



Fish and Amphibians research @Unibe

29-30. November 2021

We are very happy to announce the **first non-mammalian focused webinar** presenting **research** activities performed **at the University of Bern** but also husbandry practices with leading experts in the field. We are honoured to have also **international specialists** sharing their know-how with less common species or set-up such **cephalopods, research with wild fish and welfare**.

Please use this [link](#) to register.

Fee: University of Bern participants, free; external participants: 80 CHF (via Payrex).

Accreditation as 2 days of continuing education for personnel performing animal experiments by the Swiss Association of Cantonal Veterinarians (VSKT) requested

Monday 29. Nov 2021

| Time (H) | Species | Speaker | Topics |
|-------------|-----------------------------|---|--|
| 09:00-09:30 | Gekkonidae Dendrobatidae | Prof. Dr. E. Ringler <i>Division Behavioural Ecology, University of Bern, CH</i> | Behavioral research in amphibians/lizards in the lab: a problems, challenges, and opportunities |
| 09:40-10:10 | Cichlidae | Prof. Dr. O. Seehausen <i>Division Aquatic Ecology, University of Bern, CH</i> | How cichlid fish adaptive radiation research drives paradigm shifts in evolutionary biology |
| | BREAK | | |
| 10:30-11:00 | Gasterosteidae | Prof. Dr. K. Peichel <i>Division Evolutionary Ecology, University of Bern, CH</i> | Sticklebacks as model systems for evolutionary genetics and genomics, quantitative trait locus (QTL) mapping |
| 11:10-11:40 | Salmonidae | Dr. Med. Vet. N. Diserens <i>Institute for Fish and Wildlife Health, University of Bern, CH</i> | Most prevalent diseases of Salmonidae |
| | LUNCH | | |
| 12:45-13:45 | Cephalopods | Dr. Med. Vet., PhD V. Galligioni <i>Comparative Medicine Unit, Trinity College Dublin, Ireland</i> | Biology, housing and nutrition of cephalopods |
| 14:00-15:00 | Cichlidae | Prof. Dr. B. Taborsky <i>Institute of Ecology and Evolution, University of Bern, CH</i> | Cichlids as model in behaviour; fish husbandry and handling |
| | BREAK | | |
| 15:30-16:30 | Amphibians | Dr. Med. Vet., DECVP S. Keller <i>Institute for Fish and Wildlife Health University of Bern, CH</i> | Normal anatomy, anaesthesia/ euthanasia, and most prevalent diseases |
| 16:30-17:30 | Wild species | Prof. S. Cooke <i>Fish ecology and conservation physiology lab, Carlton University, Canada</i> | Working with wild fish in the wild... http://www.fecpl.ca/ |

Tuesday 30. Nov 2021

| Time (H) | Species | Speaker | Topics |
|-------------|------------|---|--|
| 09:00-10:00 | Danionidae | Prof. Dr. I. Adrian-Kalchauer <i>Institute for Fish and Wildlife Health University of Bern, CH</i> | Impacts of evolutionary considerations and cross-generational effects on experimental design and outcomes |
| 10:10-10:40 | Danionidae | Prof. Dr. S. Leidel <i>Dep. for Chemistry, Biochemistry and Pharmacy, University of Bern, CH</i> | Generation of mutants, knockouts; Characterization of new phenotypes; next generation sequencing, single cell sequencing in fish |
| | BREAK | | |
| 10:50-11:20 | Danionidae | Dr. D. Grandgirard <i>Institute for Infectious Diseases, University of Bern, CH</i> | Infectious models in Zebrafish – opportunities and challenges |
| 11:20-11:40 | Danionidae | M.Sc N.D. Le <i>Institute for Infectious Diseases, University of Bern, CH</i> | Danio Vision system for basic behavioural analysis |
| | LUNCH | | |
| 12:30-13:15 | Danionidae | Mr. A. U. Ernst <i>Institute of Anatomy, University of Bern, CH</i> | The Zebrafish as a model in Developmental Biology and imaging based screening |
| 13:15-14:00 | Danionidae | Dr. I. Marques <i>Institute of Anatomy, University of Bern, CH</i> | Zebrafish as a model for organ regeneration, working with adult ZF |
| | BREAK | | |
| 14:15-15:15 | Danionidae | Prof. Dr. N. Mercader <i>Institute of Anatomy, University of Bern, CH</i> | General Zebrafish husbandry and stock control. |
| 15:20-16:20 | Danionidae | PD. Dr. Med. Vet., DECVP H. Schmidt-Posthaus <i>Institute for Fish and Wildlife Health University of Bern, CH</i> | Most prevalent diseases of ZF and health monitoring programs |
| 16:30-17:30 | Danionidae | Dr. L. Sneddon <i>Dep. of Biological & Environmental Sciences, University of Gothenburg, Sweden</i> | Assessing and alleviating pain in zebrafish |