

**4<sup>TH</sup> RETREAT**

Max Planck-GIBH Centre for Regenerative Biomedicine (MGCRB)

**CUHK-MPI-GIBH-CRMH**

Joint Symposium for

# STEM CELL & MOLECULAR MEDICINE

INNOVATE | COLLABORATE | CUTTING-EDGE

**30 NOV - 1 DEC 2023**

G/F, Lo Kwee-Seong Integrated  
Biomedical Sciences Building, Area 39,  
The Chinese University of Hong Kong,  
Shatin, New Territories, Hong Kong SAR,  
China



Visit the  
event website



**ORGANIZING COMMITTEE**

**Co-Chairs:**



Prof. Wai-Yee CHAN  
CUHK



Prof. Guangjin PAN  
GIBH/CRMH



Prof. Thomas BRAUN  
MPI-HL

**Committee Members:**

- Bo FENG, Ph.D. (Coordinator)
- Andrew M. CHAN, Ph.D.
- Hon Fai CHAN, Ph.D.
- Stephen DALTON, Ph.D.
- Bo GAO, Ph.D.
- Yangzi JIANG, Ph.D.
- Michelle D. WANG, Ph.D.
- Karl K.H. SO, Ph.D.
- Wuming WANG, Ph.D.



4th Retreat of the Max Planck-GIBH Centre for Regenerative Biomedicine (MGCRB)  
and  
CUHK-MPI-GIBH-CRMH Joint Symposium for Stem Cell and Molecular Medicine

Thursday, 30 November 2023

*Opening Ceremony*

- 09:00-09:05 Welcome Address by Prof. Wai-Yee CHAN, Pro-Vice-Chancellor / Vice-President (Strategic Developments) of CUHK
- 09:05-09:10 Opening Remarks by Prof. Thomas BRAUN, Co-Director of MPI Bad Nauheim
- 09:10-09:15 Opening Remarks by Prof. Duanqing PEI, Academic-Director of CRMH
- 09:15-09:20 Opening Remarks by Mr. Hui SUN, Chief of Division of European Affairs, Bureau of International Cooperation, CAS
- 09:20-09:25 Address by Prof. Andrew M. CHAN, Director of School of Biomedical Sciences, CUHK
- 09:25-09:30 MoU Signing between School of Biomedical Sciences, The Chinese University of Hong Kong and Max Planck Institutes
- 09:30-09:35 Photo taking

*Session I: Advances in Heart Regeneration*  
*Chairperson: Prof. Andrew M. CHAN*

- 09:35-10:05 Metabolic reprogramming of cardiomyocytes enables heart regeneration in mice **O1**  
**Prof. Thomas BRAUN, MPI Bad Nauheim and CPI**
- 10:05-10:35 Xeno-regeneration of humanized heart and kidney in pigs from induced pluripotent stem cells via embryo complementation **O2**  
**Prof. Liangxue LAI, GIBH**
- 10:35-10:55 Elucidating cardiac development and disease using pluripotent stem cells **O3**  
**Prof. Wuming WANG, CUHK**
- 10:55-11:20 TEA BREAK / POSTER

*Session II: Niche and Tissue Engineering*  
*Chairperson: Prof. Thomas BRAUN*

- 11:20-11:50 Cell niche engineering - enabling technologies for tissue engineering **O4**  
**Prof. Barbara P. CHAN, CUHK**
- 11:50-12:20 Regeneration of the human segmentation clock in somitoids in vitro **O5**  
**Prof. Duanqing PEI, CRMH**
- 12:20-12:40 Stabilization and improved functionality of three-dimensional perfusable microvascular networks in microfluidic devices under macromolecular crowding **O6**  
**Prof. Anna M. BLOCKI, CUHK**
- 12:40-13:00 Engineering stem cell-based vascularized liver tissue **O7**  
**Prof. Hon Fai CHAN, CUHK**
- 13:00-14:20 CONFERENCE LUNCH



**Session III: Lineage Specification & Regeneration of Lung**  
**Chairpersons: Prof. Duanqing PEI and Prof. Elie EL AGHA**

- 14:20-14:50 Single-cell RNA sequencing reveals the developmental program underlying proximal–distal patterning of the human lung at the embryonic stage  
**Prof. Jiekai CHEN, GIBH** **O8**
- 14:50-15:20 Mesenchymal lineage formation during lung development, repair and regeneration  
**Prof. Elie EL AGHA, JLU and CPI** **O9**
- 15:20-15:50 Spatiotemporal molecular regulation architecture of embryo development  
**Prof. Guangdun PENG, GIBH** **O10**
- ~~15:40-16:00 Pulmonary vascular development and remodeling—Novel insights—~~  
~~**Prof. Soni PULLAMSETTI, JLU and CPI**~~ ~~**O11**~~
- 15:50-16:10 Cell fate changes during pulmonary fibrosis  
**Prof. Guangming WU, GZL** **O12**
- 16:10-17:00 TEA BREAK / POSTER

**Keynote Session**  
**Chairperson: Prof. Barbara P. CHAN**

- 17:00-18:00 Mini-joint: a stem cell-based, engineered tissue chip to model aging-associated degenerative joint  
**Prof. Rocky S. TUAN, CUHK** **O13**
- 18:00-21:00 BANQUET DINNER  
at ClubONE on the Park (*by invitation*)





**Friday, 1 December 2023**

***Session IV: Cell Fate Control and Tissue Morphogenesis***  
***Chairpersons: Prof. Mai-Har SHAM and Prof. Ralf ADAMS***

- |             |  |     |
|-------------|--|-----|
| 09:00-09:30 | Transcriptional adaptation, a newly discovered mode of genetic compensation<br><b>Prof. Didier STAINIER, MPI Bad Nauheim and CPI</b>       | O14 |
| 09:30-09:50 | Tissue morphogenesis and cell fate dynamics in the pluripotent lineage of the early mouse embryo<br><b>Prof. Ivan BEDZHOV, MPI Munster</b> | O15 |
| 09:50-10:10 | The role of DEAD-box helicase in stem cell and human diseases<br><b>Prof. Albert H.H. CHEUNG, CUHK</b>                                     | O16 |
| 10:10-10:30 | Reconstitution of pluripotency from mouse fibroblast through SALL4 overexpression<br><b>Prof. Jing LIU, GIBH</b>                           | O17 |
| 10:30-11:00 | TEA BREAK / POSTER   |     |

***Session V: Neural Crest, Mesenchymal and Endothelial Cells in Tissue Remodeling***  
***Chairpersons: Prof. Didier STAINIER and Prof. Wood Yee CHAN***

- |             |  |     |
|-------------|--|-----|
| 11:00-11:30 | Epithelium and neural crest interactions in mammalian craniofacial development<br><b>Prof. Mai-Har SHAM, CUHK</b>  | O18 |
| 11:30-12:00 | Specialization and therapeutic relevance of blood vessels in bone<br><b>Prof. Ralf ADAMS, MPI Munster</b>  | O19 |
| 12:00-12:20 | Tuning BMP signaling in nucleus by zinc finger SWIM-type containing 4<br><b>Prof. Hui ZHAO, CUHK</b>   | O20 |
| 12:20-12:40 | Beyond boundaries: the role of human neural crest-derived mesenchymal stromal cells in grey and white matter repair in hypoxic-ischemic encephalopathy<br><b>Prof. Xiaohua JIANG, CUHK</b> | O21 |
| 12:40-14:00 | CONFERENCE LUNCH   |     |

***Session VI: Metabolism in Stem Cell and Diseases***  
***Chairpersons: Prof. Liangxue LAI and Prof. Hui ZHAO***

- |             |   |     |
|-------------|---|-----|
| 14:00-14:30 | Developing new therapies for type 2 diabetes using brown adipocytes<br><b>Prof. Stephen DALTON, CUHK</b>  | O22 |
| 14:30-15:00 | Mr. & Mrs. mitochondria and nucleus in cell reprogramming<br><b>Prof. Xingguo LIU, GIBH</b>   | O23 |
| 15:00-15:20 | Fatty acid oxidation (FAO) inhibition impairs muscle stem cell quiescence by blocking ACLY-P300 complex mediated histone acetylation<br><b>Prof. Xuejun YUAN, MPI Bad Nauheim</b> | O24 |



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15:20-15:40	Unlocking the therapeutic potential of beige adipocytes in obesity and cardiovascular medicine <b>Prof. Hannah X. HUI, CUHK</b>	O25
15:40-16:10	TEA BREAK / POSTER	
	<b>Session VII: Stem Cell &amp; Immune Cell Therapy</b> <b>Chairpersons: Prof. Guangjin PAN and Prof. Stephen DALTON</b>	
16:10-16:40	Developing new cancer cellular immunotherapies for solid tumors <b>Prof. Peng LI, GIBH</b>	O26
16:40-17:00	Cellular therapy for haemic malignancies <b>Prof. Chi-Kong LI, CUHK</b>	O27
17:00-17:20	CRISPR engineering of immune cells for enhanced immunotherapy <b>Prof. Bo FENG, CUHK</b>	O28
17:20-17:50	Human pluripotent stem cells for cell therapy purposes <b>Prof. Guangjin PAN, GIBH/CRMH</b>	O29
17:50-18:00	Closing Remarks by Prof. Guangjin PAN, Deputy Director of GIBH	
18:00-20:00	DINNER PARTY	

Abbreviations:

Cardio-Pulmonary Institute (CPI)

Centre for Regenerative Medicine and Health (CRMH)

Chinese Academy of Sciences (CAS)

Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences (GIBH)

Guangzhou Regenerative Medicine and Health Guangdong Laboratory (GZL)

Max Planck Institutes (MPI)

The Chinese University of Hong Kong (CUHK)

University of Giessen (JLU)



SPEAKER BIOGRAPHY



**Prof. Thomas BRAUN** is director at the Max-Planck-Institute for Heart and Lung Research, Bad Nauheim and Professor of Medicine at the University Giessen, Germany. After postdoctoral training in Hamburg and Boston, he was group leader at the TU Braunschweig, associate professor at the University of Würzburg and full professor at the University of Halle-Wittenberg. In 2004 he was recruited by the Max-Planck-Society as founding director of the Max-Planck-Institute for Heart and Lung Research in Bad Nauheim. So far, he has published nearly 400 papers in leading journals, focusing on the mechanisms driving skeletal and cardiac muscle development, regeneration and remodeling. **O1**



**Prof. Liangxue LAI** is a Professor at Guangzhou Institute of Biomedicine and Health, CAS. His lab is focusing on genetic modification of large animals, stem cells, and animal cloning, organ regeneration. He has published more than 170 peer review papers in the international journals including *Science*, *PNAS*, *Nature Biotechnology* and *Cell*. As of now, his team has produced more than 100 kinds of genetically modified large animals including pigs, dogs and rabbits with important applications in biomedicine and agriculture. **O2**



**Prof. Wuming WANG** obtained his Ph.D. degree from The Chinese University of Hong Kong in 2017 and assumed the role of Research Assistant Professor in 2021. Prof. Wang's research work has focused on the regulatory mechanism of cardiac development and disease. Additionally, he has been actively involved in investigating the development and practical application of genome editing tools. Prof. Wang has published papers in international journals including *Nature Communications*, *Advanced Science*, *Cell Death & Disease*, and *Frontiers in Cellular Neuroscience* et al. **O3**



**Prof. Barbara P. CHAN** obtained her Bachelor degree in Biochemistry and PhD degree in Surgical Science from The Chinese University of Hong Kong (CUHK). She received Postdoctoral Fellowship in Laser Medicine from the Massachusetts General Hospital. Prof. Chan served the Biomedical Engineering programme of the University of Hong Kong since 2003. She joined the School of Biomedical Sciences, Department of Biomedical Engineering, and Institute of Tissue Engineering and Regenerative Medicine, CUHK since 2023. Her research interests center around tissue engineering and regenerative medicine, natural and biomimetic biomaterials, multi-cellular organoids and tumoroids, mechano-regulation, multiphoton microfabrication and micropatterning, cell niche engineering and laser medicine. **O4**



**Prof. Duanqing PEI** is Chair Professor of Regenerative Biology at School of Life Sciences, Westlake University. Prof. Pei received his PhD from the University of Pennsylvania in 1991; trained as a postdoctoral fellow at University of Michigan from 1991 to 1996. Prof. Pei began his independent research career in 1996 as Assistant Professor at the University of Minnesota School of Medicine, and was promoted to Associate Professor with tenure in 2002. Then, he joined immediately the Medical Faculty at Tsinghua University. He moved to the Guangzhou Institutes of **O5**



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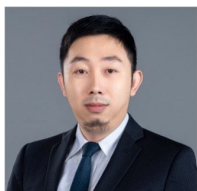
Biomedicine and Health (GIBH) in 2004. While pursuing his scholarly work, he has been active in building various institutions and organizations including GIBH, GDL(Guangzhou Regenerative Medicine and Health Guangdong Laboratory), Hong Kong Center for Regenerative Medicine and Health. Prof. Pei was elected as Associate Member of EMBO in 2018.



**Prof. Anna M. BLOCKI** has joined The Chinese University of Hong Kong (CUHK) since February 2018 as an Assistant Professor. Her current work focuses on developing innovative approaches to modulate diseased microenvironments and guide healing and regenerative processes. Prof. Blocki has received her PhD from the National University of Singapore (NUS) in 2013. Following that, she carried out her first postdoctoral appointment at the Agency for Science Technology and Research (A\*STAR), Singapore. In 2015, Prof. Blocki was able to secure a competitive postdoctoral fellowship from the Charité Universitätsklinikum Berlin, where she worked before joining CUHK. 06



**Prof. Hon Fai CHAN** is an Assistant Professor at the Institute for Tissue Engineering and Regenerative Medicine and the School of Biomedical Sciences at The Chinese University of Hong Kong (CUHK). He received his Bachelor degree from the University of Hong Kong (2010), before pursuing his Ph.D. degree at Duke University with the support of the Sir Edward Youde Memorial Fellowships for Overseas Studies. During 2015-2017, he worked as a postdoctoral researcher at Columbia University and Massachusetts Institute of Technology before joining CUHK in 2018. Prof. Chan's research mainly focuses on advancing biofabrication approach and biomaterial design for stem cell tissue engineering and regenerative medicine, as well as understanding how microenvironmental cues influence stem cell proliferation and differentiation. 07



**Prof. Jiekai CHEN** is a principal investigator at GIBH. He received his Ph.D. in Biochemistry and Molecular Biology at GIBH in 2011. His research interests include understanding cell lineage commitment and cell fate determination. He was awarded by The National Science Fund for Distinguished Young Scholars, and has led many key research projects such as National Key Research and Development Project of China and 973 Program. He has published, as corresponding authors, more than 16 scientific papers in international journals such as *Nature*, *Cell*, *Nature Genetics*, *Cell Stem Cell*, *Cell Research*, *Molecular Cell*, etc. 08



**Prof. Elie EL AGHA** is Professor of Pathogen-Induced Lung Injury and Repair at the Institute for Lung Health (ILH), Justus-Liebig University Giessen (JLU), Germany. He is also the director of the international graduate program Molecular Biology and Medicine of the Lung (MBML) at the same university. The El Agha lab focuses on the cellular and molecular mechanisms mediating lung development, repair and regeneration, particularly the interaction between mesenchymal niche cells and epithelial stem and progenitor cells in the lung. 09





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**Prof. Guangdun PENG** received his Ph.D. in developmental biology from Shanghai Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences (SIBCB, CAS) and then had his postdoctoral training on computational biology at the University of California, Los Angeles (UCLA). He joined in Guangzhou Institutes of Biomedicine and Health, CAS as a principal investigator in 2018. Prof. Guangdun Peng is one of the pioneers in developing spatial transcriptome technologies and his research interests are single-cell and spatial lineage of embryo development, disease and regenerative medicine. His work has been published in *Nature*, *Nature Methods*, *Nature Genetics* etc.

O10



**Prof. Soni PULLAMSETTI** is a professor at the Cardio Pulmonary Institute (CPI) of Justus Liebig University in Giessen, Germany, where she leads the research group "Lung Vascular Epigenetics". She also leads a group at the Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany. She serves as a disease area coordinator at German Lung Center (DZL). The focus of Prof. Pullamsetti's lab is centered on understanding how epigenetic mechanisms and transcription factors impact gene regulation in driving chronic lung diseases. Recently she received prestigious European Research Council (ERC) consolidator grant to understand the developmental origins of pulmonary hypertension.

O11



**Prof. Guangming WU** is a senior and established scientist in the stem cell and regenerative medicine field, with wealthy experiences in stem cell and mouse transgenic technologies and chronic lung diseases. Prof. Wu worked in the famous Max Planck Institute of Molecular Biomedicine for 15 years before he joined Guangzhou Laboratory, and his work on stem cells and factor-driven regeneration has been published in *Cell Stem Cell* and *Nature Cell Biology*.

O12



**Prof. Rocky S. TUAN** (Ph.D., Rockefeller University), the 8th Vice-Chancellor and President of The Chinese University of Hong Kong since 2018, is an internationally renowned biomedical scientist specializing in musculoskeletal biology, tissue regeneration, stem cells, biomaterials, 3D printing, and tissue-on-a-chip technologies. Author of ~600 publications, his recognitions include the Marshall Urist Award, Clemson & Carnegie Science Awards, and Fellowships in the National Academy of Inventors, AIMBE, American Association of Anatomy, Orthopaedic Research Society, and TERMIS. He is the founding editor of *Stem Cell Research & Therapy* (2009-now), and Associate Editor of *Stem Cells Translational Medicine* (2011-now).

O13



**Prof. Didier STAINIER**  
Born 1963 in Liège, Belgium. Studied Biology at the United World College of the Atlantic (Wales, UK) IB (1981), Université de Liège (Belgium), and Brandeis University (USA) B.A. (1984). Ph.D. in Biochemistry and Molecular Biology at Harvard University (1990). Postdoc at Massachusetts General Hospital (Boston). Assistant Professor at the University of California San Francisco (UCSF) in 1995, Associate Professor in 2000, Full Professor in 2003. Director and Scientific Member at the Max Planck Institute for Heart and Lung Research (since 2012).

O14



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Neuroscience, University of Cambridge, UK.

**Prof. Ivan BEDZHOV** is a Principal investigator, Max Planck Institute for Molecular Biomedicine, Muenster, Germany since 2015. He received his Bachelor degree and Master degree from the University of Sofia, Bulgaria (2004 & 2006), before pursuing his Ph.D. degree at Max Planck Institute for Immunobiology and Epigenetics, Freiburg, Germany (2011). During 2012-2015, he had his postdoctoral training at Gurdon Institute & Department of Physiology, Development and

**O15**



**Prof. Albert H.H. CHEUNG** obtained his Ph.D. degree (CUHK) through the NIH-CUHK Graduate Partnership Program in 2010. He stayed at NIH for 7 years during his pre-doctoral and post-doctoral training, where he received NIH FARE and ASHG trainee awards. He became an Assistant Professor at SBS, CUHK in 2019. His research interest is about stem cell aging. He studies the role of helicases in premature aging disorders as well as other age-related diseases.

**O16**



*Communications*, and *Cell Reports* etc. Prof. Liu applied for 10 invention patents, of which 6 have been authorized and 2 have applied for PCT.

**Prof. Jing LIU** is a Professor at Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences, the winner of the National Natural Science Foundation Outstanding Youth Science Fund and the Chief scientist of National Key Research and development Program, Guangzhou outstanding expert. His academic interests are stem cells and cell fate regulation. He has published more than 30 SCI articles in journals such as *Nature Cell Biology*, *Cell Stem Cell*, *Nature*

**O17**

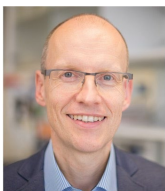


hearing disorders, genetic bases and mouse models of human diseases, stem cells, and tissue regeneration. Prof. Sham is currently the President of the Hong Kong Society for Developmental Biology. She serves as an Associate Editor for *Gene Expression Patterns* and an Editor for *Cell and Bioscience*.

**Prof. Mai-Har SHAM** is the Pro-Vice-Chancellor and Vice-President (Research) and Choh-Ming Li Professor of Biomedical Sciences at CUHK. She obtained her BSc and MPhil in Biology from CUHK, and PhD in Biochemistry from the University of Cambridge, U.K.

Prof. Sham's research focuses on the molecular mechanisms of mammalian development and human congenital disorders, covering the areas of gene regulation, molecular signaling, craniofacial and

**O18**



biology approaches. Prof. Adams is a member of the European Molecular Biology Organisation. He has received the Werner Risau Memorial Award, the Malpighi Award of the European Society for Microcirculation, and the Feldberg Prize.

**Prof. Ralf ADAMS** started his independent research career at Cancer Research UK in London. In 2007, he became director at the Max Planck Institute for Molecular Biomedicine in Germany. His main research interests are the regulation of blood vessel growth, the organ-specific specialization of vascular cells, and the crosstalk between blood vessel and the surrounding tissue. His research uses advanced mouse genetics and confocal/two-photon microscopy together with cell

**O19**



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**Prof. Hui ZHAO** is now working at the School of Biomedical Sciences, The Chinese University of Hong Kong. His research interests cover neural crest, and heart development and regeneration. His laboratory studies the mechanism of neural crest differentiation, germ layer formation, and cell migration, and how these multiple events affect embryonic patterning. He has published over 110 papers in high-impact journals, including *Sci Adv*, *Nat Comm*, and *PNAS*. His research is supported by funding from the Ministry of Science and Technology, the National Natural Science Foundation of China, and the Research Grants Council (RGC) of Hong Kong. **O20**



**Prof. Xiaohua JIANG** graduated from School of Medicine, Shanghai JiaoTong University. She earned her PhD in cell biology from the University of Hong Kong and completed postdoctoral training at UCLA and USC in the USA. In 2013, Prof. Jiang established an independent laboratory at the School of Biomedical Sciences at CUHK. Her major research interest is in stem cell biology and regenerative medicine, with a focus on molecular regulation of stem cells, stem cell microenvironment, and stem cell therapy in neurological diseases. Prof. Jiang has published more than 100 peer-reviewed papers with an H-index of 40. **O21**



**Prof. Stephen DALTON** is the Global Stem Scholar and Professor in the School of Biomedical Sciences, The Chinese University of Hong Kong (CUHK). Before joining CUHK, Prof. Dalton was Professor and Endowed Chair in Molecular Cell Biology at the University of Georgia where he was founding Director of the "Center for Molecular Medicine" ([cmm.uga.edu](http://cmm.uga.edu)). His research goals are to use stem cell technology to develop new therapies for the treatment of type 2 diabetes, pre-diabetes and obesity. **O22**



**Prof. Xingguo LIU** was honored as "Distinguish Youth Foundation" of National Natural Science Foundation, Chief Scientist of the National Key Research and Development Program of China, The Shulan Medicine Youth Award by the Academician Shusen Lanjuan Talent' Foundation, and "Young Bioenergeticist Award" of the International Biophysical Society. He is the Executive Editor of *Science Bulletin*, the council member of the Asian Society for Mitochondria, and the council member of the Biophysical Society of China. Since 2015, he has published 28 research papers as corresponding author (2 IF>30, 21 IF>9), such as *Cell Metabolism* (2016, 2018), *Nature Metabolism*. **O23**



**Prof. Xuejun YUAN** is a molecular and genetic biologist. She received her PhD in University of Heidelberg/German Cancer Research Center, Germany in 2002 after three years study on transcriptional regulation of rRNA genes. She joined Max Planck Institute for Heart and Lung Research in 2010 as a senior post-doctor. Since 2016, she runs a research group within the Department of Cardiac Remodeling at the MPI-HLR. The Yuan lab aims to decipher epigenetic mechanisms regulating the development, regeneration and disease of muscle tissues. Prof. Yuan has led her group to complete several epigenetic-related projects and published over 20 research articles in well-renowned scientific journals including *Molecular cell*, *Nature cell biology*, *JCI*, *Circulation*, *Circulation research*, *Nature Communication*, *Nature Genetics*. **O24**



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**Prof. Hannah X. HUI** obtained her B.Sc. from Shanghai Jiao Tong University and completed her Ph.D. study in Shanghai Institute of Biological Sciences, Chinese Academy of Sciences. After that she pursued her postdoctoral training in the University of Hong Kong. In 2021, she joined SBS, The Chinese University of Hong Kong as Assistant Professor. Professor Hui has a long track record on adipose tissue biology in the context of obesity, meta-inflammation and metabolic diseases. Her work has been published in top-ranked journals including *Cell Metab*, *Nature communications*, *Advanced science*, *science advances*, *J Clin Invest*, *Diabetes*, *EMBO rep*. She is also the awardee as the first runner up for National Science and Technology Progress Award in 2020. **O25**



**Prof. Peng LI** obtained his PhD in University of Cambridge, Bachelor degree in Tsinghua University. He is currently a Visiting Professor in Department of Surgery and a principal investigator at Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences. He is a member of AACR (American Association for Cancer Research) and ASH (American Society of Hematology). Prof. Li obtained multiple national grants, including NSFC Excellent Young Scientists Fund, NSFC Key International Collaboration Fund, and MOST National Key Research and Development Plan. He serves as the vice-president of Guangdong Society for Immunology. **O26**



**Prof. Chi-Kong LI** currently is Research Professor at Department of Paediatrics of The Chinese University of Hong Kong, and Honorary consultant at Hong Kong Children's Hospital. He had been Chief of Service of Department of Paediatrics, Prince of Wales Hospital from 2004 to 2014. He was the past Continental President of Asia of International Society of Pediatric Oncology. He is specialised in paediatric Haematology/oncology/BMT. His main interest is in childhood leukaemia, palliative care and bioethics. He is vice-chairman of China Children Cancer Group ALL 1995 and 2020 studies. He has published over 390 peer-reviewed papers, written chapters in 5 books. **O27**



**Prof. Bo FENG** is an Associate Professor and Deputy Chief in the Developmental and Regenerative Biology program, in the School Biomedical Sciences, The Chinese University of Hong Kong. Prof. Feng received her Ph.D. (2006) from National University of Singapore and joined Genome Institute of Singapore as postdoc, where she published her research on stem cells and reprogramming in *Cell Stem Cell*, *Nature Cell Biology* etc. Prof. Feng has joined the SBS, CUHK since 2010. Her research focuses on understanding the molecular mechanisms underlying differentiation of stem cells, and applying CRISPR-technologies to develop novel cell/gene therapy strategies for treating human diseases. **O28**



**Prof. Guangjin PAN** got his Ph.D from Tsinghua University and Post.Doc at University of Wisconsin-Madison, with Prof. James Thomson, the pioneer of hESC research. His research focus is to understand the mechanisms underlying fate decision in human pluripotent stem cells (hPSCs); and to generate functional neural stem cells (NSC) or hematopoietic/immune cells from hPSCs for clinical purposes. He has published more than 30 peer-reviewed papers as corresponding author or first author in decent scientific journals, such as *Nature Methods*, *Cell Stem Cell*, *Nature Communications* etc. **O29**





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**POSTER PRESENTATIONS**

*Presentation Time: 30-Nov-2023 (Thu) 16:10-17:00*

Poster No.	Presenting Author	Poster Title
P-01	CHAI Yue	Developing a novel CRISPR-based gene therapy for monogenic neurodevelopmental disorders
P-02	CHOI Seong Wang	Induction and characterization of vagal neural crest-like cells from mouse induced pluripotent stem cells
P-03	DONG Tianyu	Investigations into the potential of proteasome inhibitors for hepatocellular carcinoma treatment
P-04	HO Nicolas James	Functional characterization of recurrent truncating variant in UBAP1 associated with hereditary spastic paraplegia (SPG80)
P-05	LI Kejia	"Slow Walk" mimetic tensile loading maintains human meniscus tissue resident progenitor cells homeostasis
P-06	LI Xiang	Inhibition of fatty acid oxidation stimulates KDM5-mediated H3K4me3 demethylation and enables heart regeneration in adult mice
P-07	QIN Dajiang	Newly identified cerebrospinal fluid drainage pathway via veins in mice
P-08	WANG Jingyi	Intranasal delivery of a simple sACE2-Fc mutant provides high-efficiency prophylaxis against SARS-CoV-2 infection in mice by facilitating early immune engagement
P-09	WANG Xiaolu	Impaired glycine neurotransmission causes adolescent idiopathic scoliosis
P-10	WANG Yaofeng	Deciphering the mechanisms of DNMT3A recruitment to specific target sites: implications for de novo DNA methylation in directing cell differentiation
P-11	WU Binbin	Patient-derived and mature hiPSC-CM for the identification of novel drugs against doxorubicin-induced cardiotoxicity
P-12	WU Fan	Spurious transcription causing innate immune responses is prevented by 5-hydroxymethylcytosine
P-13	XIANG Yong	Association between COVID-19 and risks of hospitalization and mortality from other disorders post infection: a cohort study of the UK biobank
P-14	YEUNG Sai Fung	CKAP2: a potential target of miR-497-3p/miR-3926, regulating lung carcinogenesis via microtubule growth control and PI3K pathway activation
P-15	YU Hao	Investigating the molecular mechanism of human brown adipocytes development
P-16	ZHANG Wanqi	Development of a reinforced hydrogel with biochemical and biomechanical tenogenic inductive factors for precise tendon regeneration
P-17	ZHANG Xiaoyi	RGMB released from injured renal tubular cells promoted the infiltration of macrophage into the kidney
P-18	ZHAO Xuemei	Annexin A8 is a new adipokine implicated in obesity-related metabolic disorders
P-19	ZHIRENOVA Zhamilya	Development of cell-derived ECM-based materials for peripheral nerve regeneration in diabetic neuropathy
P-20	ZHOU Zheyuan	Bioinspired mechanical niche of composite hydrogel enhances chondrogenic differentiation



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*CONTACT INFORMATION*

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**4th Retreat of the Max Planck-GIBH Centre for Regenerative Biomedicine (MGCRB)  
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CUHK-MPI-GIBH-CRMH Joint Symposium for Stem Cell and Molecular Medicine**

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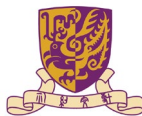
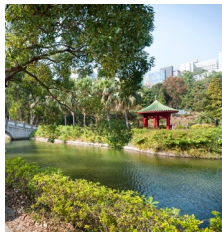
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*Let's celebrate!*



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