

## WEDNESDAY, MARCH 18<sup>th</sup>

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|-------------|--|
| 06:45       | Departure from CMU                         |
| 09:30-10:25 | Registration + Welcome coffee              |
| 10:25-10:30 | Opening remarks ( <i>Chaired by Amke</i> ) |

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### KEYNOTE I (*chaired by Klara and Amke*)

|             |   |
|-------------|---|
| 10:30-11:10 | Dr. Mathilda Fatton, University of Bern, Bern<br>“Is there extraterrestrial life?: Validate spectropolarimetry for the remote detection of homochirality associated to life beyond Earth” |
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### SESSION 1 (11:10-12:00)

(*Chaired by Klara and Amke*)

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|                           |   |
|---------------------------|---|
| 11:10-11:30               | <b>Corentin Montessuit (CHIRU)</b><br>Using Veno-arterial extracorporeal membrane oxygenation VA-ECMO to assess physiological parameters: An in vitro in silico study |
| 11:30-11:35 <i>flash</i>  | <b>Margulan Otanuly (NEUCLI)</b><br>Development of stem cell-based gene therapy to treat neuroretinal degeneration  |
| 11:35 -11:55              | <b>Crisalida Borges (PHYM)</b><br>Breaking the Rules: Spindle Assembly and Chromosome Segregation in the Absence of Centrosomes                                       |
| 11:55 -12:00 <i>flash</i> | <b>Ji Wang (GEDEV)</b><br>Ab initio transposable element annotation with pre-trained genomic language models  |

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LUNCH + Hotel check in (12:00-14:00)

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### KEYNOTE II (*chaired by Nylsa and Basel*)

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|-------------|--|
| 14:00-14:40 | Prof. Dr. Eva Ringler, University of Bern, Bern<br>“What amphibians can teach us about the evolution of parental care” |
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### SESSION 2 (14:40-16:10)

(*Chaired by Nylsa and Basel*)

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|                          |  |
|--------------------------|--|
| 14:40-14:45 <i>flash</i> | <b>Daniel Reichenpfader (GESAN-EXT)</b><br>Semantic enrichment of large language models to improve natural language processing tasks on clinical documentation |
| 14:45-15:05              | <b>Annet Puthenpurackal (MIMOL)</b><br>Cryptosporidium secreted proteins form a complex layered interface with the host cell                                   |
| 15:05-15:10 <i>flash</i> | <b>Ornella Chardonnet (MOCELL)</b><br>Mapping of holocentromere and kinetochore formation in <i>Caenorhabditis Elegans</i> using DamID                         |

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**COFFEE BREAK (15:10-15:30)**

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|                                 |   |
|---------------------------------|---|
| <b>15:30-15:50</b>              | <b>Leonardo Marconi (GENEV)</b><br>Establishment of transcriptional programs underlying olfactory sensory neuron identities |
| <b>15:50-15:55 <i>flash</i></b> | <b>Maxim Marfin (PATIM)</b><br>zeb2a and Hematopoietic Stem Cells expansion during embryogenesis                            |

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**16:15-17:30**      **TEAM BUILDING ACTIVITY**  
*Big conference room*

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**18:00-19:30**      **POSTER SESSION 1 (Groups A & B) + APERO!**  
*Big conference room*

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**19:30**              **DINNER**

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**21:00-22:30**      **PUB QUIZ**

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## THURSDAY, MARCH 19<sup>th</sup>

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**7:00-9:00**              Breakfast

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**KEYNOTE III (chaired by Arjun and Sheba)**

**9:00-9:40**              **Prof. Dr. Andrew Charles Oates**, EPFL, Lausanne  
“clocks and timers in developmental biology”

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**SESSION 3 (9:40-12:30)**  
*(Chaired by Arjun and Sheba)*

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|                                 |   |
|---------------------------------|---|
| <b>9:40-10:00</b>               | <b>Petros Liakopoulos (DEMED)</b><br>Spatial omic markers in melanoma immunotherapy response                        |
| <b>10:00-10:20</b>              | <b>Loris Levet (PHYM)</b><br>Acute modulation of VMA21 leads to skeletal muscle degeneration                        |
| <b>10:20-10:25 <i>flash</i></b> | <b>Saurabh Mathur (MOCELL)</b><br>Artificial Intelligence Augmented Light Microscopy                                |
| <b>10:25-10:45</b>              | <b>Souradip Mukherjee (MOCELL)</b><br>In situ cryo-electron tomography reveals ciliary transition zone architecture |

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**COFFEE BREAK (10:45-11:00)**

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|                                 |   |
|---------------------------------|---|
| <b>11:00-11:20</b>              | <b>Flaela Kalemi (PHARM)</b><br>Calibration of effective temperatures in a commercial quadrupole ion trap and characterization of new thermometer ions. |
| <b>11:20-11:25 <i>flash</i></b> | <b>Junyi Yang (GENEV)</b><br>Epigenomic Reprogramming of Honeybee Social Behaviors by the Gut Microbiota  |
| <b>11:25-11:45</b>              | <b>Jérémy Kessler (PHYM)</b><br>New aspects of TGF $\beta$ signaling in muscle regeneration   |

**11:45-12:05**                    **Fandilla-Marie Furlan (GENEV)**  
Formyl peptide receptors and sick conspecific avoidance

**12:05-12:10 flash**            **Paola Isabel Aguirre de la Cruz (BIVEG)**  
Exploring the role of endospermic MYB transcription factors in promoting seedling development

**12:10-12:30**                    **Rossana Putino (GEDE)**  
Dissecting Temporal Enhancer Dynamics in Mouse Limb Development

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**LUNCH (12:30-14:00)**

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**KEYNOTE IV (chaired by Mathias and Amke)**

**14:00-14:40**                    **Prof. Dr. Micheal Hall, University of Basel, Basel**  
“mTOR signaling in growth, metabolism and disease”

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**SESSION 4 (14:40-16:15)**

*(Chaired by Mathias and Amke)*

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**14:40-14:45 flash**            **Sandra Moreno Sanchez (MIMOL)**  
Characterization of Cryptosporidium pellicle and associated transporters during replication

**14:45-15:05**                    **Tanner Smith (MOHANI)**  
Spatial correlates of human-wildlife conflict are shared but influence varies by context: A meta-analytical approach

**15:05-15:10 flash**            **Alana Vannay (PHYM)**  
Understanding the protective effects of carbon monoxide against metabolic dysfunctions

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**COFFEE BREAK (15:10-15:25)**

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**15:25-15:45**                    **Oriane Foussadier (BIOCHEM)**  
Collagen and osteoblast tissue organization in zebrafish scale bone regeneration

**15:45-15:50 flash**            **Alakananda Parassini Madappura (CHIRU)**  
Microengineering of Nerve Guidance Conduit for Regulating the Nerve Tissue Regeneration

**15:50-16:10**                    **Coline Coudeville (GENEV)**  
Erk activity waves modulate their own inhibitors and bone maturation genes transcriptionally in zebrafish scale regeneration.

**16:10-16:15 flash**            **María Palomero Gómez (BIVEG)**  
Identification and molecular characterization of novel inositol pyrophosphate signaling components in plants

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**16:30-18:00**                    **POSTER SESSION 2 (Groups C & D) + APERO!**  
*Big conference room*

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**FREE TIME (18:00-19:30)**

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**19:30**                                **DINNER**

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**21:00-2:00**                    **THEME PARTY – ‘Dress For The Wrong Event’**

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## FRIDAY, MARCH 20<sup>th</sup>

7:00-10:30 Breakfast + Check out

### WORKSHOPS (10:30-12:00)

«Markus-Brügger»

Seminar room

Peer Reviewing – Markus Geisler

Main Conference

Room

Jobs Beyond Academia – Tamara El Hossny

«Spitzfluh»

Seminar room

AI in Academic Writing – Sara Cotelli

### LUNCH (12:00-13:30)

### CAREER PANEL (13:00-15:00)

(Chaired by Klara and Basel)

Science Comm/Project Management - Dr. Thomas Häusler

Industry and Academia - Dr. Cristina Colomer Winter

Academia - Dr. Monika Gjorgjieva Ducros

Museum Director - Dr. Nicolas Karmar

Pharma Industry/Former Start-up - Dr. Falk Saupe

### Coffee Break (15:00-15:30)

### PRIZE CEREMONY (15:30-16:30) (Chaired by Mathias, Arjun, and Nylsa)

17:00 Departure to Geneva

20:30 Arrival to CMU

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## **POSTER SESSION DAY 1**

### **GROUP A**

1. Oliwia Majchrzak
2. Michaela Dujava Ždímalová
3. Anna Borich
4. Elif Sena Temirci
5. Mathilde Bourdin
6. Nishaant Kumar Palani Balaji
7. Diego Michel
8. Constant Tellinga
9. Simon Beaufile
10. Lorenzo Pepe
11. Oana-Ana-Maria Mardare
12. Matteo Arrighi
13. Raphaël YVON
14. Zahra Jouini
15. Joana Pereira Couto
16. Szilamér Gyula Koszti

### **GROUP B**

17. Polina Drugachenok
18. Janaína Tenorio Novais
19. Sofiene Alan Dhiab
20. Colombe Fort-Mabboux
21. Yalda Yaghooti
22. Aybüke ARSLAN
23. Nicolas Baez
24. Clara Luise Gleissner
25. Gaëtan LOPEZ
26. Gonçalo Rosa Fernandes
27. Kassandra Roemer
28. Mohit Mohit
29. Biljana Riemelmoser
30. Michèle Knol
31. Nandeesh Sharma

## **POSTER SESSION DAY 2**

### **GROUP C**

1. Matija Trickovic
2. Gregorio Calderoni
3. Mengjie Ma
4. Elisa Burri
5. Sihem Sellami
6. Raphaël Feser
7. Manya Yu
8. Damir Berbic
9. Gabija Sileikaite
10. Seorim Park
11. Eléonore PARISEL
12. Bagyashree VT
13. Yuqiu Zhou
14. Konstantinos Andreadis
15. Thomas Krähenbühl

### **GROUP D**

16. Karolina Sobiech
17. Julien Massonnet
18. Patricia Lopez Naveira
19. Sylvain Guex-Crosier
20. Ishani Sharma
21. Sacha Jacobs
22. Stefano Delamotte
23. Julie Righi
24. Wei Liu
25. Gurmail Singh
26. Celeste Aurora Fiorenza
27. Tori Schummer
28. Chiara Mazioux
29. Yasmina Merzouk
30. Helia Hakimelahi