

Geneva chemistry & biochemistry days 2023

TH 12 January 2023, 09:00–18:00

FR 13 January 2023, 09:00–12:00

Sciences II – auditorium A150

No registration required

Dr Loïc Charbonnière

CNRS & Université de Strasbourg

Prof. Olga García Mancheño

Universität Münster

Prof. Albrecht Ott

Universität des Saarlandes

Prof. Markus Seeger

Universität Zürich

Junior Speakers:

- Meropi Bagka • Anne-Laure Boinet • Cécile Cadoux •
- Maria Fernanda Cifuentes Girard • Polyxeni Damala •
- Neel Deorukhkar • Simao Fernandes Ribeiro Da Silva •
- Tara Forrest • Mingxue Fu • Ina Fureraj • Takehiro Kato •
- Rebecca Mucci • Soroush Naseri • Guillaume Pernollet •
- Philippe-Alexandre Poisson • Elias Polak • Simone Scaringi •
- Inès Taarit • Júlia Viñas Lóbez • Victoria Von Glasenapp •
- Jiangtao Zhao •

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FACULTÉ DES SCIENCES
SECTION DE CHIMIE ET BIOCHIMIE



UNIVERSITÉ
DE GENÈVE

**SESSION 1 – THURSDAY, 12 JANUARY, MORNING**

Chair: **Dr Alexandre Fürstenberg** (for Senior Speaker)
Dr Amina Benchohra (for Junior Speakers)

09:00-09:05	Prof. Éric Bakker	Welcome message
09:05-09:50	Dr Loïc Charbonnière CNRS & Université de Strasbourg	Molecular upconversion
09:50-10:05	Inès Taarit	Excited state absorption and energy transfer upconversion in Er ³⁺ complexes
10:05-10:20	Philippe-Alexandre Poisson	Nickel catalyzed vinylation of enol phosphates: A comparative mechanistic study
10:20-10:40	Coffee break	Main hall, Sciences III
10:40-10:55	Tara Forrest	Taking advantage of “click” chemistry for increased stability in potentiometric sensing
10:55-11:10	Simone Scaringi	Assisted tandem Pd catalysis enables regiodivergent Heck arylation of transiently-generated substituted enol ethers
11:10-11:25	Simao Fernandes Ribeiro Da Silva	Exploring the function of microtubule post-translational modifications by semi-synthetic tubulin
11:25-11:40	Maria Fernanda Cifuentes Girard	Liquid Chromatography and vacuum Differential Mobility Spectrometry-Mass Spectrometry for metabolites analysis
11:40-11:55	Takehiro Kato	Cyclic thiosulfonates for thiol-mediated uptake: Cascade exchangers, transporters, inhibitors
11:55-12:10	Neel Deorukhkar	Digging deep: The effect of flipping a ligand on the SCO of octahedral Fe(II) complexes
12:10-12:20	Group picture	Senior Speakers, Junior Speakers, Chairpersons and School's authorities
12:20-13:45	Lunch break	Senior Speakers and Junior Speakers share their lunch at the <i>Pizzeria Sole Mio</i> , 43 boulevard Carl-Vogt

SESSION 2 – THURSDAY, 12 JANUARY, AFTERNOON

Chair: **Prof. Enrica Bordignon** (for Senior Speaker #1)
Dr Dimitris Basagiannis (for Junior Speakers)
Prof. Stefan Matile (for Senior Speaker #2)

13:45-14:30	Prof. Markus Seeger Universität Zürich	Exploring the conformational space of membrane proteins using sybodies and nanobodies
14:30-14:45	Victoria von Glasenapp	Controlling the activity of the mitotic kinase Plk1 with light
14:45-15:00	Guillaume Pernollet	Quantifying the impact of mechanical and geometrical stress on epithelial tissue organisation
15:00-15:15	Meropi Bagka	PROTACs as a target deconvolution tool of Hedgehog Pathway Inhibitor 1
15:15-15:35	Coffee break	Main hall, Sciences III

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15:35- -15:50	Rebecca Mucci	Amide-linked cationic [4]helicenes: Synthesis and properties
15:50- -16:05	Ina Fureraj	Studying structural changes using ultrafast broadband spectroscopy
16:05- -16:20	Cécile Cadoux	Cooperativity in biological nitrogen fixation
16:20- -17:05	Prof. Olga García Mancheño Universität Münster	New venues in supramolecular anion-binding catalysis: From the design to synthetic applications
17:05- -18:00	Get-together aperitif	Main hall, Sciences III
19:30-	VIP dinner	Senior Speakers, Chairwomen/men, and School's authorities at the <i>Cantine des Commerçants</i> , 29 boulevard Carl-Vogt

SESSION 3 – FRIDAY, 13 JANUARY, MORNINGChair: **Prof. Karsten Kruse** (for Senior Speaker)**Dr Nidal Saleh** (for Junior Speakers)**Prof. Charlotte Aumeier** (for Awards)

09:00- -09:05	Prof. Éric Bakker	Welcome message
09:05- -09:20	Soroush Naseri	Rigidifying bis(benzimidazole) pyridine scaffolds: The key to improve stability in linear lanthanidopolymers
09:20- -09:35	Jiangtao Zhao	Metal complexes-grafted Au ₂₅ nanoclusters for efficient (photocoupled) electrocatalytic CO ₂ → CO reduction
09:35- -09:50	Anne-Laure Boinet	Using live fluorescent microscopy to elucidate the dynamics of clathrin coat assembly in yeast
09:50- -10:05	Polyxeni Damala	Symmetric solid-contact electrodes for potentiometric sensing
10:05- -10:25	Coffee break	Main hall, Sciences III
10:25- -10:40	Elias Polak	Tackling the charge leak problem in subsystem Density Functional Theory
10:40- -10:55	Mingxue Fu	How to include the excitation-induced polarization from the environment in Frozen Density Embedding Theory
10:55- -11:10	Júlia Viñas Lóbez	Synthesis of complex <i>trans</i> -fused bicycles <i>via</i> photoredox catalyzed cyclization of malonate enol ethers
11:10- -11:55	Prof. Albrecht Ott Universität des Saarlandes	Strong role of cooperativity in molecular recognition and epigenetics as revealed in an <i>E.coli</i> derived cell free expression system
11:55- -12:00	Prof. Charlotte Aumeier	Awards for the best oral Junior presentations
12:00- -12:05	Prof. Éric Bakker	Concluding remark