

Workshop on Genome Editing Tool Developments and Clinical Applications



3rd April 2025 (Thursday)



9 am - 6 pm (HKT)



Inno2 Multi-Function Room 2, 2/F, Building 17W, Phase 3, Hong Kong Science Park, Sha Tin, N.T.

Time	Agenda Item	Speaker	Moderator
08:30 - 09:00	Registration (1/F Lobby, Building 17W)		
09:00 - 09:05	Welcoming remarks Mr. Albert Wong CEO, Hong Kong Science and Technology Parks Corporation		
09:05 - 09:15	Opening remarks Prof. Sandra Ceccatelli, MD, PhD Professor, Department of Neuroscience, Karolinska Institutet, Stockholm, Sweden; Director, Ming Wai Lau Centre of Reparative Medicine, Karolinska Institutet, Stockholm, Sweden		Dr. Cynthia Shum, Senior Scientist, GenEditBio Limited, Hong Kong
09:15 - 09:45	Engineering approaches to improve the precision of genome editing Prof. Ben P. Kleinstiver, PhD Associate Professor, Center for Genomic Medicine, Harvard Medical School & Massachusetts General Hospital, Boston, USA; Kayden-Lambert MGH Research Scholar		
09:45 - 10:15	From Gene Editing to New Frontiers: Advancing Cell and Gene Therapies Prof. Wensheng Wei, PhD Professor, School of Life Sciences, Peking University, Beijing, China Director, Genome Editing Research Centre, Peking University, Beijing, China		
10:15 - 10:45	The Landscape of Genetic Diseases in Saudi Arabia: Challenges and Opportunities for Gene Therapy Prof. Aiman Alhazmi, PhD Assistant Professor of Human Genetics; Dean, College of Science and Health Professions, King Saud bin Abdulaziz University for Health Sciences, the Kingdom of Saudi Arabia		
10:45 - 11:00	Coffee & tea break; networking		
11:00 - 11:30	Prospects for Gene and Epigenome Editing in Hepatitis B Disease Prof. Man Fung Yuen, DSc, MD, PhD, MBBS Chair Professor of Gastroenterology and Hepatology; Li Shu Fan Medical Foundation Professor in Medicine, The University of Hong Kong		Prof. Bo Feng
11:30 - 12:00	Precise genome editing and the translational studies Prof. Dali Li, PhD Professor of Biochemistry and Molecular Biology, School of Life Sciences, East China Normal University; Scientific Director, Gene Editing Technology, China Pharmaceutical Biotechnology Association		
12:00 - 12:30	Exploring RNA machineries for DNA manipulation Prof. Junjie Liu, PhD Associate Professor, School of Life Science, Tsinghua University, Beijing, China		
12:30 - 14:00	Lunch		
14:00 - 14:25	In Vivo CRISPR Gene Editing in Patients with Herpes Stromal Keratitis: from phase 0 to phase 1 study Prof. Jiaxu Hong, MD, PhD Professor, Eye & ENT Hospital of Fudan University, Shanghai, China		Prof. Wenjun Xiong
14:25 - 14:50	High-throughput engineering of CRISPR tools with combinatorial mutagenesis and machine learning Prof. Alan Siu Lun Wong, PhD Associate Professor, School of Biomedical Sciences, The University of Hong Kong		
14:50 - 15:15	AAV-CRISPR-mediated liver-specific knock-in restored hemostasis in neonatal hemophilia B mice Prof. Bo Feng, PhD Associate Professor, School of Biomedical Sciences, The Chinese University of Hong Kong		
15:15 - 15:25	Coffee & tea break; networking		
15:25 - 15:50	Lipid nanoparticle-CRISPR mediates gene editing in trabecular meshwork and induces ocular hypertension in mice Prof. Wenjun Xiong, PhD Associate Professor, Department of Biomedical Sciences, City University of Hong Kong		Prof. Alan Siu Lun Wong
15:50 - 16:15	Therapeutic genome editing for neurological diseases Prof. Jae Young Lee, PhD Assistant Professor, Ajou University School of Medicine, Suwon, Korea		
16:15 - 16:40	Development of in vivo genome editing strategies for treating familial Alzheimer's disease Prof. Yangyang DUAN, PhD Research Assistant Professor, Division of Life Science, The Hong Kong University of Science and Technology		
16:40 - 16:55	Machine-learning guided low-N search for top variants for genome editor engineering Dr. Athena CHU (Prof. Alan Wong's lab), The University of Hong Kong		Prof. Zongli Zheng
16:55 - 17:10	A Comparative Study of CRISPR-Based In vivo Gene Knock-In Strategies for Haemophilia B Treatment and Editing Outcomes in Genome Ms. Siqi Zhang (Prof. Bo Feng's lab), The Chinese University of Hong Kong		
17:10 - 17:25	Mutation-independent gene knock-in therapy targeting 5'UTR for autosomal dominant retinitis pigmentosa Mr. Baoshan Liao (Prof. Wenjun Xiong's lab), City University of Hong Kong		
17:25 - 17:40	GenomePAM directs PAM characterization and engineering of CRISPR-Cas nucleases Mr. Miao Yu (Prof. Zongli Zheng's lab), City University of Hong Kong		
17:40 - 17:55	Enhancing Gene Editing Precision: The Role of RhampSeq™ CRISPR System for Safer Cell Therapy Dr. Edward Wong Sern Yuen, PhD Senior Manager of Gene Writing and Editing, APAC, Integrated DNA Technologies (IDT)		
17:55 - 18:00	Concluding remarks Prof. Zongli Zheng, PhD Associate Professor, Department of Biomedical Sciences, City University of Hong Kong Principal Investigator, Karolinska Institutet (InnoHK)		

Organizer and Sponsor

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