

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

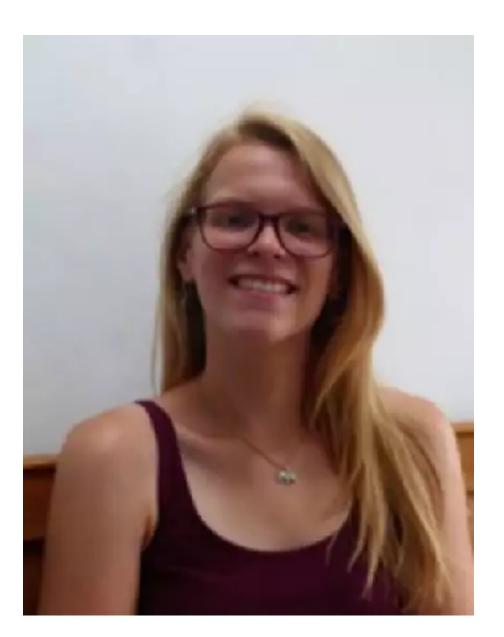


Emiliano

Teaching Assistants



Angela



Andrea



Hannes



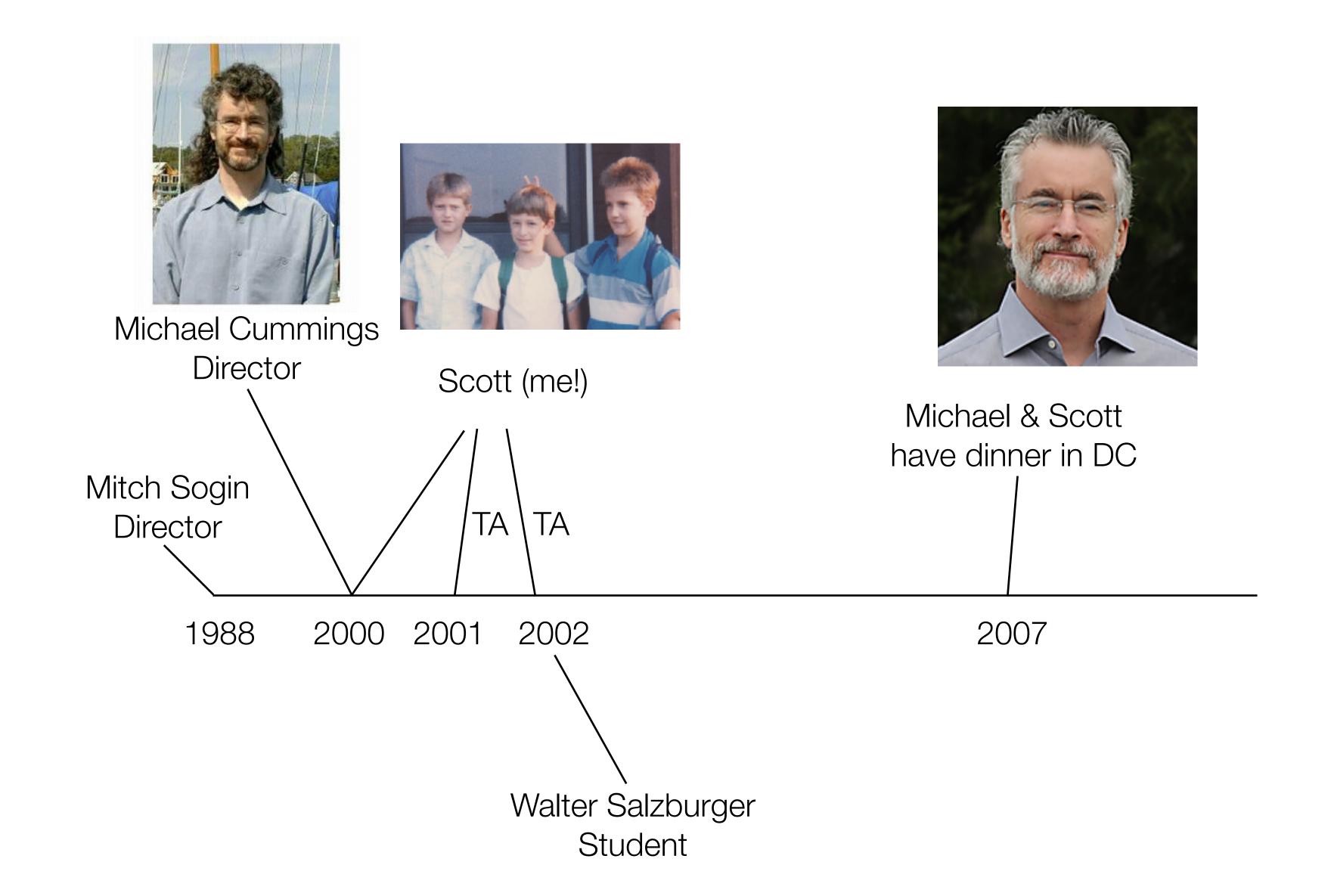
Angelica

what
history
concepts

history

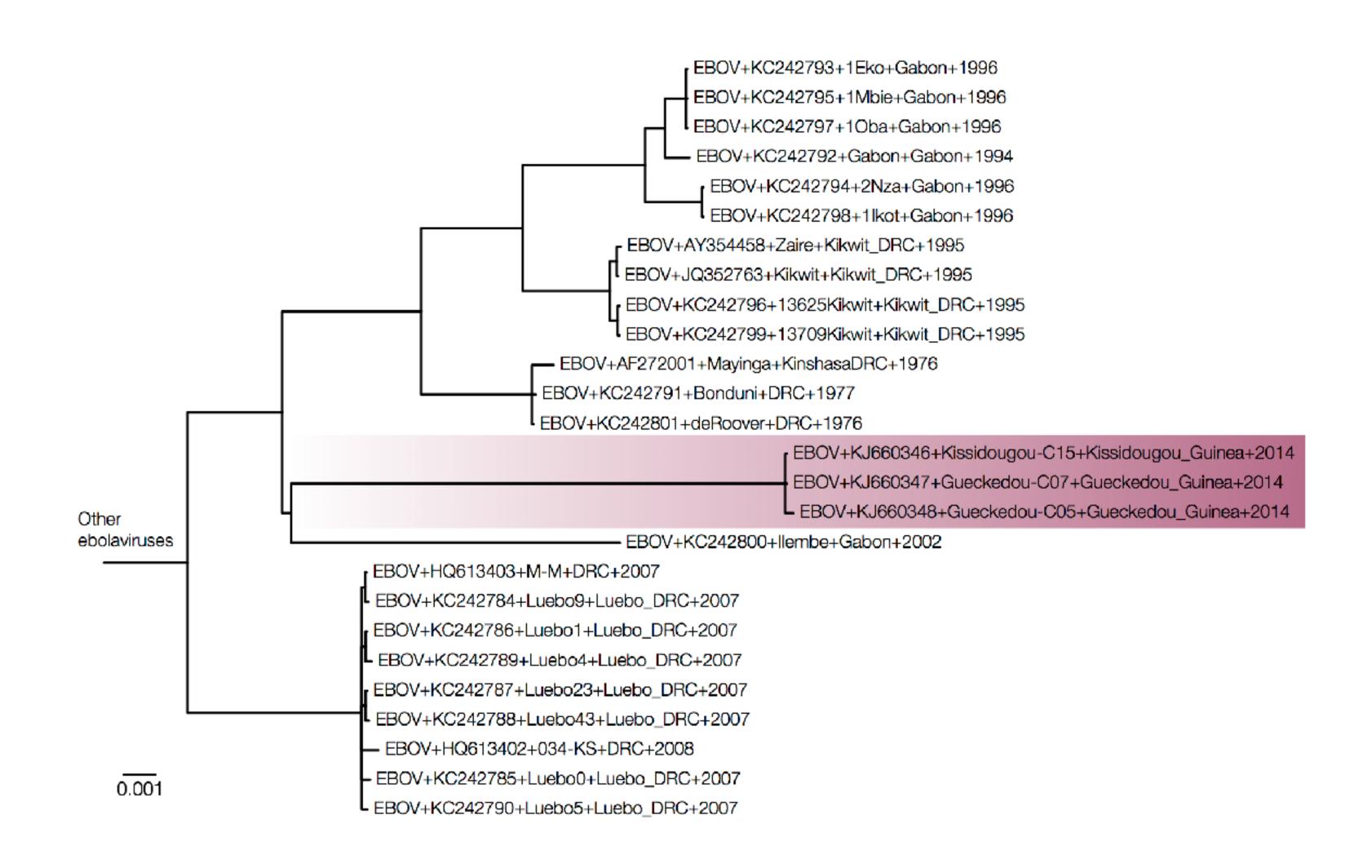


Woods Hole Workshop on Molecular Evolution





CDC loves trees



why Český Krumlov?



what is a Cheskie Kroomlav?

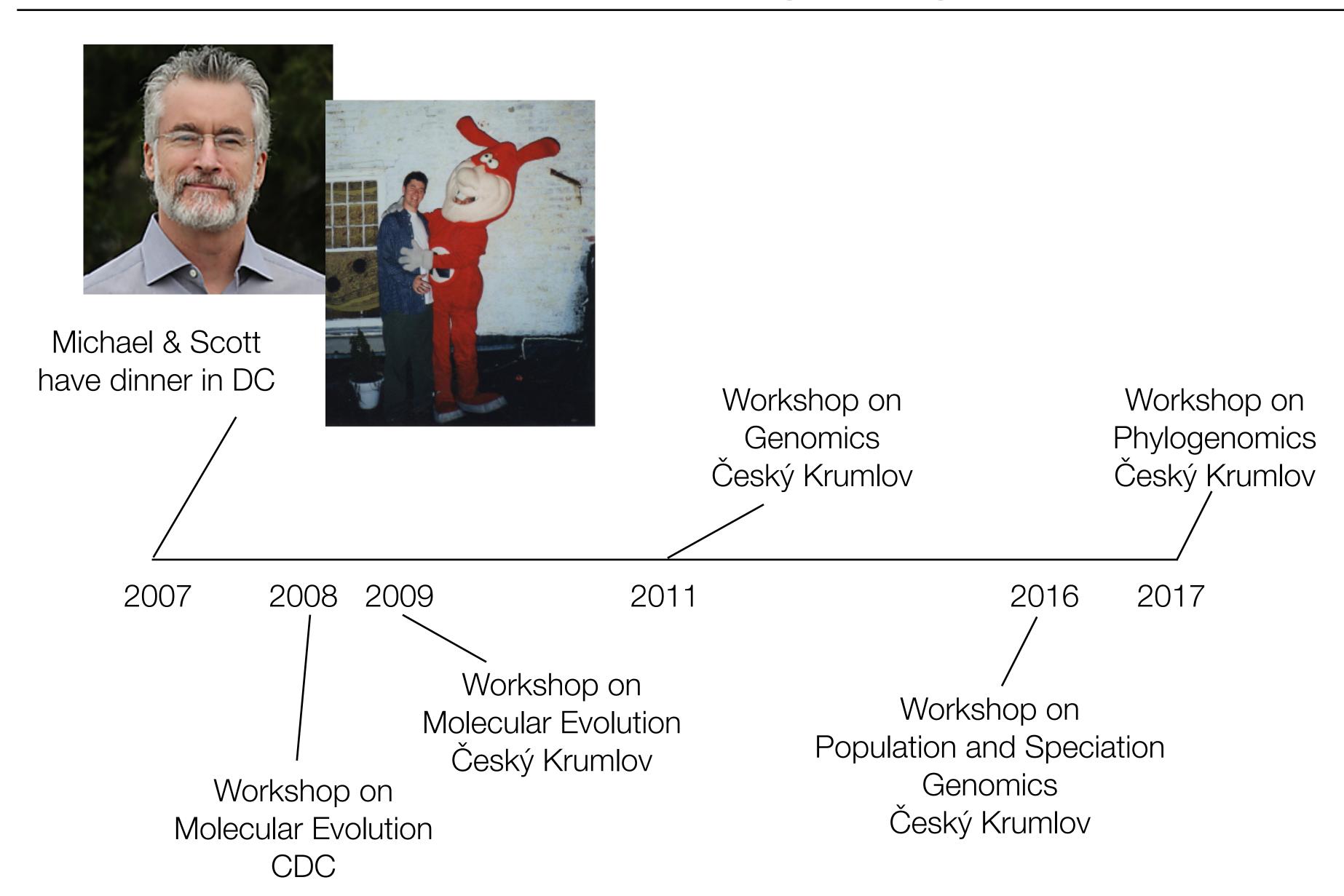


why Český Krumlov?

- reasonably priced
- relatively close to major airports
- three I's
 - Isolated
 - Idyllic
 - Infrastructure
- support from the local community



workshops go global



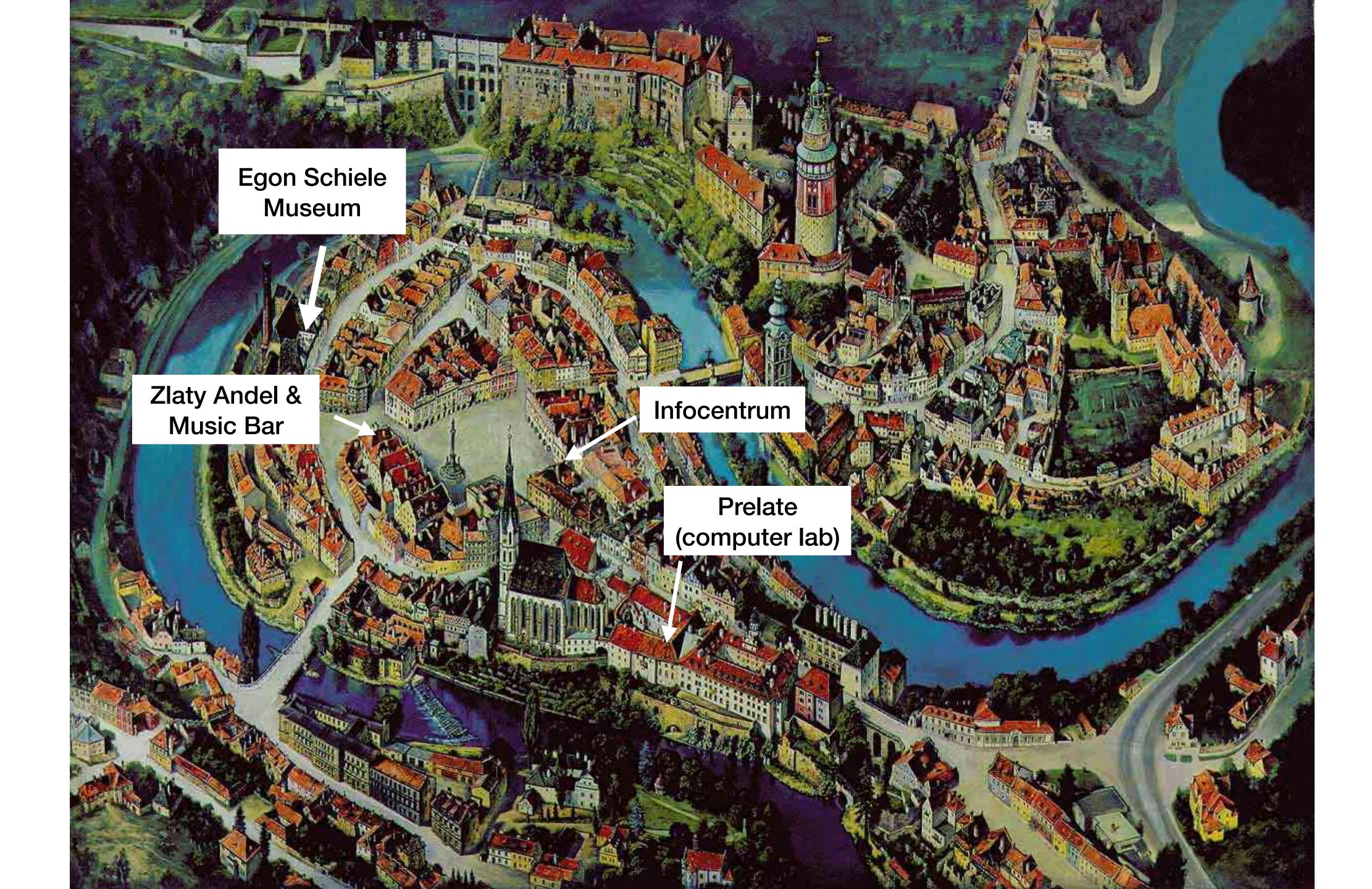
schedule in detail

http://evomics.org/2022-workshop-on-population-and-speciation-genomics-cesky-krumlov/

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



expectations

phenomena

- 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



awk '{pirnt \$3 "/t' \$4)' text.txt



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.

computer lab

- 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



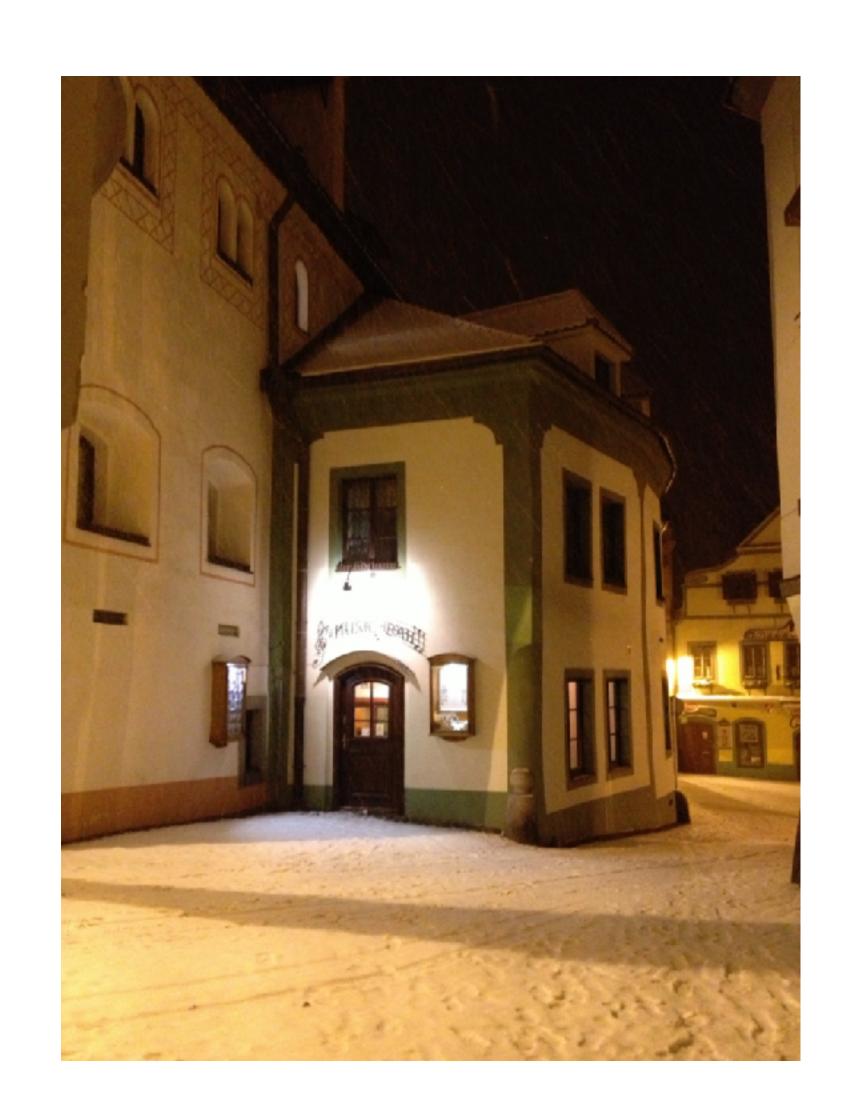
lab policy

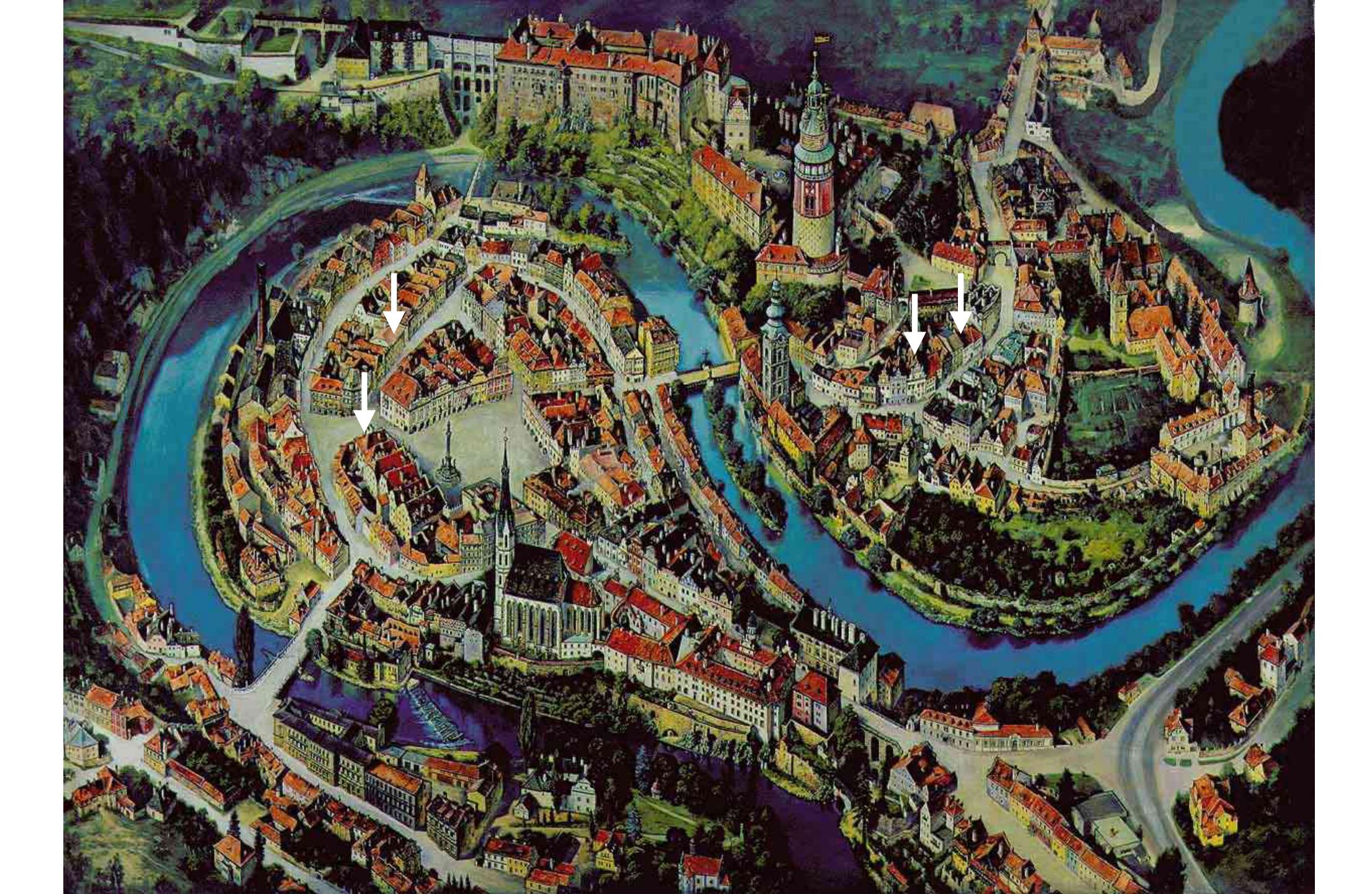
- no food or drink inside the computer hall
- wipe feet before entering
- coats in the coatroom
- do not touch the walls (frescoes)painter died in 1791
- strict arrival and departure times
- wash your own coffee mugs



post lab discussions

- important feature of the Workshop
- Music bar (tonight), Zappa Bar, Apotheka





next

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 22nd May till 17th 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 cusien



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 (Krumlvoský Mlýn)

5 % Discount

Art: Czech and international cusien





Fast-food and Café:

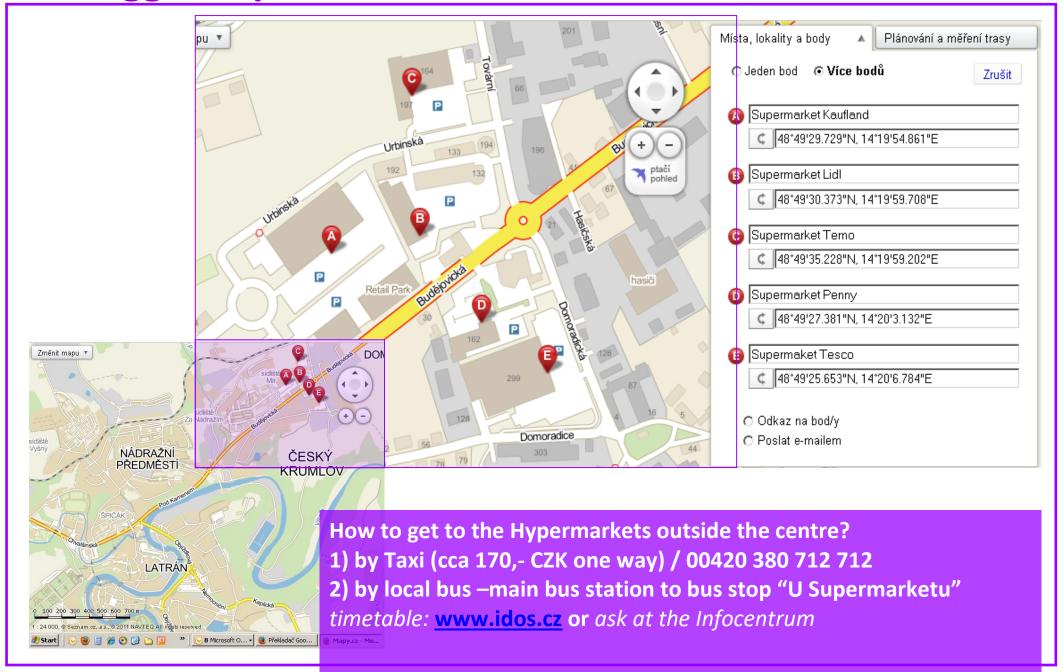
Theater Club Antré - Horní Street (the Town Theater), Café & Wine Bar Kolektiv – Latran Str., Kabab House – Linecká Str.,

Other recommended restaurants in the town centre:

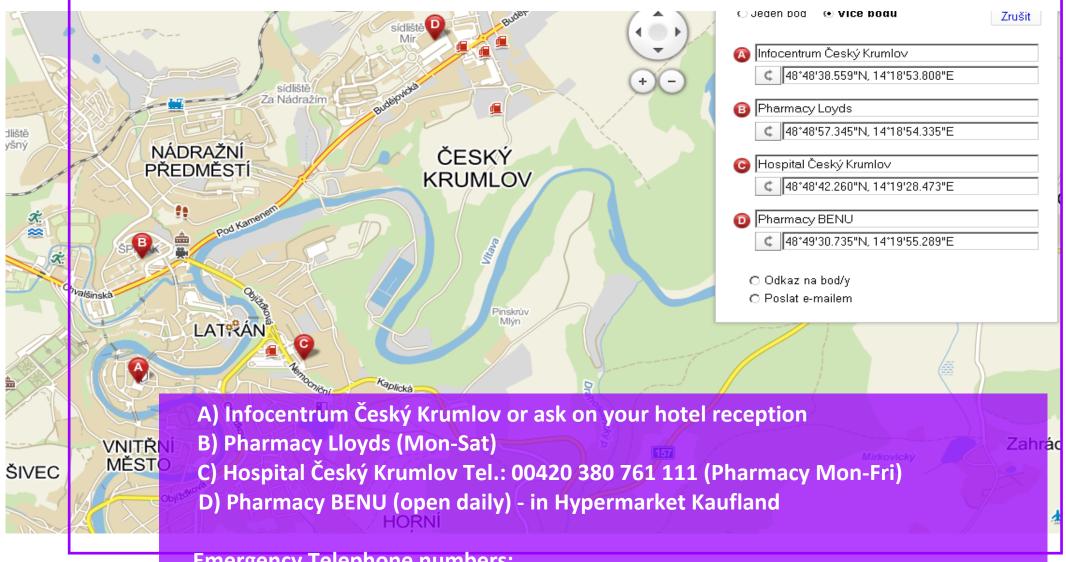
Hospoda na Louži – Czech cuisine, with the local beer Eggenberg (PUB)

More restaurants, pubs, bars under: http://www.ckrumlov.info/gastronomy

Bigger supermarkets are out of the town center:



I don't feel well - Pharmacy, Hospital ...:



Emergency Telephone numbers:

112 Emergency / 150 Fire brigade / 155 First aid / 156 Town police / 158 State police



TAXI Krumlov

Call: 00420 380 712 712

or ask at the Infocentrum or on your hotel reception

(we don't recommend the Exchange "Check Point"!)

LAUNDERING - Please ask in you gust house or use the discounted service et the Hotel Zlaty Andel

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

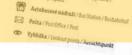
no tickets - just be there



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 12^{th May} at 02 p.m. (20 places), Meeting: Infocentrum 01:00 p.m.

THIS TICKETS are available only at Infocentrum – Tickets service.





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)

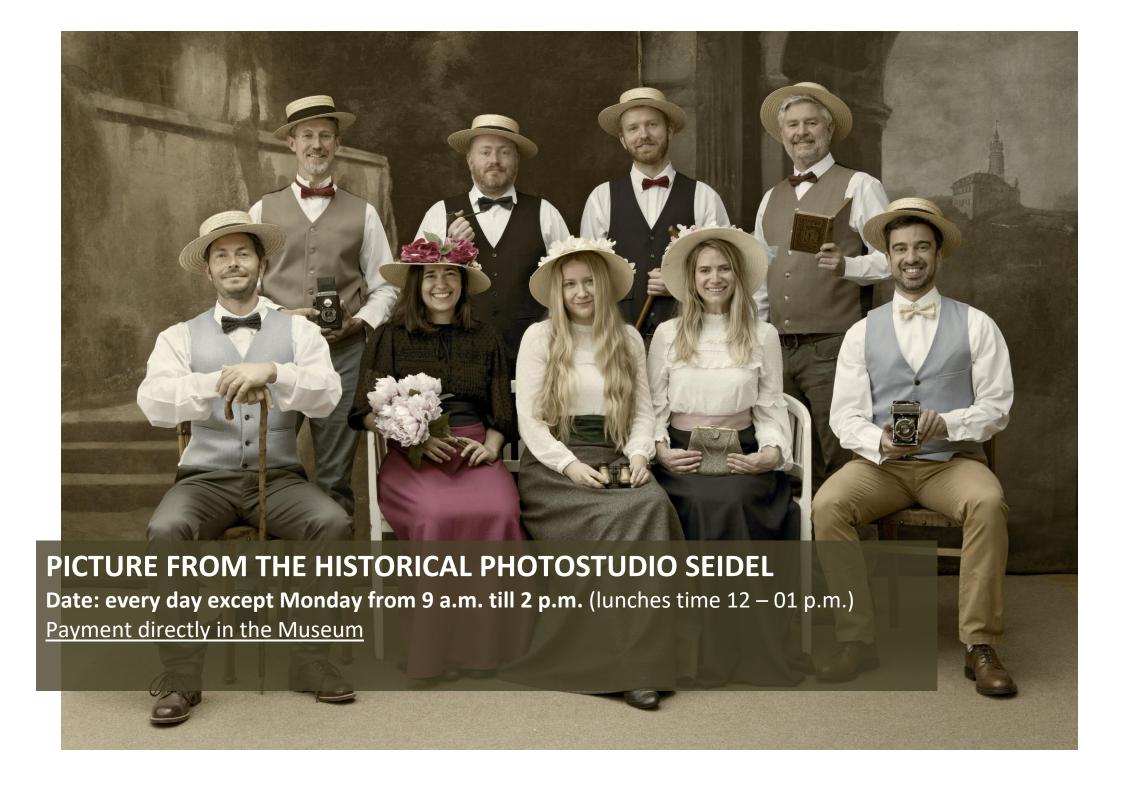
tickets available at Infocentrum till Saturday the 11th June till 5 p.m.



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.



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 knows 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.



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:

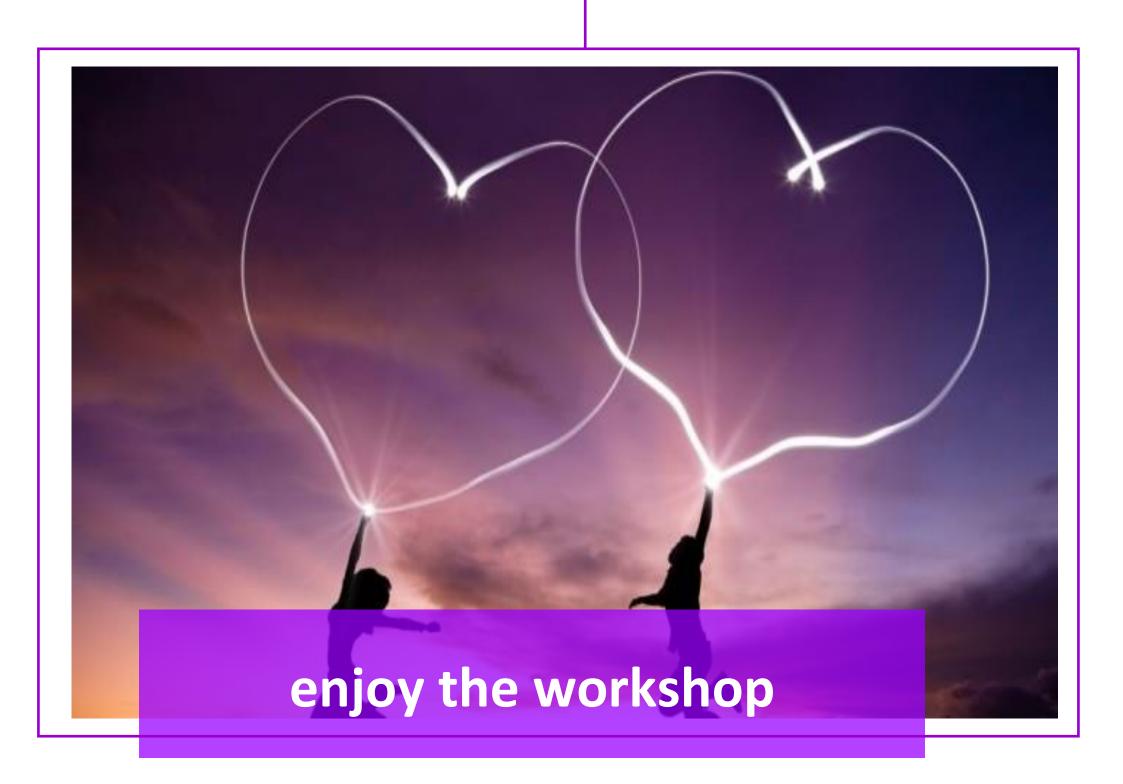
Náměstí Svornosti 2 / 38101 Český Krumlov /

Telephone: +420 380 704 622, E-mail: info@ckrumlov.info,

www.ckrumlov.info/infocentre

PRACTICAL CONVERSATION...







WPSG | Team



WPSG | Faculty



Pieter Claw



Matteo Fumagalli



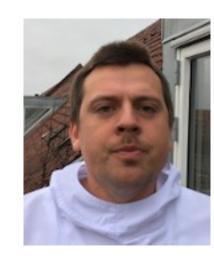
Matthew Hahn



Flora Jay



Chris Jiggins



Thorfinn Korneliussen



Fabrizio Mafessoni



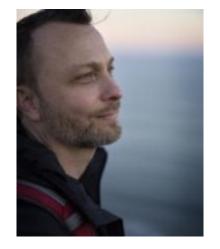
Michael Matschiner



Leonie Moyle



Simon Myers



Rasmus Nielsen



Valentina Peona

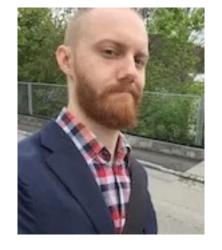




Jasmin Rees



Walter Salzburger



Derek Setter



Vitor Sousa



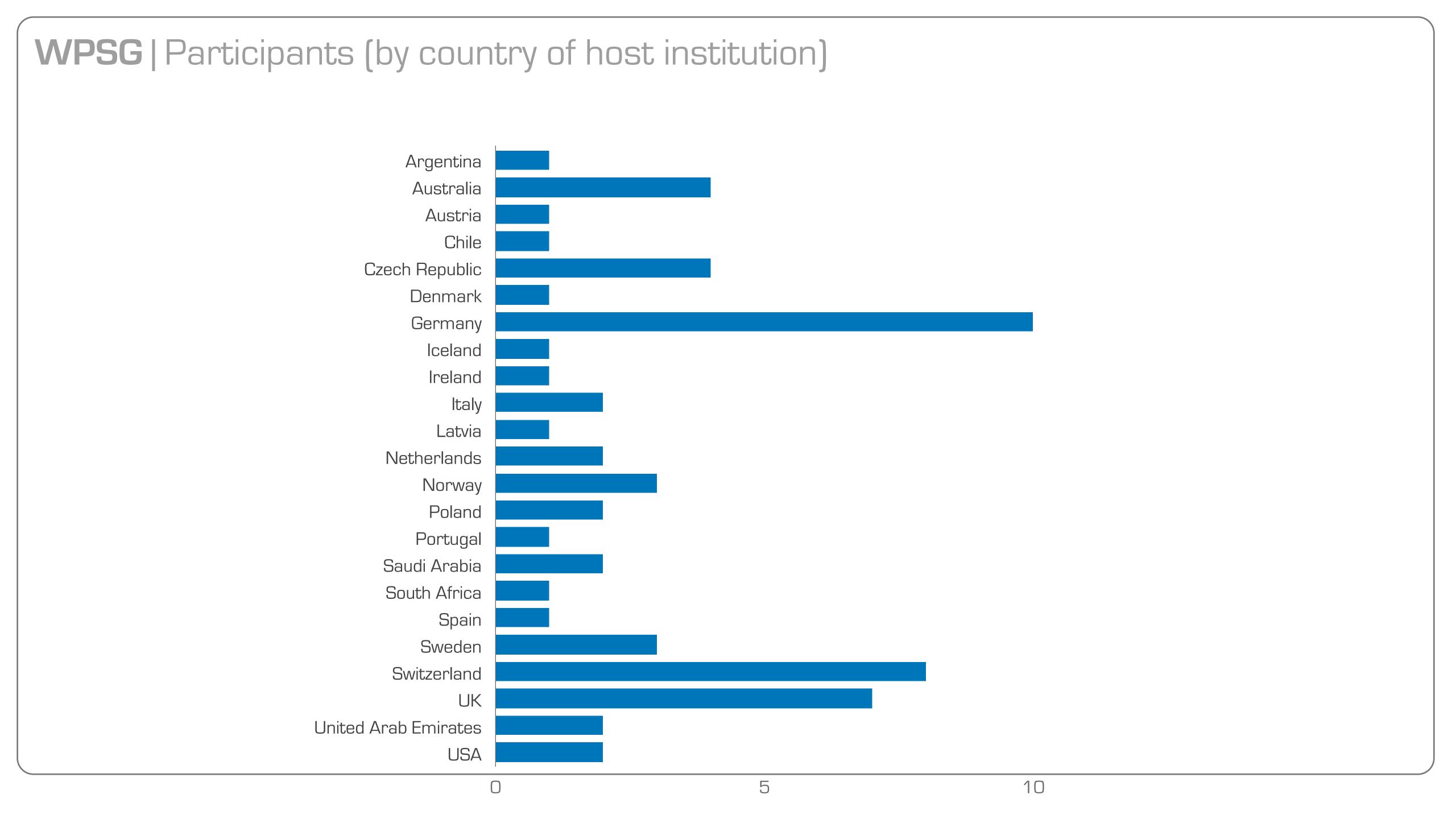
Alexander Suh



Georgia Tsambos

WPSG | Faculty Presence & Lunches

Date	Sun	Mon	Tue	Wed	Thur	Fri	Sat	Sun	Mon	Tue	Wed	Thur	Fri	Sat
Name	05.06	06.06.	07.06.	08.06.	09.06.	10.06.	11.06.	12.06.	13.06.	14.06.	15.06.	16.06.	17.06.	18.06.
Walter Salzburger							Т	-	L					
Michael Matschiner		Т	٦		Α									
Valentina Peona								-	Α	L				
Georgia Tsambos								-				T/A	L	
Alexander Suh						L			Т					
Derek Setter						Α	L	-						
Vitor Sousa				L	T/A			-						
Rasmus Nielsen		L	T/A											
Thorfinn Korneliussen		L	Α											
Matthew Hahn				T/A	L									
Leonie Moyle					L	Т								
Pieter Clauw						Α	L	-						
Jasmin Rees											Α	L		
Chris Jiggins)	-1						T/L					
Matteo Fumagalli		resent full rrival/depa						-		T/A	L			
Flora Jay		= faculty						-		T/A	L			
Simon Myers	T	= lecture									T/A	L		
Fabrizio Mafessoni	A	= exercie	s / activit	ty									T/L	
Leo Speidel	Ŀ	= free day									Online			

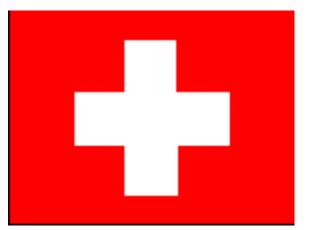


WPSG | Program Week 1

6 Jun	Monday	10:30-12:00	Michael Matschiner	Likelihood and probability	Egon Schiele
		14:00-17:00	Workshop Team	AMI introduction/Probability activity	Prelate
		19:00-22:00	Everyone	Participant introduction	Prelate
7 Jun	Tuesday	9:00-12:00	Rasmus Nielsen	Population genomics	Egon Schiele
		14:00-17:00	Rasmus Nielsen and Thorfinn Korneliussen	ANGSD activity	Prelate
		19:00-22:00	Rasmus Nielsen and Thorfinn Korneliussen	ANGSD activity (continued)	Prelate
8 Jun	Wednesday	9:00-12:00	Matthew Hahn	Coalescent theory and introgression	Egon Schiele
		14:00-17:00	Matthew Hahn and Workshop Team	D-statistics activity	Prelate
		19:00-22:00	Matthew Hahn and Workshop Team	D-statistics activity (continued)	Prelate
9 Jun	Thursday	9:00-12:00	Vitor Sousa	Model-based inference of population history	Egon Schiele
		14:00-17:00	Workshop Team	Species tree inference activity	Prelate
		19:00-22:00	Vitor Sousa	fastsimcoal2 activity	Prelate
10 Jur	n Friday	9:00-12:00	Leonie Moyle	Selection and adaptation	Egon Schiele
		14:00-17:00	Derek Setter	Sweep detection	Prelate
		19:00-22:00	Pieter Clauw	GWAS	Prelate
11 Jur	Saturday	9:00-12:00	Walter Salzburger	The genomics of organismal diversification	Egon Schiele
		14:00-17:00	Workshop Team	Open lab	Prelate
		18:00—	Everyone	Town Tour (18:00) and Dinner (19:00-)	Meet in Town Square

WPSG | Program Week 2

13 Jun Monday	9:00-12:00	Chris Jiggins	Speciation with gene flow	Egon Schiele
	14:00-17:00	Alexander Suh	Structural variation	Egon Schiele
	19:00-22:00	Valentina Peona	Structural variation activity	Prelate
14 Jun Tuesday	9:00-12:00	Matteo Fumagalli and Flora Jay	Machine learning	Egon Schiele
	14:00-17:00	Flora Jay	Demography inference with ML activity	Prelate
	19:00-22:00	Matteo Fumagalli	Selection inference with ML activity	Prelate
15 Jun Wednesday	9:00-12:00	Simon Myers	Tree sequences	Egon Schiele
	14:00–17:00	Simon Myers, Jasmin Rees, and Leo Speidel	Relate activity	Prelate
	19:00-22:00	Workshop Team	Open lab	Prelate
16 Jun Thursday	9:00-12:00	Georgia Tsambos	Simulation	Egon Schiele
	14:00–17:00	Georgia Tsambos	Simulation with msprime activity	Prelate
	19:00-22:00	Georgia Tsambos	Inference with tsinfer activity	Prelate
17 Jun Friday	9:00-12:00	Fabrizio Mafessoni	Ancient genomics	Egon Schiele
	14:00–17:00	Workshop Team	Wrap-up	Prelate
	19:00-22:00	Everyone	End of Workshop Party	
18 Jun Saturday	9:00-12:00	Everyone	Departure	Egon Schiele







WPSG | Information & Communication Channels

EVOLUTION AND GENOMICS

Intensive and immersive training opportunities

ANNOUNCEMENTS

Welcome to everyone who arrived early to Český Krumlov!!

LINKS

- 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

DATE	DAY	TIME	PRESENTER	TOPIC		
5 Jun	Sunday	4p – 6p	Workshop Team	UNIX primer (optional)		
		7p – 10p	Everyone	Reception dinner and intro	4	
6 Jun	Monday	9a – 10:30a	Workshop Team	Workshop introduction	#wpsg2	
	10:30a – 12p 2p – 3:30p 3:30p – 5p 5p – 5:10p 7p – 10p		Michael Matschiner	Likelihood and probability		
			Workshop Team	AMI introduction	Prelate	
			Workshop Team	Probability activity	Outside Prelate Prelate Prelate	
			Everyone	Group photo		
			Everyone	Participant introduction		



http://evomics.org/2022-workshop-on-popu...







Workshop on Population and Speciation Genomics

2022

WPSG | Bingo



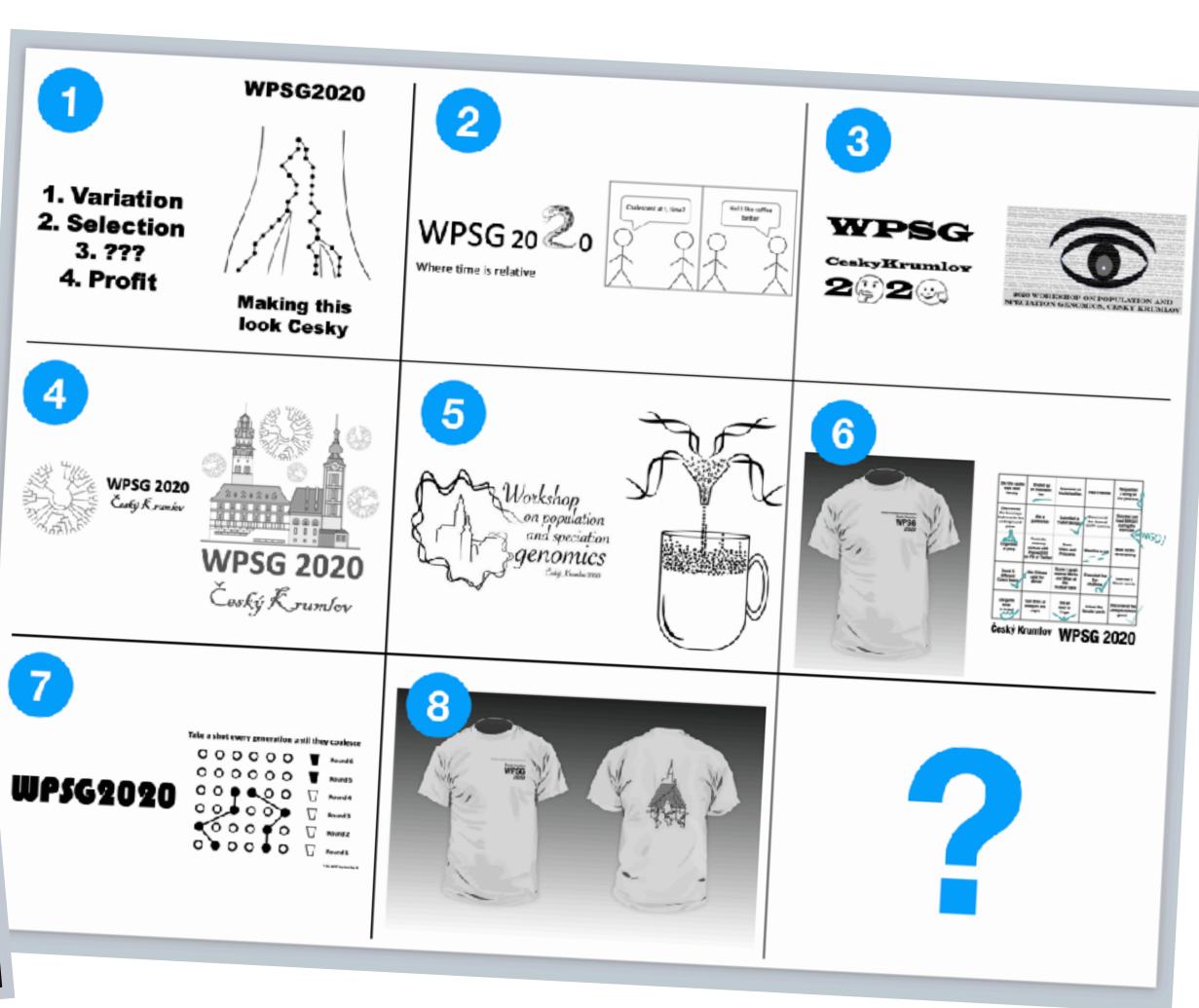
- Explore Český Krumlov and take pictures
- A row, column or diagonal of five is a Bingo!
- Win the WPSG2022 Bingo! prize



WPSG | T-shirt design competition

Submission deadline: Friday, June 10





WPSG | Preprint & Suggestion bucket

The history and organization of the Workshop on Population and Speciation Genomics

Julia MI Barth¹, Scott Handley², Daniel Kintzl³, Guy Leonard⁴, Milan Malinsky⁵, Michael Matschiner^{6*}, Britta S Meyer⁷, Walter Salzburger¹, Jan Stefka⁸, Emiliano

All authors contributed equally and are sorted alphabetically

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²Department of Pathology and Immunology, Washington University School of Medicine, 660 S. Euclid

³Infocentrum Český Krumlov, náměstí Svornosti 2, 38101 Český Krumlov, Czech Republic.

⁴Department of Biology, University of Oxford, 11a Mansfield Road, Oxford OX1 3SZ, UK.

⁵Institute of Ecology and Evolution, University of Bern, Baltzerstrasse 6, 3012 Bern, Switzerland.

⁶Natural History Museum, University of Oslo, Sars' gate 1, 0562 Oslo, Norway. ⁷Max Planck Institute for Evolutionary Biology, August-Thienemann-Str. 2, 24306 Plön, Germany.

⁸Institute of Parasitology, Biology Centre CAS and Faculty of Science, University of South Bohemia,

⁹Department of Life and Environmental Sciences, Marche Polytechnic University, Via Brecce Bianche,

*Corresponding author: E-mail: michael.matschiner@nhm.uio.no

With the advent of high-throughput genome sequencing, bioinformatics training has become essential for research 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, extended bioinformatics courses have been developed by various institutions and provide intense training over the course of two or more weeks. Here, we describe our experience with the organization of a course in one of the longest-running extended bioinformatics series of work shops, the Evomics Workshop on Population and Speciation Genomics that takes place biennially i the UNESCO world heritage town of Český Krumlov, Czech Republic. We list the key ingredien that make this workshop successful in our view, and describe the routine for workshop organizati that we have optimized over the years. We report the results of a survey conducted among past workshop participants that quantifies measures of effective teaching and provide examples of how the workshop setting has led to the cross-fertilisation of ideas and ultimately scientific progress.



WPSG | Covid19

The Workshop on Population and Speciation Genomics is fast approaching. While the availability of vaccines and other factors led 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, wondering about our approach to covid-related risks. Overall, we hope the workshop is going to be an immersive experience, with many scientific and also social interactions among participants, faculty, and organisers. We believe that these interactions 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

- 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 Cesky Krumlov! 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 a 100%. If you arrive to Cesky Krumlov with Covid and spread it around
- 3) We strongly encourage wearing masks during the group indoor learning activities (e.g., in the House of Prelate). 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

- 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 5) Masks and tests will be available from the organisers.

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 intend to assist isolating 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 Cesky Krumlov. The we hope that everyone remains healthy and that we will all enjoy an exciting and stimulating two weeks in desky Kramilov. The workshop begins this Sunday, 5th July, at 19:00 with a welcome dinner and reception at Hotel Zlaty Andel on the main square Workshop begins this Sunday, Sirr July, at 19.00 with a welcome diffiner and reception at Hotel Ziaty Ander 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 Prelate (details will be communicated separately).

Best wishes The Workshop Team