## Vertiefungskurs 2021 “Molecular Evolutionary Biology” – April 19th to May 28th

**Morning lectures: 9:00am sharp – 10:30am M801 Invited talks: see time in the schedule**

Course page: https://www.evolutionsbiologie-uni-konstanz.com/apps/member/login

Login: Student@evolution.de password: CharlesDarwin1809

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| 19 April Mo: | Introduction: Presentations of projects, Choice of projects, Paper distribution |
| 20. Tu: Axel | What makes a Ph.D. student successful? Lab Safety & Lab Notebook (Sylvia, Nadia 11:45-13:30) |
| 21. We: Matt | Introduction to R (R Notebook) |
| 22. Th: Matt | Comparative Methods 1 |
| 23. Fr: Matt | Comparative Methods 2 |

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| 26. Mo: Paolo | Next Generation Sequencing  **3pm: Sean Stankowski (IST Austria): “Speciation continuum”** |
| 27. Tu: Paul | Molecular Markers and Species Concepts |
| 28. We: Paul | Phylogenetic Reconstruction and Multispecies Coalescent |
| 29. Th: Joost | Molecular Methods |
| 30. Fr: Axel | Introduction to Writing |

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| 3. May Mo: all | **Student paper presentations I**  **4pm: Leonardo Campagna (Cornell University): “Bird speciation in Argentina”** |
| 4. Tu: Paolo | Assembly + Annotation |
| 5. We: Paolo | Population Genomics |
| 6. Th: Jing | Sex Determination |
| 7. Fr: Jing | Evolution of Sex Chromosomes  \*\***Introduction and Materials & Methods due** |

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| 10. Mo: all | **Student paper presentations II**  **3pm - David Marques (Uni Bern) “Admixture: key to rapid adaptation, speciation and adaptive radiation?”** |
| 11. Tu: Rebekka | Gene Editing  \*\***Receive feedback Introduction and Materials & Methods** |
| 12. We: Sina | Illustrator |
| 13. Th: | Holiday |
| 14. Fr: | **9am: Fre Henning (Rio) “Cryptic Genetic Variation revealed by long-read sequencing”** |

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| 17. Mo: | **9am: Dario Titel?**  **3pm: Nico Posnian (Göttingen) “**Morphology meets Genomics - Evolution of visual system development in Drosophila” |
| 18. Tu: Julian | Concepts in Epistemology and Experimental Design |
| 19. We: Nidal | RNAseq, data collection and analyses |
| 20. Th: Joost | Evo-Devo |
| 21. Fr: Jan | Linkage maps and QTL analyses **\*\*Two figures with captions due** |

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| 24. Mo: | Holiday |
| 25. Tu: Jacobo | Structure |
| 26. We: Jacobo | Poison Evolution? |
| 27. Th: | **Finish projects / Practice presentations** |
| 28. Fr: | **Final student project presentations (15 min including questions /student)** |

**\*\*Friday 4th June Draft of Paper to Postdoctoral Mentor due**

**\*\*Friday 25th June Final paper due to Professor Meyer**