e.g., we will endeavour to organise social program outdoors rather than indoors where possible.
5) Masks and tests will be available from the organisers.
6) We will especially encourage (but not enforce) at least one test shortly after arrival (e.g., 3 or 4 days after travel) ... please do this for the benefit of the entire workshop.

We also note that the laws of the Czech Republic require anyone diagnosed with Covid to isolate a minimum of 7 days. In the unfortunate case that someone tests positive, we will of course follow the law. We would also help isolated cases with food deliveries etc. and in any case isolate participants with some online activities as far as possible if their health allows.

We hope that everyone remains healthy and that we will all enjoy an exciting and stimulating two weeks in Czech Kroměříž. The workshop begins this Sunday, 5th July at 15:00 with a welcome dinner and reception at Hotel Zlatý Anděl on the main square (likely outdoors in front of the hotel). For those who have signed up for UNIX primer, the start is even earlier at 16:00 in the computer laboratories of the House of Prints (details will be communicated separately).

Best wishes,
This Workshop Team