

# **Individual-level causes and population-level consequences of variation in fitness in an Alpine rodent**

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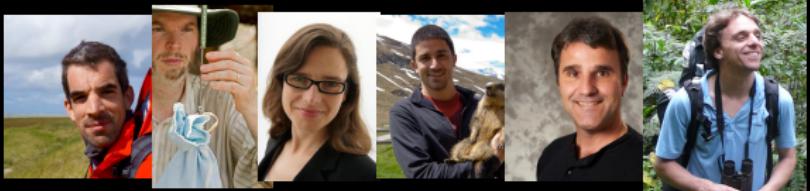
**University of  
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UZH



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- Lukas Keller
- Barbara Tschirren
- Arpat Ozgul
- Marc Kéry
- Jarrod Hadfield



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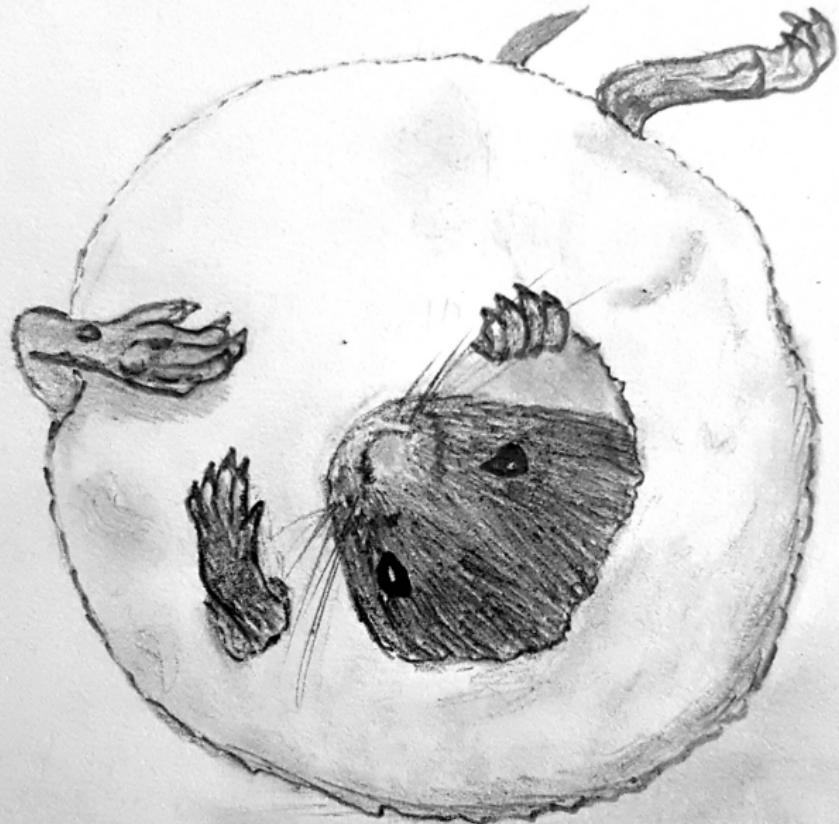


# Phenotypic variation within population









## Snow vole (*Chionomys nivalis*, Martins 1842)

- NOT white



## Snow vole (*Chionomys nivalis*, Martins 1842)

- NOT white
- Rock-dweller



## Snow vole (*Chionomys nivalis*, Martins 1842)

- NOT white
- Rock-dweller
- 30-45g



## Snow vole (*Chionomys nivalis*, Martins 1842)

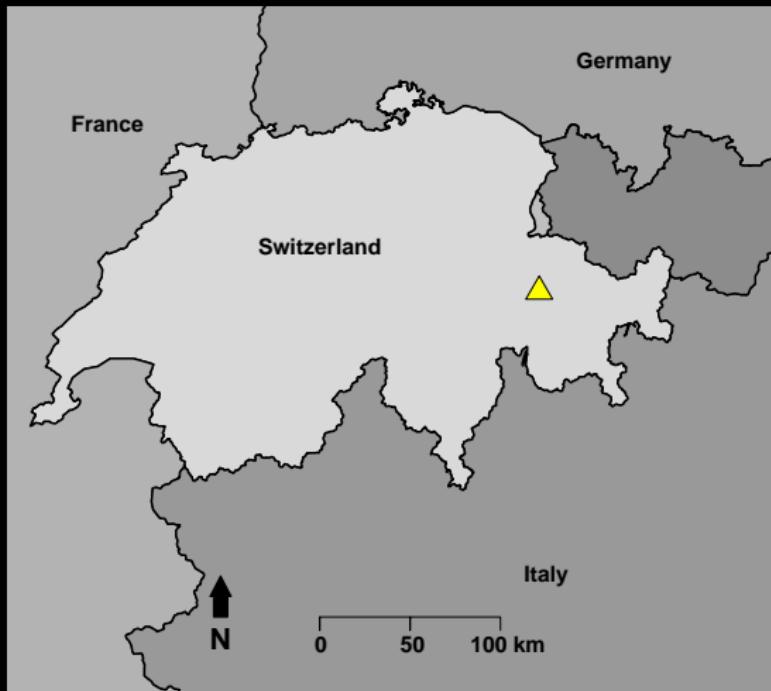
- NOT white
- Rock-dweller
- 30-45g
- 10-14cm long + 5-8cm tail



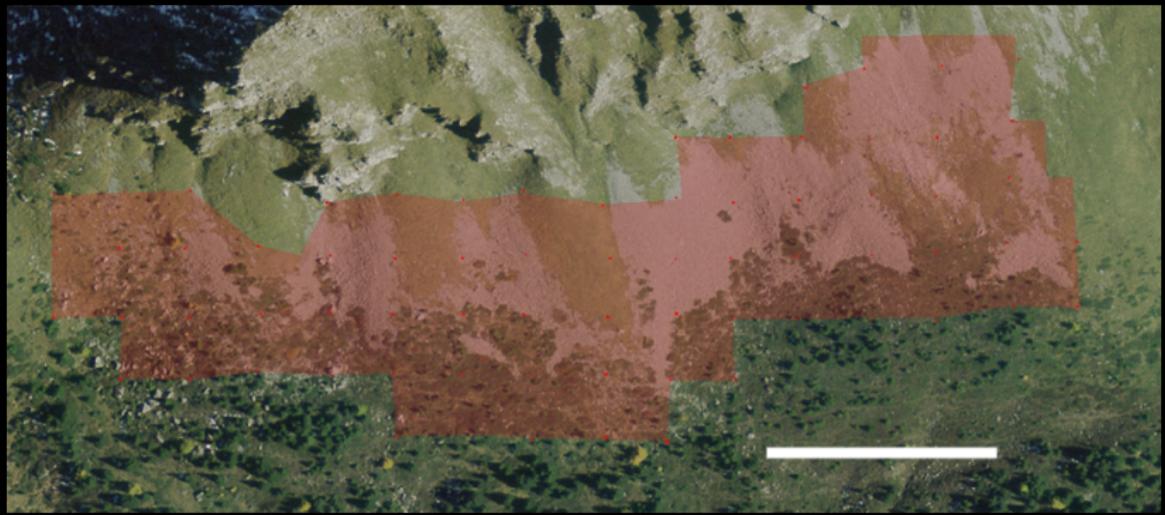
## Snow vole (*Chionomys nivalis*, Martins 1842)

- NOT white
- Rock-dweller
- 30-45g
- 10-14cm long + 5-8cm tail
- Slow life pace













## What we measure

# What we measure

- Morphology
  - Body mass
  - Body length
  - Tail length



# What we measure

- Morphology
  - Body mass
  - Body length
  - Tail length
- Capture/Recaptures
  - Death/emigration
  - Location



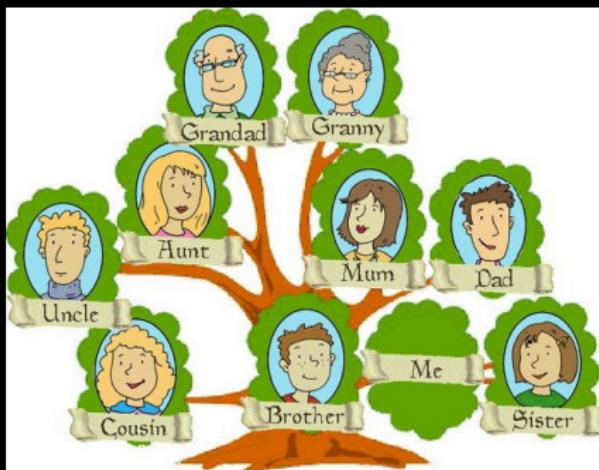
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  - 20 “neutral” markers
  - Sex identification
  - Any genotyping



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