

The 9th Annual Conference of the International Chemical Biology Society



ICBS2020 VIRTUAL

Register at:

November 11-13, 2020



Addressing Therapeutic Challenges Together with Chemical Biology

chemical-biology.org

Keynote Speakers



Dr. Zijian Guo
Nanjing University,
China

“Chemical Biology
of Platinum-based
Anticancer Agents”



Dr. Mikiko Sodeoka
Riken, Japan

“Potential of Raman
Spectroscopy in
Chemical Biology Research”



Dr. James Bradner
Novartis, USA

“Chemical Biology
& Therapeutics”



Dr. Alanna Schepartz
University of California,
Berkeley, USA

“Novel molecules
from a repurposed
translation machine”



Dr. Stuart Schreiber
Harvard University,
USA

“30 years of Molecular Glues:
Controlling cell circuitry in
biology and medicine”



Dr. Herbert Waldmann
Max Planck Institute of
Molecular Physiology, Germany

“Pseudo Natural Products -
Chemical Evolution of
Natural Product Structure”

Session 1: In-cell Chemistry



Dr. Keriann Backus

Alexander and Renee Kolin Term Chair,
Assistant Professor, Biological Chemistry,
Chemistry, & Biochemistry UCLA

“Chemical Biology & Therapeutics”

8:30-8:50 PM, Nov 11, 2020 (US EST)



Dr. Gonçalo J. L. Bernardes

Reader in Chemical Biology
Department of Chemistry, University of Cambridge, UK
Instituto de Medicina Molecular, Lisbon, Portugal

“Bioorthogonal decaging chemistry
in cells and animals”

8:50-9:10 PM, Nov 11, 2020 (US EST)



Dr. Justin M. Chalker

Associate Professor
Flinders University, Adelaide, Australia

“The chemical biology of cysteine oxidation”

9:10-9:30 PM, Nov 11, 2020 (US EST)

Sessions and Chairs

- **Session 1:** In-cell Chemistry (Gonçalo Bernardes, University of Cambridge, UK & Keriann Backus, UCLA, USA)
- **Session 2:** COVID-19, Disease Modeling, and Drug Discovery (Shuibing Chen, Cornell University, USA)
- **Session 3:** Academic-Industry Partnerships case studies (Douglas S. Auld, Novartis, USA & Sherry Niessen, Pfizer, USA)
- **Session 4:** Chemical Biology of Small Molecule Protein Degraders (Andrew Zhang, AstraZeneca, USA)
- **Session 5:** Chemical Technologies to Promote Drug Discovery (Huw Davies & Monika Raj, Emory University, USA)
- **Session 6:** Rising Stars Session: ICBS Young Chemical Biologist Awardees
- ICBS Trainees Research Forum

Supported by:



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ICBS2020 Virtual Host: Biological Discovery through Chemical Innovation Initiative (BDICI), Emory University

ICBS2020/2021 Local Organizing Committee: Huw Davies, Haiyan Fu, Dennis Liotta, Jae Won Chang, Yuhong Du, M.G. Finn, Jen Heemstra, Shafiq Khan, Kojo Mensa-Wilmot, Eddie Morgan, Binghe Wang, Daqing Wu, Bill Wuest, Y George Zheng

CBS2020 Virtual Operation team: Tiffany R. Bell-Horwath, Andrey A. Ivanov, Rio Febrian,

Rachel Commander, Kun Qian

ICBS2020 Program Committee

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Molecular Physiology, Germany

“Pseudo Natural Products -
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Natural Product Structure”

Session 2: COVID-19, Disease Modeling, and Drug Discovery

Dr. Shuibing Chen

Kilt Family Associate Professor,
Weill Cornell Medicine
“Repurposing FDA-Approved Drugs for
COVID-19”

9:30-9:45 PM, Nov 11, 2020 (US EST)

Dr. Nigel H. Greig

Chief of the Drug Design &
Development Section at NIA
“Developing agents to mitigate the
systemic and neurological
inflammatory component of COVID-19”

9:45-10:00 PM, Nov 11, 2020 (US EST)

Dr. Gabsang Lee

Associate Professor, Johns Hopkins University SOM
“Optogenetic alpha-synuclein aggregation
system-based compound screening platform in
PD hiPSC-derived mDA neurons”

10:00-10:15 PM, Nov 11, 2020 (US EST)

Dr. Zhexing Wen

Assistant Professor, Emory University SOM
“Modeling viral infection and screening
therapeutic compounds with human
iPSC-derived neural cells and brain organoids”

10:15-10:30 PM, Nov 11, 2020 (US EST)

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