Geneva chemistry & biochemistry days

TH 14 January 2021, 09:00-16:20 FR 15 January 2021, 09:00-11:50 LIVE STREAMING VIRTUAL EVENT https://bit.ly/2KTSpEU No registration required

Prof. Yves Barral Eidgenössische Technische Hochschule Zürich

Prof. Jonathan Clayden
University of Bristol

Dr Ivano Tavernelli IBM Research Zürich

Prof. Oliver Wenger Universität Basel

Junior Speakers:

🔹 Jafar Afshani Aghajari 🔸 Mireia Andreu-Carbó 🔹 Ryo Asakura 🔸

Ewa Banach
 Lluc Farrera Soler
 Michele Garbo
 Daniel Hummel

Pitchnaree Kraikaew
 Canwei Mao
 Rémi Martinent
 Manon Mottet
 Johann Nuck
 Pavol Ondrisek
 Rémi Patouret
 Anh-Tuan Pham
 Niccolo Ricardi
 Yanan Wang





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FOREWORD

The Section de chimie et biochimie, University of Geneva, has the pleasure to announce the 11th edition of its "Geneva Chemistry & Biochemistry Days". Due to the sanitary situation, the event will be held at distance, via the Zoom interface (https://unige.zoom.us/j/92682442652 + code GCBD2021 or directly https://bit.ly/2KTSpEU; see tips on page iii), but we are convinced that the spirit of the event will not be impaired by this mishap.

The vocation of the event is to give our students who are close to finishing their PhD studies the opportunity to present their research as attractive speed talks to an audience from academia and industry, and the steering committee is glad to welcome you in this context.

Four distinguished lecturers further enrich the programme. Our four departments have invited them, and they will illustrate the extent and the quality of top-level fundamental research in chemistry and biochemistry today.

Our BSc and MSc students are welcome to smell the very flavour of the research held in our School and abroad, and to learn a bit more about how to present punchy results to a scientific audience.

We expect that the event will catalyse fruitful discussions between young and advanced researchers, and give our students an opportunity to get ready for their professional career, yet offering our guests an overview of the quality of the fundamental research performed in our School.

Looking forward to welcoming you at this event, we hope that you will enjoy the lectures and interactions!

Prof. Thomas Bürgi

Président de la Section de chimie et biochimie

Steering and organising committee

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Responsable communication – Section de chimie et biochimie



PROGRAMME – THURSDAY, 14 JANUARY https://bit.ly/2KTSpEU

Chair: Prof. Karsten Kruse (Senior Speaker) **Dr Huayan Yang** (Junior Speakers)

09:00- -09:05	Prof. Thomas Bürgi	Welcome message
09:05- -09:55	Prof. Yves Barral Eidgenössische Technische Hochschule Zürich	Ageing: Insights from a good old fungal friend
09:55- -10:10	Lluc Farrera Soler	Immunological epitope mapping of the SARS-CoV-2 spike protein
10:10- -10:25	Jafar Afshani Aghajari	Synthesis and luminescence properties of strontium aluminate nanospheres as long persistent phosphors
10:25- -10:40	Mireia Andreu-Carbó	Walking kinesins stabilize their microtubule tracks along the shaft
10:40- -11:00	Break	2 Discussion Rooms available from within the main Conference Room
11:00- -11:15	Michele Garbo	Access to optically active 7-membered rings by a 2-step catalytic sequence
11:15- -11:30	Ewa Banach	Photoswitchable Au ₂₅ nanocluster assemblies
11:30- -11:45	Canwei Mao	Separating boundary potential changes at thin solid contact ion transfer voltammetric membrane electrodes
11:45- -12:00	Rémi Martinent	Oligomers of cyclic oligochalcogenides for enhanced cellular uptake
12:00- -13:30	Lunch break	2 Discussion Rooms available from within the main Conference Room

Chair: Prof. Stefan Matile (Senior Speaker) Dr Xx XXX (Junior Speakers)

ער אא אא	(Junior Speakers)	
13:30- Johann N -13:45	luck	Polydiacetylene-peptide interaction mechanism in mixed lipid systems
13:45- Daniel H -14:00	ummel	SH3 domains regulate spatio-temporal assembly of actin nucleation promoting factors in endocytosis
14:00- Pavol Or -14:15	drisek	Modular synthesis of substituted cationic phenyl- and dicationic pyridinium- [4]helicenes
14:15- Niccolo I -14:30	Ricardi	Frozen Density Embedding Theory: What densities can one use? What errors can one expect?
14:30- Break -14:45		2 Discussion Rooms available from within the main Conference Room
14:45- Pitchnar -15:00	ee Kraikaew	Ultra-sensitive pH measurements with a coulometric principle
15:00- Rémi Pa t	ouret	Total synthesis of goyazensolide and identification of the first importin-5 inhibitor
15:15- Yanan W -15:30	ang ang	Amplification of enantiomeric excess by dynamic inversion of enantiomers in deracemization of Au ₃₈ clusters
15:30- Prof. Jon -16:20 University	athan Clayden of Bristol	Exploiting molecular conformation for biomimetic function and reactivity
16:20- Evening bro	eak	2 Discussion Rooms available from within the main Conference Room

Section de chimie et biochimie



PROGRAMME – FRIDAY, 15 JANUARY https://bit.ly/2KTSpEU

Chair: **Prof. Claude Piguet** (Senior Speaker) **Dr Elena Zdrachek** (Junior Speakers) **Prof. Tomasz Wesolowski** (Senior Speaker)

09:00- Prof. Oliver V -09:50 Universität Base		Photoactive coordination compounds based on Earthabundant metals
09:50- Manon Mott -10:05	et	Single cell analysis unravels a perturbation of the cell cycle of the host <i>D. discoideum</i> during infection by <i>M. marinum</i>
10:05- Anh-Tuan Ph -10:20	nam	Peptide stapling with Anion- π Catalysts
10:20- Break -10:35		2 Discussion Rooms available from within the main Conference Room
10:35- -10:50 Ryo Asakura		4 V room-temperature all-solid-state sodium battery enabled by a passivating cathode/electrolyte interface
10:50- Dr Ivano Tav -11:40 IBM Research Z		Quantum computing and its applications in chemistry and physics
11:40- -11:45 Prof. Stefan	Matile	Awards for the best oral Junior presentations
11:45- Prof. Thoma : -11:50	s Bürgi	Concluding remark

TIPS FOR A SMOOTH ZOOM EXPERIENCE

The event will be held at distance, via the Zoom interface. During the whole event, the main Conference Room will be https://bit.ly/2KTSpEU

From the main Conference Room, two parallel Discussion Rooms will be available; these Discussion Rooms can be accessed anytime during the event.

On Wednesday, 13 January, from 8:30 to 17:30, Junior Speakers and Senior Speakers are invited to **test connexion and screen sharing capabilities** in the conference room with the event administrator; please feel free to join!

On Thursday, 14 January, and Friday, 15 January, the Conference Room and the parallel Discussion Rooms will be open to the public from 8:30 to 17:30 (Thursday) and from 8:30 to 13:00 (Friday). Participants are invited to create additional parallel Discussion Rooms for their private use.

You can enter the Conference Room or the Discussion Rooms directly via your browser, but the quality of the broadcast may be limited under certain circumstances; for a better experience, it is recommended to download the autonomous Zoom engine via the Zoom Download Centre at https://zoom.us/download.

To guarantee a clear voice connexion, it is advised to use an external microphone or headset (e.g. USB-connected) instead of the built-in microphone/speaker mounted in your computer.

When reaching the Conference Room as a participant, please make sure that your microphone is switched to OFF. If you have a slow- or medium-speed connexion, you can increase the bandwidth by switching your camera to OFF.

The chairwomen, chairmen, and speakers will be granted administrator rights, to take over the screen-sharing option of Zoom at the beginning of their talk.

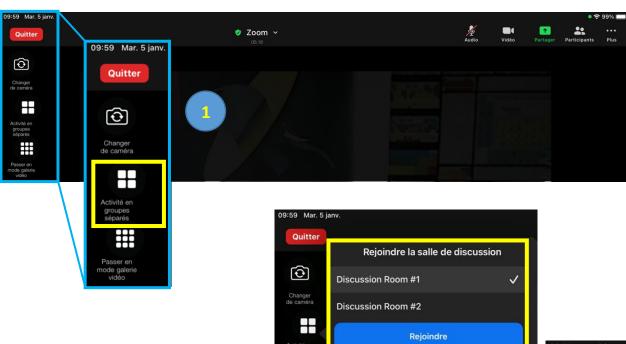


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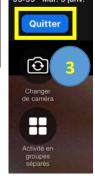
To join a parallel Discussion Room and then come back to the main Conference Room, proceed as follows (example below is on an iPad-based Zoom session, in French; the views may differ depending on the computer used):

1) Select the bloc of Activities in separate groups:



- 2) Select the required Discussion Room and click on Join:
- 3) When finished, select Quit to join back the main Conference Room:
- 4) Select Quit the Discussion Room (but not Quit the Meeting, which would kick you out of the main Conference Room!); you will be automatically brought back to the main Conference Room:





DIRECT ZOOM LINK TO THE CONFERENCE ROOM

https://bit.ly/2KTSpEU or scan the QR code

