

# 16th Winter Conference on Medicinal & Bioorganic Chemistry

January 29th - February 2nd 2023  
Steamboat Springs Resort, Colorado

Organised in collaboration with:



## Provisional Program



### Sunday 29<sup>th</sup> January 2023

- 1.00 – 5.00pm**      **Registration**
- 4.00 – 5.00**      **Welcome Coffee and Cookies**
- 5.00**      **Welcome and Opening Remarks – Philippe Nantermet, Conference Chair**
- Welcome to the 2023 MBCF Scholars – Maria Chiriac, Member of the Board**

- 5.20 – 7.40 pm**      **Drug Hunting**  
Chair: *Klemens Hoegenauer, Novartis*

**Kentaro Futatsugi**, Pfizer  
*Discovery of DGAT2 Inhibitors for the Treatment of NASH*

**Woody Sherman**, Psivant Therapeutics  
*Is it Time for Computation-driven Drug Design? The Discovery of a Small Molecule STING Agonist using the QUAISAR Computational Platform*

**Jason Shields**, AstraZeneca  
*Medicinal Chemistry with the Fifth Element: Discovery of Arginase Inhibitor AZD0011*

**Drug Hunter Award Introduction and Prize**  
Chairs: *Philippe Nantermet and Matthew Hayward*

**Ian M. Bell**, Merck (**Drug Hunter Award**)  
*CGRP Receptor Antagonists for the Treatment of Migraine*

- 7.40 – 10.00 pm**      **Welcome Networking Reception in the Exhibition Area**

## Monday 30th January 2023

**7.00 – 8.00 am**      **Good Morning Buffet Breakfast**

**8.00 - 11.00 am**      **Enabling Methodology and Technology**

Chair: Iulia Strambeanu, Janssen

**David Leitch**, University of Victoria

*Mapping Chemical Space via High-throughput Experimentation: New Tools, New Reactions, and New Bicyclic Scaffolds*

**Song Lin**, Cornell

*New Strategies for Redox Catalysis*

**Amanda Dombrowski**, AbbVie

*Enabling and Accelerating Drug Discovery with High Throughput Chemistry*

**Victoria Hélan**, AstraZeneca

*Towards Picomole Library Synthesis and Analysis using Acoustic Technologies*

**Kohki Nakafuku**, Janssen

*Discovery of Small Molecule Inhibitors Using a Modern Screening Paradigm and High Throughput Chemistry*

**4.00 - 5.00 pm**      **Back from the Slopes – Coffee and Cookie Break**

**5.00 – 8.00 pm**      **Antivirals and Pandemic Diseases, Past, Present and Future**

Chair: John McCauley, Merck

**Jamie Tuttle**, Pfizer

*Discovery and Development of Nirmatrelvir*

**Patrick Fier**, Merck

*Developing Large-Scale Syntheses of Molnupiravir, an Antiviral for COVID-19*

**Phil Sanderson**, NIH

*The Antiviral Program for Pandemics at NCATS-NIH*

**Uwe Schoenbeck**, Pfizer Inc.

*Expanding the potential of RNA beyond Covid-19*

## Tuesday 31<sup>st</sup> January 2023

**7.00 – 8.00 am      Good Morning Buffet Breakfast**

**8.00 – 11.00 am      SynthChemBio**  
Chair: *Niyi Fadeyi, InduPro*

**Christopher am Ende**, Pfizer Inc.  
*Advancing Chemical Biology through Innovative Synthesis*

**Emma Grant**, GlaxoSmithKline  
*Reactive Fragments in Covalent Drug Discovery*

**Rob Oslund**, InduPro Therapeutics  
*Redox Activation Strategies to Profile Biological Systems*

**Francisco Garcia**, Novartis Institute for Biomedical Research  
*Enhancing the Scope of Ligandability with Diverse Electrophiles*

**4.00 - 5.00 pm      Back from the Slopes – Coffee and Cookie Break**

**5.00 – 6.40 pm      General Session: Synthesis and Med Chem**  
Chair: *Amy Dounay, Colorado College*

**Speaker Selected from Abstracts**, Affiliation  
*Title to be confirmed*

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*Title to be confirmed*

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*Title to be confirmed*

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*Title to be confirmed*

**Speaker Selected from Abstracts**, Affiliation  
*Title to be confirmed*

**6.40 – 8.00 pm      Networking Session**  
**Drinks & Poster Session**

## Wednesday 1<sup>st</sup> February 2023

**7.00 – 8.00 am      Good Morning Buffet Breakfast**

**8.00 – 11.00 am    **Beyond Ro5 and Novel Modalities****  
Chair: *Lou Chupak, Bristol-Myers Squibb*

**Dave Degoey**, AbbVie  
*Discovery of bRo5 Drugs: Lessons from the Past and Progress toward Better Prediction of Oral Absorption*

**Yanke Liang**, C4 Therapeutics  
*The Discovery and Characterization of CFT-18442: A Potent, Selective, and Orally Bioavailable Degradar of BRAF V600E*

**Geoffray Leriche**, Plexium  
*Rational Discovery of BRD4 Monovalent Protein-Degraders*

**Patrizio Mattei**, F. Hoffmann-La Roche Ltd  
*Discovery of RG6006, a Tethered Macrocyclic Peptide Targeting Acinetobacter baumannii*

**John O. Link**, Gilead Sciences  
*The Discovery and Development of Lenacapavir (GS-6207): a Twice-Yearly Injectable or Orally Dosed First-in-Class HIV Capsid Inhibitor*

**4.00 - 5.00 pm      Back from the Slopes – Coffee and Cookie Break**

**5.00 – 8.00 pm      **MacMillan Alumni Session: Topics in Medicinal and Synthetic Chemistry****  
Chair: *Michael VanHeyest, GSK*

**Raphaelle Berger**, Merck  
*Discovery of MK-6158 an oral, once daily, Soluble Guanylate Cyclase (sGC) Stimulator for the treatment of Pulmonary Arterial Hypertension*

**Andrew Capacci**, Biogen  
*The Development of Asymmetric Organocatalysis and Metallaphotoredox*

**Vy Dong**, UCI  
*Choose Your Own Adventure in Metal-Hydride Catalysis*

**Robert M. Williams' Memorial KEYNOTE LECTURE**  
Program Chair: **Mike VanHeyest, GSK**

**2021 Nobel Laureate David W.C. MacMillan Princeton University**  
*The Development of Asymmetric Organocatalysis and Metallaphotoredox*

## Thursday 2<sup>nd</sup> February 2023

**7.00 – 8.00 am**      **Good Morning buffet breakfast**

**8.00 – 11.00 am**    **Late Breaking Stories and 1st Disclosures**

Chair: *Rebecca Gallego, Pfizer Inc.*

**Rob Kania**, Kinnate

*The Discovery of KIN-2787, A Solution to the Challenges of Pan-RAF Kinase Inhibition*

**Manuel de Lera Ruiz**, Merck

*Potent Dual Plasmepsin IX/X Inhibitors towards the Treatment of Malaria*

**Nicolas Soldermann**, Novartis

*Conquest of a PPI Everest: Disrupting the YAP/TEAD Interface with Small Molecules*

**Lou Chupak**, Bristol-Meyers Squibb

*Phenotypic Discovery and Optimization of Potent T-Cell Modulators: Dual Inhibition of Diacylglycerol Kinases  $\alpha$  and  $\zeta$*

**5.00 pm**                      **Top of the Gondola**

**Networking Session**

**Pre-Dinner Drinks**

**Conference Dinner**

**Conference Closes**