

## **Laboratory for Synthetic Chemistry and Chemical Biology (LSCCB) Symposium 2023**

### **Day 1**

**Date:** Wednesday, 17 May 2023

**Venue:** Wang Gungwu Lecture Hall, The University of Hong Kong (HKU), Pokfulam, H.K.

**Format:** Face to face

**Moderator:**

1. Prof. Chi-Ming CHE  
(Managing Director of LSCCB, Chair Professor and Head of Department of Chemistry, HKU)

**Invited Speakers:**

1. Prof. Matthew J. FUCHTER  
(Professor of Department of Chemistry, Faculty of Natural Sciences, Imperial)
2. Dr. Victor Ho Fun LEE  
(Clinical Associate Professor of Department of Clinical Oncology, Li Ka Shing Faculty of Medicine, HKU)
3. Prof. Xiaoyu LI  
(Professor of Department of Chemistry, HKU)
4. Prof. Xuechen LI  
(Professor of Department of Chemistry, HKU)
5. Prof. Kenneth Kam-Wing LO  
(Professor of Department of Chemistry, City University of Hong Kong (CityU))
6. Prof. Nicholas James LONG  
(Chair Professor of Department of Chemistry, Faculty of Natural Sciences, Imperial)
7. Prof. Stephanie Kwai Yee MA  
(Professor of School of Biomedical Sciences, Li Ka Shing Faculty of Medicine, HKU)
8. Prof. Ed TATE  
(Professor of Department of Chemistry, Faculty of Natural Sciences, Imperial)
9. Prof. Ramon VILAR  
(Professor of Department of Chemistry, Faculty of Natural Sciences, Imperial)
10. Prof. Alice Sze Tsai WONG  
(Interim Director and Professor of School of Biological Sciences, HKU)
11. Dr. Qian ZHAO  
(Assistant Professor of Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University (PolyU))

<b>Time</b>	<b>Activity(s)</b>
<b>Session 1 - Morning</b>	
09:30	Arrival to venue for all speakers, staff, students and / or guest(s)
10:00 – 10:05	Opening Remarks – Start of Day 1 (Moderator: Prof. Chi-Ming CHE)
10:05 – 10:30	Invited Lecture Prof. Nicholas James LONG, Imperial Lipophilic cations for biomedical imaging
10:30 – 10:55	Invited Lecture Prof. Matthew J. FUCHTER, Imperial Next generation heteroaromatic azo photoswitches:

	from photopharmacology to energy storage
10:55 – 11:20	Invited Lecture Dr. Victor Ho Fun LEE, HKU Antibody drug conjugates in cancer management
11:20 – 11:50	Refreshment and Interactive Break
11:50 – 12:15	Invited Lecture Prof. Xiaoyu LI, HKU DNA-encoded library in drug discovery and target identification
12:15 – 12:40	Invited Lecture Prof. Xuechen LI, HKU Chemical Protein Synthesis and Beyond
12:40 – 13:05	Invited Lecture Prof. Kenneth Kam-Wing LO, CityU Design of Photofunctional Transition Metal Complexes for Bioimaging and Photosensitization Applications
13:05 – 14:00	Buffet Lunch at venue
Session 2 - Afternoon	
14:00 – 14:25	Invited Lecture Prof. Ramon VILAR, Imperial Targeting nucleic acids with luminescent compounds – imaging and therapy
14:25 – 14:50	Invited Lecture Prof. Alice Sze Tsai WONG, HKU Understanding tumor heterogeneity: towards better therapeutics
14:50 – 15:15	Invited Lecture Dr. Qian ZHAO, PolyU Chemical Proteomics in Drug Target Discovery
15:15 – 15:45	Refreshment and Interactive Break
15:45 – 16:10	Invited Lecture Prof. Stephanie Kwai Yee MA, HKU Understanding phenotypic plasticity in hepatocellular carcinoma to mitigate therapy resistance and tumor recurrence
16:10 – 16:35	Invited Lecture Prof. Ed TATE, Imperial Chemical Biology & Chemical Proteomics
16:35 – 16:40	Closing Remarks – End of Day 1 (Moderator: Prof. Chi-Ming CHE)
19:00 onwards	Conference dinner for PIs and Imperial PDRAs / PDFs

\*Booked time of venue: 8:30 to 18:30.

## **Laboratory for Synthetic Chemistry and Chemical Biology (LSCCB) Symposium 2023**

### **Day 2**

**Date:** Thursday, 18 May 2023

**Venue:** Wang Gungwu Lecture Hall, HKU, Pokfulam, H.K.

**Format:** Face to face

**Moderator:**

1. Prof. Chi-Ming CHE

**Invited Speakers:**

1. Prof. Chi-Ming CHE
2. Dr. Zahra DANTES  
(Chief Scientific Officer, Invitroque®)
3. Prof. David PARKER  
(Chair Professor of Department of Chemistry, Hong Kong Baptist University (“HKBU”))
4. Dr. Rafael ROSELL COSTA  
(Chief Medical Officer and President, IOR, Quiron-Dexeus University Institute, Barcelona)

**PDRA / PDF speakers:**

1. Dr. Davia PRISCHICH, PDF from Imperial
2. Dr. Helena PICKFORD, PDF from Imperial
3. Dr. Edward WALTER, PDRA from Imperial
4. Dr. Saul COOPER, PDRA from Imperial
5. Dr. Li TIAN, Investigator from LSCCB (HKU)
6. Dr. Tim KENCH, Postdoctoral Associate from Imperial
7. Dr. Sally HE, PDF from LSCCB (HKU)
8. Dr. Fangyuan CAO, Postdoctoral Research Associate from Imperial

<b>Time</b>	<b>Activity(s)</b>
<b>Session 1 - Morning</b>	
09:15	Arrival to venue for all speakers, staff, students and / or guest(s)
09:45 – 09:50	Opening Remarks – Start of Day 1 (Moderator: Prof. Chi-Ming CHE)
09:50 – 10:15	Invited Lecture Prof. David PARKER, HKBU pH Switched europium complexes to probe cell surface receptor internalisation
10:15 – 10:35	Invited Talk Dr. Davia PRISCHICH, Imperial Next-generation photoswitch staples for conformational control of bioactive peptides
10:35 – 10:55	Invited Talk Dr. Edward WALTER, Imperial Versatile BODIPY and dual-modal probes for mitochondria-targeting
10:55 – 11:15	Invited Talk Dr. Helena PICKFORD, Imperial Reactions of Strained Alkyl Rings: In Search of Novel Bioisosteres

11:15 – 11:45	Refreshment and Interactive Break
11:45 – 12:10	Invited Lecture Dr. Zahra DANTES, Invitroque Europe AG Onco-PDO® Test Utilizing Patient-Derived Organoids (PDOs) Supports Next-Generation Precision Oncology in Cancer Patients
12:10 – 12:30	Invited Talk Dr. Sally HE, LSCCB (HKU) Design and Synthesis of Anticancer Ruthenium (III) Pyrazole Complexes
12:30 – 12:50	Invited Talk Dr. Li TIAN, LSCCB (HKU) AI, big data, and chemistry: AI algorithms for bioactivity prediction and the applications in drug discovery.
12:50 – 14:30	Buffet Lunch and poster session at venue
Session 2 - Afternoon	
14:30 – 14:55	Invited Lecture Dr. Rafael ROSELL COSTA, Quiron-Dexeus University Institute, Barcelona Ferroptosis-based therapeutic approaches in Non-Small-Cell Lung Cancer (NSCLC)
14:55 – 15:15	Invited Talk Dr. Saul COOPER, Imperial Functional Transition Metal Complexes bearing Heterofunctionalised Diphosphine Ligands for Imaging and Therapy
15:15 – 15:35	Invited Talk Dr. Tim KENCH, Imperial Development of a high-throughput workflow for the identification of highly photo-cytotoxic iridium complexes
15:35 – 16:05	Refreshment and Interactive Break
16:05 – 16:25	Invited Talk Dr. Fangyuan CAO, Imperial Unlocking deubiquitinase probe discovery by high-throughput in-cell chemical proteomics
16:25 – 16:50	Invited Lecture Prof. Chi-Ming CHE, LSCCB (HKU) Targeted chemotherapy for treating metastatic cancers
16:50 – 16:55	Closing remarks – End of Day 2 (Moderator: Prof. Chi-Ming CHE)

\*Booked time of venue: 8:30 to 18:30.