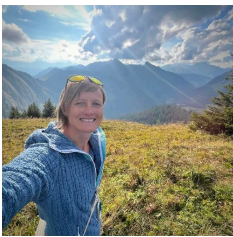




WELCOME!

WPSG | Team of Co-Directors



Julia M.I. Barth
University of Basel



Scott Handley
Washington University



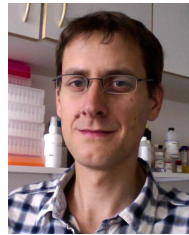
Milan Malinsky
University of Bern



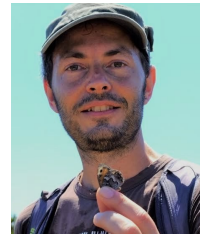
Michael Matschiner
Ludwig-Maximilian-University of Munich



Walter Salzburger
University of Basel

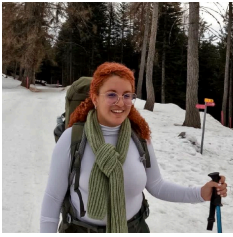


Jan Stefka
University of South Bohemia České Budějovice



Emiliano Trucchi
Universita Politecnica delle Marche Ancona

WPSG | Teaching Assistants



Daniela Souza-Costa
University of Basel



Marion Talbi
University of Bern



Jakub Viček
Charles University Prague



Francesco Giannelli
Universita Politecnica delle Marche Ancona



WPSG | Invited Faculty



Georgia Tsambos



Alexander Suh



Michael Westbury



Magdalena Bohutínská



Alexander Leonard



Vitor Sousa



Martin Petr



Matthew Hahn



Michael Hofreiter



Valentina Peona



Katie Peichel



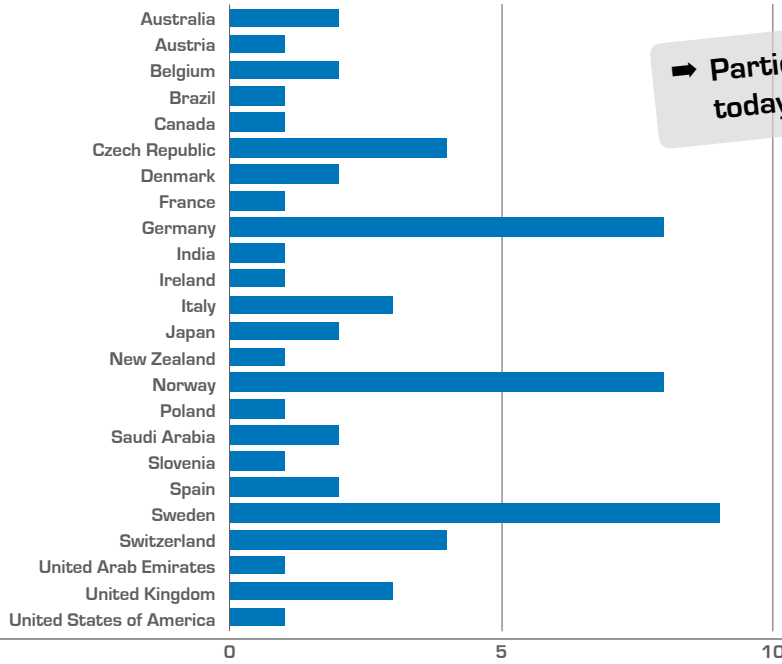
Andrew Kern



Joana Meier



WPSG | Participants (by country of host institution)



→ Participants Introduction today, 19:00, House of Prelate

WPSG | History

1988
Mitch Sogin
Workshop Director

2000
Mike Cummings
-Workshop Director

2007
Mike & Scott
Dinner in Washington

2013
Milan
Workshop Participant

Scott Handley
Teaching Assistant

me
Workshop Participant

→ isolated
 → idyllic
 → infrastructure

Workshop on Molecular Evolution



Micha & Jan
Workshop Participants

Workshop on
Phylogenomics



Workshop on
Molecular Evolution

Workshop on
Genomics

Workshop on
Molecular Evolution



2009

2016

2025



Barth et al. *Evolution: Education and Outreach* (2023) 16:2
https://doi.org/10.1186/s12914-023-00182-w

Evolution: Education and Outreach

CURRICULUM AND EDUCATION

Open Access

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

Julia M. I. Barth^{1†}, Scott A. Handley^{2†}, Daniel Kitz^{3†}, Guy Leonard^{4†}, Milan Malinsky^{5†}, Michael Matschiner^{6†}, Britta S. Meyer⁷, Walter Salzburger⁸, Jan Stefl^{9,10} and Emiliano Trucchi¹⁰

Abstract

With the advent of high-throughput genome sequencing, bioinformatics training has become essential for research students in evolutionary biology and related fields. However, individual research groups are often not in the position to teach and develop 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 UNESCO world heritage towns of Český Krumlov, Czech Republic. We list the key ingredients that make this workshop successful in our view, explain the routine for workshop organization that we have optimized over the years, and describe the most important lessons that we have learned from it. 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-fertilization of ideas and ultimately scientific progress. We expect that our account may be useful for other groups aiming to set up their own extended bioinformatics courses.

Keywords Bioinformatics, Genomics, Education, Course, Workshop

¹Julia M. I. Barth, Scott A. Handley, Daniel Kitz, Guy Leonard, Milan Malinsky, Michael Matschiner, Britta S. Meyer, Walter Salzburger, Jan Stefl and Emiliano Trucchi* contributed equally
*Correspondence: Michael Matschiner, michaelmatschiner@umcn.ro
²Zoological Institute, Department of Environmental Sciences, University of Basel, Vesalgasse 1, 4051 Basel, Switzerland
³School of Medicine, 660 S. Euclid Ave., St. Louis, MO 63110-1010, USA
⁴Indo-European Center, Humboldt-Universität zu Berlin, 10085 Berlin, Germany
⁵Department of Biology, University of Oxford, 1a Mansfield Road, Oxford OX1 3PS, UK
⁶Institute of Ecology and Evolution, University of Bern, Baltzerstrasse 6, 3012 Bern, Switzerland
⁷Natural History Museum, University of Oslo, Sars gate 1, 0562 Oslo, Norway
⁸Research Unit for Evolutionary Immunogenetics, Department of Biology, University of Hamburg, Martin-Luther-King-Platz 3, 20146 Hamburg, Germany

¹Faculty of Science, University of South Bohemia, Branbořská 1760, 31700 České Budějovice, Czech Republic
²Institute of Parasitology, Biology Centre CAS, Branišovská 31, 31000 České Budějovice, Czech Republic
³Department of Life and Environmental Sciences, Marche Polytechnic University, Via Bressa Breccia 40131 Ancona, Italy



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WPSG | Program (Week 1)

DATE	DAY	TIME	PRESENTER	TOPIC	LOCATION
19 Jan	Sunday	3p - 6p	Workshop Team	UNIX Primer (optional)	Prelate
		7p - 10p	Everyone	Reception Dinner	Hotel Zlaty Andel
20 Jan	Monday	9a - 10:30a	Workshop Team	Workshop Introduction	Town Theater
		10:30a - 12p	Michael Matschiner	Likelihood and Probability	Town Theater
		2p - 3:30p	Workshop Team	AMI Introduction	Prelate
		3:30p - 5p	Workshop Team	Probability Activity	Prelate
		7p - 10p	Everyone	Participant introduction	Prelate
21 Jan	Tuesday	9a - 12p	Matthew Hahn	Molecular Population Genomics	Town Theater
		2p - 5p	Workshop Team	Population Genomics Primer I	Prelate
		7p - 10p	Workshop Team	Population Genomics Primer II	Prelate
22 Jan	Wednesday	9a - 12p	Matthew Hahn	Coalescent Theory and Introgression	Town Theater
		2p - 5p	Vitor Sousa	Model-based Inference of Population History	Prelate
		7p - 10p	Vitor Sousa	fastsimcoal2 Activity	Prelate
23 Jan	Thursday	9a - 12p	Alex Suh	Structural Variation	Town Theater
		2p - 5p	Valentina Peona	Structural Variation Activity	Prelate
		7p - 10p	Alexander Leonard	Pangenomics	Prelate
24 Jan	Friday	9a - 12p	Andrew Kern	Machine Learning	Town Theater
		2p - 5p	Andrew Kern	Machine Learning Activity	Prelate
		7p - 10p	Joana Meier and Workshop Team	Experimental Design	Prelate
25 Jan	Saturday	9a - 12p	Walter Salzburger	The Genomics of Organismal Diversification	Town Theater
		2p - 5p	Workshop Team	Open Lab	Prelate
		6p - 10p	Everyone	Town Tour (6p - 7p) and Dinner (from 7p)	Meet in Town Square

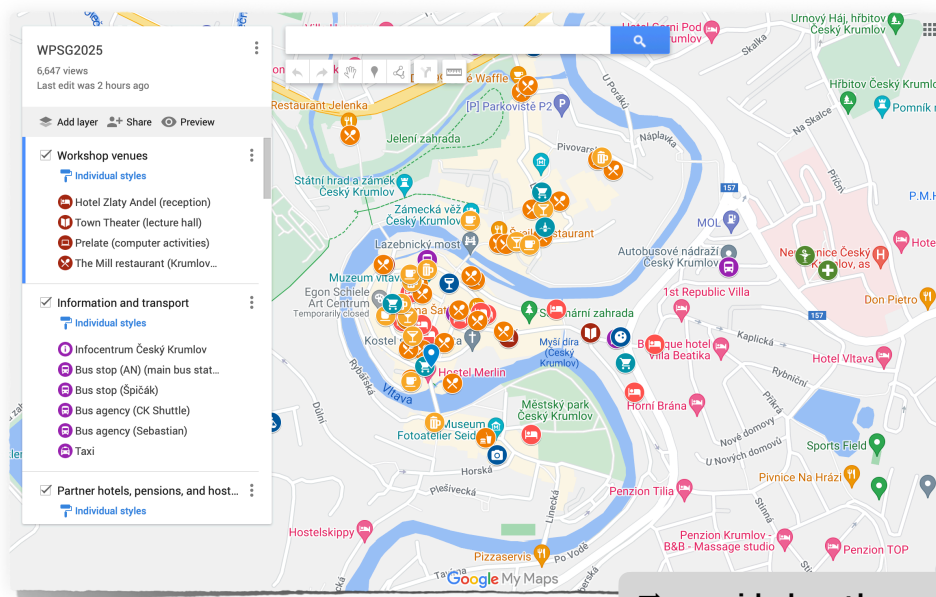
WPSG | Program (Week 2)

DATE	DAY	TIME	PRESENTER	TOPIC	LOCATION
26 Jan	Sunday		Everyone	Free day! Time for castle tours, wine tasting, snowball fights... etc	You decide!
27 Jan	Monday	9a - 12p	Joana Meier	Hybridization	Town Theater
		2p - 5p	Workshop Team	D-statistics Activity	Prelate
		7p - 10p	Workshop Team	Tree-based Introgression Detection Activity	Prelate
28 Jan	Tuesday	9a - 12p	Katie Peichel	Combining Genomics with Experimental Studies of Adaptation	Town Theater
		2p - 5p	Magdalena Bohutinská	Detecting Positive Selection	Prelate
		7p - 10p	Joana Meier	Selection Simulation and Inference Activity	Prelate
29 Jan	Wednesday	9a - 12p	Georgia Tsambos	Coalescent Simulation and Inference Activity 1/2	Prelate
		2p - 5p	Georgia Tsambos	Coalescent Simulation and Inference Activity 2/2	Prelate
		7p - 10p	Martin Petr	Building Intuition into Population Genetics Fundamentals and Inference	Prelate
30 Jan	Thursday	9a - 12p	Emiliano Trucchi	Conservation Genomics	Town Theater
		2p - 5p	Workshop Team	Genetic Load Activity	Prelate
		7p - 10p	Workshop Team	Open Lab	Prelate
31 Jan	Friday	9a - 12p	Michael Hofreiter	Ancient Genomics	Town Theater
		2p - 5p	Michael Westbury	Ancient Genomics Activity	Prelate
		7p - 10p	Everyone	End-of-Workshop Party	TBA
1 Feb	Saturday	9a - 12p	Everyone	Departure	



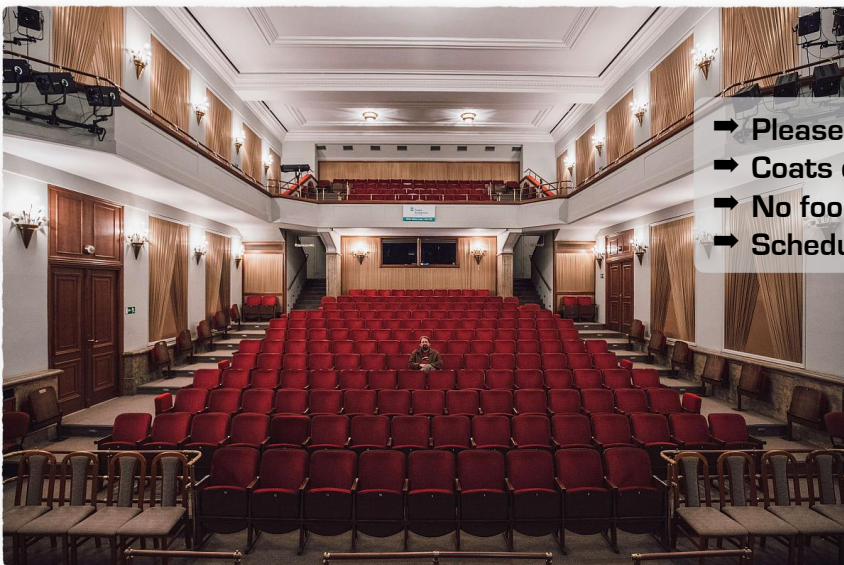
➔ 9:00/9am=9:00:00

WPSG | Locations



➔ provided on the course homepage

WPSG | Town Theater



- ➔ Please be well on time
- ➔ Coats can be put in the wardrobe
- ➔ No food or drink allowed inside the theater
- ➔ Scheduled coffee breaks (@ 10:15)

WPSG | House of Prelate



Rules:

- ➔ **Strict arrival/departure times**
- ➔ **Wipe feet before entering**
- ➔ **Coats in the coatroom**
- ➔ **Do not touch the walls!!!** (the painter died in 1791)
- ➔ **No food or drink allowed inside the room!!!**
- ➔ **Tee & coffee room available** (the breaks up to you)
- ➔ **Use & wash your own personalized mugs**

- ➔ built in the second half of the 14th Century
- ➔ has at several times been a brewery (1596-1865)

WPSG | Lunch and Dinner



- ➔ **Lunch break: 12:00-14:00**
- ➔ **Dinner break: 17:00-19:00**
- ➔ **Limited late dinner options**
- ➔ **Partner restaurants in town**

WPSG | Post-Lab Discussions



➔ will be announced on a daily basis

WPSG | Notable Social Events

➔ **Saturday, January 25:**

meet at 18:00 at the Town Square for a guided tour of Cesky Krumlov, which will directly lead to the WPSG Dinner at The Mill ("Mlyn")

➔ **Sunday, January 26:**

Free day. More information about possible activities will be provided by Daniel Kintzl shortly

➔ **Friday, January 31:**

YOU plan the end-of-workshop dinner/party

WPSG | Group Photo



WPSG | Faculty Lunches (and availability)

Date	Sun	Mon	Tue	Wed	Thur	Fri	Sat	Sun	Mon	Tue	Wed	Thur	Fri	Sat
Name	19.01.	20.01.	21.01.	22.01.	23.01.	24.01.	25.01.	26.01.	27.01.	28.01.	29.01.	30.01.	31.01.	01.02.
Michael Hofreiter								.					T / L	
Georgia Tsambos								.			T/A	L		
Katie Peichel								.		T	L			
Michael Westbury								.			L		A	
Martin Petr								.			A	L		
Magdalena Bohutínská								.	L	T				
Alexander Leonard						T	L	.						
Joana Meier						T	L	.	T	A				
Matthew Hahn			T	T	L			.						
Vitor Sousa				T/A	L			.						
Andrew Kern						T/A	L	.						
Milan Malinsky		A	A	L				.	A					
Alexander Suh					T	L		.	T					
Valentina Peona					A			.	L					
Emiliano Trucchi								.				T/A	L	
Jan Stefka								.		L				
Julia M.I. Barth			A	L				.						
Michael Matschiner		T	L					.	A					
Walter Salzburger							T	.		L				

Present full day
 Arrival/departure day
 L = Faculty Lunch
 T = Lecture (Talk)
 A = Activity
 . = free day

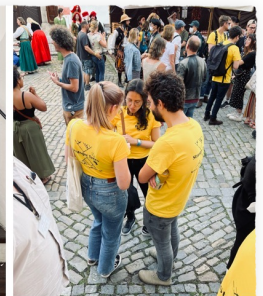
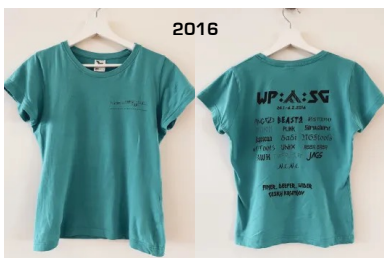
WPSG | Bingo

Český Krumlov
WPSG 2025 BINGO!
 Winter edition

Name: _____

Take a picture with someone wearing an old workshop T-shirt	Take a selfie from the top of the castle tower	Record that you got 8 hours of sleep at least once during the workshop	Take a picture of you eating Trdelník	Shout out loud BINGO! during an activity in the Prelate
Ask for ketchup on pizza/pasta at the Italian restaurant	Take a picture of an animal in its natural environment	Take a picture of you beating one of the workshop team at the football table	Personalize your workshop badge	Let somebody draw/write something on your workshop mug
Sing a song at the karaoke	Take a picture of you and someone else in the frame	Take a perspective photo on the main square with at least another person	Draw a nice 'shape' running around Cesky Krumlov	Celebrate the world cup with Maradona
Take a picture of you with this historic memory	Help your neighbour during one practical activity	Join one faculty lunch	Try the strong chill (ask Milan)	Take a picture of you spotting exactly this painting
Take a picture of you eating the garlic soup in bread	Take a power nap during lunch/dinner break	Take a picture of you doing yoga	Learn at least 3 different Czech words	Make a silly face in the workshop group picture

WPSG | T-shirt design competition



2025

suggestions are possible until:
 Friday, January 24, 14:00

WPSG | Information & Communication

EVOLUTION AND GENOMICS

Intensive and immersive training opportunities

WORKSHOPS LEARNING PEOPLE APPLY INFORMATION

ANNOUNCEMENTS

- The **UNIX Primer** on Sunday, 19 January 2025 will be held in the "House of Prelate", and the **Reception Dinner** will be in the Zlatý Andel hotel. To find these locations within the old part of town, please have a look our [map of important locations in Český Krumlov](#).

Important Information

PRE-WORKSHOP INFORMATION AND MAP

- [Preparation material: suggested reading and activities to get ready for the 2025 workshop!](#)
- [Map of important locations in Český Krumlov](#)

COMPUTING

- [AMI IP addresses](#)

FEEDBACK

- [Suggestion box](#) (Use this link for anonymous feedback, you can also directly message the organizing team on Discord.)



- ➔ **Course homepage (Announcements)**
- ➔ **Daily announcements by the WPSG Team**
- ➔ **Discord (WPSG 2025 Participants)**
- ➔ **Bluesky: wpsg.bsky.social**

WPSG | Phenomena

Exhaustion

- ➔ Keep an eye your health
- ➔ Stay hydrated
- ➔ Sleep, rest and eat well
- ➔ Let us know if there are health issues
- ➔ Don't come to lectures/labs if you are sick!
- ➔ Wear a mask if you want

Frustration

- ➔ You will probably not always complete every step of every exercise
- ➔ There may be some bugs or connection issues
- ➔ You will most likely not become an expert in two weeks

WPSG | Approach & Attitude

- ➔ Respect each other at any time during classes and outside of it
- ➔ Work together (for example, with your neighbors during computer labs)
- ➔ Be patient, there are two weeks...
- ➔ ...and all the material will be available on the web after the course is over
- ➔ Ask questions
- ➔ Have fun, make new friends and colleagues, enjoy Cesky Krumlov!

WPSG | Code-of-Conduct

EVOMICS WORKSHOPS 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.

Persons of trust:



Julia



Emiliano

WPSG | Suggestions Box



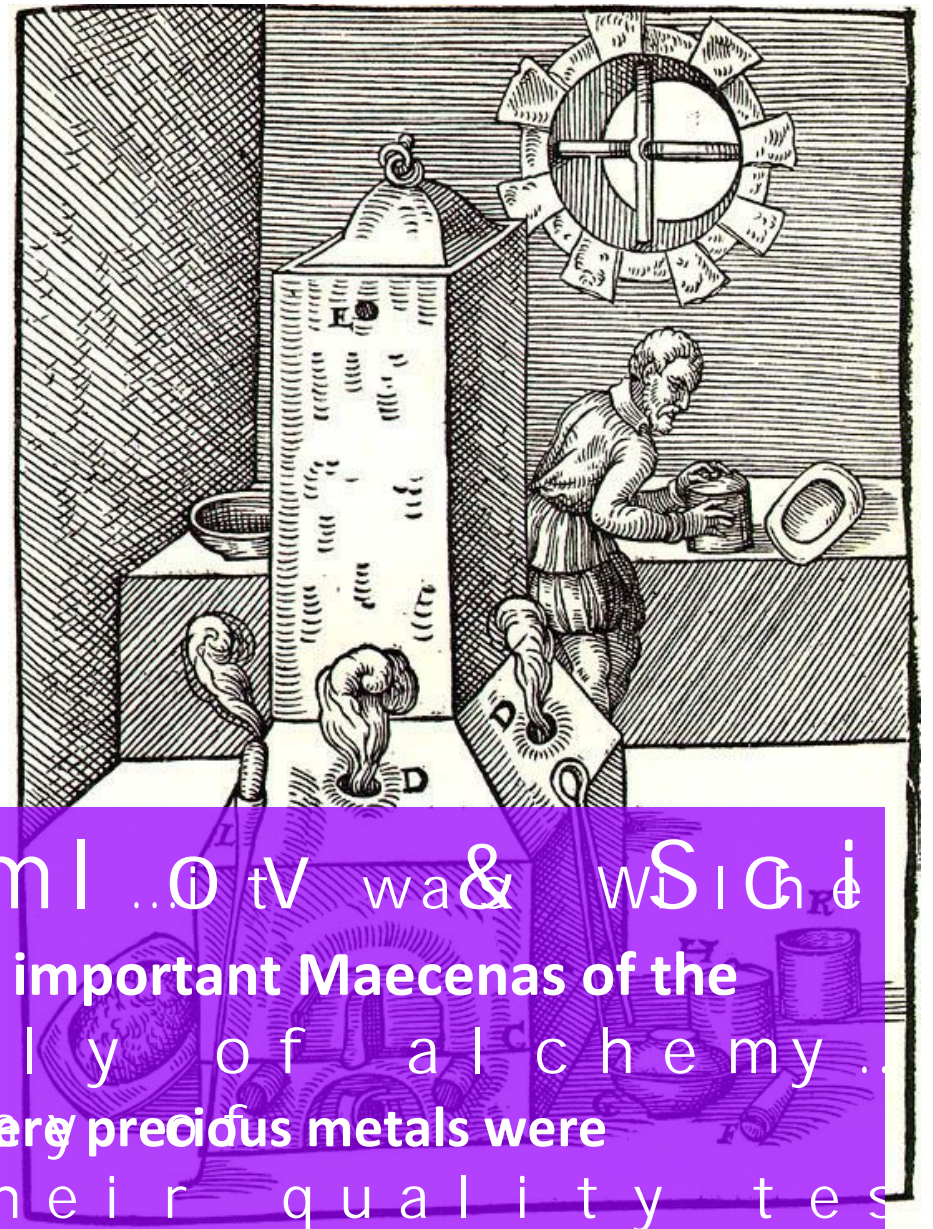
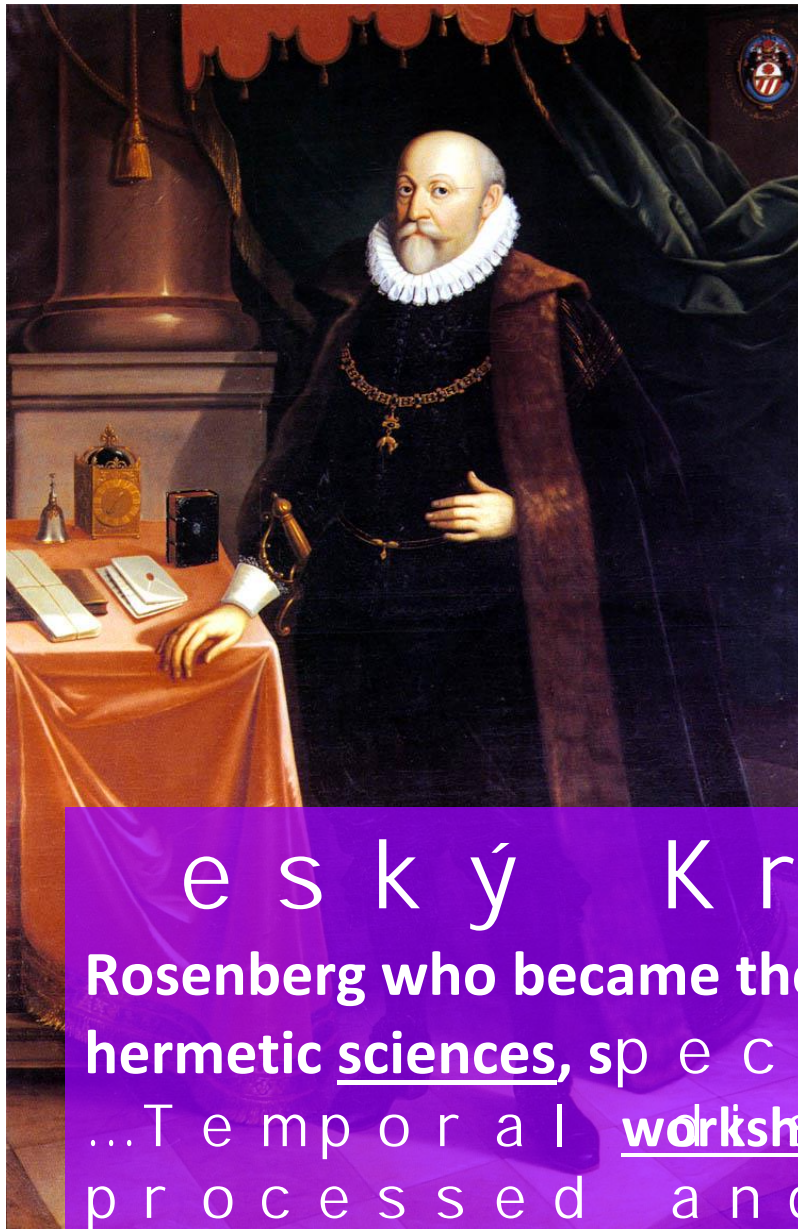
Workshop on Population and Speciation Genomics 2025 - Suggestion Box

This feedback form comprises two sections: 1) Feedback on specific lectures and activities; 2) General feedback on the WPSG 2025. Please provide feedback! We continually use input from this survey to improve our workshop in real time, so please write what is on your mind! (positive and negative!).
The survey is anonymous and no personal data will be collected!

WPSG | Cesky Krumlov Information



Daniel Kintzl



eský Krumlov was the
Rosenberg who became the most important Maecenas of the
hermetic sciences, specially of alchemy.
...Temporal workshop where precious metals were
processed and their quality tested
...Present science in Cesky Krumlov? ;-)

Workshops 2025



WELCOME!

Where can I eat – partner restaurants, pubs?

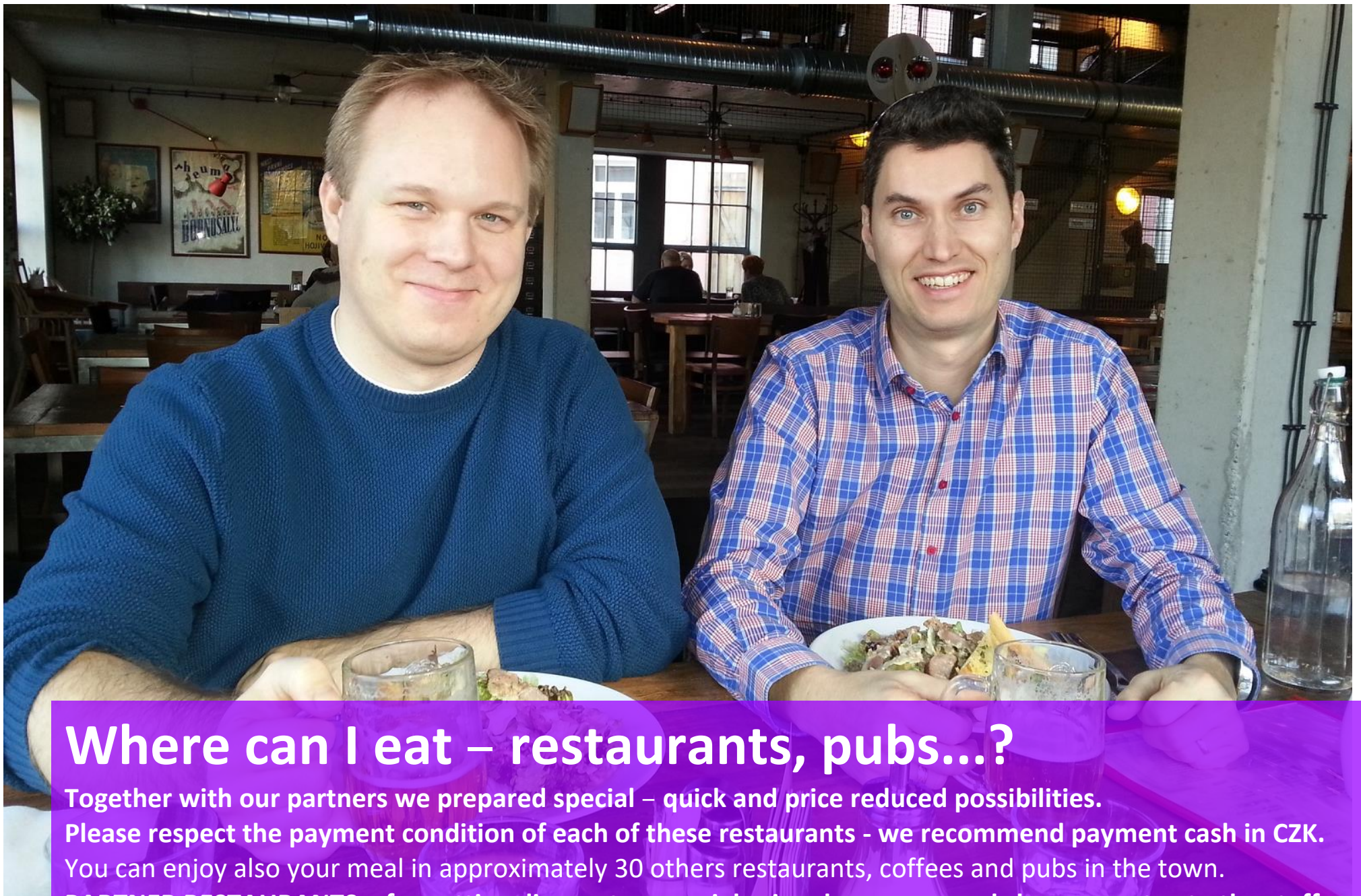
Where can I buy a food – bakery, fish

I don't – Pharmacy, Hospital?

Other services – Taxi, exchange?

What to do – facultative programmes?





Where can I eat – restaurants, pubs...?

Together with our partners we prepared special – quick and price reduced 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 6th January till 31st February 2024 / TIP: ca. +5% if you are satisfied...

Restaurant – K r u m l v o s k ý M l ý n

Lunch 30% discount

Dinner 30% discount

Art: Czech and international cuisine



Restaurant Laibon

Lunch menu 160,- CZK or discount 10%

Dinner 10% discount a la carte

Art: vegetarian cuisine

Liberta Restaurant

10 % discount

Art: *Italien* cuisine

Plese contact the Restaurant before you come

Call ...+ 4 220372 380



Restaurant Maštál
10 % discount
Art: Czech and international cusien



Restaurant Šatlava
10 % discount
Art: Czech and international cusien



Restaurant CAFÉ RETRO

Lunch: 170 CZK or ala cart 20 % discount

Dinner: ala cart 20 % discount

Art: Czech and international cusien

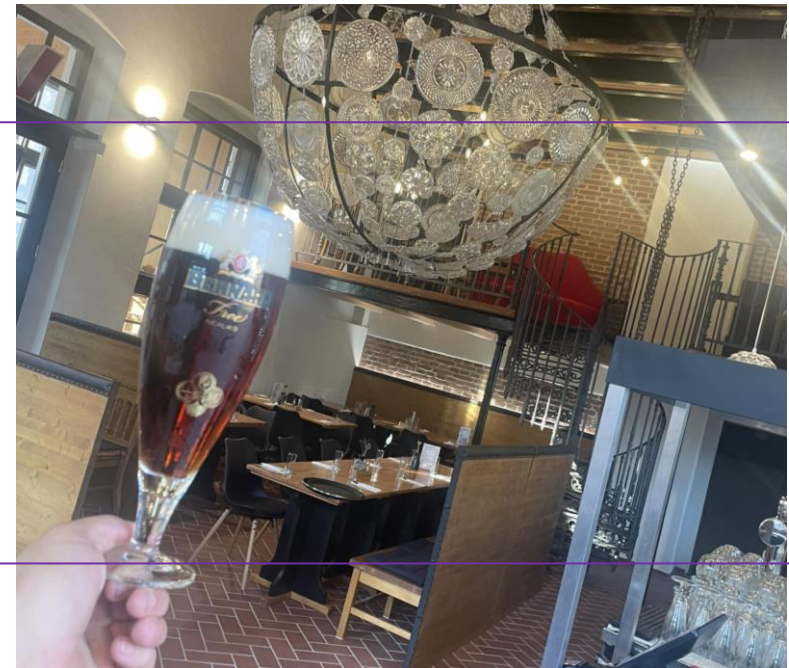
Pizza & Pasta

Restaurat Bar vírna

Lunch Menu 179,- CZK od 10 % discount

Dinner: 10% discount

Art: Czech and international cusien



Restaurant Jelenka

10 % discount

Art: Czech and international cusien



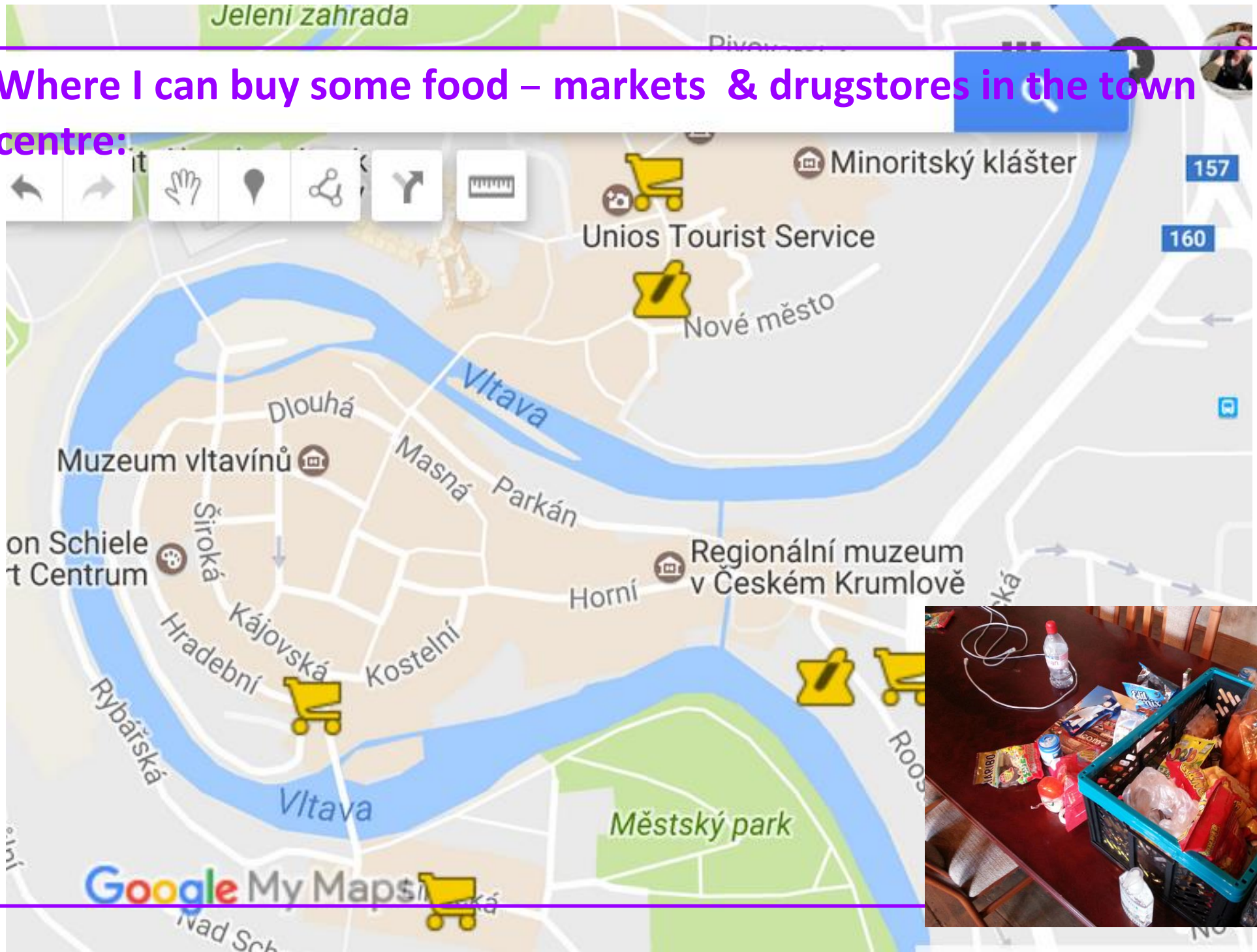
P i v o v - b r e w e r y r e s t a u r a n t

15 % discount

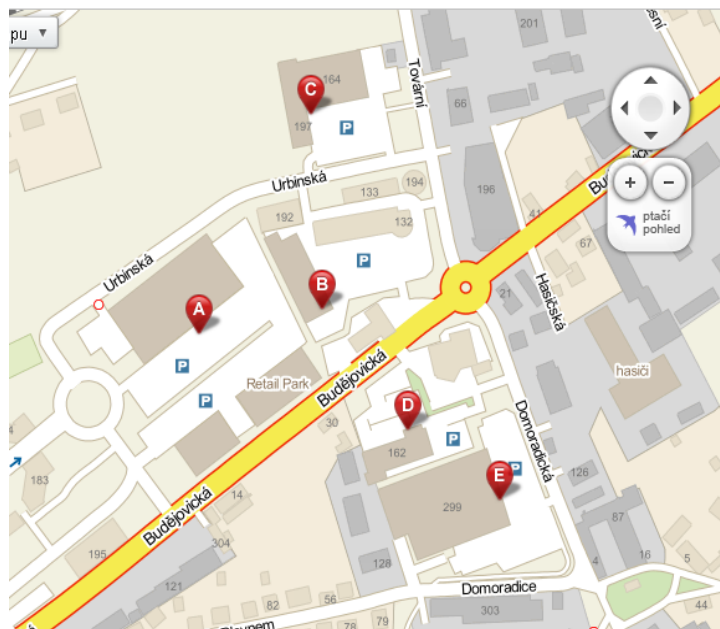
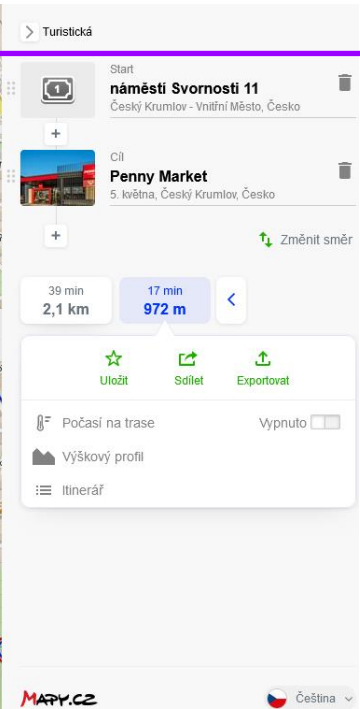
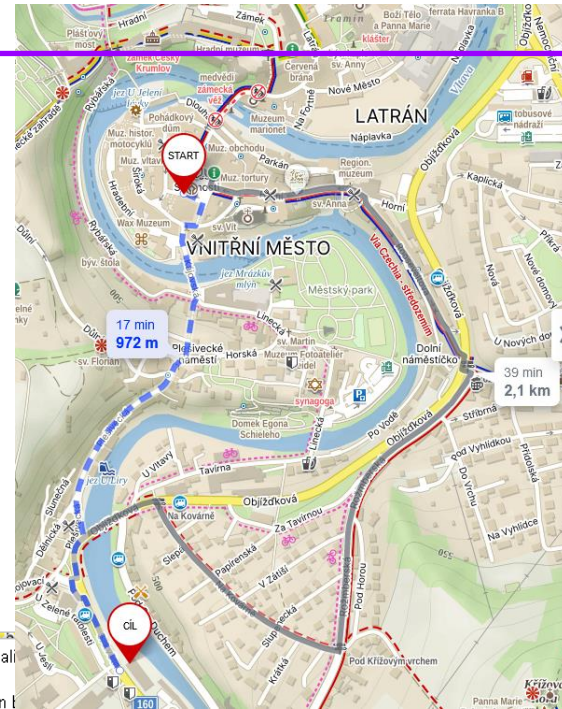
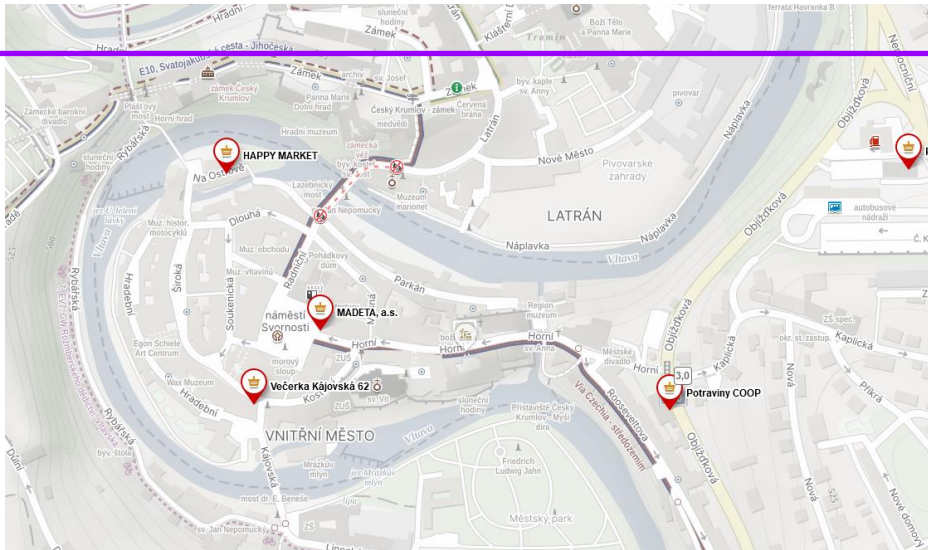
Art: Czech and international cusien

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

Where I can buy some food – markets & drugstores in the town centre:



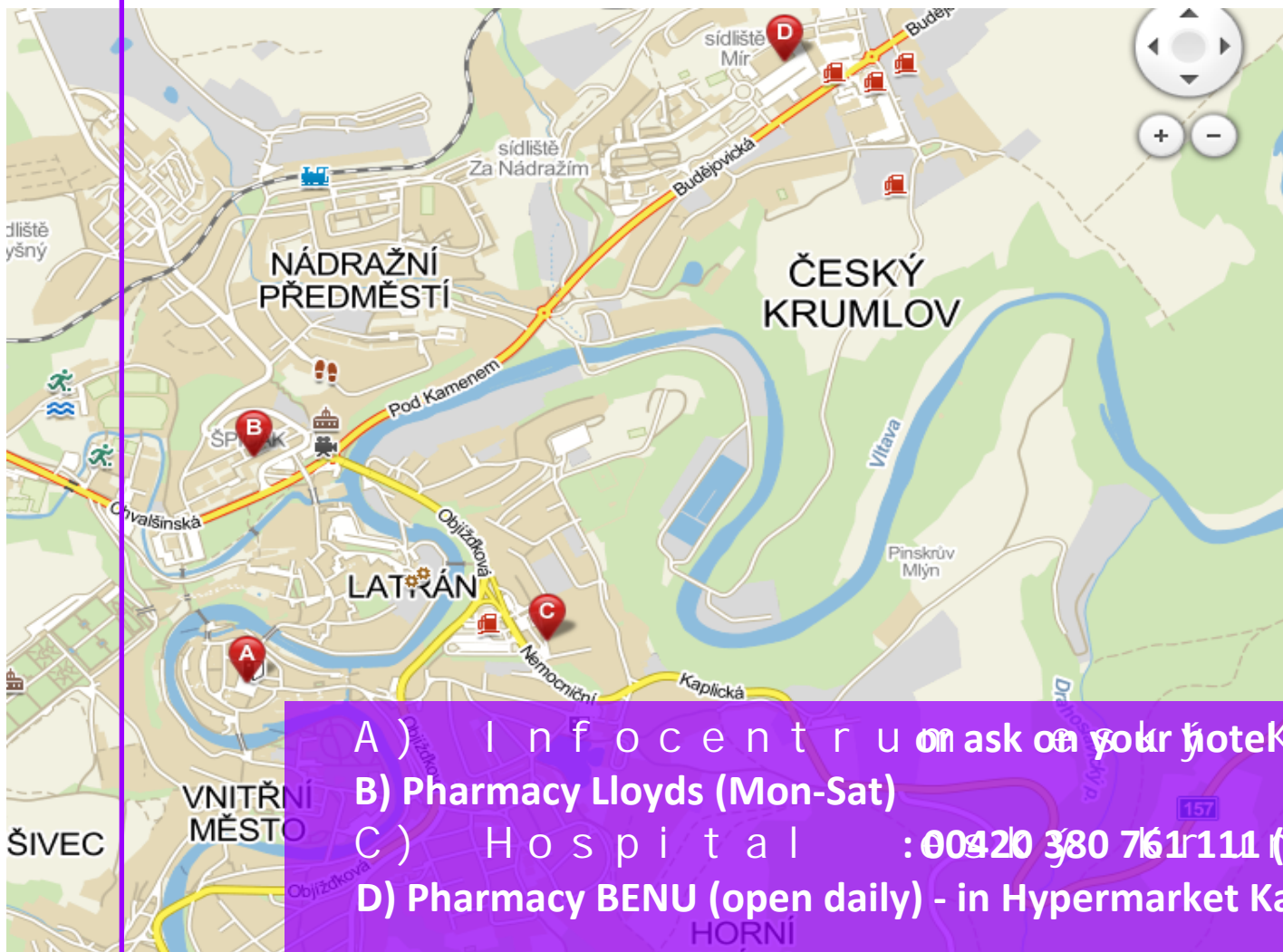
Bigger supermarkets are out of the town center:



Místa, lokality	Adresa	Geographical Coordinates
A	Supermarket Kaufland	48°49'29.729"N, 14°19'54.861"E
B	Supermarket Lidl	48°49'30.373"N, 14°19'59.708"E
C	Supermarket Terno	48°49'35.228"N, 14°19'59.202"E
D	Supermarket Penny	48°49'27.381"N, 14°20'3.132"E
E	Supermarket Tesco	48°49'25.653"N, 14°20'6.784"E

How to get to the Hypermarkets outside the centre?
 1) by Taxi (cca 200,- CZK one way) / 00420 380 712 712
 2) by local bus - main bus station to bus timetable: www.idos.cz or ask at the Infocentrum

Important - Pharmacy, Hospital..:



Jeden bod více bodů

A Infocentrum Český Krumlov
48°48'38.559"N, 14°18'53.808"E

B Pharmacy Loyds
48°48'57.345"N, 14°18'54.335"E

C Hospital Český Krumlov
48°48'42.260"N, 14°19'28.473"E

D Pharmacy BENU
48°49'30.735"N, 14°19'55.289"E

Odkaz na bod/y
 Poslat e-mailem

A) Infocentrum ask on your hotel reception
B) Pharmacy Loyds (Mon-Sat)
C) Hospital : 00420 380 761111 (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



Exchange:

At Infocentrum or in the Bank or use the ATM
(we don't have the Exchange in the building)

TAXI Krumlov

Call: 00420 380 712 712

or ask at the Infocentrum or your hotel reception

LAUNDERING - Please ask in your guest house or...?

What to do....:

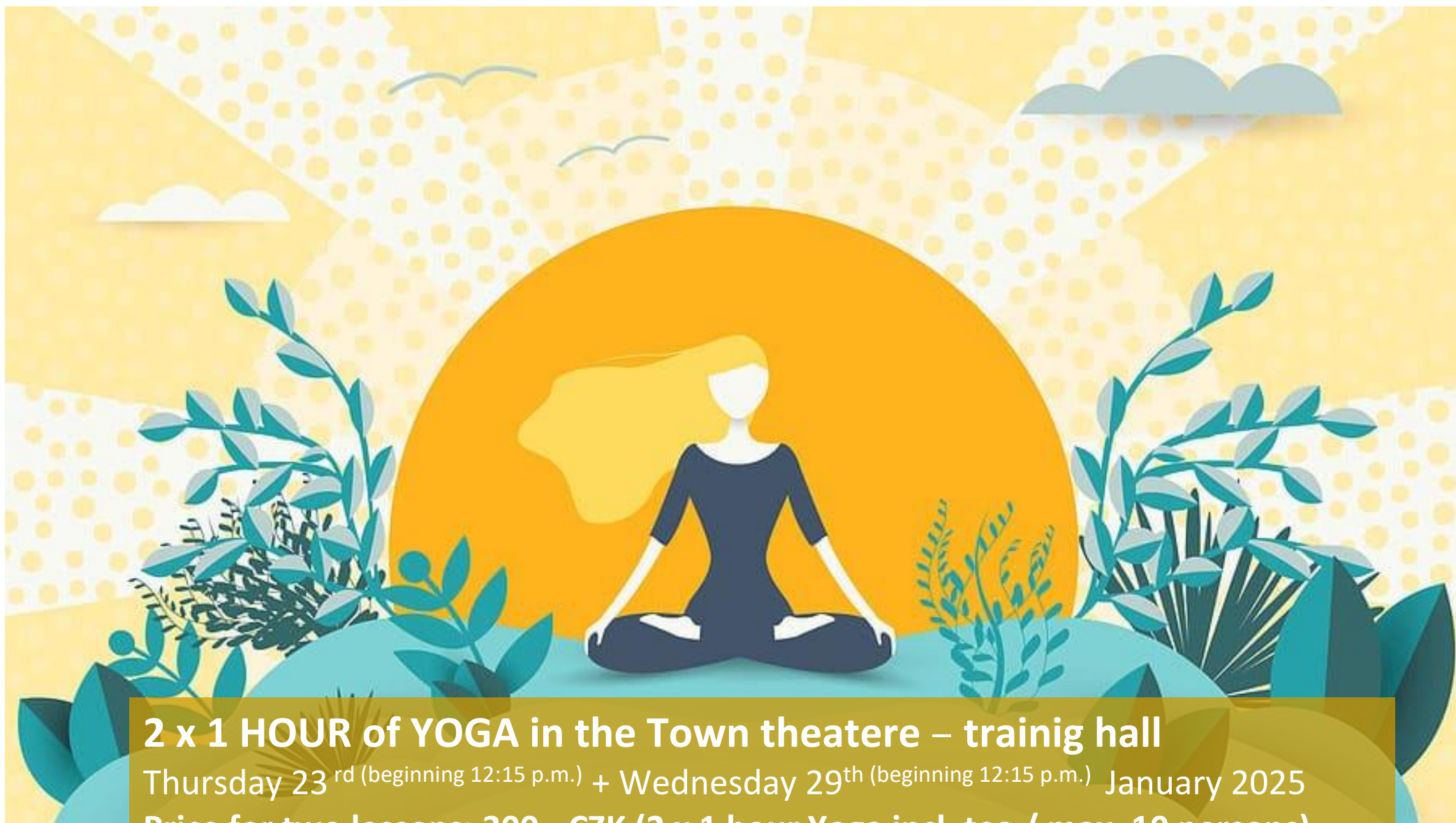


TOWN TOUR + WORKSHOP DINNER

DATE: Saturday 25th January at 6 p.m.,

WHERE: Meeting point on the main square near the St. Mary column

no tickets - just be there



2 x 1 HOUR of YOGA in the Town theater – training hall

Thursday 23rd (beginning 12:15 p.m.) + Wednesday 29th (beginning 12:15 p.m.) January 2025

Price for two lessons: 300,- CZK (2 x 1 hour Yoga incl. tea / max. 10 persons)

Tickets available at Infocentrum on the square and on-line



Baroque theatre and feast hall of the E S K Ý K R U M L O V Castle with English speaking guide

The castle Cesky Krumlov is officially closed in winter time – but not for you!

DATE: Sunday the 26th January 2025 / at 10:00 a.m, meeting on the square in front of the Infocentrum

Price: 490,- CZK per person

Tickets available at Infocentrum on the square and on-line



Hiking – Walk around the Town

on Sunday the 26th January 2025 / beginning at 01:00 p.m. on the main square in front of the Infocentrum. We should be back around 4 p.m. (easy to catch the wine tasting at 7 p.m.)

Free of charge

you need: hiking shoes and dress, maybe s m a l l s n a c k a n d d r i n k ...



Sport Hal – Basketball ...

Sunday 26th January from 4 – 6 p.m.

Just come at 4:00 p.m. to this
School Street: Tavrna 342, 3
N48° 48.37572', E 14° 18.98483'

What to take with you: - shoes with light soles or even just in socks -
shorts. T-shirt - a bottle of drink - a towel - fair play mood



**Czech and regional WINE WITH COMMENTARY
and taste of local specialties and delicacies...you need to hve dine beforehand**

Price 990,- CZK per. person

Where: Wine shop St. Christopher (Fairy tale House), Radni ní Str. 29,

Beginning: Sunday the 26th January at 6:30 p.m.

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

tickets available at Infocentrum and on-line till Saturday the 25th January till 5 p.m.



GROUP PICTURE FROM THE HISTORICAL PHOTOSTUDIO SEIDEL

Date: January 30th 12:15 – 1:15 p.m. (lunches time 12 – 01 p.m.)

Price 490,- CZK per. person incl. print of the group picture size A4

Capacity: min. 10 per. max. 17 per.

tickets available at Infocentrum and on-line

General rules for facultative trips and activities 2025

- 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 are provided discounts (I S I C Card , I T Y C 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 S/38101 nesklý Krumlov
Telephone: +420 380 704 622, E-mail: info@ckrumlov.info,
www.ckrumlov.info/infocentre

PRACTICAL CONVERSATION ...

Good morning >> Dobré ráno

How are you? >> Jak se máš?

I'm thirsty to drink my own eye >> mám žízeň
že bych si vypil

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

Thank you, its kind >> Děkují, to je mi l

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

Cheers! >> Na zdraví



enjoy the workshop