

# Hybrid zone workshop

## 4. -7. 9. 2017



Mohelno 134, 675 75

Where: field station Mohelský mill



<http://www.ivb.cz/research-facilities-field-station-mohelno.html>

The workshop is a forum for discussion of hybrid zones, an ideal environment for research across many topics: speciation, host-parasite interactions etc. Hybrid zones (HZ) are natural laboratories, where we can, for example, use new sequencing methods and whole-genome sequencing to closely observe evolution-genetic processes in the natural environment.

Workshop is for Ph.D students, Postdocs and Researchers at all levels interested in different aspects of HZs.

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Workshop is supported by The Czech Academy of Science

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ÚSTAV BIOLOGIE  
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### Program:

Field station Mohelský mill and Research facility Studenec

#### Monday 4. 9. 2017:

16:00 - 17:00 Arrival of participants at the field station, welcome party

#### Tuesday 5. 9. 2017: chairman Z. Hiadlovská

7:30 - 9:00 *Breakfast at the field station*

9:00 - 10:00 **Nick Barton**: Making sense of sequence data

10:00 - 10:30 **Derek Setter**: Signatures of introgression

10:30 - 11:00 *Coffee break*

11:00 - 11:45 **Stuart J. E. Baird**: Matryoshka hybrid zones of mice and their fellow-travellers

12:00 - 14:00 *Lunch at the restaurant in Mohelno*

14:00 - 16:00 Optional excursion to the The Mohelenská Serpentine Steppe National Nature Reserve

17:00 - 17:30 **Christelle Fraisse**: Fine-grained genetic structure in an admixed population of Southern-Hemisphere mussels

17:30 -18:00 Discussion

18:30 *Dinner at the restaurant in Mohelno*

#### Wednesday 6. 9. 2017: chairman S. J. E. Baird

7:30 - 9:00 *Breakfast at the field station*

9:00 - 9:30 **Zuzana Hiadlovská**: X and Y linked CNV genes across European house mouse hybrid zone

9:30 - 10:00 **Iva Martinová**: European house mouse hybrid zone: transects comparison from phenotypical point of view

10:00 - 10:30 *Coffee break*

10:30 - 11:00 **Jitka Polechová**: A sharp limit to a species' range arises due to eco-evolutionary dynamics

11:00 - 11:30 **Reka Kelemen**: The genomic characterization of the t-haplotype, a mouse meiotic driver, highlights its complex history and specialized biology

12:00 - 14:00 *Lunch at the restaurant in Mohelno*

– *after the lunch transport to the Research facility Studenec*

14:30 - 15:00 Excursion to the new mice breeding facility (by **I. Martinová**)

15:00 - 15:30 *Coffee break*

15:30 - 16:00 **Danila Kostin**: Divergent and reticulate processes along remarkable altitudinal gradient in tropics

16:00 - 16:30 **Josef Bryja**: Genetic structure of Multimammate mice in Africa - new model for hybrid zone studies?

17:00 - 20:00 Discussion and banquet at Maruska pub

#### Thursday 7. 9. 2017: departure day

7:30 - 9:00 *Breakfast at field station*

9:00 - 10:00 **Christian Lexer**: Genomic architecture of trait differences

in hybrid zones

10:00 - 10:30 Discussion

11:00 Departure from the field station

12:00 *Lunch at the restaurant in Mohelno*



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