



CARDIOVASCULAR SCIENCES

CUTTING-EDGE TECHNOLOGIES

PROGRAMME BOOKLET

2026-2027

香港中文大學
The Chinese University of Hong Kong

中國科學院分子細胞科學卓越創新中心 · 香港中文大學
心血管科學聯合實驗室
CAS CEMCS – CUHK Joint Laboratory for
Cardiovascular Sciences

 THE HONG KONG YOUNG ACADEMY OF SCIENCES
香港青年科學院

腾讯基金会
TENCENT FOUNDATION

π 創新科技署
Innovation and Technology Commission



NATIONAL CENTER FOR
HUMAN GENOME RESEARCH

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01

About Young Academy of Sciences Summit (YASS) & Introduction of Organisers and Co-organiser

匯聚智慧 引領思行

Converging Wisdom
Strategising Actions

About YASS

- Showcases the excellent research work of the young scientists in Hong Kong.
- Provides a unique platform for local young academics and scientists to gather and engage in a cross-disciplinary, cross-cultural and cross-institutional cooperation in Hong Kong.
- Demonstrates Hong Kong's unique position as a strong and energetic research base, well prepared for any knowledge transfer collaborations.



About the Organisers



The CAS CEMCS—CUHK Joint Laboratory for Cardiovascular Sciences

The CAS CEMCS – CUHK Joint Laboratory for Cardiovascular Sciences was established in 2025 as partnership between The Chinese University of Hong Kong (CUHK) and the Center for Excellence in Molecular Cell Science, Chinese Academy of Sciences (CAS CEMCS), building on a decade-long collaboration between the Lui lab at CUHK and the Zhou lab at CAS. To date, our teams have co-authored more than 50 publications and organized international conferences in cardiovascular sciences, including the 1st Croucher Symposium (2024) and 1st YASHK Subconference (2024). This year, we have combined them as 2nd Croucher Symposium and YASHK subconference VII (2026). Together, the two laboratories bring complementary strengths in immunology, cardiovascular sciences, and dual recombinase-based genetic mouse models. This synergy has significantly advanced our understandings of the cellular and molecular mechanisms underlying cardiovascular development, disease and repair.

Looking ahead, our partnership is dedicated to achieving scientific breakthroughs that ultimately reduce the burden associated with cardiovascular disease. In addition, the joint laboratory is committed to promoting science in Hong Kong, Mainland China, and beyond through research dissemination, education, outreach, and collaborative initiatives. By bridging gaps and building networks, we aim to inspire a broader audience and contribute to the global advancement of cardiovascular science.

About the Organisers

croucher

Croucher Foundation

Croucher Foundation is an independent private foundation dedicated to promoting the standard of the natural sciences, technology and medicine in Hong Kong. We are funded by a trust established by the late Noel Croucher in 1979. Our work is organised into five broad areas:

- Scholarships and fellowships for promising young Hong Kong scientists and medical doctors to pursue research overseas.
- Research fellowships to enable scientists in Hong Kong to pursue their intellectual inclinations, and to engage in bold new work.
- Conferences, workshops and collaborative research to facilitate the exchange of ideas between Hong Kong scientists and their counterparts on the mainland and overseas.
- Demonstration lectures to promote a wider understanding of science among Hong Kong school students and undergraduate students.
- Support for any undergraduate or postgraduate student in Hong Kong experiencing sudden financial difficulty.



The Hong Kong Young Academy of Sciences

The Hong Kong Young Academy of Sciences (YASHK) was established in 2018 and is a chapter of The Hong Kong Academy of Sciences (ASHK). YASHK offers a strong platform for young scientists to make meaningful contribution to the Hong Kong community and build up a better research and education environment for science and technology. Currently, YASHK has 61 young scientists as its Members.

🔗 <https://yashk.org.hk>

About Co-organiser



Tencent Foundation

Established in 2007, the Tencent Charity Foundation (“Tencent Foundation”) was the first charitable foundation in China launched by an internet company, dedicated to leveraging technology to empower philanthropy. In 2022, the Tencent Foundation expanded its presence in Hong Kong. Through innovative funding models and partnerships with local organizations, we strive to promote “Tech for Good” initiatives among the youth. Leveraging Tencent’s technological strengths and resources, we also facilitate cross-sector and regional collaboration to drive the use of technology for social good in the digital age.

<https://www.tencentfoundation.org/>



About the Funding Organisation



Any opinions, findings, conclusions or recommendations expressed in this material/event (or by members of the project team) do not reflect the views of the Government of the Hong Kong Special Administrative Region, the Innovation and Technology Commission or the Vetting Committee of the General Support Programme of the Innovation and Technology Fund.



Innovation and Technology Commission

To promote the development of innovation and technology, an Innovation and Technology Commission (ITC) was set up on 1st July 2000, with the mission to spearhead Hong Kong’s drive to become a world-class, knowledge-based economy. The Commission formulates and implements policies and measures to promote innovation and technology; supports applied research, technology transfer and application; promotes technological entrepreneurship; facilitates the provision of technology infrastructure and development of human resources; and promotes internationally accepted standards and conformity assessment services to underpin technological development and international trade. The Commission works closely with its partners in the Government, industry, business, tertiary education institutions and industrial support organisations.

02

YASS

Activity Overview

3rd YASS Summit

December 2025

Sub-Conference VII
March 2026

Sub-Conference VIII
June 2026

Sub-Conference IX
September 2026

4th YASS Summit

December 2026

Sub-Conference X
March 2027

Sub-Conference XI
June 2027

Sub-Conference XII
September 2027



Members of the Programme Committees

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The Programme Committee provides
general oversight and advice to the YASS 2025/26 & 2026/2027.



Prof. Anderson SHUM
City University of Hong Kong



Prof. Stephanie MA
The University of Hong Kong



Prof. Minhua SHAO
The Hong Kong University of
Science and Technology



Prof. Kathy Oi Lan LUI
The Chinese University of
Hong Kong



Prof. Zijian ZHENG
The Hong Kong
Polytechnic University



Prof. Johnny HO
City University of Hong Kong



Prof. Zhifeng HUANG
The Chinese University of
Hong Kong



Prof. Timothy BONEBRAKE
The University of Hong Kong



Prof. Yang CHAI
The Hong Kong
Polytechnic University



Prof. Fuk Yee KWONG
The Chinese University of
Hong Kong



Prof. Shih-Chi CHEN
The Chinese University of
Hong Kong



Prof. Giulio CHIRIBELLA
The University of Hong Kong



Prof. Kai LIU
The Hong Kong University of
Science and Technology



Prof. Danguan LEI
City University of Hong Kong



Prof. Ken LEUNG
Hong Kong
Baptist University



Prof. Zuankai WANG
The Hong Kong
Polytechnic University



Prof. Amos TAI
The Chinese University of
Hong Kong



Prof. Joelle WANG
Hong Kong
Baptist University

YASS (2025-2026) Programme Rundown

20.03.2026

Time: 9:00–18:25

Venue: YIA Lecture Theatre 2, The Chinese University of Hong Kong

Topic: Cardiovascular Sciences: Cutting-Edge Technologies

08:30 – 09:00

Registration

09:00 – 09:05

Welcome Speech



Philip CHIU, Dean of Medicine,
The Chinese University of Hong Kong

09:05 – 09:20

Opening Remarks



David FOSTER, Executive Director, Croucher Foundation



Kathy LUI, Co-chair; Croucher Scholar;
Professor, Department of Chemical Pathology,
The Chinese University of Hong Kong;
Founding Member, The Hong Kong Young Academy of Sciences

09:20 – 09:30

Group Photo

09:30 – 10:45

Session 1

Cutting-edge technologies



Moderator

Thomas BRAUN, Director,
Max Planck Institute for Heart and Lung Research



Speakers

Topic | Tracing the origins of de novo coronary collateral formation in cardiac repair

Bin ZHOU, Co-chair; Professor, Chinese Academy of Sciences



Topic | Heterogeneity and functional specialization of blood vessels in bone

Ralf ADAMS, Director,
Max Planck Institute for Molecular Biomedicine



Topic | Tracing CD34+ cells in cardiovascular diseases

Qingbo XU, Qishi Professor and Chair,
Department of Cardiology, Zhejiang University Medical School

10:45 – 12:25

Session 2

Vascular disease



Moderator

Alex LEE, Professor, Department of Medicine & Therapeutics,
The Chinese University of Hong Kong



Faye TSANG, Professor, School of Life Sciences,
The Chinese University of Hong Kong

Speakers



Topic | Senescence and Vascular Crosstalk
as Drivers and Therapeutic Targets of Cardiac Aging
Stefanie DIMMELER,
Professor Experimental Medicine and Director,
Institute for Cardiovascular Regeneration, University of Frankfurt



Topic | Angiocrine and pericrine signaling in the liver
Hellmut AUGUSTIN, Professor,
Department of Vascular Biology, Heidelberg University



Topic | Vaso-protective roles of uncoupling protein 2
Yu HUANG, Head and Chair Professor of Biomedical Sciences
and Vascular Biology Jeanie Hu Professorship in Biomedical Sciences,
City University of Hong Kong



Topic | Delineating mechanisms of human coronary artery disease
Nicola SMART, Professor,
Department of Physiology Anatomy & Genetics, University of Oxford

12:25 – 14:00

Lunch

14:00 – 16:05

Session 3
Cardiac disease



Moderator

Bin ZHOU, Co-chair; Professor, Chinese Academy of Sciences



Ellen POON, Assistant Professor,
School of Biomedical Sciences,
The Chinese University of Hong Kong



Speakers

Topic | Regulation of heart development and disease by RNA-binding proteins

Thomas BRAUN, Director,
Max Planck Institute for Heart and Lung Research



Topic | Post-transcriptional Regulation in Cardiac Development and Diseases: From RNA Splicing to Translation

Yibin WANG, Director,
Programme in Cardiovascular and Metabolic Disorders,
Duke-NUS Medical School



Topic | From Growth to Regeneration: A Journey with T cells in Cardiovascular Science

Kathy LUI, Co-chair; Croucher Scholar; Professor,
Department of Chemical Pathology,
The Chinese University of Hong Kong; Founding Member,
The Hong Kong Young Academy of Sciences



Topic | Innovation in aortic diseases diagnosis and treatment

Randolph WONG,
Professor and Chief of the Division of Cardiothoracic Surgery,
Department of Surgery, The Chinese University of Hong Kong



Topic | Uncovering Regenerative Targets for Cardiac Repair

Yu NIE, Principal Investigator and PhD advisor,
Fuwai Hospital, National Center for Cardiovascular Disease,
Peking Union Medical College

16:05 – 16:25

Refreshment

16:25 – 18:25

Session 4 Cardiac disease



Moderator

Yu NIE, Principal Investigator and PhD advisor,
Fuwai Hospital, National Center for Cardiovascular Disease,
Peking Union Medical College



Moderator

Rio SUGIMURA, Assistant Professor,
School of Biomedical Sciences, The University of Hong Kong



Speakers

Topic | Heart Development and Disease: Stem Cells,
Engineered Tissues, and Artificial Intelligence

Sean WU, Associate Director, Cardiovascular Institute,
Stanford University



Topic | Unveiling function of thyroid hormone and
its receptor in cardiac regeneration using zebrafish models

Hui ZHAO, Professor, School of Biomedical Sciences,
The Chinese University of Hong Kong



Topic | Nrf3 in the Coronary Heart Disease Continuum:
A Novel Therapeutic Target

Li ZHANG, Professor, School of Medicine,
Shanghai Jiao Tong University



Topic | Extracellular matrix niche control of
the cardiogenic transcriptional network

Kathryn CHEAH,
Emerita Chair of Biochemistry and Professor,
School of Biomedical Sciences, The University of Hong Kong



Topic | Cardiac endothelial cell dysfunction during
cardiometabolic heart failure

Xiao Yu TIAN,
Associate Professor, School of Biomedical Sciences,
The Chinese University of Hong Kong

18:25

Dinner
By invitation

YASS (2025-2026) Programme Rundown

21.03.2026

Time: 9:00–12:50

Venue: YIA Lecture Theatre 2, The Chinese University of Hong Kong

Topic: Cardiovascular Sciences: Cutting-Edge Technologies

08:30 – 09:00

Registration

09:00 – 09:50

Session 5

Young Investigator Awards



Moderator

Thomas BRAUN, Director,
Max Planck Institute for Heart and Lung Research



Yibin WANG, Director,
Programme in Cardiovascular and Metabolic Disorders,
Duke–NUS Medical School



Speakers

Topic | Pericyte, not endothelial,
ACE2 is the principal driver of cardiac repair
Jitao LIU, PhD Student



Topic | A genetic system for specific targeting of
pulmonary endothelial cells
Mingjun ZHANG, Postdoctoral Fellow



Topic | The role of endothelial PPAR δ phase separation in regulating stress granule dynamics during flow-induced endothelial activation and atherosclerosis

Yangxian LI, PhD Student



Topic | MRG15 promotes adult cardiomyocyte proliferation after MI through alternative RNA splicing

Yangfeng HOU, PhD Student



Topic | Seeing the heart through the nucleus: a nuclear-feature-based strategy for cardiomyocyte ploidy identification

Zehao YAO, Postdoctoral Fellow

10:00 – 12:30

Session 6

Vascular disease across organs



Moderator

Hellmut AUGUSTIN, Professor,
Department of Vascular Biology, Heidelberg University



Ronald WANG, Professor,
Department of Obstetrics and Gynaecology,
The Chinese University of Hong Kong



Speakers

Topic | Notes from an editor: inside publishing at Science

Yevgeniya NUSINOVICH, Senior Editor, Science



Topic | Age-Associated Tet2 Mutation Impairs Platelet Function

Wai Ho TANG, Professor,
School of Nursing and Health Sciences,
Hong Kong Metropolitan University



Topic | Novel players in atherosclerotic cardiovascular disease

Wei KONG, Professor,
Dean of the School of Basic Medical Science,
Chair of the Department of Physiology and Pathophysiology,
Peking University



Topic | Towards anti-aging-based therapeutics for treating cerebrovascular disorders

Owen KO, Associate Professor,
Department of Medicine and Therapeutics,
The Chinese University of Hong Kong



Topic | Modelling tumour microenvironment with vascular organoids

Rio SUGIMURA, Assistant Professor,
School of Biomedical Sciences, The University of Hong Kong



Topic | Pharmacogenomics and pharmacokinetics of aspirin in preeclampsia prevention

Ronald WANG, Professor,
Department of Obstetrics and Gynaecology,
The Chinese University of Hong Kong

12:30 – 12:40

Prize Presentation

12:40 – 12:50

Concluding Remarks



Bin ZHOU, Co-Chair; Professor, Chinese Academy of Sciences



Anderson SHUM,
President, The Hong Kong Young Academy of Sciences

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Speaker Profile



Philip CHIU

Dean of Medicine, The Chinese University of Hong Kong

Philip Chiu is currently the Dean of the Faculty of Medicine, Shun Hing Education and Charity Fund Professor of Robotic Surgery, Director of Multi-Scale Medical Robotics Center, Director of Endoscopy Center, Institute of Digestive Disease of The Chinese University of Hong Kong. He also serves as Director of Endoscopy of Prince of Wales Hospital and the New Territories East Cluster (NTEC); Cluster Chief of Division of Upper GI and Metabolic Surgery of NTEC, Hospital Authority, Hong Kong. He is a member of the

Steering Committee of Health and Medical Innovation Development of the Health Bureau of HKSAR Government, a member of Hospital Authority Board, and served as the President of Endoscopic and Laparoscopic Surgeons of Asia (ELSA) from 2021–2023.



David FOSTER

Executive Director, Croucher Foundation

David Foster was appointed Director of the Croucher Foundation in October 2008. Earlier in his career he worked on scientific exchanges and strategic aspects of the funding of science programmes at the Royal Society in London, and then at the British Council in Hong Kong and mainland China. David graduated with a BA Honours in Modern Chinese Studies from the University of Leeds, and studied and worked in Beijing in the early 1980s.



Kathy LUI

Co-chair; Croucher Scholar;
Professor, Department of Chemical Pathology,
The Chinese University of Hong Kong;
Founding Member, The Hong Kong Young Academy of Sciences

Kathy Oi Lan LUI is currently a Professor at the Department of Chemical Pathology of The Chinese University of Hong Kong. She is also an Adjunct Professor at the Australian Regenerative Medicine Institute of Monash

University, Australia. She received her Ph.D. in Immunology from University of Oxford U.K. in 2009. After that, she continued her postdoctoral training at Department of Stem Cell and Regenerative Medicine, Harvard University, U.S.A. She started her own laboratory in 2014 and focused on understanding how the immune system controls the development and progression of cardiovascular disease with an attempt to promote repair and regeneration. She has published over 100 peer-reviewed articles and received numerous awards and honors including the Croucher Innovation Award in 2017, founding member of the Young Academy of Sciences of Hong Kong in 2018, the first batch of NSFC Excellent Young Scientists in Macau & Hong Kong in 2019, and the RGC Research Fellowship in 2022. Besides, she is also an editorial board member of Circulation Research (American Heart Association) and Cardiovascular Research (European Society of Cardiology).



Bin ZHOU

Co-chair; Professor, Chinese Academy of Sciences

Dr. Bin Zhou is a Professor at the Chinese Academy of Sciences (CAS) in Shanghai and Co-Director of the CAS-CUHK Joint Laboratory for Cardiovascular Sciences. His research program investigates the regulatory mechanisms of cell origin and fate plasticity in organ development, tissue regeneration, and disease. Dr. Zhou earned his MD from Zhejiang University (2002) and his PhD from Peking Union Medical College (2006). He subsequently completed postdoctoral training at Harvard Medical School

before joining the Chinese Academy of Sciences in Shanghai in 2010. His significant contributions to the field have been recognized with numerous awards, including the International Society for Heart Research Outstanding Researcher Award, the Outstanding Achievement Award from the Chinese Society for Cell Biology, the Xplorer Prize, and his designation as a New Cornerstone Investigator. He also lends his expertise to the editorial boards of several journals, including *Circulation Research* and *Journal of Hepatology*.



Ralf ADAMS

Director, Max Planck Institute for Molecular Biomedicine

Ralf Adams started his independent career at the Cancer Research UK London Research Institute in 2000. Later, he became director at the Max Planck Institute for Molecular Biomedicine and professor at the University of Münster, Germany. The main research interests of Ralf Adams are vascular biology, the growth and organ-specific specialization of blood vessels, and the crosstalk with cells in the surrounding tissue. A key discovery by his team is the identification specialized vessel subpopulations in bone with critical functional

roles in skeletal development, bone homeostasis, age-related bone loss, and osteoporosis. His research uses advanced mouse genetics and confocal/two-photon microscopy together with a range of cell biology approaches. Ralf Adams is an elected member of the European Molecular Biology Organisation. He has received the Otto Hahn Medal of the Max Planck Society, the Werner Risau Memorial Award, the Malpighi Award of the European Society for Microcirculation, and the Feldberg Prize.



Qingbo XU

Qiushi Professor and Chair, Department of Cardiology, Zhejiang University Medical School

Professor Xu qualified in Medicine at Peking Union Medical College and then the University of Innsbruck, Austria. He was appointed Professor in Cardiovascular Science at St George's Hospital in 1999 and then to the BHF John Parker Chair of Cardiovascular Sciences at King's College London in 2006. In 2019 he was appointed a Distinguished Professor and Chair at

Zhejiang University. He was elected as a Member of European Academy of Sciences. Professor Xu has a distinguished track record in vascular research, having made seminal observations. He has been at the forefront in elucidating the role of vascular stem cells in atherogenesis and the biology of the vessel wall. He has a prominent international profile in vascular biology as evidenced by numerous invited lectures at national and international scientific meetings, chairing of many research conferences, service on the editorial boards of eminent journals, and membership of national and international committees. Professor Xu has been honoured with the Austrian Cardinal Prize for Medicine in 1993 and the Rokitansky Prize for Pathology in 1995. Professor Xu's original work has thus contributed to vascular medicine, as indicated by his publication list. More than 70 papers have >100 citations and his H-index is 95.



Stefanie DIMMELER

Professor Experimental Medicine and Director,
Institute for Cardiovascular Regeneration, University of Frankfurt

Stefanie Dimmeler is born on 18.07.1967 in Ravensburg, Germany. Dr. Dimmeler received her under-graduate, graduate, and Ph.D. degree from the University of Konstanz in Konstanz (Germany) and then completed a fellowship in Experimental Surgery at the University of Cologne and in Molecular Cardiology at the University of Frankfurt (Germany). She is Professor of Experimental

Medicine (since 2001) and Director of the Institute for Cardiovascular Regeneration, Center for Molecular Medicine at the University of Frankfurt since 2008.

In the last years, she has been invited as a speaker in more than 300 national and international meetings and seminars and has presented various keynote lectures. She also received several awards, is among the top 2 female Scientists in Germany and received the honorary doctorate of the University of Bern in 2023.

She is also spokesperson of the “Cardiopulmonary Institute” (CPI) which is funded by the Excellence Strategy Program of the German Research Foundation and spokesperson of the German Center for Cardiovascular Research (DZHK). She also received three Advanced Investigator Grants by the European Research Community (ERC).

Her group elucidates the basic mechanisms underlying cardiovascular disease and vessel growth with the aim to develop new cellular and pharmacological therapies for improving the treatment of cardiovascular disease. Ongoing research focuses on epigenetic mechanisms that control cardiovascular repair, specifically non-coding RNAs.



Hellmut AUGUSTIN

Professor, Department of Vascular Biology, Heidelberg University

Hellmut G. Augustin is Professor of Vascular Biology at the Medical Faculty Mannheim of Heidelberg University, Head of the Division for Vascular Oncology and Metastasis Research at the German Cancer Research Center (DKFZ), and Managing Director of the European Center for Angioscience at Heidelberg University, Germany. Trained as a Veterinary Pathologist (Hannover, Germany) and as PhD in Experimental Pathology (Cornell University, USA), he worked

previously as Assistant Professor at the University of Göttingen, Germany and as Department Head at the Tumor Biology Center in Freiburg, Germany. He is the Speaker of the Collaborative Research Center “Vascular Control of Organ Function” (www.sfb1366.de) and Chairman of VWFB e.V. (www.vwfb.de), host of the Kloster Seelon Meetings on Angiogenesis.

The Augustin lab (www.augustinlab.de) studies angiocrine signaling mechanisms and organotypic vascular functional differentiation during the life cycle of a vasculature (blood vessel formation, assembly, maturation, quiescence, regression, aging) with a particular focus on tumor–vessel interactions that govern tumor progression and metastasis. Basic discovery research feeds translational research with the goal of identifying and validating novel therapeutic targets as well as laying the preclinical proof-of-concept for novel treatment modalities and therapeutic windows, including neoadjuvant and adjuvant therapy.



Yu HUANG

Head and Chair Professor of Biomedical Sciences and
Vascular Biology Jeanie Hu Professorship in Biomedical Sciences,
City University of Hong Kong

Yu HUANG is Jeanie Hu Professor of Biomedical Sciences and Chair Professor of Biomedical Sciences and Vascular Biology at City University of Hong Kong, where he leads the Department of Biomedical Sciences. He received a BSc degree from Fudan University Shanghai Medical College and a PhD from the

University of Cambridge. Prior to joining CityU in 2021, he was a A3 Professor of Biomedical Sciences at Chinese University of Hong Kong and the founding Director (Basic Sciences) of the Heart and Vascular Institute. He has been elected as a Foreign Member of Academia Europaea in 2025.

The aim of Huang’s team is to investigate the cellular and molecular processes that cause endothelial cell dysfunction in high blood pressure, obesity and diabetes. They also aim to find new biomarkers for vascular disease and to discover ways to reverse vascular dysfunction in animal models of cardio-metabolic disorders. He has co-authored 524 publications in SCI-indexed journals including Nature, Science, Cell Metabolism, Circulation Research, European Heart Journal, PNAS, Diabetes, Hypertension, ATVB, Stroke, Kidney International, etc. His work has earned him over 37,420 citations on Google Scholar (an h-index of 100). He is one of the Stanford’s list of world’s top 2% most highly cited scientists, both career-long and single year for 2020, 2021, 2022, 2023 (318/94,611 top 0.3% in Pharmacology & Pharmacy for 2020; 273/131,949 top 0.2% in Pharmacology & Pharmacy for 2021; 318/134,745 top 0.2% in Pharmacology & Pharmacy for 2022; 1,505/210,400 top 0.7% in Cardiovascular System & Hematology for 2023).



Nicola SMART

Professor, Department of Physiology Anatomy & Genetics, University of Oxford

Nicola Smart is a Professor of Cardiovascular Science at the Institute of Developmental and Regenerative Medicine, within the Department of Physiology Anatomy & Genetics, University of Oxford. After obtaining her PhD from the University of London, Nicola undertook post-doctoral research at King's College London and the UCL-Institute of Child Health, before relocating

to Oxford in 2012. From 2011–2024, Nicola was the recipient of the British Heart Foundation (BHF) Ian Fleming Fellowship, funded by the family of the James Bond author in support of the work of the BHF. Nicola was awarded the inaugural BHF Research Fellow of the Year in 2011 and the British Cardiovascular Society's Michael Davies Early Career Award in 2012, in recognition of her research on reactivating embryonic mechanisms to regenerate the mammalian heart. Nicola's research continues to focus on understanding how to manipulate reparative responses and promote vessel growth and stability, based on insights from embryonic cardiovascular development. Her work revealing mechanisms impacting smooth muscle phenotype in aortic disease was recognized by the 2021 John French Prize Lecture from the British Atherosclerosis Society. Alongside research, Nicola is a Fellow and college tutor in Pre-clinical Medicine at Christ Church, Oxford.



Thomas BRAUN

Director, Max Planck Institute for Heart and Lung Research

Thomas Braun MD, PhD, Max-Planck-Institute for Heart and Lung Research, Bad Nauheim, Germany

Thomas Braun is director at the Max-Planck-Institute for Heart and Lung Research, Bad Nauheim, Germany and Professor of Medicine at the Justus-Liebig-University Giessen, Germany. He studied medicine and philosophy at the Universities of Göttingen and Hamburg, where he

obtained his MD and MD PhD. After postdoctoral training in Hamburg and in Boston in the lab of Rudolf Jaenisch at the Whitehead Institute, MIT, he became group leader at the Technical University of Braunschweig in 1992 before he moved to an associate professor position at the University of Würzburg in 1996. Thereafter, he was appointed full professor and chair of Physiological Chemistry at the University of Halle-Wittenberg and was Dean for Research of the Medical Faculty. In 2004 he was recruited by the Max-Planck-Society as founding director of the newly established Max-Planck-Institute for Heart and Lung Research in Bad Nauheim. Since 2004 he is also Professor of Medicine at the University of Giessen, Germany. So far, he has published more than 400 papers in leading journals including Nature, Science, Nature Medicine, Nature Immunology Cell, Cell Stem Cell, Developmental Cell, Cell Metabolism, EMBO J, Circulation, Circ. Res. and others. His primary research currently focuses on the mechanisms driving skeletal and cardiac muscle development, regeneration and remodeling. Selected scientific breakthroughs include cloning and characterization of myogenic regulatory factors that control cell lineage commitment, epigenetic regulation of stem cells and tissue regeneration, disclosure of a new mechanism promoting asthma, discovery of novel factors controlling trafficking of immune cells in the diseased heart, reprogramming of cardiomyocytes for heart regeneration, and delineation of mechanisms connecting metabolic processes in skeletal and heart muscle cells with epigenetically driven changes in gene expression. He serves on various committees and advisory boards in Germany and abroad. He is an elected member of the German National Academy of Science, Leopoldina and the Academy of Europe and is editorial board member of several journals. Furthermore, he is in the steering board of several national and international research consortia and director of the Cardiopulmonary Institute Frankfurt, Bad Nauheim, Giessen. In 2025 Thomas Braun served as STEM Visiting Professor at the Chinese University of Hong Kong and was appointed as Advisory Professor at HUST, Wuhan, China.



Yibin WANG

Director, Programme in Cardiovascular and Metabolic Disorders,
Duke–NUS Medical School

Dr. Yibin Wang is the distinguished Professor of Tanoto Foundation in Diabetes and Director of Signature Research Program in Cardiovascular and Metabolic Diseases at DukeNUS Medical School, Singapore, Senior PI at National Heart Center of Singapore, Professor of Medicine at Duke University School of Medicine, Durham USA.

Dr. Wang received his Ph.D. in molecular genetics and cell biology from Baylor College of Medicine, Houston, Texas, and post-doctoral training in neurobiology and molecular cardiology at The Scripps Research Institute and University of California at San Diego. Dr. Wang's research mainly focuses on genetic basis and molecular mechanisms of heart failure and metabolic disorders, with more than 285 peer-reviewed publications in many leading journals in the field with an H-index of 96 (Google Scholar). Dr. Wang has been ranked in top 2% most impactful scientists globally. His main research accomplishments include dissection of stress-signaling in heart diseases, discovery novel regulators of cardiometabolic regulation through systems genetic approaches, and more recently on amino acid signaling and regulation, and nutrient signaling in cardiometabolic diseases. Currently, he is the lead PI of project MAGNET, a large-collaborative research grant (OF-LCG) on mechanistic investigation and clinical innovation for sarcopenia. His original discoveries led to several clinical trials for heart failure. He currently serves as an Associate Editor for Cardiovascular Research, Journal of Molecular and Cellular Cardiology, and JACC, Asia, a guest Associate Editor for Circulation and a member of the editorial board for Circulation Research and Journal of Biological Chemistry. Dr. Wang has supervised more than 30 Ph.D. students. Dr. Wang received an Established Investigator Award from American Heart Association and was the Thomas Smith Memorial Lecturer at 2016 American Heart Association Scientific Session. Dr. Wang was the recipient of 2021 Excellence in Educational Innovation Award from UCLA College of Life Science, as well as the 2023 Basic Research Prize of American Heart Association. Dr. Wang holds 6 patents including four licensed, and he is the scientific founder and member of several start-up biotech companies and served as scientific advisor and consult for Eli Lilly, Boehringer Ingelheim, Merck, Amgen, and he was the recipient of a Pfizer Discovery Research Grant.



Randolph WONG

Professor and Chief of the Division of Cardiothoracic Surgery,
Department of Surgery,
The Chinese University of Hong Kong

Dr Randolph Hung-leung WONG received medical training from Medical School of The Chinese University of Hong Kong since 1995. He received Tang Siu Cho Memorial Prize in 1998 and obtained his MBChB (CUHK) in 2000. He undertook higher surgical training in cardiothoracic surgery in Prince of Wales Hospital,

Grantham Hospital and Queen Elizabeth Hospital and obtained FRCSEd (CTh) from The Royal College of Surgeons of Edinburgh in 2008. He further obtained Fellow of The College of Surgeons of Hong Kong and Fellow of Hong Kong Academy of Medicine in 2009.

Dr Wong's career interests include complex open aortic surgery including total arch replacement and frozen elephant trunk procedure and open thoracoabdominal aortic surgery, hybrid thoracic aortic intervention, hybrid and minimally invasive cardiovascular procedures. He is the convener of Hybrid Operating Theatre management committee of Prince of Wales Hospital and actively participates in the development of hybrid cardiovascular interventions.

Academically, Dr Wong's research interests are the techniques in improving outcomes of complex aortic procedures, screening for thoracic aortic aneurysm, genetic basis of aortic pathology as well as hybrid endovascular intervention for cardiovascular diseases. He contributed over 150 publications in peer-reviewed journals including Circulation, JACC, CHEST, Journal of Thoracic and Cardiovascular Surgery and Annals of Thoracic Surgery, 8 book chapters and more than 140 invited talks. He is now review editor of Frontier in Cardiovascular Medicine (IF 6.06). He has been regular reviewer of CHEST, HEART, Journal of Cardiac Surgery, Journal of Thoracic Disease, European Journal of Cardiothoracic Surgery and Interactive CardioVascular and Thoracic Surgery.

Currently, Dr Wong is the Professor and Chief of the Division of Cardiothoracic Surgery, Department of Surgery, the Chinese University of Hong Kong. He is also the Cluster Service Team Head of the New Territories East Cluster and Ex-Chairman of the Specialty Group of Cardiothoracic Surgery of Hospital Authority. He is the Secretary of Cardiothoracic Surgery Board of Hong Kong, a Councillor of College of Surgeons of Hong Kong, and a Fellow of American College of Chest Physician, European Association of Cardio-Thoracic Society and member of American Heart Association, Society of Thoracic Surgeons, International Society of Minimally Invasive Cardiothoracic Surgery and Asian Society for Cardiovascular and Thoracic Surgery.



Yu NIE

Principal Investigator and PhD advisor, Fuwai Hospital,
National Center for Cardiovascular Disease,
Peking Union Medical College

Yu Nie is a Principal Investigator and Ph.D. advisor at Fuwai Hospital, the National Key Laboratory of Cardiovascular Diseases, Peking Union Medical College. His research focuses on cardiac regeneration and repair, as well as cardiomyocyte proliferation. In recent years, he has published 32 papers as a

corresponding author in prestigious journals, including *Circulation* (2019, 2020, 2023, 2024), *Cell Stem Cell* (2025), *Nat Commun* (2025), *Sci Adv* (2025). More information can be found on their laboratory website: <https://www.nieyulab.com>



Sean WU

Associate Director, Cardiovascular Institute, Stanford University

Dr. Sean Wu is recognized internationally for his scientific discoveries in the transcriptional regulation of cardiac development and the application of high throughput technologies to understand heart development and disease. He completed his undergraduate degrees in biological sciences and mechanical engineering at Stanford University, his MD-PhD and medical residency training at Duke University School of Medicine and then completed a clinical and research fellowship in adult cardiology at Massachusetts General

Hospital/Harvard Medical School and a research fellowship at Boston Children's Hospital. He was an Assistant Professor of Medicine at the Cardiovascular Research Center at MGH before joining the faculty at Stanford University School of Medicine in 2012 where is now Professor Medicine and, by courtesy, Pediatrics, the Joan and Sanford I Weil Scholar and Associate Director of the Stanford Cardiovascular Institute as well as the Senior Vice Chair for Academic Affairs in the Department of Medicine at Stanford University School of Medicine. His laboratory has contributed significantly to the cardiac regenerative medicine and stem cell biology fields where his work has been funded by the NIH Director's New Innovator Award, NIH Director's Pioneer Award, the California Institute of Regenerative Medicine, the NHLBI Progenitor Cell Biology Consortium, and is currently supported by the NIGMS RM1 Multidisciplinary Collaborative Grant, ARPA-H, multiple-PI and collaborative MPI NIH R01 grants, the NSF-RECODE, and the Additional Venture Foundation, among others.

In addition to his research efforts, Dr. Wu has served on many editorial boards for journals such as *Circulation Research*, *Current Cardiology Report*, and as the Editor-in-Chief of the journal *Current Treatment Options in Cardiovascular Medicine*. He has also participated in more than 40 different grant review panels was recently a standing member of NIH Bioengineering Technology and Surgical Sciences study section. He has given more than 140 invited seminars, plenary lectures, and visiting professorships both nationally and internationally. Furthermore, he has served as the organizer or a member of the organizing committee for many scientific conferences such as the NIH/NHLBI Symposium on Cardiovascular Regenerative Medicine in 2011 and 2013, the 2015 Weinstein Cardiovascular Development Conference, and the Keystone Symposium on Cardiac Development and Disease: From Genes to Cures in 2023. Over the past 17 years, his laboratory has trained more than 95 individuals including 35 post-doctoral and 30 pre-doctoral fellows.



Hui ZHAO

Professor, School of Biomedical Sciences,
The Chinese University of Hong Kong

Prof. Hui Zhao received his Bachelor's Degree from Shandong University and completed his Ph.D. at the University of Essen, Germany. He subsequently undertook postdoctoral training at Eunice Kennedy Shriver National Institute of Child Health and Human Development before joining The Chinese University of Hong Kong in 2008. His research focuses on early embryonic patterning,

genome editing, and cardiac development and regeneration. The Zhao laboratory investigates the mechanisms underlying neural crest differentiation, germ layer formation, and cell migration, and how these processes collectively shape embryonic patterning. Prof. Zhao is particularly passionate about tissue regeneration and approaches this phenomenon through comparative studies across multiple species, including zebrafish, *Xenopus laevis*, *Xenopus tropicalis*, and mouse.

He has published over 140 papers in leading journals, including *Sci Adv*, *Nat Commun*, *PNAS*, *Development*, and *EMBO J*. His research is supported by major funding agencies such as the Ministry of Science and Technology, the National Natural Science Foundation of China, the Research Grants Council of Hong Kong, and the Innovation and Technology Fund.



Li ZHANG

Professor, School of Medicine, Shanghai Jiao Tong University

Dr. Li Zhang received his PhD from King's College London, University of London, UK (2008). He is currently Professor of Medicine of Shanghai Jiao Tong University School of Medicine, Vice President of Xinhua Hospital Affiliated to Shanghai Jiao Tong University School of Medicine, Chief of Cardiology Department at Xinhua Hospital Affiliated to Shanghai Jiao Tong University School of Medicine and Deputy Director of the Institute of Cardiovascular Developmental and Regenerative.

Atherosclerosis is the underlying cause of cardiovascular diseases, which is still the number one killer. Growing evidence indicates that Stem/progenitor cells (SPCs) play a crucial role in the development of atherosclerosis and heart disease. Using various mouse models and human tissue samples, Zhang's Lab is studying the contribution of SPCs to the pathogenesis of atherosclerosis, uncovering the novel mechanisms of SPC differentiation into endothelial and smooth muscle cells, and investigating a potential use of stem cell therapy for vascular disease. The long-term research interests are to uncover the critical signal pathways that govern vascular development, identify the key molecules that control cardiovascular disease progression, and further develop them into a more effective therapeutic for cardiovascular disease.

Dr. Zhang is also a practicing interventional cardiologist with a special interest in Acute Myocardial Infarction, Chronic Total Occlusion PCI and Structure heart disease interventional treatment (TAVR and TEER). His background as a clinical cardiologist meant that much of his research had a translational outlook and could ultimately lead to the development of much needed new therapies.

Dr. Zhang has published ~ 80 peer-reviewed papers including Circulation, Circulation Research and Cell Stem Cells etc. He is the Executive Committee Member of Chinese College of Cardiovascular Physicians in Chinese Medical Doctor Association and the Fellow of the American Heart Association, European Society of Cardiology and the American College of Cardiology. He is on the Editorial Boards of Chinese Medical Journal, Chinese Journal of Cardiology, and Chinese Journal of Interventional Cardiology.



Kathryn CHEAH

Emerita Chair of Biochemistry and Professor,
School of Biomedical Sciences, The University of Hong Kong

Professor Kathryn Cheah is Emerita Chair of Biochemistry and Professor at the School of Biomedical Sciences, The University of Hong Kong. She obtained her BSc Hons and PhD from London University and Cambridge University respectively. After postdoctoral training in the UK, she joined the University of Hong Kong in 1983 and was appointed Chair Professor in 1997. She has

received numerous honours, including the Croucher Foundation Senior Fellowship and the Jimmy & Emily Tang Endowed Professorship in Molecular Genetics. She has been honored by election as a Fellow of The World Academy of Sciences and a Member of the Hong Kong Academy of Sciences. In 2023, in recognition of research excellence and outstanding achievements, she was elected an Associate Member of the European Molecular Biology Organisation (EMBO, <https://www.embo.org/about-embo/membership/>). She received the British Society for Matrix Biology Medal Lecture 2022 for her contributions to matrix biology.

As a developmental geneticist and stem cell biologist, her research focuses on genomic and regenerative medicine, particularly in ageing, skeletal system disorders, and the inner ear. She has published research articles in leading international journals such as Nature, Nature Genetics, eLife, Proceedings of the National Academy of Sciences (USA), Journal of Clinical Investigation etc. Professor Cheah's discoveries provide a regulatory framework underpinning the complex physiology of healthy bone and associated disorders. She also discovered master regulators of inner ear development with significance for understanding hearing loss.

Professor Cheah is active in various scientific leadership roles, including panel memberships for the Hong Kong Health and Medical Research Fund, Hong Kong Science and Technology Park Biomedical Tech Incubation Programme and the Hong Kong University Grants Council Research Assessment Biology panel. She also serves on the Gordon Research Conferences (USA) Evaluation Committee. She is Senior Editor for the journal eLife, serves on the Editorial Boards of Emerging Topics in Life Sciences, Scientific Reports and is on the Advisory Board of Natural Sciences. She serves on the Gordon Research Conferences (GRC) Board of Trustees Conference Evaluation Committee. She is co-Vice-Chair and Co-Chair of the GRC on Developmental Biology for 2025 and 2027 respectively.

Passionate about science communication, she organised Advanced Study Institutes, the Future Science Prize Symposium 2024, and other international symposia contributing to advancing Hong Kong's international scientific profile. In 2023, she successfully led the bid to bring the 2025 Annual Meeting of the International Society for Stem Cell Research (ISSCR) "Illuminating the Future" to Hong Kong (<https://www.isscr2025.org/>), a gathering of almost 5000 brightest minds in stem cell research from across the globe. She was co-Chair with Eugenia Piddini of the ISSCR 2025 program committee. She was also co-Chair of the ISSCR 2025 one-day public outreach symposium entitled "Innovating the Future: The Power of Stem Cells for Medicine and Biotechnology" on Stem Cells on June 10th, 2025, immediately before the ISSCR 2025 meeting.



Xiao Yu TIAN

Associate Professor, School of Biomedical Sciences,
The Chinese University of Hong Kong

Prof. TIAN Xiaoyu (田小雨) is an Associate Professor of the School of Biomedical Sciences, The Chinese University of Hong Kong (CUHK). She received PhD from CUHK Department of Physiology. During her PhD, she studied the therapeutic effect of PPARs on vascular dysfunction in hypertension and type 2 diabetes, and mitochondrial oxidative stress in endothelial cell function. After graduation, she

continued as a postdoctoral fellow in the Cardiovascular Research Institute, the University of California San Francisco, studying macrophage dynamics in obesity-induced adipose tissue inflammation, and also in the atherosclerosis. She later joined CUHK again as Research Assistant Professor in 2015, and is Assistant Professor from 2017 to 2023. Her current research interests include the regulation of vascular cell function by circadian genes, endothelial cell regulation during vascular inflammation and atherosclerosis, etc.



Yevgeniya NUSINOVICH

Senior Editor, Science

Yevgeniya Nusinovich, M.D., Ph.D., is a Senior Editor at Science, currently handling research papers on cardiology, metabolism, reproduction, medical genomics, medical applications of AI, some bioengineering, and a selection of other biomedical topics. Before coming to Science in 2020, Yevgeniya spent more than eight years as an editor at Science's sister journal Science Translational Medicine, where she also handled papers on a wide range of

topics, including cancer, reproduction, endocrinology, and other areas as needed. She had completed her undergraduate training at MIT, double majoring in biology and chemistry. Her M.D. and her Ph.D. in molecular medicine were both from George Washington University, and she completed a residency in pediatrics and worked with patients at Children's National Hospital in Washington, DC, before fully switching to an editorial career.



Wai Ho TANG

Professor, School of Nursing and Health Sciences,
Hong Kong Metropolitan University

Dr Tang received his PhD in the LKS Faculty of Medicine from the University of Hong Kong. He was then awarded American Heart Association Postdoctoral Fellowship to continue studies at Yale University Cardiovascular Research Center in the United States. Dr Tang is the Head of the Department of Diagnostic Sciences and Professor of the School of Nursing and Health

Sciences at Hong Kong Metropolitan University. He also serves as Principal Investigator at Guangzhou Medical University. His laboratory has been focusing on the platelet heterogeneity in cardiovascular diseases. He has also been investigating the mechanism underlying the intercellular transfer of platelet microRNAs and their potential application as biomarkers for disease. His research has been supported by the National Natural Science Foundation of China, the Guangdong Natural Science Foundation, and the Hong Kong University Grants Committee etc.



Wei KONG

Professor, Dean of the School of Basic Medical Science,
Chair of the Department of Physiology and Pathophysiology,
Peking University

Wei Kong, M.D., Ph.D., Professor, Dean of the School of Basic Medical Science, and Chair of the Department of Physiology and Pathophysiology at Peking University Health Science Center. Professor Kong was awarded as Distinguished Young Scholars from National Natural Science Foundation of

China (NSFC), the Yangtze River Scholars Distinguished Professor, the Leading Talent of "Ten Thousand Plan", and the Fellow of the International Society for Heart Research (FISHR). She also leads multiple scientific research projects, including the Innovative Research Group, Key Program, International Cooperation Program from NSFC and the Ministry of Science and Technology. Her research investigates the regulation of microenvironment in vascular homeostasis and diseases (atherosclerosis, vascular calcification, and aortic aneurysms/dissections), particularly focusing on the role of the extracellular matrix (ECM) and G Protein Coupled Receptors (GPCRs). The laboratory has published over 160 papers in journals such as Nature, Nature Reviews Cardiology, Circulation, and European Heart Journal. Professor Kong is an Associate Editor for American Journal of Physiology-Cell Physiology and serves on the editorial boards of Circulation Research and Matrix Biology.



Owen KO

Associate Professor, Department of Medicine and Therapeutics,
The Chinese University of Hong Kong

Ho Ko is a clinician–scientist at the Chinese University of Hong Kong (CUHK). He holds a Bachelor of Medical Sciences, a Bachelor of Medicine and Bachelor of Surgery (MBChB) from CUHK, and a PhD in neuroscience from UCL. In his early career, he advanced our understanding of the physical basis of sensory perception by uncovering several fundamental rules governing the connections between

neurons. After medical training, his current research employs preclinical and clinical approaches to investigate the neural circuit and molecular mechanisms underlying nervous system dysfunction in aging and neurodegeneration, with the aim of guiding the development of disease–modifying therapeutics.



Rio SUGIMURA

Assistant Professor, School of Biomedical Sciences,
The University of Hong Kong

Dr Rio Sugimura is recognized for his outstanding contributions to the field of hematology, immunology, and stem cell biology. His lab has two branches. One focuses on understanding the optimal structure and induction strategies of CAR in immune cells from human pluripotent stem cells at HKSTP. The other is on dissecting fundamental mechanisms of human immune cell development and the

role of checkpoints using single–cell multi–omics approach, Tumors-on–Chips, and assembloids at HKUMed. Dr Sugimura is a Director of the Blood Engineering Laboratory, a Principal Investigator of the Centre for Translational Stem Cell Biology, and an Assistant Professor of HKUMed. He is an expert in stem cell differentiation, organoids, singlecell technology, and synthetic biology. He has received the Genius Award from the Japanese Young Hematologist Society, the Young Investigator Competition Award from Karger, the Gilead Liver Disease Program, and the March of Dimes Scholar. He holds HKU Deeptech 100 from iDendron and HKSTP to support his spin–off SynHealer.



Ronald WANG

Professor, Department of Obstetrics and Gynaecology,
The Chinese University of Hong Kong

Dr Tang received his PhD in the LKS Faculty of Medicine from the University of Dr. Wang Chi Chiu is currently a Professor, Deputy Director of Prenatal Genetic Diagnosis Centre, and Division Head of Department of Obstetrics & Gynaecology at The Chinese University of Hong Kong. Dr. Wang joined the department after his MBBS degree with honours in 1994, and in 1998 and 2011 he received his first PhD

in Surgical Sciences from the Chinese University of Hong Kong and his second PhD in Genetics from Japan National Institute of Genetics. Dr. Wang has major research focus in studying reproduction, development and genetics. With wide range of experience in clinical and medical research and teaching, Dr. Wang was appointed to the editorial boards and review panels of many important research funding agents and journals. Dr. Wang has worked on many research projects received a total of over 42 external and 68 external projects and filed 24 patents. He has published over 42 book chapters, 325 ISI articles on many acclaimed journals including JAMA, Ann Int Med, Adv Sci, Nat Cell Biol, Nat Commun, Gene Dev, Cell Research, PNAS, Hum Reprod Update, Angiogenesis, J Biol Chem, FRBM, Mol Hum Reprod, Hum Reprod, and Fertil Steril. His success in O&G research has earned him multiple local and international scholarships and awards. He is also reviewer of JAMA, BMJ, Lancet, Nat Commun, PNAS, Angiogenesis, Hum Reprod, Fertil Steril, BJOG, FRBM, FASEB, J Path, Development, Physiol Genomics, etc

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Cyagen offers premium cell lines and transgenic mouse models for cardiovascular researchers. With a commitment to quality, their reliable cell lines and mice models aid researchers in understanding the cardiovascular diseases, developing innovative therapies to them

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Enzo – All your small molecules

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Cardiovascular
Research

Tumor
Research

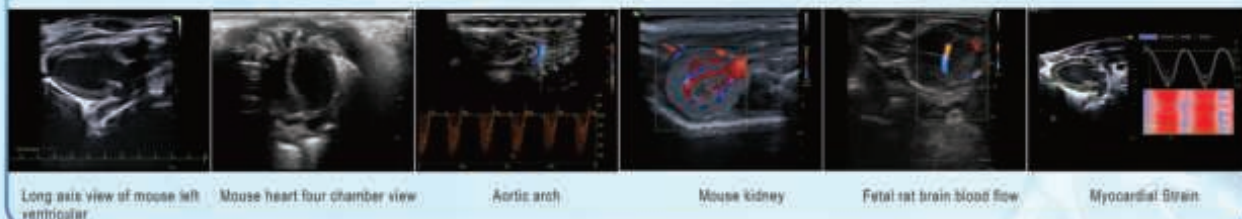
Abdominal
Organs
Research

Reproductive
Development
Research

Evaluation of
Drug Efficacy
and Safety

Digestive
System
Research

Application Cases



Vernon Probes

The probes of our system are VERMON high frequency probes from France

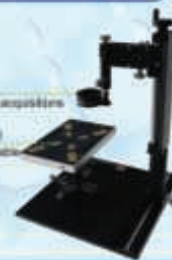


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The Imaging Station is custom-designed for handling monitoring, and optimal positioning of small laboratory animals.

MOTION ARM
For precise and stable acquisitions

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Some Users



Service

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3. Translatomics
4. Exosomal multi-omics
5. 16S/metagenomics
6. Whole transcriptome sequencing
7. Glycosylated RNA sequencing
8. Nucleic acid-protein interaction group sequencing
9. MIRNA, PIRNA, TSRNA measurement
10. RNA-chromatin interaction sequencing (RADICL-SEQ)

◆ Calculation, storage

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2. NAS Storage, PB-Level Distributed Storage
3. High-Elasticity Computing Services
4. Bioinformatics Workflow Deployment

Reagents



Instrument



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About us

Shanghai Model Organisms Center, Inc. (SMOC) was founded in September 2000. Under our motto, "Editing genes, decoding the mysteries of life, we focus on life science research and pharmacy discovery." Our core innovation is driven by cutting-edge technologies, including CRISPR/Cas9-based gene editing and embryonic stem (ES) cell-based gene targeting.

We have established versatile platforms dedicated to the genetic engineering of mice and rats, phenotypic analysis, drug screening, and clinical evaluation. Additionally, we maintain a comprehensive gene bank designed for the development of humanized models. To date, we have developed more than 20,000 custom genetically engineered models to support genetic research and drug discovery. These models are instrumental in researching therapeutics for cancer, neurodegenerative diseases, metabolic disorders, inflammation, and rare diseases.

SMOC has established strategic partnerships with academic laboratories, research institutes, hospitals, and renowned pharmaceutical and CRO companies specializing in biotech-based drug research.



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- Humanized
- Immunodeficient
- Tumor
- Metabolic
- Cardiovascular
- Infectious diseases
- Autoimmune
- CNS disease
- Rare disease



Model Customization

- KO/CKO
- KI
- Point mutation
- Targeted overexpression
- Random transgenic



Breeding Service

- Genotyping
- Phenotype Analysis
- Breeding Management
- Rapid Breeding Service
- Cryopreservation & Cryorecovery
- Leasing/Hosting Service



CRO Service

- Oncology Efficacy Evaluation Service
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Shanghai Model Organisms Center offers a vast repository of model organisms as well as custom models designed according to your research needs. Contact us or visit our website for an Inquiry.



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Miltenyi Biotec

Cell Separation

MACS Magnetic beads
MACS Separator



Sample Preparation

gentleMACS
Dissociator
MACS Tissue
dissociation kit



Flow Analysis & Sorting

Flow Antibody
MACSQuant Analyzer
MACSQuant Tyto
Sorter



Cell Culture & Activation

MACS Culture
medium
Small molecules
Cytokines



Imaging

MACSima Imaging
Platform
UltraMicroscope
Blaze



Cell Manufacturing

CliniMACS Prodigy
Platform



Application	Product
PBMC Isolation	PBMC Isolation Kit, StemMACS Cryo-Brew
HSC Expansion	HSC Expansion Media, HSC Expansion Cocktail
iPSC Purification	Pluripotent Stem Cell MicroBeads, Anti-TRA-1-60 MicroBeads, Anti-SSEA-4 MicroBeads, StemMACS PSC-Support XF
iPSC Culture	StemMACS iPS-Brew XF, StemMACS PSC-Brew, MACSmatrix Laminin 511, StemMACS Passaging Solution, Y27632, Thiazovivin
iPSC Characterization	TRA-1-60 Antibody, SSEA-4 Antibody, Sox2 Antibody, Oct3/4 Isoform A Antibody, StemMACS Trilineage Differentiation kit, CD144 (VE-Cadherin) Antibody, CS140b (VE-Cadherin) Antibody, CD184 (CXCR4) Antibody, Sox17 Antibody, PAX-6 Antibody
iPSC Differentiation	CardioDiff kit, Cardiac Cultivation Medium, PSC-Derived Cardiomyocyte Isolation Kit, CHIR99021, IWR-1-endo, IWP2
Cardiomyocyte Characterization	Anti- α -Actinin (Sarcomeric), Cardiac Troponin T Antibody, MLC2a Antibody, MLC2v Antibody
Mouse Heart Dissociation	Neonatal Heart Dissociation Kit, Neonatal Cardiomyocyte Isolation Kit, Neonatal Cardiac Fibroblast Isolation Kit, Neonatal Cardiac Endothelial Cell Isolation Kit, Red blood cell lysis solution (10x), Heart Perfusion Kit, Multi Tissue Dissociation Kit 2



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