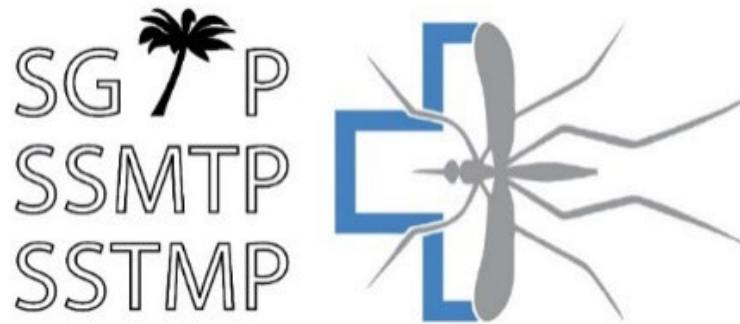


Joint Annual Meeting of SSTMP and SSTTM 2022



10/11 November, 2022, Kursaal Bern (pages 5-13)

9 November, 2022, Satellite meeting: PhD and doctoral students SSTMP (pages 2-4)

Satellite meeting: PhD and doctoral students meeting of the SSTMP (closed meeting)

9 November, 2022, Kursaal Bern

| Wednesday, 9 November | | | |
|---|--|---|--|
| 9:00- 9:30 Welcome coffee | | | |
| 9:30 – 10:00 Welcome | | Britta Lundström-Stadelmann, Kerry Woods, Pascal Mäser, Till Voss | |
| 10:00 – 11:20 Presentations of students' projects: (8 minutes + 2 minutes questions) | | | |
| 1. | Japanese encephalitis virus: vector competence of Swiss mosquito species, and viral <i>in vitro</i> evolution | Julia Ettlin | Institute for Parasitology, University of Zurich |
| 2. | Thermal preference of mosquitoes and biting midges | David Hug | Institute for Parasitology, University of Zurich |
| 3. | Microbiota-mediated resistance to insecticides in the major malaria vector mosquito <i>Anopheles gambiae</i> | Sandra Le Bissonais | Laboratoire d'épidémiologie et écologie des parasites, Université de Neuchâtel |
| 4. | <i>Toxoplasma gondii</i> infection in the Eurasian Beaver (<i>Castor fiber</i>) | Patrick Scherrer | Institute for Fish and Wildlife Health and Institute of Parasitology, University of Bern |
| 5. | DNA from water samples for detection of <i>Tetracapsuloides bryosalmonae</i> : comparison and calibration of different methods | Moritz Stelzer | Institute for Fish and Wildlife Health, University of Bern |
| 6. | Zoonotic cestodes in domestic Swiss cats | Rebecca Furtado Jost | Institute of Parasitology, University of Bern |
| 7. | Test development for alveolar and cystic echinococcosis diagnostics | Philipp Kronenberg | Institute of Parasitology, University of Zurich |
| 8. | Risk factors for AE and CE in Kyrgyzstan | Kuban Abdykerimov | Section of Epidemiology, University of Zurich |
| 11:20 – 12:00 Parasite Quiz | | | |
| 12:00 – 14:00 Lunch + Check in | | | |
| Check in at Marthahaus available from 13:30 | | | |

| 14:00 – 15:40 Presentations of students' projects: (8 minutes + 2 minutes questions) | | | |
|--|--|---------------------------|--|
| 1. | Compounds from the root bark of <i>Ziziphus jujuba</i> with <i>in vitro</i> antiprotozoal activity | Ozlem Sevik Kilicaslan | School of Pharmaceutical Sciences, University of Geneva |
| 2. | Evaluating phosphodiesterase-inhibitors as potential anticryptosporidials | Jubilee Ajiboye | Department of Medicine, University of Vermont USA |
| 3. | Nanopore sequencing of <i>Plasmodium falciparum</i> antimalarial drug resistance genes | Salome Hosch | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| 4. | Improving genotyping methods in antimalarial clinical trials | Daniela Montero Salas | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| 5. | Calcium-dependent protein kinases in apicomplexans and their interaction with bumped kinase inhibitors | Stefanie Teyssere | Institute of Parasitology, University of Bern |
| 6. | Moxidectin - a promising alternative to ivermectin in strongyloidiasis treatment | Viviane Sprecher | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| 7. | Determining the pharmacokinetics of praziquantel for an effective deworming in European Pond Turtles | Christian Lotz | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| 8. | Screening of the MMV Pandemic Response Box against alveolar echinococcosis | Pascal Zumstein | Institute of Parasitology, University of Bern |
| 9. | Improving translational power in antischistosomal drug discovery | Stefan Biendl | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| 10. | Schistosomiasis elimination in Zanzibar - insights after two years of the SchistoBreak study | Lydia Trippler | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| 15:40 – 16:00 Coffee break | | | |

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|----------------------|--|----------------|--|
| 16:00 – 17:00 | Presentations of students' projects: (8 minutes + 2 minutes questions) | | |
| | 1. Novel insights into the sex-specific biology of <i>P. falciparum</i> | Beatriz Graça | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| | 2. Elucidating the cellular and molecular mechanisms of stage progression in cyst-forming apicomplexans | Valerio Anelli | Institute of Parasitology, University of Zurich |
| | 3. The interactome of putative <i>Giardia lamblia</i> virulence factors implicates endocytic compartments in unconventional secretion pathways | Erina Balmer | Institute of Cell Biology, University of Bern |
| | 4. Investigations into the mode of action of leucinoastatin A and its derivatives on mitochondria and mitochondrial ATP synthase | Lukas Rimle | DCBP, University of Bern |
| | 5. Providing stability without being rigid – the dual nature of the TAC in <i>Trypanosoma brucei</i> | Irina Bregy | Institute of Cell Biology, University of Bern |
| | 6. Starving a deadly parasite: Investigation and inhibition of the threonine metabolism of the fox tapeworm <i>Echinococcus multilocularis</i> | Marc Kaethner | Institute of Parasitology, University of Bern |
| 17:10 – 18:10 | Careers in Global Health and Tropical Medicine | Peter Hotez | Baylor College of Medicine, Texas, USA |
| 19:00 – 22:00 | Fackelwanderung + dinner at Dalhölzli restaurant | | |
| | Meet at Thunplatz bus station at 19:00 | | |

Annual meeting: 10/11 November, 2022, Kursaal Bern

Thursday, 10 November

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| 8:30-9:30 | Registration and reception, poster setup, welcome coffee | | |
| 9:30 – 9:45 | Welcome | Britta Lundström-Stadelmann and Cornelia Stähelin | |

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|-------------------------------------|-------------|--|---|---|
| SESSION 1: SSTMP & SSTTM | 9:45-12:45 | Vaccine Hesitancy and Public Health | Chairs: Charlotte Adamczick and Cornelia Stähelin | |
| Room: Aare | | | | |
| | 9:45-10:30 | KEYNOTE: Global vaccines and vaccinations: The science and the antiscience | Peter Hotez | Baylor College of Medicine, Texas, USA |
| | 10:30-11:00 | KEYNOTE: HPV vaccine panic in Japan and its consequences | Riko Muranaka | Kyoto University School of Medicine, Japan |
| Coffee break | 11:00-11:20 | | | |
| Room: Foyer | | | | |
| SESSION 1: SSTMP & SSTTM | 11:20-12:45 | Vaccine Hesitancy and Public Health (cont.) | Chairs: Charlotte Adamczick and Cornelia Stähelin | |
| Room: Aare | | | | |
| | 11:20-11:40 | National research program vaccine hesitancy | Philip Tarr | Kantonsspital Baselland & University of Basel |
| | 11:40-12:00 | Signals or coincidence? A regulatory perspective of vaccinovigilance in 2022 | Thomas Stammschulte | Swissmedic |
| | 12:00-12:35 | Lessons learned from the Covid-19 pandemic and implications going forward | Anne Spaar Zographos; Machteld van den Berg | Federal Office of Public Health |

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|--------------------------|-------------|---|-----------------|---|
| | 12:35-12:40 | Speed talk: Comparison of different genotyping methods for differentiating <i>Plasmodium falciparum</i> recrudescence from new infections in treated malaria patients | Annina Schnotz | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| | 12:40-12:45 | Speed talk: Monitoring of SARS-CoV-2 in waste water treatment plants located in Ticino Region | Ottavio Beretta | Department of Health and Welfare of Canton Ticino - Cantonal Medical Office (DSS-UMC) |
| Lunch and poster viewing | 12:45-14:15 | | | |
| Room: Foyer and Aare | | | | |

| SESSION 2: SSTMP & SSTTM | | 14:15-15:30 | | Vectors and Vector-Borne Diseases | Chairs: Pie Müller and Olivia Veit | |
|--------------------------|-------------|--|-------------------------|--|------------------------------------|--|
| Room: Aare | | | | | | |
| | 14:15-14:25 | An additional blood meal accelerates the development of <i>P. falciparum</i> field-isolates in the malaria vector <i>Anopheles gambiae</i> | Lorenz Hofer | Swiss Tropical and Public Health Institute, Allschwil; University of Basel | | |
| | 14:25-14:35 | How does larval nutritional stress affect mosquito and their vector capacity? | Maria Soledad Santillan | Department of Ecology and Evolution, University of Lausanne | | |
| | 14:35-14:45 | Temperature preferences of mosquitoes and biting midges | David Hug | Institute of Parasitology, University of Zurich | | |
| | 14:45-14:55 | Japanese encephalitis virus: Vector competence of Swiss mosquito species, and viral <i>in vitro</i> evolution | Julia Ettlin | Institute of Parasitology, University of Zurich | | |
| | 14:55-15:05 | First detection of West Nile virus in mosquitoes in Southern Switzerland | Stefania Cazzin | Institute of Microbiology, University of Applied Sciences and Arts of Southern Switzerland | | |
| | 15:05-15:15 | Identifying bridge vectors of novel mosquito-borne viruses in Côte d’Ivoire | Silvan Hälgi | Swiss Tropical and Public Health Institute, Allschwil; University of Basel | | |
| | 15:15-15:30 | Q&A with all speakers of the session | All speakers | | | |
| Short break | | 15:30-15:40 | | | | |

| Best student presentation 2021 and Poster pitch | | Chairs: Kerry Woods and Till Voss | | |
|---|-------------|--|-----------------------|--|
| Room: Aare | | | | |
| | 15:40-16:05 | Best student presentation 2021: Variation in seasonal patterns of malaria incidence using wavelets | Alexis Martin | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| | 16:05-16:07 | COVID-evidence: Comparison of the clinical trial research agenda between developing and developed countries | Arunima Bhattacharjee | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| | 16:07-16:09 | Skin microbials to reduce pathogen transmission to sheep by biting midges | Paula Brok | National Centre for Vector Entomology, Institute of Parasitology, University of Zurich |
| | 16:09-16:11 | Swiss Mosquito Network: a national coordination network for the activities on invasive mosquitoes | Valeria Guidi | Institute of Microbiology, University of applied sciences and arts of Southern Switzerland |
| | 16:11-16:13 | How do mosquitoes interact with vector control tools? A 3D video tracking analysis. | Mathurin Fatou | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| | 16:13-16:15 | The impact of ivermectin metabolites on <i>Anopheles stephensi</i> mosquito survival | Charlotte Kern | University Hospital Bern; University Hospital Basel, University of Basel |
| | 16:15-16:17 | A synergistic approach identifies host factors essential for the survival of intracellular <i>Apicomplexa</i> | Marina Maurizio | Institute of Animal Pathology, University of Bern |
| | 16:17-16:19 | Evaluation of the multiplex PCR panel Novodiag Parasites Stool Assay | Camille Schilt | Microbiologie, ADMED Analyse et Diagnostics Médicaux, La Chaux-de-Fonds |
| | 16:19-16:21 | Natural selection on transmission investment facilitates the spread of drug resistance in <i>Plasmodium falciparum</i> | Lauriane Sollelis | Institute of Parasitology, University of Zurich; University of Glasgow, United Kingdom |
| | 16:21-16:23 | Hepatitis D (Delta) and liver fibrosis in Macenta, forest region of the Republic of Guinea | Cornelia Stähelin | Centre Hospitalier Régional Spécialisé (CHRS), Macenta, République de Guinée; Bern University Hospital |
| | 16:23-16:25 | Efficacy of VectoMax® FG in gullies against the Asian tiger mosquito <i>Aedes albopictus</i> in the city of Basel | Tobias Suter | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| Coffee break | 16:25-17:00 | | | |
| Room: Foyer | | | | |

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| Young Investigator Award | 17:00-19:00 | Chairs: Britta Lundström-Stadelmann and SSTMP board | |
| SSTMP GENERAL ASSEMBLY | SSTMP board and members only | | |
| Room: Aare | | | |
| | | | |
| CONFERENCE DINNER | 19:30-23:30 | Rosengarten | |

| SESSION 3: SSTMP | | Molecular Parasitology | | | Chairs: Carmen Faso and Lucienne Tritten |
|------------------|------------|--|------------------------|--|--|
| Room: Aare | | | | | |
| | 8:30-9:00 | Parasite infection in the haematopoietic niche: a new paradigm in malaria research | Matthias Marti | Institute of Parasitology, University of Zurich; Wellcome Centre for Integrative Parasitology, University of Glasgow, United Kingdom | |
| | 9:00-9:15 | Accelerating antischistosomal drug discovery through combined screening strategies | Stefan Biendl | Swiss Tropical and Public Health Institute, Allschwil; University of Basel | |
| | 9:15-9:30 | Modulation of host FOXO1 activity in <i>Theileria</i> -transformed cells | Kerry Woods | Institute of Animal Pathology, University of Bern | |
| | 9:30-9:45 | A toolkit of approaches to support target-focused drug discovery for <i>Plasmodium falciparum</i> lysyl tRNA synthetase | Natalie Wiedemar | Wellcome Centre for Anti-Infectives Research, University of Dundee, United Kingdom | |
| | 9:45-9:50 | Speed talk: From commitment to conversion: Characterising the nature of sexual merozoites in the human malaria parasite <i>Plasmodium falciparum</i> | Kannan Venugopal | Institute of Parasitology, University of Zurich; Wellcome Centre for Integrative Parasitology, University of Glasgow, United Kingdom | |
| | 9:50-9:55 | Speed talk: A core UPS molecular complement implicates unique endocytic compartments at the parasite-host interface in <i>Giardia lamblia</i> | Erina A. Balmer | Institute of Cell Biology, University of Bern | |
| | 9:55-10:00 | Speed talk: Genome-wide CRISPR/Cas9 screens for the identification of essential host factors for <i>Toxoplasma gondii</i> infection | Andrea Gaspare Valenti | Institute of Animal Pathology, University of Bern | |

| SESSION 4: SSTTM Room: Aare 1+2 | 8:30-10:00 | New Vaccines for Diseases in Resource-Limited Countries | | | Chairs: Andreas Neumayr and Gilles Eperon |
|------------------------------------|-------------|---|-----------------------|---|---|
| | 8:30-9:00 | CEPI - vaccine for disease X | Jakob Cramer | Coalition for Epidemic Preparedness Innovations | |
| | 9:00-9:20 | Polio eradication – final hurdles and new vaccine options (OPV and IPV) | Ondrej Mach | Research and Product Development Team Lead Polio Department, WHO | |
| | 9:20-9:40 | New arboviral vaccines in the pipeline | Annelies Wilder-Smith | London School of Hygiene & Tropical Medicine, UK and WHO | |
| | 9:40-10:00 | Vaccines against hemorrhagic viral infections - update | Frédérique Jacquerioz | Hôpitaux Universitaires de Genève | |
| Coffee break Room: Foyer | 10:00-10:30 | | | | |

| Global Health Guest Session | 10:30-12:30 | A View on Global Health from Different Players | | | Chairs: Helena Greter and François Chappuis |
|------------------------------------|--------------------|---|---------------------|---|--|
| Room: Aare | | | | | |
| | 10:30-10:50 | SANTD – The Swiss contribution to the elimination of neglected tropical diseases | René Stäheli | Swiss Alliance against Neglected Tropical Diseases | |
| | 10:50-11:10 | SMG – Public advocacy for strengthening the Swiss contribution to global malaria control and elimination | Christian Lengeler | Swiss Malaria Group | |
| | 11:10-11:30 | ESCCAP – Providing free best-practice guidelines to help veterinarians and pet owners control companion animal parasites and avoid zoonotic and travel diseases | Caroline Frey | European Scientific Counsel Companion Animals Parasites, ESCCAP Schweiz | |
| | 11:30-11:50 | FESTMIH – Initiatives and opportunities within the network of European societies for tropical medicine and global health | Charlotte Adamczick | Swiss Society of Tropical Medicine and Parasitology, Federation of European Societies of Tropical Medicine and International Health | |
| | 11:50-12:10 | FIND – changing the diagnostics landscape: what pandemic preparedness means for endemic diseases | Aurélia Vessièr | Emerging Threats and Global Health Security, Foundation for Innovative New Diagnostics, Geneva | |
| | 12:10-12:30 | DEZA – Addressing the Covid-19 pandemic: the role of Switzerland's international cooperation | Erika Placella | Federal Department of Foreign Affairs, Swiss Agency for Development and Cooperation | |

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|--------------------------|-------------|
| Lunch and poster viewing | 12:30-14:30 |
| Room: Aare and Foyer | |

| SESSION 5: SSTMP | 14:30-16:00 | Veterinary Parasitology: Animal Import and Travel - a Risk for Animal and Human Health | | | Chairs: Ramon Eichenberger and Diana Gliga |
|------------------|-------------|--|------------------|--|--|
| Room: Aare | | | | | |
| | 14:30-15:00 | Emerging vector-borne diseases: the feline perspective, or is the cat a small dog? | Nikola Pantchev | IDEXX, Kornwestheim, Germany | |
| | 15:00-15:15 | Dog import and the risk of introduction and spreading of <i>Strongyloides stercoralis</i> in Switzerland | Walter Basso | Institute of Parasitology, University of Bern | |
| | 15:15-15:23 | <i>Onchocerca lupi</i> in Portugal – past, present and future | Helder Cortes | Victor Caeiro Laboratory of Parasitology, University of Évora, Évora, Portugal; Institute of Parasitology, University of Bern | |
| | 15:23-15:31 | Does <i>Toxoplasma gondii</i> manipulate the behaviour of European water voles (<i>Arvicola amphibius s.l.</i>)? | Miguel Pardo Gil | Institute of Parasitology, University of Bern; Institute of Parasitology, University of Zurich; SWILD – Urban Ecology and Wildlife Research, Zurich; Naturmuseum Solothurn | |
| | 15:31-15:39 | Assessment of triclabendazole treatment against <i>E. multilocularis</i> | Tobias Kämpfer | Institute of Parasitology, University of Bern | |
| | 15:39-15:47 | <i>Hungry for threonine: metabolomics in Echinococcus multilocularis</i> | Marc Kaethner | Institute of Parasitology, University of Bern | |
| | 15:47-15:55 | <i>In vitro</i> drug screening against <i>Echinococcus multilocularis</i> and <i>E. granulosus</i> | Matías Preza | Institute of Parasitology, University of Bern | |
| | 15:55-16:00 | Q&A with all speakers of the session | All speakers | | |

| SESSION 6: SSTTM Room: Aare 1+2 | | 14:30-15:50 Tropical and Travel Medicine from a Different Perspective | | Chairs: Pietro Antonini and Claudine Kocher |
|------------------------------------|-------------|--|-------------------|--|
| | 14:30-14:45 | Monkeypox – Clinical picture | Stefano Musumeci | HUG, Geneva |
| | 14:45-15:00 | Monkeypox – Vaccination | Jan Fehr | EBPI, Zürich |
| | 15:00-15:20 | Update Tuberculosis | Gunar Günther | Inselspital Bern |
| | 15:20-15:30 | Update Diphtheria | Cornelia Stähelin | Inselspital Bern |
| | 15:30-15:40 | Efficacy and safety of moxidectin compared to ivermectin against <i>Strongyloides stercoralis</i> | Viviane Sprecher | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |
| | 15:40-15:50 | Surveillance of leishmaniasis cases from 15 European centres, 2014 to 2019: a retrospective analysis | Marie-Therese Ruf | Swiss Tropical and Public Health Institute, Allschwil; University of Basel |

| CLOSING SESSION Room: Aare | | 16:10-16:40 Including poster prize | Cornelia Stähelin, Kerry Woods and Britta Lundström-Stadelmann | |
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