



workshop on genomics

Český Krumlov
5-18 January, 2020

objectives

- information about settings and logistics
- introductions
- workshop background and history
- establishing expectations
- miscellany

f.a.q.

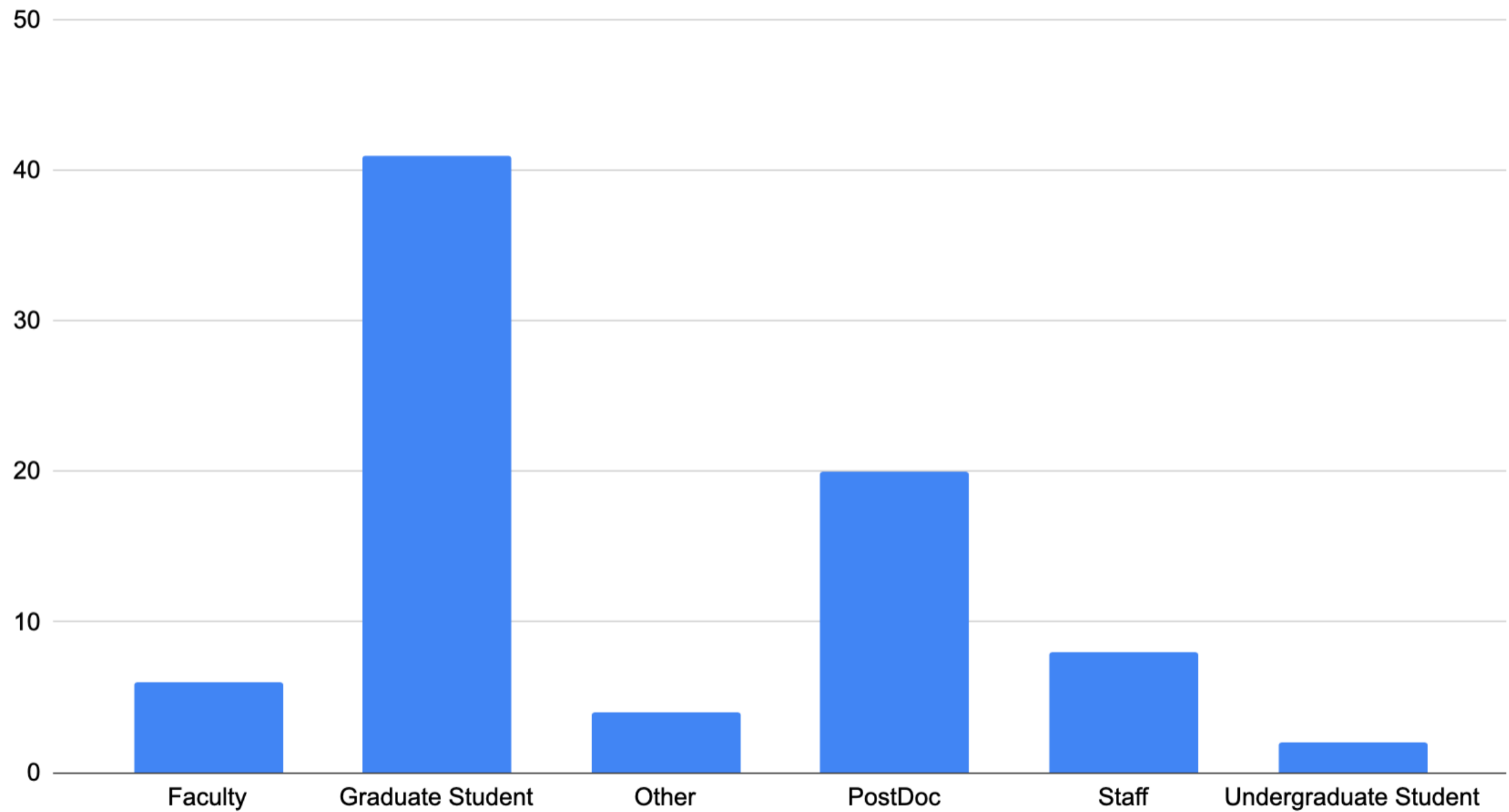
- where are the restrooms?
- coffee breaks?
 - approx. 10:00 in the Theatre Cafe
 - functional coffee and tea only. No half-calf-decaf-double-mocha-pour-over
 - anytime in House of Prelate (Computer Lab)
- where and when to eat?
 - workshop map on the main schedule page
 - information from Daniel Kintzl
 - ask the team
 - times: 12-14, 17-19
 - late night dining options are limited

who

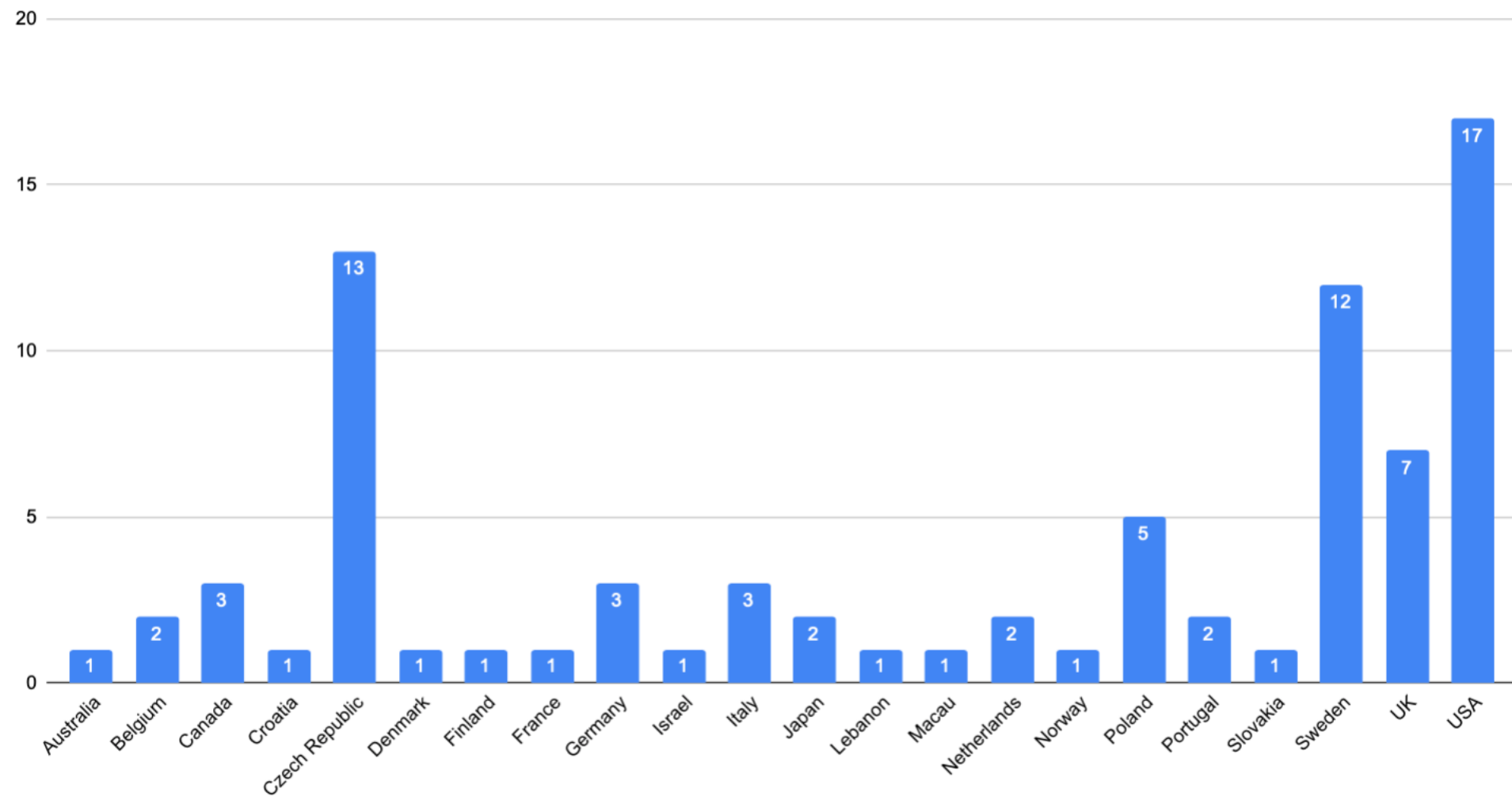
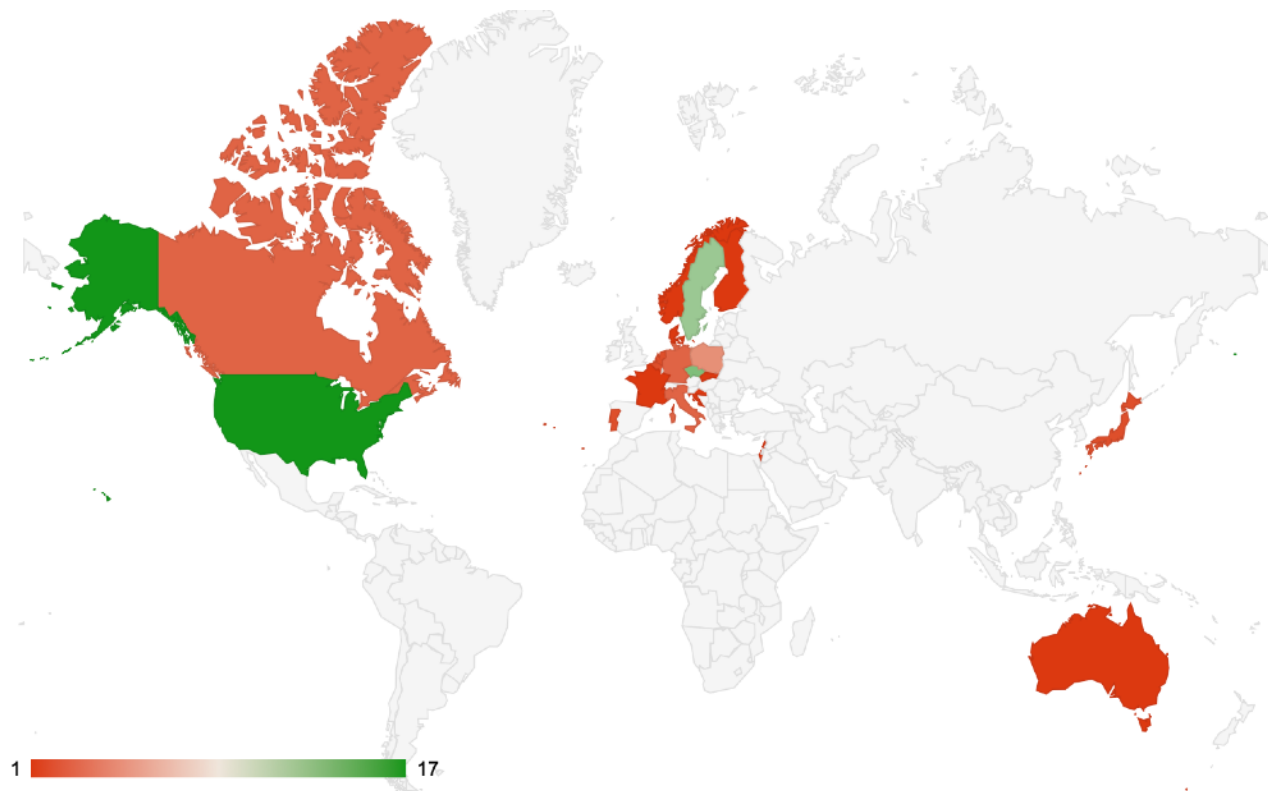


you

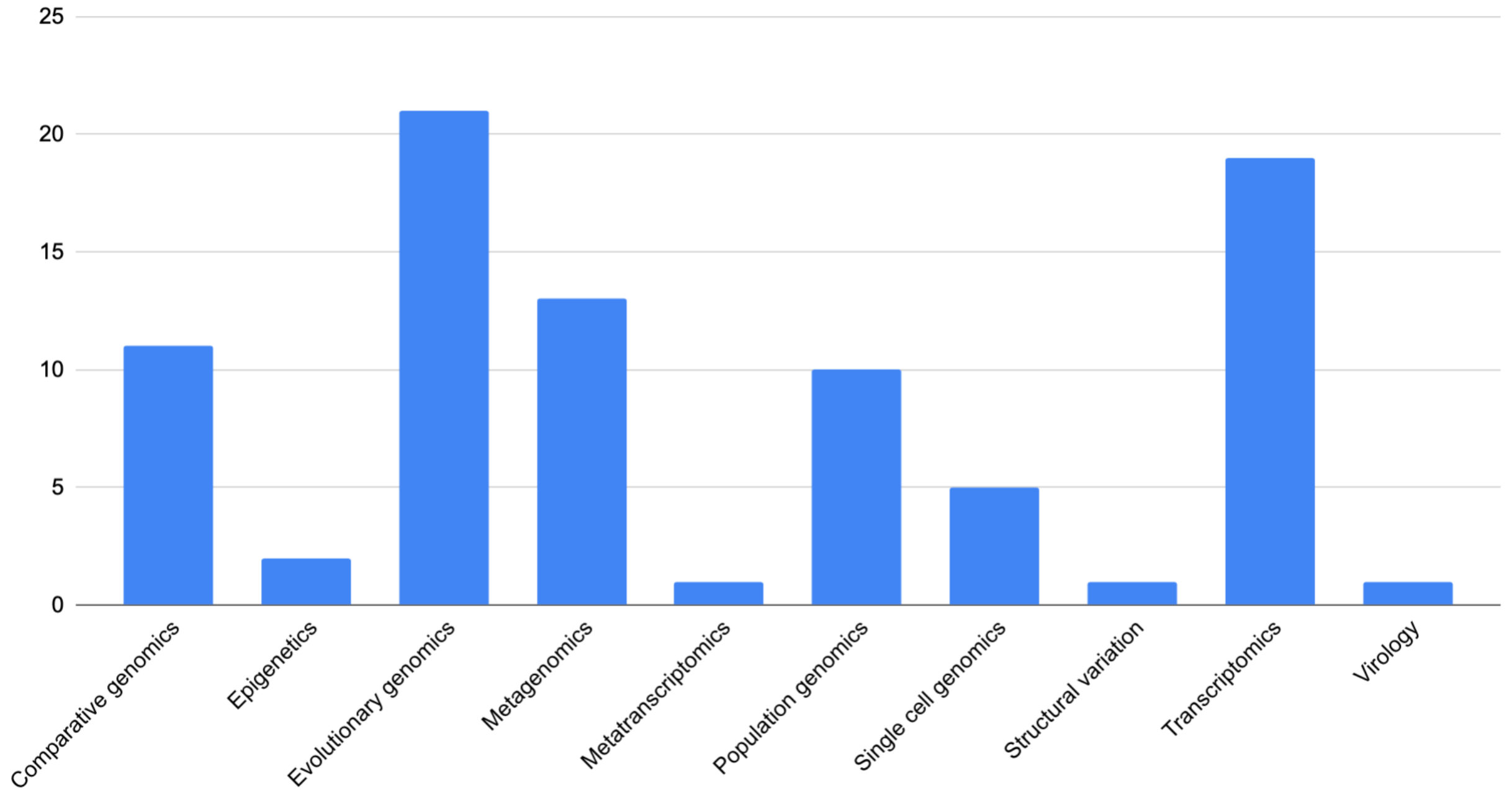
Professional Level



Regional Affiliation



Research Interest



us

instructors: your new best friends



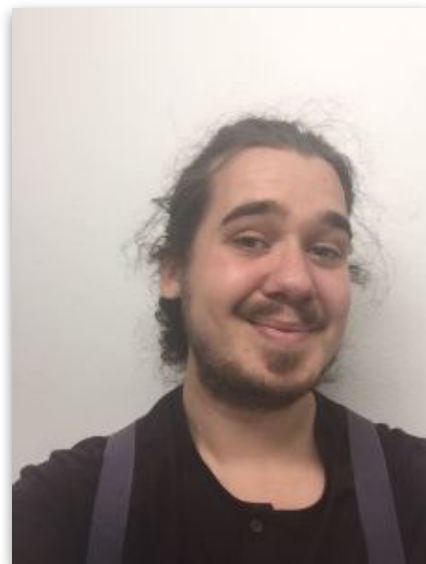
Madee



Joan



Karin



Nikos



Kalle

co-directors



Dag



Sophie



Josie



Sonya



Scott



Guy



Rayan

Previous Co-directors



Karin



Konrad

faculty: week 1



Sonya Dyhrman



Mike Zody



Camille Marchet



Antoine Limasset



Sergey Nurk



Malachi Griffith



Evan Eichler

faculty: week 2



Brian Haas



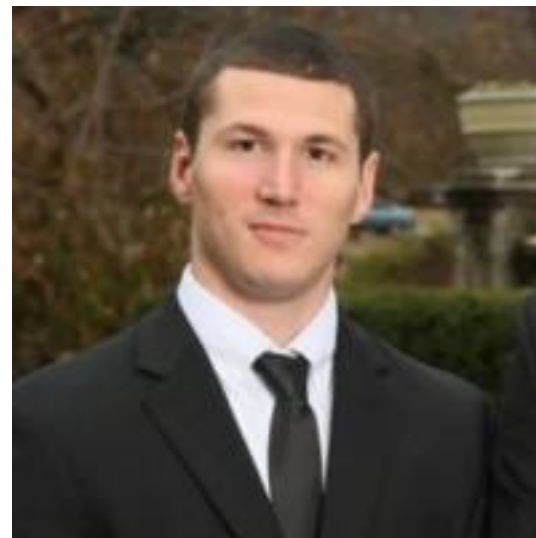
Kelly Wrighton



Emiliano Trucci



Christa Schleper



Kirk Gosik



Chris Wheat

faculty lunches

- outstanding opportunity to network with faculty
- some faculty are only here for a short period of time, so take advantage of the lunch

Workshop Information

[Link to workshop slack](#)

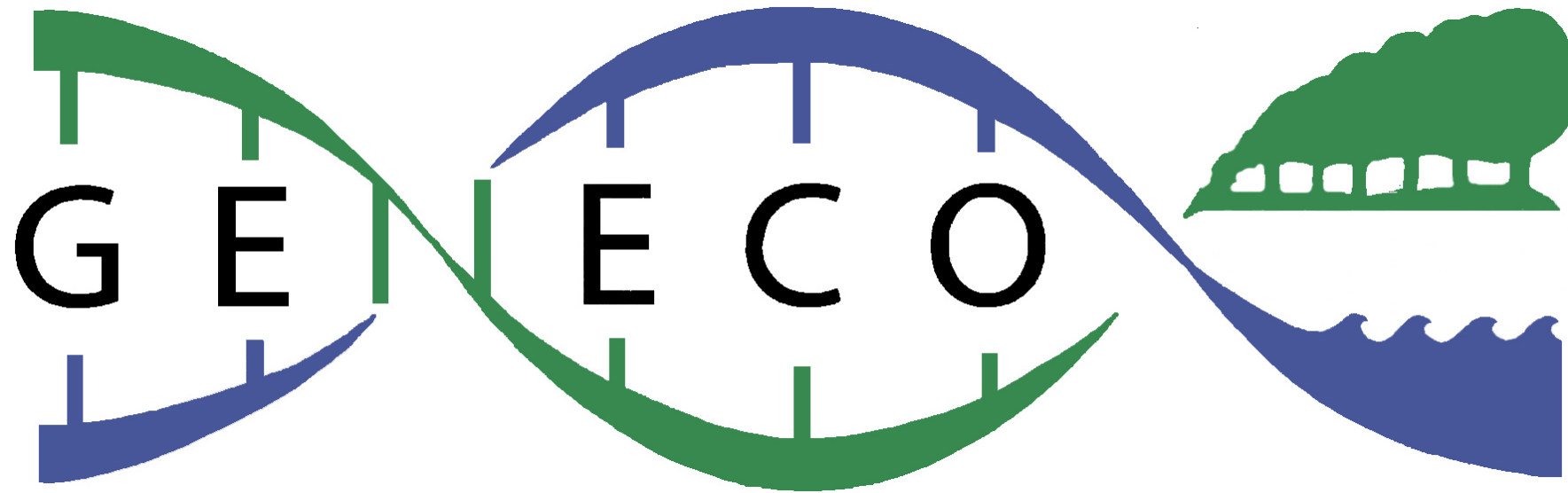
[Instance Addresses](#)

[T-Shirt Competition](#)

[Speed Networking – Monday Night](#)

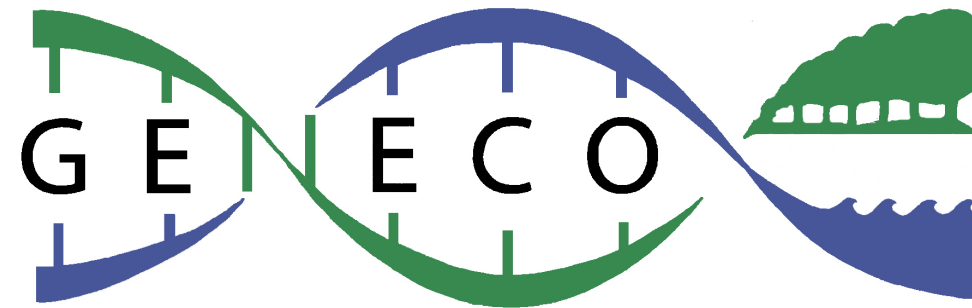
[Faculty Lunches](#)

partners



Graduate Research School in Genomic Ecology
LUND UNIVERSITY, SWEDEN





- Interdisciplinary graduate school for PhD students in Genomic Ecology
- Genomic Ecology - interface between ecology & evolution, molecular biology and genomics
- GENECHO was funded by the Swedish Research Council, from 2013 by the Faculty of Science, Lund University



GENECO program

PhD students & content

- Universities in Sweden, Norway, and Finland
- Activities: Annual Winter & Summer Meetings, PhD courses, Mentor programs, travel grants

Courses

- Understanding population genetics
- Using Phylogenetic Trees to Study Trait Evolution
- High-Dimensional Data Analysis in Ecology and Evolutionary Biology Using R
- Quantitative PCR

see www.biology.lu.se/geneco

Sponsor of Workshop on Genomics



National Bioinformatics Infrastructure Sweden

Short term support: (300+ projects)

Long term support: 500 hours (20+ projects)

Bioinformatics compute and storage (UPPNEX) specifically for NGS data

NBIS provides infrastructure and tools for:

- ▶ Bioinformatics analyses
- ▶ Bioinformatics training and workshops
- ▶ Advisory Programme for PhD students

Nodes at each of the 6 large Swedish university cities

see www.nbis.se

what
history
concepts

history



Woods Hole Workshop on Molecular Evolution



Michael Cummings
Director



Scott (me!)



Michael & Scott
have dinner in DC



Mitch Sogin
Director

TA TA

1988

2000

2001

2002

2007

Walter Salzburger
Student

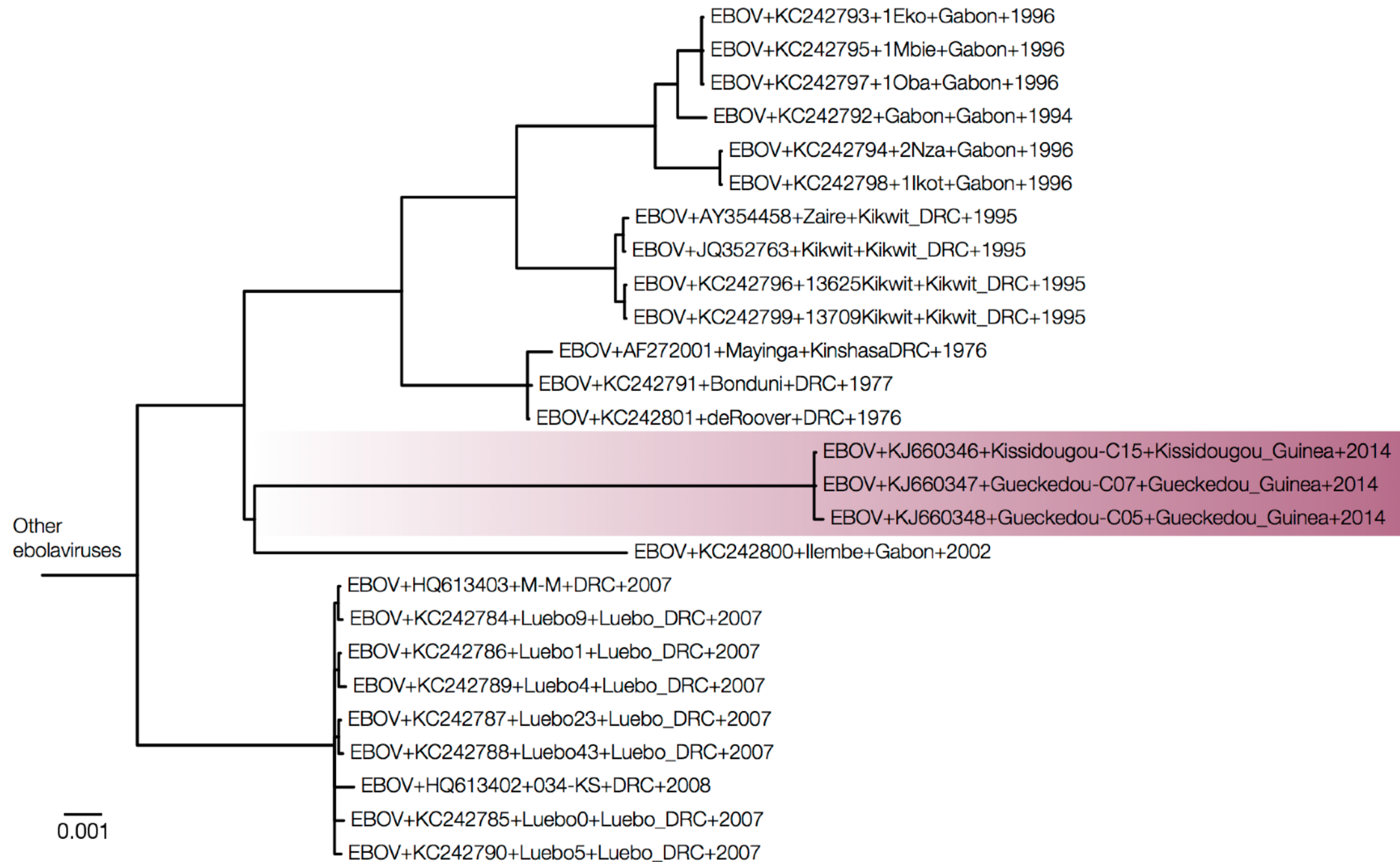


CDC

**CENTERS FOR DISEASE
CONTROL AND PREVENTION**



CDC loves trees



why Český Krumlov?



what is a Cheskie Kroomlav?

CZECH REPUBLIC



why Český Krumlov?

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



workshops go global



Michael & Scott
have dinner in DC

Workshop on
Genomics
Český Krumlov

Workshop on
Phylogenomics
Český Krumlov

2007

2008

2009

2011

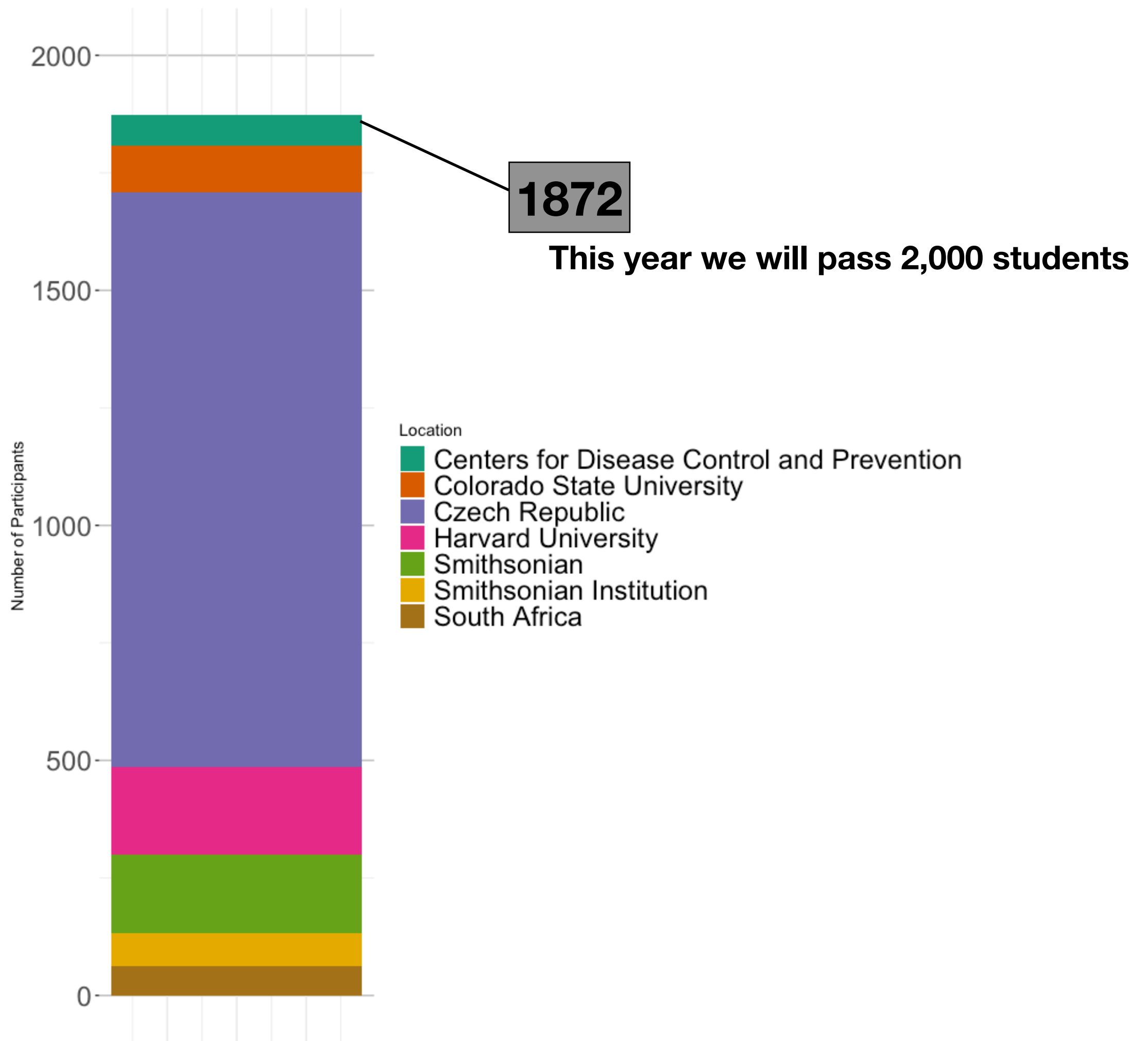
2016

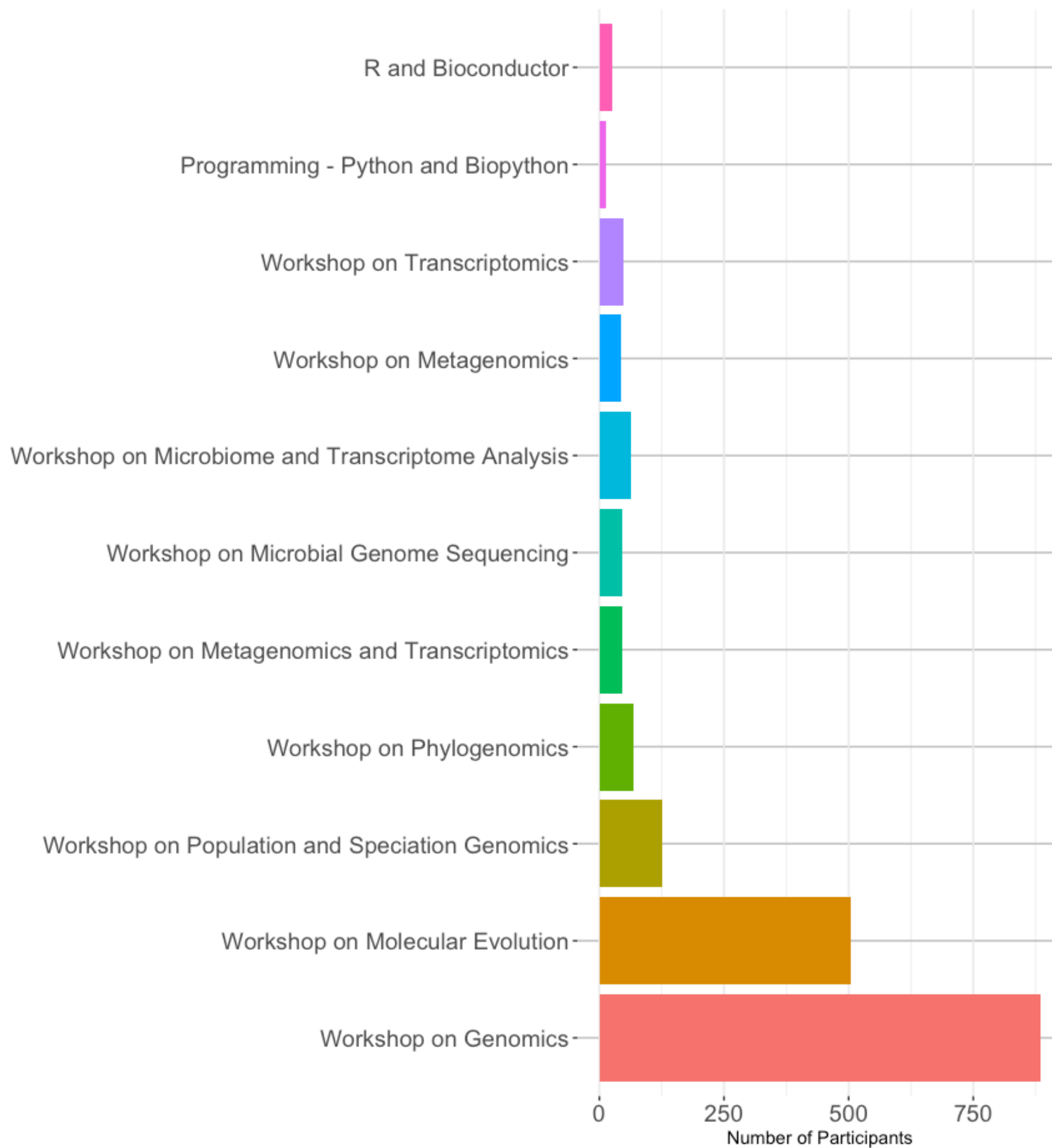
2017

Workshop on
Molecular Evolution
CDC

Workshop on
Molecular Evolution
Český Krumlov

Workshop on
Population and Speciation
Genomics
Český Krumlov





concept

Week 1: Fundamentals

Study
Design

UNIX

Assembly

Alignment

Structural
Variation

Data
QA / QC

Visualization

R

Topical

Week 2: Subject Specific

Transcriptomics

Population
Genomics

Evolutionary
Genomics

Microbiome

Phylogenomics

Study Design

Single-Cell
Transcritpomics

schedule in detail

<http://evomics.org/workshops/workshop-on-genomics/2020-workshop-on-genomics-cesky-krumlov//>

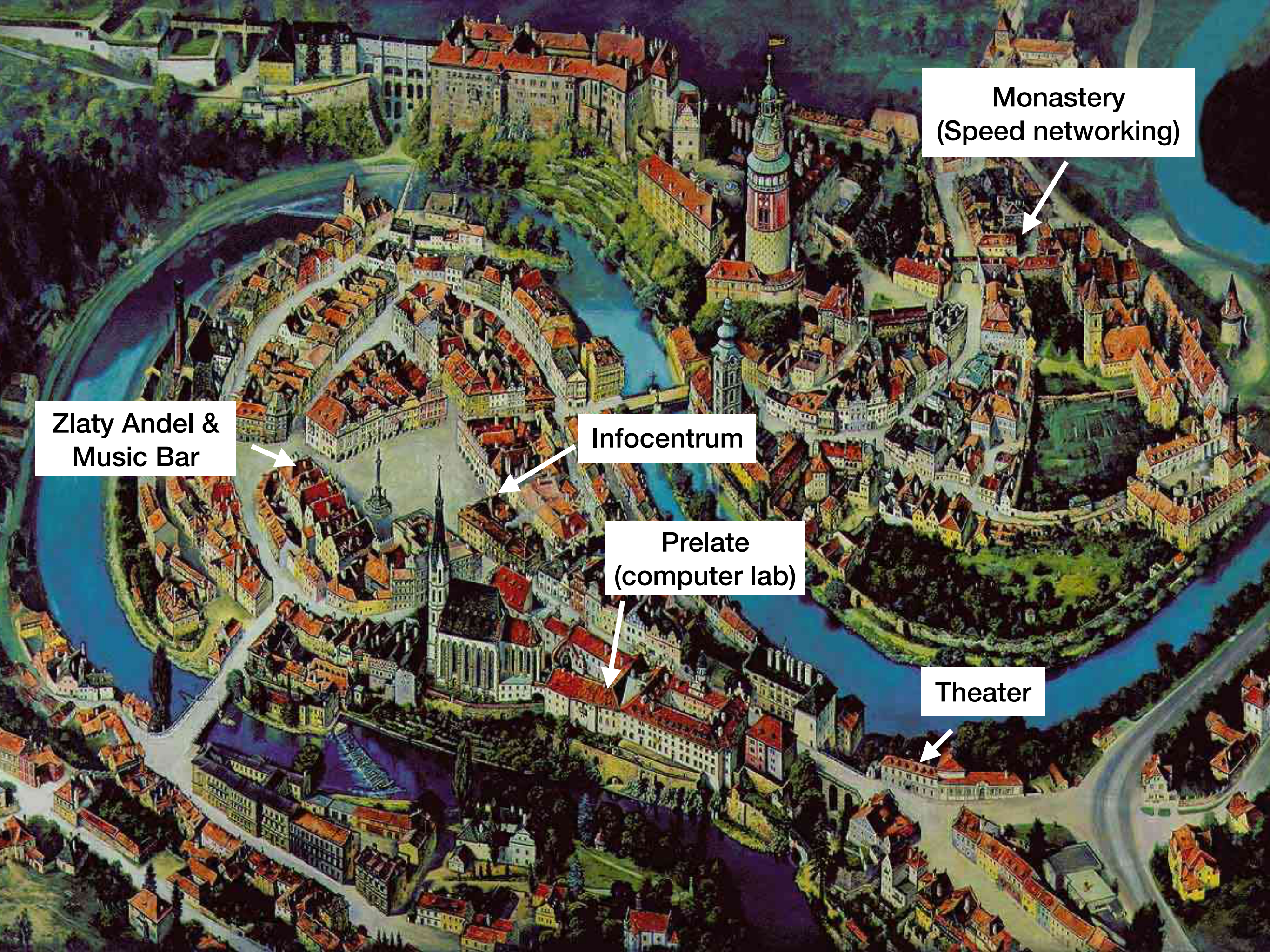
social events

- Saturday
 - meet at 18:00 in the Town Square for a group tour of Český Krumlov
 - tour will finish at Depot for dinner
- Sunday
 - free day. More information from Daniel Kintzl shortly
- Friday
 - you plan end-of-workshop dinner / party

communication during the workshop

- website: <http://evomics.org>
- twitter: #evomics2020
- facebook: Workshop on Genomics
- slack: evomics2020.slack.com

key locations



Monastery
(Speed networking)

Zlaty Andel &
Music Bar

Infocentrum

Prelate
(computer lab)

Theater


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
- 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!
 - we 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 '{print $3 "/t" $4}' text.txt
```



Thanks neighbor

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

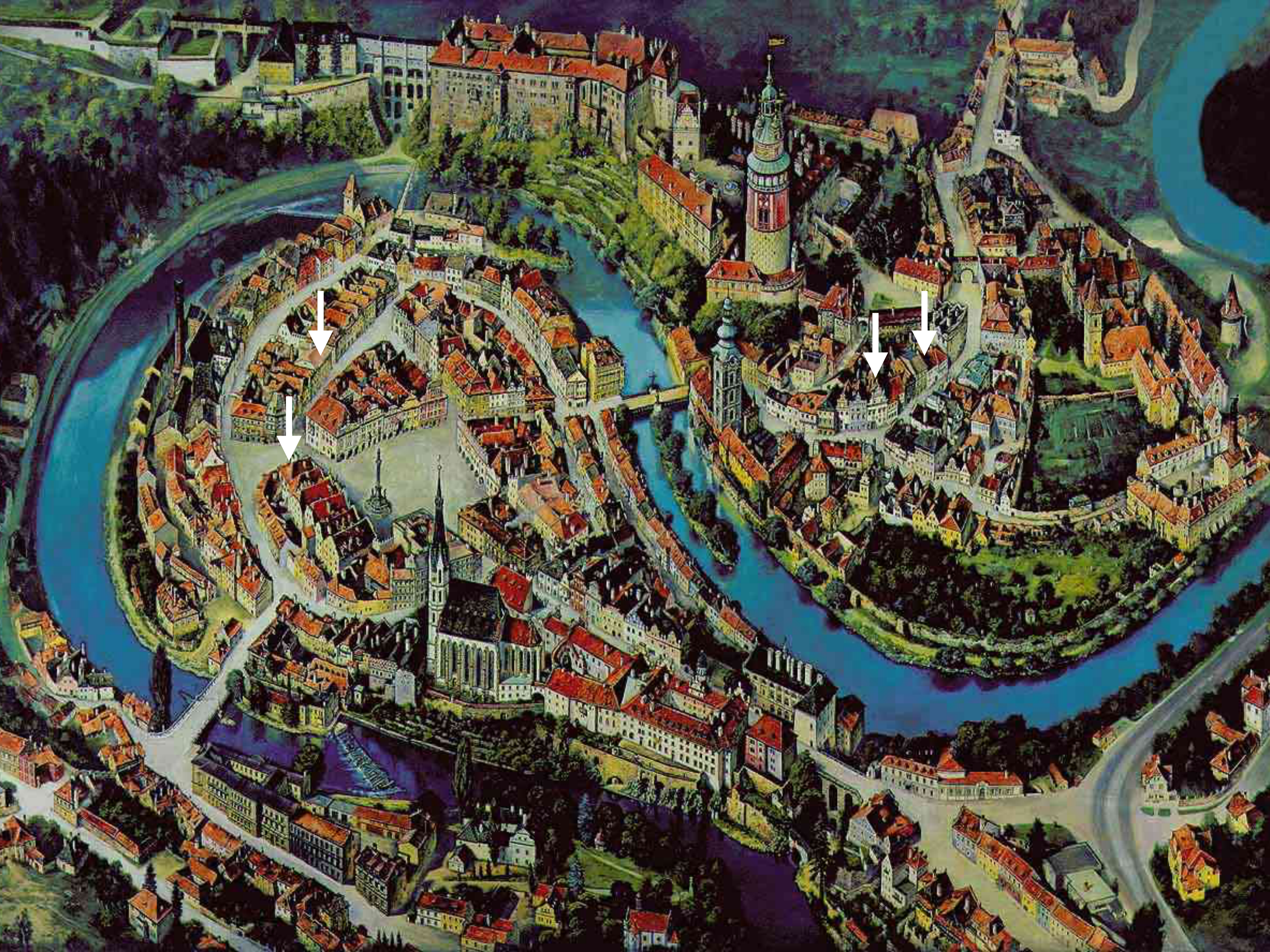
- no food or drink inside the computer hall
- wipe feet before entering
- coats in the coatroom
- do not touch the walls (frescoes) - painter died in 1791
- strict arrival and departure times
- wash your own coffee mugs



post lab discussions

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





miscellany

t-shirt competition

- top design will be awarded with a special gift from the town
- **submit by THURSDAY, 9-January (this week!)**

Workshop Information

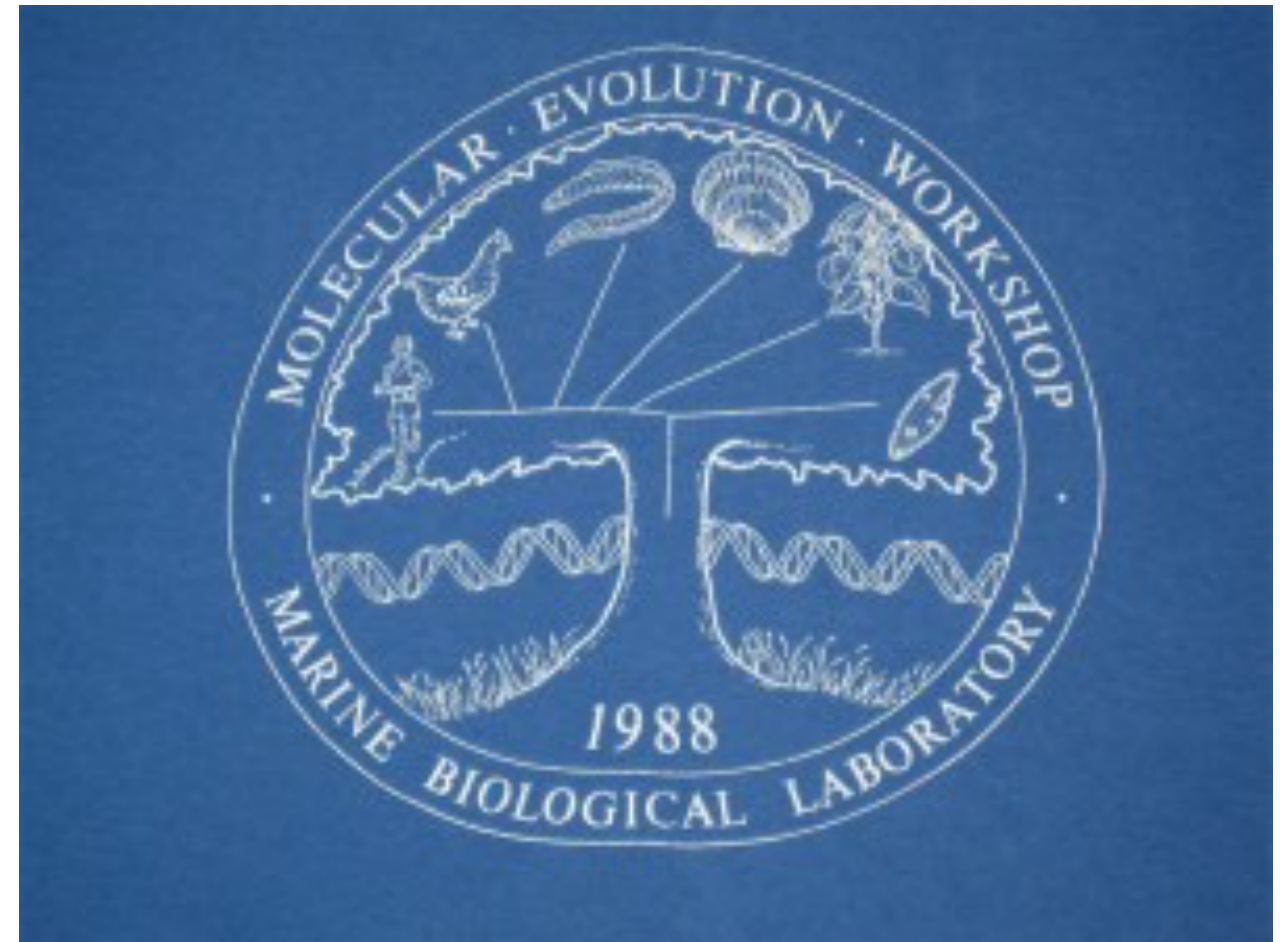
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[Faculty Lunches](#)



workshop BINGO

Genomics 2020 bingo sheet 1

| | | | | |
|----------------------------------|--|---------------------|-----------------------------|------------------------------|
| Gone to Festi bar | Walk around the castle | Tell a pun to Karin | Sing along to dancing queen | Joined a faculty lunch |
| Asked a question after a lecture | Seen the bears | Tried Becherovka | Gone to Zappa bar | Take flaming shots |
| Drank ginger tea | Eat at the meat dungeon | Free Space | Yoga/Castle run | Drink the flaming rum barrel |
| Tried Tredelnik | Command failed because you're in the wrong directory | Gone to Music bar | Learned 5 Czech expressions | cowsay hello lolcat |
| Seen the feet by the river | Gone to Egon Schiele Café | Typo in command | Started a dance floor | Helped a neighbor |

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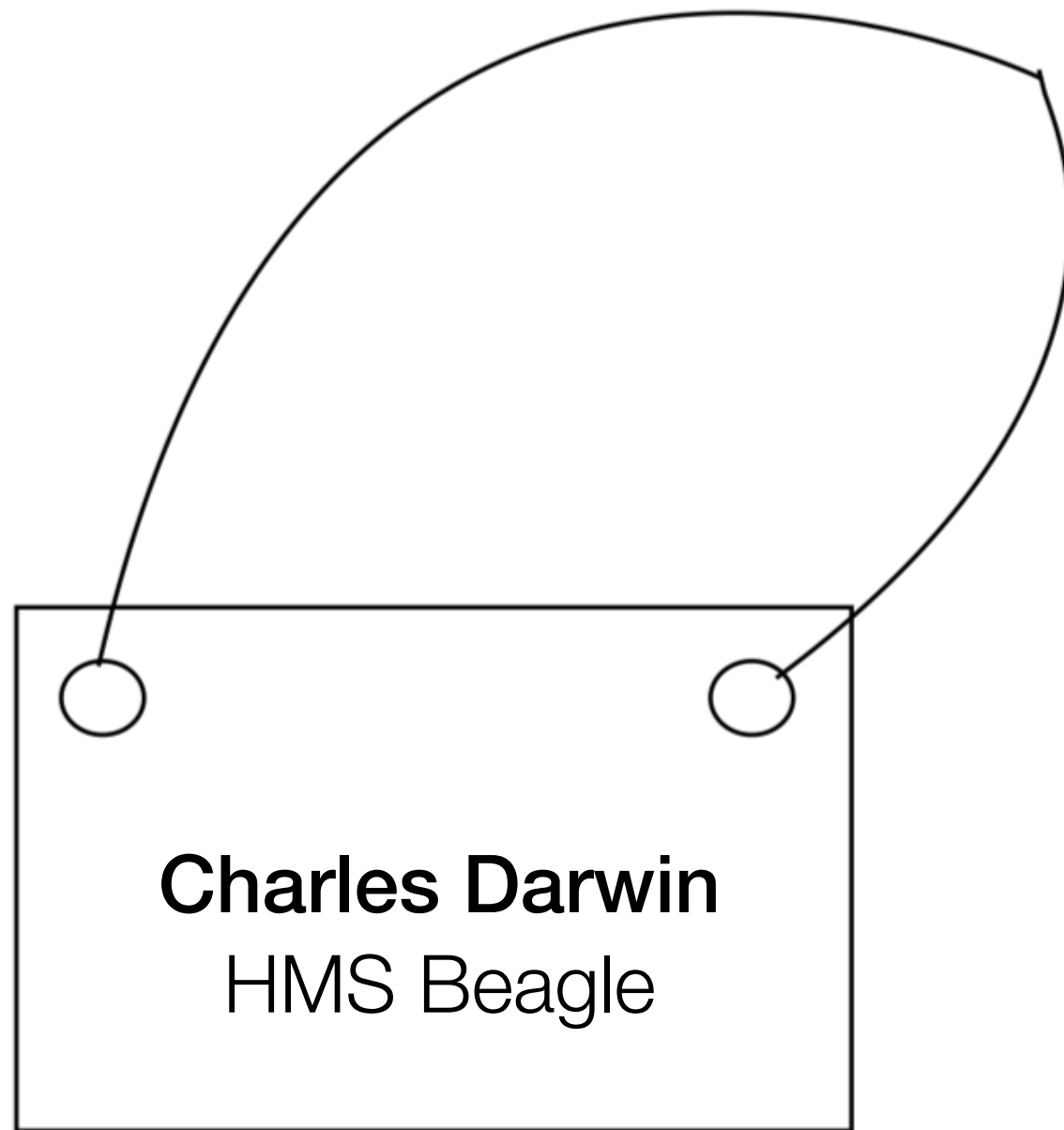
[Faculty Lunches](#)

[Bingo Sheets](#)

scientific speed networking

- tonight: Monastery (19:30)
- goals:
 - get to know each other
 - identify shared interests
 - learn approaches and methods other participants work with

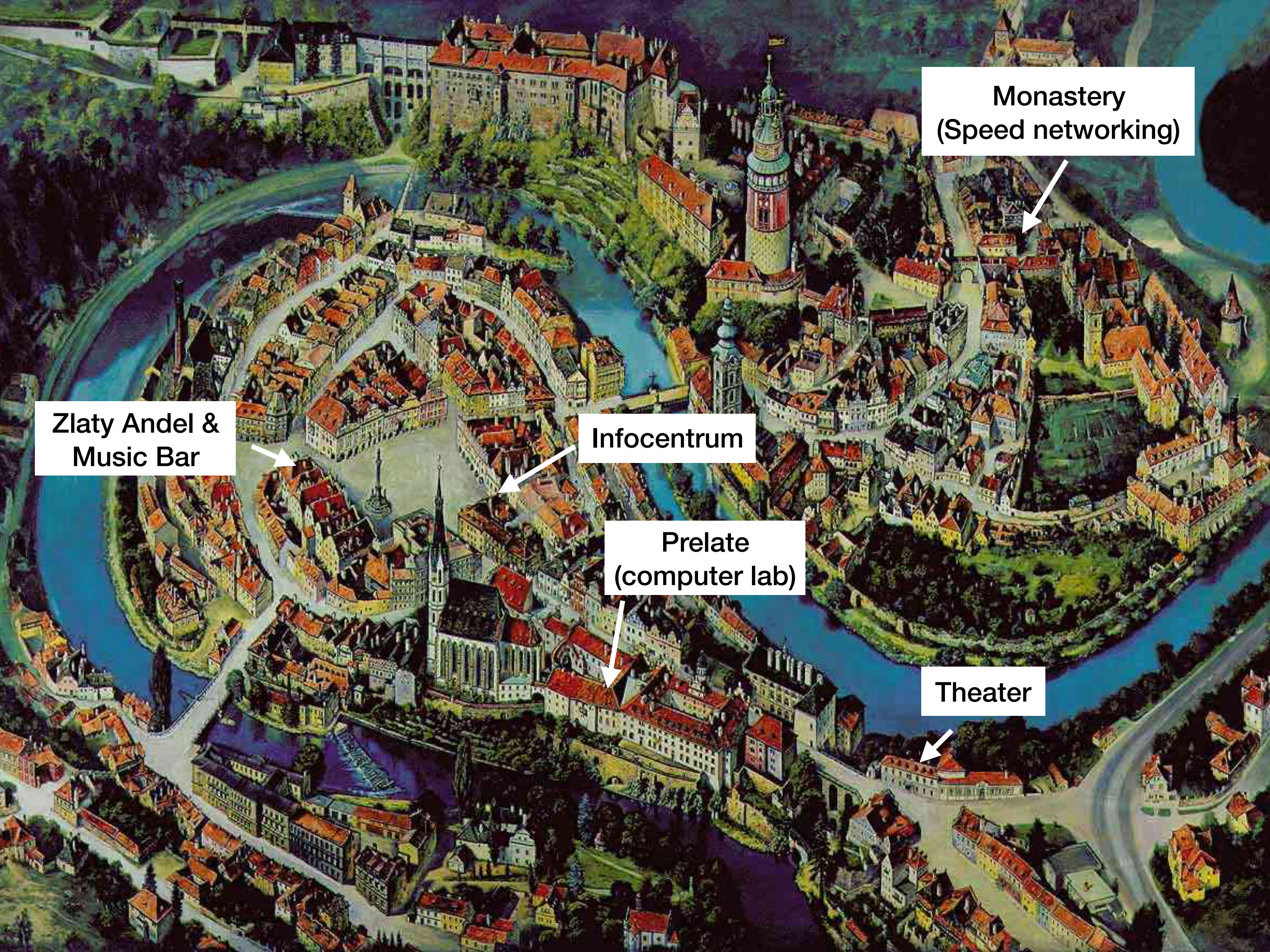
wear your name tag!



next

- information from Daniel Kintzl
- group photo
- walk to house of prelate
- Extended 1st day lunch break
- 14:00 (2pm) lecture from Sonya (here)
- 19:30 (7:30pm) speed networking (Monastery)





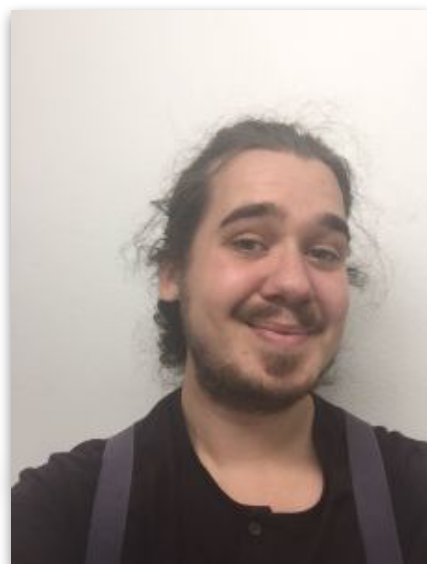
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thank you and
WELCOME!

