

37th Annual Swiss Trypanosomatid Meeting

<http://wp.unil.ch/trypmeeting/>

January 15-17, 2020, Leysin

Location:

Mercure Classic Hôtel
www.classic-hotel.ch
1854 Leysin

Organizers:

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We thank the Universities of Lausanne and Bern for support.

37th Annual Swiss Trypanosomatid Meeting, Programme

Wednesday, 15. January

15.00 WELCOME RECEPTION

16.00 OPENING

Session 1: Chairperson Caroline Dewar

16.05 Nina Papavasiliou, Deutsches Krebsforschungszentrum, Heidelberg
Surface diversification in the host:parasite arms race

17.05 Francisco Aresta Branco
A VSG epitope defined by calcium binding is associated with immunodominance in the host antibody repertoire

17.25 Shubha Bevkal o
Modulation of differentiation by Alba3 in *Trypanosoma brucei*

17.45 Arunasalam Naguleswaran
Analysing the trypanosome transcriptome in its tsetse host during development

18.30 DINNER

Session 2: Chairperson Dmitry Kopelyanskiy

20.00 Barbara Burleigh, Harvard School of Public Health, Boston
Lipid metabolism at the *T. cruzi* – host cell interface

21.00 Anna Fesser
Modelling life and death of intracellular *Trypanosoma cruzi*

21.20 Simona Amodeo o
How does the mitochondrial genome segregation machinery connect to the mitochondrial DNA in *Trypanosoma brucei*?

21.40 Ruth Etzensperger
The sins of the fathers or the virtues of the mothers? A cre-lox system for lineage tracing of trypanosomes undergoing flagellar fusion

Thursday, 16. January

Session 3: Chairperson Thomas Seebeck

- 08.30** **Nicolas Fasel, University of Lausanne**
Leishmania and its viral passengers
- 09.10** **Dmitry Kopelyanskiy** **o**
Don't say "NO" to Leishmania and its viral partner
- 09.30** **Marta Reverte Royo** **o**
The role of NRF2 in Leishmania infection
- 09.50** **Tiia Snäkä** **o**
NLRX1 attenuates inflammation and oxidative stress through control of mitochondrial function
- 10.10** **COFFEE BREAK**

Session 4: Chairperson Simona Amodeo

- 10.40** **Mark Carrington, University of Cambridge**
How do trypanosome receptors for host macromolecules avoid the host immune response?
- 11.40** **Christoph Wenger** **o**
The protein translocase in the inner mitochondrial membrane of *Trypanosoma brucei*
- 12.00** **Corinne von Känel** **o**
Homologue replacement in the import motor of the mitochondrial inner membrane of trypanosomes
- 12.30** **LUNCH**

Session 5: Chairperson Andrew Cowton

- 16.15 Terry K. Smith, The University, St. Andrews**
Exploiting parasites weaknesses in lipid and associated metabolism
- 17.15 Advaita Iyer o**
The endoplasmic reticulum membrane protein complex (EMC): interactome and function in *Trypanosoma brucei*
- 17.35 Sebastian Knüsel**
pH taxis directs collective migration in *Trypanosoma brucei*
- 17.55 Aurelio Jenni o**
GPI anchor biosynthesis in GPI2-deficient cells
- 18.30 DINNER**

20.30 – 22.00 POSTER SESSION

Friday, 17. January

Session 6: Chairperson Shubha Bevkal

- 09.00 Susanne Kramer, University of Würzburg, Würzburg**
The trypanosome's unique way of mRNA decapping
- 10.00 Shikha Shikha o**
Distinct roles of the CCA adding enzyme in the cytosol and mitochondria of *T. brucei*
- 10.20 Rebecca Brogli o**
A tRNA half modulates translation as stress response in *T. brucei*
- 10.40 Christine Clayton**
Roles of MKT complexes and translation initiation factors in gene expression regulation
- 11.00 COFFEE BREAK**
- 11.20 PRIZES AND CLOSURE**

Train departure from Leysin-Versmont at 11:59

POSTERS

1. **Quentin Oliveres**
Role of phosphorylation for amino acids transporter function in *T. brucei*
2. **Tatiana Küster**
What is the function of TIM42 in the protein import complex of *T. brucei*?
3. **Caroline Dewar**
Deciphering mitochondrial quality control in *Trypanosoma brucei*
4. **Moritz Niemann**
Mitoribosomal biogenesis requires an extensive assembly machinery
5. **Paula Alves Fernandes**
Using single cell RNAseq analysis to study *T. brucei* life cycle stages in tsetse flies
6. **Markus Gerber**
The role of MSP1 in *T. brucei* mitochondrial quality control
7. **Bernd Schimanski**
Mitochondrial genome segregation - a complex story
8. **Daniel Abbühl**
Genes required for adaptation and transmission of African Trypanosomes
9. **Jonas Luginbühl**
Investigating the function of Piwi in *Trypanosoma brucei*
10. **Ana Kalichava**
The mitochondrial genome maintenance machinery in *Trypanosoma brucei*: characterization and visualization of novel components.
11. **Irina Bregy**
On the tracks of the TAC: cryo electron tomography of the basal body kDNA region in *Trypanosoma brucei*
12. **Andrew Cowton**
Characterisation of GPI13 and GPI14 as potential M5-DLO scramblase proteins
13. **Anastasia Gkeka**
VSG mosaics: when the color of your shoes determines the shape of your hat
14. **Alexander Haindrich**
Characterization of proline transporters in *Trypanosoma brucei*
15. **Joseph Verdi**
Towards understanding the structural architecture of native trypanosome surface coats

16. **Sandhya Radha Krishnan**
Phyloactivity-based screening of ethnomedically inspired plant extract libraries against *Trypanosoma cruzi* and Chagas disease
17. **Anna Albisetti**
Kinesin KIN-E plays a role in FAZ assembly in bloodstream form *T. brucei*
18. **Alessio Loffreda**
CLDP43, a novel cardiolipin synthase-dependent protein affecting cardiolipin synthesis and mitochondrial integrity in *T. brucei*
19. **Berta Pozzi**
Exploring the mechanisms of transcription and export in *T. brucei*