

Frontiers in Genome Editing 2023 SCHEDULE		
Day 1: 14th November, 2023		
Time	Speaker	Title of the Talk
15:00		Registration with high tea
17:30-18:00		Welcome remarks (Directors, IGIB and BITS Goa)
18:00-18:45	Keynote 1 by Dr. Charles Gersbach (Duke University)	Decoding and Programming the Genome with Epigenome Editing
18:45 onwards		Dinner and Networking
Day 2: 15th November, 2023		
Time	Speaker	Title of the Talk
Session 1		
09:30-10:00	Hiroshi Nishimasu (University of Tokyo)	Structure and engineering of the CRISPR nuclease-protease complex
10:00-10:30	Giulia Palermo (University of California Riverside)	Dynamics and mechanisms of CRISPR-Cas9 through the lens of computational methods
10:30-11:00		Tea/Coffee Break
Session 2		
11:00-11:30	Randall Platt (ETH, Zurich)	Transcriptional linkage analysis with AAV-Perturb-seq
11:30-12:00	Matthew Porteus (Stanford University)	Genome editing Hematopoietic stem cells by Homology Directed Repair for the Hemoglobinopathies
12:00-12:30	Hyongbum Henry Kim (Yonsei University College of Medicine)	DeepPrime-based saturation prime editing
12:30-13:30		Poster Session - I + Meet the Editor Session (in parallel)
13:30-14:15		Lunch (Poster Session I continued)
14:15-14:30	Industry flash talks	5 min each
14:30-15:00	Caixia Gao (Chinese Academy of Sciences)	Next-Generation CRISPR technologies and their applications in crop improvement
15:00-15:30	Francesca Storici (Georgia Institute of Technology)	RNA-guided repair of DNA double-strand breaks in yeast and human cells
15:30-16:00	Mohankumar Murugesan (CMC Vellore)	Precise genome editing at highly homologous regions without inducing large deletions
16:00-16:30		Tea/Coffee Break (Poster Session I continued)
16:30-17:00	Chase Beisel (University of Würzburg, HIRI)	Harnessing novel bacterial defenses for versatile genome editing
17:00-17:30	Benjamin Kleinstiver (Harvard University)	Engineered CRISPR Technologies to Improve Genome Editing
17:30-18:00	Sivaprakash Ramalingam (CSIR-IGIB)	Rewinding the internal clock of hemoglobin synthesis for fetal hemoglobin reactivation
18:00-18:30	Weixin Tang (University of Chicago)	Directed Evolution of an Adenine Base Editor with Increased Context Compatibility
18:30-19:00		Poster Session - I
19:00		Dinner
Day 3: 16th November, 2023		
Time	Speaker	Title of the Talk
Session 1		
09:15-10:00	Keynote 2 by Dr. Xue Sherry Gao (Rice University)	Engineered CRISPR systems for disease treatment and diagnostics
10:00-10:30	Soumya Kannan (Broad Institute)	Uncovering the functional diversity of CRISPR-Cas systems with deep terascale clustering
10:30-11:00		Tea/Coffee Break
Session 2		
11:00-11:30	Jun-Jie (Gogo) Liu (Tsinghua University)	Development of novel gene-editing tools inspired by the "RNA world"
11:30-12:00	Alexis C. Komor (University of California, San Diego)	Elucidating the genetic mechanisms governing cytosine base editing outcomes
12:00-12:30	Debojyoti Chakraborty (CSIR-IGIB)	Navigating the translational route of CRISPR therapies in India
13:00-14:00		Poster Session II + Meet the editor session (in parallel)
13:30-14:15		Lunch

14:15-14:30	Industry/Selected flash talks	5 min each
14:30-15:00	Le Cong (Stanford University)	TBA
15:00-15:30	Keiji Nishida (Kobe University)	Basic editing tools with new features
15:30-16:00	Indumathi Mariappan (LV Prasad Eye Institute)	CRISPR tools to generate iPSC and zebrafish models to study eye diseases.
16:00-16:30	Tea/Coffee Break	
16:30-17:00	Jia Chen (ShanghaiTech University)	Base editing of the HBG promoter induced potent fetal hemoglobin with no detectable off-target mutations in human HSCs
16:30-17:00	Ajit Chande (IISER Bhopal)	Chemical genetics approach identifies stimulators of CRISPR-Cas9-mediated gene editing
17:00-17:30	Panel Discussion	
17:30-18:00	Acknowledgments, Poster Awards	
18:00 onwards	Departure for Gala Dinner	
MEETING CONCLUDES		