# **Scientific Program**

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End of the Day

20:00

11:00	Registration
13:00	Welcome Address by NMCS NYC Co-Chairs
13:00	
	Dr Amjad ALI (MERCK & CO. INC., Kenilworth, United States) Prof. Robert DEVITA (ICAHN SCHOOL OF MEDICINE AT MT. SINAI, New York, NY, United States)
13:15	Session 1: Integrating Novel Chemical Modalities in Hit-to-lead: a New Paradigm for Early Drug Discovery Session Sponsored by X-Chem
13:15	Introduction by Session Chair Dr Maria-Jesus BLANCO
	(ATAVISTIK BIO, Cambridge, MA, United States)
13:20	Integrating DNA-Encoded Library Technologies in Lead Discovery (IL01)
	Dr Lisa MARCAURELLE (GSK, Cambridge, United States)
13:55	Discovery of IRAKIMiDs: Dual-Mechanism Degraders Targeting IRAK4 and IMiD Substrates for Oncology (IL02)
	Dr Lewis PENNINGTON (KYMERA THERAPEUTICS INC., Watertown, United States)
14:30	Development and Optimization of Small Molecule RNA Degraders (IL03)  Prof. Matthew DISNEY (SCRIPPS RESEARCH INSTITUTE, Jupiter, United States)
15:05	Coffee Break & Exhibition
15:35	Oral Peptides: Theory and Practice (IL04)
	Dr Lauren MONOVICH (NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH, Cambridge, United States)
16:10	Structural Approach to Identify Lead Scaffolds for Protein-Protein Interaction Targets (IL05)  Prof. Kyle HADDEN (UNIVERSITY OF CONNECTICUT, Storrs, United States)
16:45	Poster Session 1
16:45	Poster Session (posters with odd numbers)
	Chaired by  Dr Lori FERRINS (NORTHEASTERN UNIVERSITY, Boston, MA, United States)  Prof. Andrii MONASTYRSKYI (MOFFITT CANCER CENTER & RESEARCH INSTITUTE, Tampa, United States)
18:15	Welcome Reception & Networking

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## **Scientific Program**

Monday June 27, 20
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08:30 Session 2: New Directions in Targeting DNA Damage Repair (DDR)

Session Sponsored by NuChem Sciences

08:30 Introduction by Session Chairs

Dr Erin DIMAURO (MERCK & CO. INC., Boston, United States)
Dr Srinivasa KARRA (AVILAR THERAPEUTICS, Waltham, United States)

08:35 M3541 and M4076: Discovery and Optimization of Potent and Selective ATM Kinase Inhibitors with Strong

Anti-tumor Efficacy in Combination Therapies (IL06)

Dr Thomas FUCHSS (MERCK KGAA, HEALTHCARE, Darmstadt, Germany)

09:10 Discovery and Validation of in vitro and in vivo Probes for Human DNA Polymerase Theta (Pol?) (IL07)

Dr Robert HEALD

(ARTIOS PHARMA LTD, Cambridge, United Kingdom)

09:45 The Modification of Pyrazolopyrimidinones and their Effect on WEE1 Inhibition and the DNA Damage Response (IL08)

Prof. Phil REIGAN

(UNIVERSITY OF COLORADO, Aurora, United States)

10:20 Coffee Break & Exhibition

10:50 Discovery of KB-0742, a Potent, Selective, Orally Bioavailable Small Molecule Inhibitor of CDK9/cyclin T1 for MYC-dependent Cancers (IL09)

Dr David FREEMAN

(KRONOS BIO, INC., Massachussetts, United States)

11:25 Harnessing CDK12 Inhibition of Transcriptional Machinery to Induce Dimerization between DDB1 and CDK12-cyclinK Complex for Targeted Protein Degradation (IL10)

Prof. Andrii MONASTYRSKYI

(MOFFITT CANCER CENTER & RESEARCH INSTITUTE, Tampa, United States)

12:00 Lunch & Exhibition until 1:15 PM

Sponsored by ACS Publications

12:20 Optional Schrödinger Workshop - Augmenting Medicinal Chemistry with Digital Chemistry: A CDK2 Inhibitor Design Challenge

Mr Wade MILLER

(SCHRÖDINGER, Cambridge, United States)

13:15 Session 3: Hot Targets from NYC Academic and Biotech Scene

13:15 Introduction by Session Chairs

Dr Amjad ALI (MERCK & CO. INC., Kenilworth, United States)
Prof. Robert DEVITA (ICAHN SCHOOL OF MEDICINE AT MT. SINAI, New York, NY, United States)

13:20 Rational Design of Inhibitors of Protein-Protein Interactions (IL11)

Prof. Paramjit ARORA (NYU, New York, United States)

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# **Scientific Program**

13:55	Next Generation	Drug Discovery	(IL12)
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Dr Steve COLLETTI (ZYMERGEN INC., New York, United States)

# 14:30 Optimization of Mycobacterium Tuberculosis (Mtb) Selective Inhibitors of Lipoamide Dehydrogenase (Lpd)

(IL13)

Dr John GINN

(TRI-INSTITUTIONAL THERAPEUTICS DISCOVERY INSTITUTE, New York, United States)

#### 15:05 Coffee Break & Exhibition

#### 15:35 Therapeutic Potential of the Gut-Brain Axis (IL14)

Dr Iyassu SEBHAT (KALLYOPE, New Jersey, United States)

### 16:10 Designing and Combining Cancer's Off Switches (IL15)

Dr Karen AKINSANYA (SCHRODINGER, New York City, United States)

#### 16:45 End of Session 3

# 16:50 Optional Iktos Workshop - Al Tools for Medicinal Chemists: Novel Compound Design and Retrosynthesis Prediction

Dr Rohit ARORA (IKTOS INC, Ashland, United States) Dr Brian ATWOOD (IKTOS INC, Los Angeles, United States)

#### 17:15 Poster Session 2

# 17:15 Poster Session 2 (posters with even numbers) Chaired by

Dr Lori FERRINS (NORTHEASTERN UNIVERSITY, Boston, MA, United States)
Prof. Andrii MONASTYRSKYI (MOFFITT CANCER CENTER & RESEARCH INSTITUTE, Tampa, United States)

## 18:45 End of the Day

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# **Scientific Program**

Tuesday	June 28, 2022
08:30	Session 4: Targeting Autophagy for Cancer, Neurodegeneration, or Autoimmune Disease
08:30	Introduction by Session Chairs  Dr Erin DIMAURO (MERCK & CO. INC., Boston, United States)  Dr Hongjun David ZHANG (CEREVEL THERAPEUTICS, LLC, Boston, United States)
08:35	Unraveling Autophagy in Cancer Using Chemical Genetics (IL16) Prof. Jeff MACKEIGAN (MICHIGAN STATE UNIVERSITY, East Lansing, United States)
09:05	Small Molecule PINK1 Activators Rescue Parkinson's Disease Pathology (IL17)  Dr Nicholas HERTZ (MITOKININ INC, San Francisco, United States)
09:35	Revolutionizing Discovery and Development of ALS Therapeutics using Transformational, Al-powered 'All-in-Human' Platforms (IL18)  Dr Irene CHOI (VERGE GENOMICS, South San Francisco, United States)
10:05	Coffee Break & Exhibition
10:35	Chasing Challenging Targets: Development of Selective Inhibitors of the Autophagy Pathway to Impact Cancer Therapy (IL19)  Prof. Leslie ALDRICH (UNIVERISTY OF ILLINOIS AT CHICAGO, Chicago, United States)
11:05	Chemical Activation of Chaperone-Mediated Autophagy for Protection against Neurodegeneration (IL20) Prof. Evripidis GAVATHIOTIS (ALBERT EINSTEIN COLLEGE OF MEDICINE, Bronx, United States)
11:35	Necessary Complexity: The Discovery of Selective, CNS Penetrant LRRK2 Inhibitors for the Treatment of Parkinson's Disease (IL21)  Dr Peter FULLER (MERCK & CO. INC., Boston, United States)
12:05	End of AM Program
13:00	Social Activities & Free Time
17:45	Award Session
17:45	Award Dinner
19:15	Award Session - Opening Address
19:29	2022 Division of Medicinal Chemistry Award

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# **Scientific Program**

19:30	Award Ceremony chaired by ACS Medi Division Chair 2022, Prof. Amanda Bryant-Friedrich (Wayne State University, United States)
19:40	2022 Division of Medicinal Chemistry Award Lecture A Perspective on the Arc of Innovation in Drug Discovery over Three Decades (AL01) Dr Lawrence G. HAMANN (INTERDICT BIO, San Francisco, United States)
20:24	2022 IUPAC-Richter Prize
20:25	Prize Ceremony chaired by Dr Janos Eles (Gedeon Richter, Hungary)
20:35	2022 IUPAC-Richter Prize Lecture Drug Discovery in Academia: Some Success Stories (AL02) Prof. Michael E. JUNG (UCLA CHEMISTRY & BIOCHEMISTRY, Los Angeles, United States)
21:20	End of the Day

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# **Scientific Program**

13:20

13:25

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**Introduction by Session Chair** 

(ABBVIE, North Chicago, United States)

Dr Philip KYM

08:30	Session 5: Next Generation Therapies Shaped by Clinical Data
08:30	Introduction by Session Chair Dr Steven MCKERRALL (SEPTERNA, South San Francisco, United States)
08:35	Discovery of LPA1 antagonists for the treatment of Pulmonary Fibrotic Diseases (IL22)  Dr Peter CHENG (BRISTOL-MYERS SQUIBB R & D, Hopewell, United States)
09:05	Discovery of Risdiplam, a Medicine for the Treatment of Spinal Muscular Atrophy (IL23)  Dr Luke GREEN (HOFFMANN-LA ROCHE, Basel, Switzerland)
09:35	The Invention of MK-8262, a CETP Inhibitor for the Treatment of Coronary Heart Disease (IL24)  Dr Petr VACHAL (MERCK & CO. INC (MSD), Kenilworth, United States)
10:05	Coffee Break & Exhibition
10:35	Discovery of Inavolisib, a Highly Selective Inhibitor of PI3K-? that Induces Degradation of Mutant-p110? Protein (IL25)  Dr Marie-Gabrielle BRAUN (GENENTECH, South San Francisco, United States)
11:05	Discovery of PF-07081532: a Small Molecule GLP-1 Receptor Agonist Suitable for Once-daily Oral Administration (IL26)  Dr David A. GRIFFITH (PFIZER INC., Cambridge, United States)
11:35	Discovery of LY3154885, a Second Generation Human Dopamine D1 Receptor Positive Allosteric Modulator with an Improved Drug-Drug Interaction Risk Profile (IL27)  Dr Erik HEMBRE (ELI LILLY & CO., Indianapolis, United States)
12:05	Lunch Break & Exhibition until 1:20PM Sponsored by Paraza Pharma
12:20	Optional Aseda Sciences Workshop - Drug Discovery Platforms, the Predictive Information Gap, and How to Bridge it  Dr Andrew BIEBERICH (ASEDA SCIENCES, West Lafayette, United States)
13:20	Session 6: Lessons from Drug Hunters across Academia, NPOs and the Pharmaceutical Industry

Diabetes (IL28)

Small Molecule Drug Discovery in Academia: DYRK1A Inhibitors as Novel beta-Cell Regenerative Drugs for

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# **Scientific Program**

Prof. Robert DEVITA (ICAHN SCHOOL OF MEDICINE AT MT. SINAI, New York, NY, United States)

## 14:00 Discovery of Upadacitinib: a Tricyclic Janus Kinase 1 (JAK1) Inhibitor (IL29)

Dr Kristine E. FRANK (ABBVIE, North Chicago, United States)

### 14:35 Anticancer Drug Discovery from Pets to People, the Story of PAC-1 (IL30)

Prof. Paul J. HERGENROTHER (UNIVERSITY OF ILLINOIS, Urbana, United States)

#### 15:10 Coffee Break & Exhibition

### 15:40 Discovery of Nix-TB as a Novel Regimen that Significantly Shortens Treatment of Tuberculosis (IL31)

Dr Christopher B. COOPER (TB ALLIANCE, GLOBAL ALLIANCE FOR TB DRUG DEVELOPMENT, New York, United States)

### 16:15 Adventures in Drug Hunting (IL32)

Dr Wendy YOUNG (MPM CAPITAL, Brisbane, CA, United States)

### 16:50 Closing Remarks

Dr Amjad ALI (MERCK & CO. INC., Kenilworth, United States)
Prof. Robert DEVITA (ICAHN SCHOOL OF MEDICINE AT MT. SINAI, New York, NY, United States)

## 17:00 Departure

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