中国 · 上海
2025年6月25–27日

SHANGHAI, CHINA
JUNE 25-27, 2025

2ND INTERNATIONAL CONFERENCE OF ADVANCED MEDICAL ENGINEERING

http://i-came2025.com/

# I-CAME2025

# 第二届国际先进医学工程大会

## THE 2ND INTERNATIONAL CONFERENCE OF ADVANCED MEDICAL ENGINEERING

# PROGRAM 会议手册

**主办单位**

先进纤维材料全国重点实验室
东华大学生物与医学工程学院
上海中侨职业技术大学食品药品学院
湖南大学材料科学与工程学院

**SPONSORED BY**

State Key Laboratory of Advanced Fiber Materials
College of Biological Science and Medical Engineering, Donghua University
School of Food and Pharmacy, Shanghai Zhongqiao Vocational and Technical University
College of Materials Science & Engineering, Hunan University

# Welcome Words

**Dear Colleagues and Friends:**

We are pleased to welcome you to the 2nd International Conference of Advanced Medical Engineering (I-CAME2025) with Special 70th Celebration in Shanghai, China.
International Congress of Advanced Medical Engineering (I-CAME) was initiated by Prof. Teoh Swee Hin in 2023, The 1st International Congress of Advanced Medical Engineering was held in Changsha, China,

The 2nd International Conference on Advances in Medical Engineering (I-CAME2025) aims to strengthen these multidisciplinary partnerships, uniting engineers, clinicians, and researchers from across the globe for high-level scientific exchange. We have invited more than 90 speakers and more than 24 are from overseas. We have plenary speakers such as Prof Wong Tein a renowned expert in ophthalmology, and Dean Medical School Tsinghua, Prof J Vacanti from Boston Children's Hospital to name a few to inspire us. This year's conference will also spotlight entrepreneurship, with E-Awards recognizing outstanding young professionals driving innovation.

Despite global challenges, I-CAME2025 stands as a testament to the power of international collaboration in advancing medical science. Join us to share ideas, forge partnerships, and shape the future of healthcare innovation.

## On Behalf of the Organizing Committee Chair of I-CAME2025

**Prof. Swee Hin Teoh**

**Prof. Xiumei Mo**



## Scientific Committee:

Chairman: Changsheng Liu, Wong Tien Yin

Members:

Yanan Du, Hanry Yu, Joseph Vacanti, Xiahua Zhou, Changyou Gao, Bian Liming, Goh Bee Tin, Chenjie Xu, Min Wang, ZuYong Wang, Zhou Li, Michael Wagel, Chia-Hung Chen, Jeremy Teo, Wai Yee Yeong, Xiaoyu Zhang, Xiaojing Chen, Tey Hong Liang, Liumin He, Xiaoshan Wu, Jingwei Xie, Guangyin Yuan, Ng Kee Woei, Won Jong Kim, Lei Yang, Hélder Almeida Santos, Yuan Ping, Jun Li, Chaoliang He, Ruibing Wang, Hiroyuki Ijima, Linpeng Fan, Zhengwei You, Zhigang Chen, Xiangyang Shi, Gareth R. Williams, Chaozong Liu, Shengmin Zhang, Qiqing Zhang

## Organizing Committee:

Chairman:

Prof. Teoh Swee Hin, Hunan University, China
Prof. Xiumei Mo, Donghua University, China

Members:

Associate Prof. Jinglei Wu, Donghua University, China
Prof. Xiangyang Shi, Donghua University, China
Associate Prof. Hongsheng Wang, Donghua University, China
Associate Prof. Binbin Sun, Donghua University, China

## Conference Secretariat:

Associate Prof. Binbin Sun, Donghua University, China

# 特别鸣谢

**This conference was financial supported by Universities and companies, we appreciate the following sponsors :**

| | |
|---|---|
| 先进纤维材料全国重点实验室 | STATE KEY LABORATORY OF ADVANCED FIBER MATERIALS |
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| 上海中侨职业技术大学 食品药品学院 | School of Food and Pharmacy, Shanghai Zhongqiao Vocational and Technical University |
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# CONFERENCE VENUE:

**上海富悦大酒店**
**酒店地址：中国上海市松江茸悦路208弄　邮编:201613**
**电话：(86)21 6772 7979**
**网址：www.fuyuehotel.com**

**FUYUE HOTEL SHANGHAI**
**Address: Line 208 Rongyue Road, Songjiang District, Shanghai 201613, P.R.China**
**Tel:(86)21 6772 7979**
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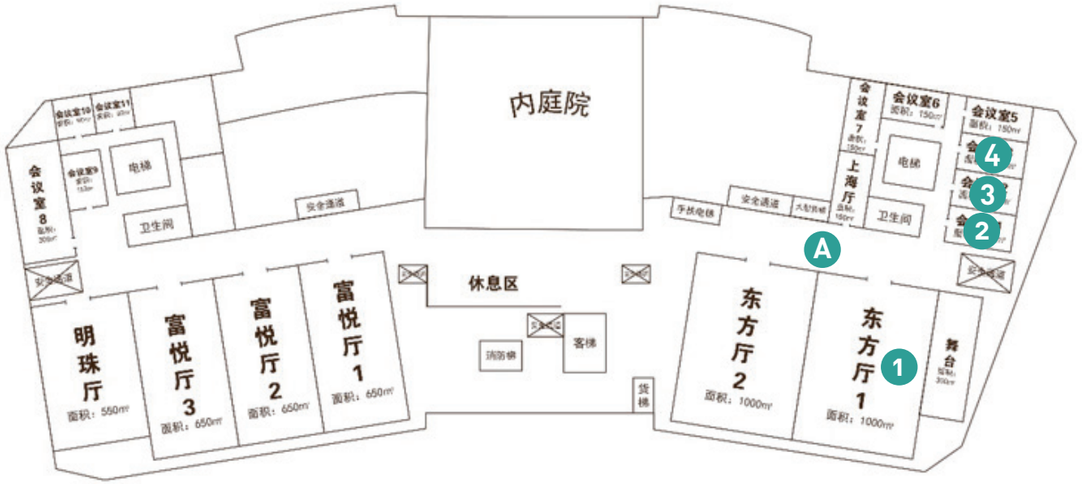
# MAP

## 3 ird Floor

三楼平面图



# MAP

## 2nd Floor

### 二楼平面图


## Conference rooms:

1. No.1 Dongfang Hall
2. No.1 Meeting room
3. No.2 Meeting room
4. No.3 Meeting room

## Booth Place:

- **A** Dongfang Hall doorway
- **B** 2nd Floor No.1 Yuegui Hall
  27th Dinner Place



# Plenary Speakers

**Prof. Changsheng LIU, Shanghai University, China**

Prof. Liu Changsheng, Academician of Chinese Academy of Sciences, has been engaged in the research of biomaterials for more than 30 years. He has developed a variety of bioactive regenerative materials and novel techniques for tissue repairing and regeneration. Under his leadership, his group has developed the artificial bones made of self-setting calcium phosphates, which was approved in clinic application. Currently, the products have been widely applied in orthopedics for bone injury. Moreover, by using genetic engineering techniques, recombinant human bone morphogenetic protein-2 (rhBMP-2) has been achieved in large-scale production, and rhBMP-2-loaded biomaterials with higher osteoinductive capacity were fabricated, promoting the repair of bone injuries. He raised new concept of materiobiology and guided frontier research of bioactive materials and creative clinic therapy. He published over 900 SCI articles such as Chemical Reviews, PNAS, Science Advances, Nature Communication, and 5 books. Because of excellent innovations and significant contributions, Dr. Liu has been awarded lots of honors including National Natural Science Award, National Science and Technology Progress Award, Ho Leung Ho Lee Foundation Innovation Award, Fellow of American Institute for Medical and Biological Engineering, Bioactive Materials Lifetime Achievement Award, etc.

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**Prof Joseph P.Vacanti, Massachusetts Gen Hospital, USA**

Prof Joseph P. Vacanti received the medical degree with high distinction from the University of Nebraska College of Medicine, Omaha, in 1974, and the M.S. degree from Harvard University, Cambridge, MA.,He is currently the John Homans Professor in Surgery at Harvard Medical School, Boston, MA. in addition, he serves as Surgeon in Chief and Chief of Pediatric Surgery at the Massachusetts General Hospital for Children, Boston. He is a Cofounder and Editor of the journal Tissue Engineering. He has been working in the field of tissue engineering since its beginnings in the early 1980s—a mission that stems from his long-held interest in solving the problem of organ shortages. His approach to developing tissue involves a scaffold made of an artificial biodegradable polymer, seeding it with living cells, and bathing it in growth factors. The cells can come from living tissue or stem cells. The cells multiply, filling up the scaffold, and growing into a 3-D tissue. Once implanted in the body, the cells recreate their proper tissue functions, blood vessels grow into the new tissue, the scaffold melts away, and lab-grown tissue becomes indistinguishable from its surroundings.,Dr. Vacanti is a member of the American College of Surgeons, American Pediatric Surgical Association, American Society of Transplant Surgeons, and Tissue Engineering Society in addition to many others. He was recently the recipient of the Thomas Sheen Award, presented by the New Jersey Chapter of the American College of Surgeons, and the John Scott Award, which was presented by the city of Philadelphia. The John Scott Award is given to “the most deserving” men and women whose inventions have contributed in some outstanding way to the “comfort, welfare, and happiness” of mankind.

**Prof. Tien Yin Wong, Tsinghua University, China**

Prof Tien Wong completed medical school at the National University of Singapore (NUS), and obtained a MPH and PhD from Johns Hopkins University, USA. He completed residency clinical training in ophthalmology at the Singapore National Eye Centre, with retinal fellowships at the University of Wisconsin, Madison, USA and the University of Sydney, Australia. Prof Wong is a physician-scientist-leader, and an internationally renowned ophthalmologist and retinal specialist. Professor Tien Yin Wong is a physician-scientist-innovator who has made significant contribution to the development and application of artificial intelligence (AI) and digital technology in medicine and healthcare, particularly to the screening, detection and prevention of eye and systemic diseases. Over nearly three decades and working in four countries (Singapore, Australia, USA, China), Tien Wong led international, multi-disciplinary teams that combined classic epidemiological studies with data science, translational-implementation-clinical studies that applied the latest advances in AI, including machine learning (ML), deep learning (DL) and generative AI (gen AI). Tien Wong has published >1500 papers with a H-index of >220 (Google Scholar). He is Highly Cited Researcher (2018, 2020, 2021, 2022, 2023, 2024). He has published major papers in AI in the top journals, including New England Journal of Medicine, JAMA, Nature Medicine, Lancet Digital Health, Nature Biomedical Imaging. For his contribution and research on AI, Tien Wong has received Singapore's President's Science Award and President's Science and Technology Award. He is an elected Fellow of the Singapore National Academy of Sciences, international (foreign) Member of U.S. National Academy of Medicine and international (corresponding) Fellow of the Australian Academy of Health and Medical Sciences.

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**Prof. Hanry Yu, National University of Singapore, Singapore**

Hanry Yu is Professor of Physiology (NUSMed), NUS-College, and Mechanobiology (MBI) at the National University of Singapore; and co-leads a cell therapy manufacturing programme (CAMP) at the MIT research entity (SMART) in Singapore. He integrates biomaterials, tissue mechanobiology and engineering, biomedical optics and AI data analytics into solutions for pharmaceutical, environmental, and recently food industries. He has trained many students and staffs in leading universities in the US and Asia; built several institutions and companies, published >250 papers, delivered >250 invited talks, and consulted for international organisations and agencies.



**Prof YaNan Du, Tsinghua University, China**

Prof Du YaNan: Professor and Vice dean in the School of Biomedical Engineering, Tsinghua University. PI in the Tsinghua-PKU Center of Life Science. His research focuses on developing Micro-engineered Cell-based Assays and Therapy Platform for drug screening, disease study and regenerative therapy.

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**Prof. Xiaohua Zhou, Peking University, China**

Xiaohua Zhou, Distinguished Professor of the Overseas High-Level Talent Recruitment Programs (Innovative Long-term Project) of the Organization Department of the CPC Central Committee, Doctoral Supervisor, Chair of the Department of Biostatistics of Peking University, PKU Distinguished Chair Professor of Beijing International Center for Mathematical Research, Vice Dean of National Institute for Regulatory Science of Drug and Medical Device of Peking University, and Vice Dean of Peking University Chongqing Research Institute for Big Data. Chair of International Biometric Society - China, Chair of the Medical Mathematics Professional Committee of the Chinese Mathematical Society, Fellow of the American Association for the Advancement of Science (AAAS), Fellow of the American Statistical Association (ASA), Fellow of the Institute of Mathematical Statistics (IMS), etc. Professor Zhou is currently the associate editor of Statistics in Medicine, and the editor-in-chief of Biostatistics & Epidemiology, the official journal of IBS-China. He has published more than 280 SCI academic papers in top international statistical and biostatistical journals such as J. R. Statist. Soc. B, Journal of the American Statistical Association, Annals of Statistics, Biometrika, Biometrics, etc., of which more than 170 are the first or corresponding authors. Professor Zhou's research focuses on statistical methods in diagnostic medicine, design and statistical methods in randomized clinical trials, causal inference methods, mathematical and statistical modeling of the occurrence and development of major epidemics, etc.

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**Professor Teoh Swee Hin, Hunan University, China**

Prof Teoh is the Founding Director and Distinguished Changjiang Chair Professor, Center for Advanced Medical Engineering (CAME) at the College of Materials Science and Engineering, Hunan University, China. He majored in Materials Engineering (B Eng with First Class Honors and PhD at Monash University in 1978 and 1982 respectively). He is a Fellow of the Institution of Engineers, Singapore.

Prof Teoh spent 30 yrs (1982-2012) at the National University of Singapore (NUS) and Co-Chaired the Graduate Program in BioEngineering (GPBE). He also Chaired the School of Chemical and Biomedical Engineering (SCBE) with a joint Professorship at the Lee Kong Chian School of Medicine (LKC Med) at Nanyang Technological University (NTU), from 2012-2021. He was awarded the prestigious NTU President's Chair Award for Educational Leadership and for his outstanding research.

He is also the Senior Mentor to the clinical scientists at the National Dental Centre of Singapore for the last 10 years. He is committed to using knowledge to benefit society. He is known for excellence in teaching, research and entrepreneurship. Professor Teoh is a global leader and pioneer in the use of 3D printing technology to manufacture clinical scaffolds for bone tissue engineering. To date, his MedTech company Osteopore Internationals has implanted more than 60,000 scaffolds worldwide. The company has been successfully listed in 2019 (ASX-Australia). His pioneering work on 3D printed scaffolding has earned him the prestigious "Golden Innovation Award" from the Far Eastern Economic Review and the "Notable Engineering Achievement Award" from the Institute of Engineers, Singapore. As part of the SG50 celebrations, he was listed as one of Singapore's leading scientists. His team also received the "2018 Patent Excellence Award" from the Intellectual Property Office of Singapore. Currently, he is focusing on biomaterials, piezoelectric bone tissue engineering and regenerative medicine with research ranging from synthetic bones, blood vessels and skin, to biomimetic bioreactors, to fish collagen, decellularized organs and effect of electromagnetic field on cells. He hopes to eventually translate them into the clinic. With more than 37 Ph.D. graduates, 270 research publications, and 22 patents and technical disclosures, Professor Teoh is a pioneer and outstanding educator with numerous teaching awards in materials science and engineering, bioengineering and translational tissue engineering and regenerative medicine.

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**Dr Michael Wagel, Princess Alexandra Hospital, Australia**

Dr Michael Wagel is a Staff Specialist Plastic and Reconstructive surgeon at the Princess Alexandra Hospital. He undertook surgical training in Adelaide, Brisbane and Perth and was awarded FRACS in plastic and reconstructive surgery in 2012. Michael interrupted training to undertake research and was awarded a PhD from the University of Queensland in 2013. His Research Higher Degree thesis evaluated the behaviour of auto-transplanted muscle to prevent late failures from re-exploration. He also completed a fellowship in hand surgery at St Vincent's Hospital in Melbourne in 2013-14. Michael hold the Academic title of Senior Lecturer at the University of Queensland. He believes the benefits of academic, commercial and clinical collaborations for patients with complex needs. He is the Director of two hospital departments responsible for the manufacture of medical devices at the point of care; the Australian Centre for Complex Integrated Surgical Solutions (ACCISS) and the Herston Biofabrication Institute (HBI). He has undertaken several first in human and subsequent clinical trials investigating bioresorbable 3D printed implants for applications in peripheral nerve, soft tissue and bone regeneration.



# Keynote Speakers

**Prof. Xiumei MO**
*Donghua University, China*

**Prof. Won Jong Kim**
*Pohang University of Science and Technology, Korea*

**Prof. Kee Woei Ng**
*Nanyang Technological University, Singapore*

**Prof. Guangyin Yuan**
*Shanghai Jiao Tong University, China*

**Prof. Liumin He**
*Sun Yat-sen University, China*

**Prof. Min Wang**
*The University of Hong Kong, China*

**Prof. Liming Bian**
*South China University of Technology, China*

**Prof. Zuyong Wang**
*Hunan University, China*

**Prof. Xiaoshan Wu**
*Xiangya Hospital, China*

**Prof. WaiYee Yeong**
*Nanyang Technological University, Singapore*

**Assistant Prof. Jeremy Teo**
*New York University, Abu Dhabi*

**Prof. Zhou Li**
*Beijing Institute of Nanoenergy and Nanosystems, China*

**Prof. Chenjie Xu**
*City University of Hong Kong , China*

**Dr. Xiaoyu Zhang**
*Editor Adv Science, Wiley, China*

**Prof. Jingwei Xie**
*University of Nebraska Medical Center, USA*

**Prof. Xiaojing Chen**
*Xiangya School of Stomotology, Central South University, China*

**Prof. Hélder A. Santos**
*University of Groningen, Netherlands*

**Prof. Qiqing Zhang**
*Institute of Biomedical Engineering, Chinese Academy of Medical Science & Peking Union Medical College*

**Prof. Goh Bee Tin**
*National Dental Centre of Singapore, Singapore*

**Associate Prof. Lei Yang**
*Zhejiang Academy of Agricultural Sciences, China*

**Prof. Changyou Gao**
*Zhejiang University, China*

**Associate Prof. Chia-Hung Chen**
*City University of Hong Kong, China*

**Prof. Jun Li**
*National University of Singapore, Singapore*

**Prof. Gareth R. Williams**
*University College London, UK*

**Prof. Michiya Matsusaki**
*Osaka University, Japan*

**Associate Prof. Tey Hong Liang**
*National Skin Centre, Nanyang Technological University, Singapore*

**Prof. Shengmin Zhang**
*Huazhong University of Science and Technology, China*

**Prof. Chaoliang He**
*Changchun Institute of Applied Chemistry, China*

**Prof. Ruibing Wang**
*University of Macau, China*

**Prof. Zhengwei You**
*Donghua university, China*

**Prof. Nuo Yu**
*Donghua university, China*

**Prof. Xiangyang Shi**
*Donghua University, China*



**Prof. Yuan Ping**
*Zhejiang University, China*

**Prof. Chaozong Liu**
*University College London, UK*

**Research Fellow Linpeng Fan**
*The University of Melbourne, Australia*

**Prof. Hiroyuki Ijima**
*Kyushu University, Fukuoka, Japan*

**Chief Executive Officer Yujing Lim**
*Osteopore Limited, Singapore*

**Dr.Leo Hwa Liang**
*National University of Singapore*

# Invited Speakers

**Prof. Qihui Zhou**
*University of Health and Rehabilitation Sciences, China*

**Associate Prof. Xi Chen**
*East China University of Science and Technology, China*

**Associate Prof. Xiaochuan Dai**
*Tsinghua University, China*

**Associate prof. Shengcai Qi**
*Fudan University. China*

**Dr. Fei Yang**
*Zhongshan Hospital Fudan University*

**Prof. Shixuan Chen**
*University of Chinese Academy of Sciences, China*

**Assistant Prof. Kun Liang**
*Nanyang Technological University, Singapore*

**Dr. Yuqing Yang**
*Hainan Western Central Hospital，China*

**Assistant Prof. Sunil Kumar Boda**
*Indian Institute of Technology (IIT) Madras, India*

**Prof. Tariq Yasin**
*Pakistan Institute of Engineering and Applied Sciences, Pakistan*

**Prof. Guoqing Pan**
*Jiangsu University, China*

**Prof. ZHAO Xin**
*Hong Kong Polytechnic University, China*

**Prof. Dongfei Liu**
*China Pharmaceutical University, China*

**Associate Chief Physician Jieliang Shen**
*Bishan Hospital of Chongqing Medical University, China*

**Associate Research Fellow Juan Wang**
*Ruijin Hospital Shanghai Jiao Tong University School of Medicine, China*

**Associate Research Fellow Liang Chen**
*Wenzhou Institute, University of Chinese Academy of Sciences, China*

**Assistant Prof. Haoyu Wang**
*Xi'an Jiaotong University, China*

**Prof. Shun Duan**
*Beijing University, China*

**Prof. Peng Li**
*Northwestern Polytechnical University, China*

**Prof. Botao Gao**
*Guangdong Academy of Sciences, China*



**Associate Prof. Yang Zhu**
*Zhejiang University, China*

**Associate Prof. Kunyu Zhang**
*South China University of Technology, China*

**Associate researcher Wentao Cao**
*Fudan University, China*

**Prof. Tonghe Zhu**
*Shanghai University of Engineering Science, P.R. China*

**Chief Physician Xiaoling Wei**
*Fudan University Affiliated Stomatological Hospital, China*

**Prof. Junfeng Shi**
*Hunan University, China*

**Assistant Prof. Ning Zhang**
*The Chinese University of Hong Kong, China*

**Associate Prof. Zhang Xudong**
*Sun Yat-sen University, China*

**Prof. Tao Yi**
*Donghua University, China*

**Prof. Jifu Mao**
*Donghua University, China*

**Prof. István Bányai**
*University of Debrecen, Hungar*

**Prof. Tong Wu**
*Qingdao University, China*

**Zhiwen Joseph Lo**
*Woodlands Health, Singapore*

**Associate prof. Feihu Wang**
*Shanghai Jiao Tong University, China*

**Associate Prof. Navin Kumar Verma**
*Nanyang Technological University, Singapore*

**Prof. Ming Ma**
*Shanghai Institute of Ceramics, Chinese Academy of Sciences, China*

**Prof. Peifeng Liu**
*Shanghai Cancer Institute, China*

**Assistant Prof. Chengchen Guo**
*Westlake University, China*

**Assistant Prof. Greeshma Thrivikraman**
*IIT Madras, India*

**Prof. Xiaoran Li**
*Donghua University, China*

**Prof. Liqun Xu**
*Southwest University, China*

**Prof. Fujun Wang**
*Donghua University. China*

**Dr. Muhammad Shafiq**
*Innovation Center of NanoMedicine (iCONM), Kawasaki, Japan*

**Associate Prof. Keni Yang**
*Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO), Chinese Academy of Sciences, China*

**Prof. Kui Luo**
*West China Hospital, Sichuan University, China*

**Principal Scientist Renzhe Bi**
*A*STAR Skin Research Labs, Singapore*

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*Shandong Second Medical University, China*

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*Jiangnan University, China*

**Prof. Feng Chen**
*Fudan University, China*

**Dr. Muhammad Rafique**
*Shanghai Jiao Tong University, China*

**Dr. Yan Xiong**
*Daping Hospital of the Army Medical University, China*



# I-CAME 2025 Program

| | | |
|---|---|---|
| **25th June 2025** | *14:00-20:00* | Pre-registration at Fuyue Hotel Shanghai first floor<br>Poster post up at Fuyue Hotel Shanghai third floor |
| | *17:30-21:00* | Welcome dinner in Fuyue Hotel Shanghai first floor, Manhattan Restaurant (曼哈顿餐厅) |
| **26th June 2025** | *07:40-08:30* | Registration at Fuyue Hotel Shanghai third floor |
| | | Opening Ceremony<br>No.1 Dongfang Hall, Fuyue Hotel Shanghai third floor |
| | *08:30-08:37* | Words of Welcome<br>President, *Donghua University* |
| | *08:37-08:42* | Introduction to the I-CAME<br>**Prof. Teoh Swee Hin**<br>Chair of the I-CAME 2025, *Hunan University* |
| | *08:42-08:47* | Welcome Address<br>**Prof. Xuanyong Liu**<br>Dean of College of Biological Science and Medical Engineering, *Donghua University* |
| | *08:47-08:52* | Welcome Address<br>**Prof. Libo Gao**<br>Dean of College of Materials Science & Engineering, *Hunan University* |
| | *08:52-08:57* | Introduction of SKLFPM and "Advanced Fiber Materials" Journal<br>**Prof. Feng Yan**<br>Deputy Director of State Key Laboratory of Advanced Fiber Materials |
| | *08:57-09:07* | Conference Group Photograph,<br>in the front of the door of Fuyue Hotel Shanghai Building C |
| | | Plenary Speech<br>Chair: Prof. Teoh Swee Hin, Prof. Xiumei Mo<br>No.1 Dongfang Hall, Fuyue Hotel Shanghai third floor |
| | *09:07-09:15* | Plenary-1: The Manufacture of Whole Organ on Demand<br>Speaker: Prof. Joseph Vacanti<br>*Massachusetts Gen Hospital, USA* |
| | *09:15-09:40* | Plenary-2: Implementation of AI in Healthcare: Challenges and the Road Ahead<br>Speaker: Prof. Wong Tien Yin<br>*Tsinghua University, China* |
| | *09:40-10:05* | Plenary-3: Opportunities and Challenges in Aging Bone Regenerative Materials<br>Speaker: Prof. Changsheng Liu<br>*Shanghai University, China* |
| | *10:05-10:30* | Plenary-4: Engineering Micro-Physiological Systems (MPSs) as NAMs for Drug Development<br>Speaker: Prof. Hanry Yu<br>*National University of Singapore, Singapore* |
| | *10:30-10:55* | Plenary-5: Resolution, Reconstruction and Regulation of Tissue Fibrosis<br>Speaker: Prof. Yanan Du<br>*Tsinghua University, China* |
| | *10:55-11:20* | Plenary-6: Methods for Evaluating the Accuracy of Artificial intelligence-based Medical Devices without a Gold Standard<br>Speaker: Prof. Xiaohua Zhou<br>*Peking University, China* |

**26th June 2025**

| | | | |
|---|---|---|---|
| *11:20-11:45* | Plenary-7: Towards Next Generation Bioresorbaable Implants<br>Speaker: Prof. Michael Wagels<br>*HBI and PAH, Australia* | | |
| *11:45-12:10* | Plenary-8: The Future of MedTech in Asia<br>Speaker: Prof. Teoh Swee Hin<br>*Hunan University, China* | | |
| *12:10-13:30* | Lunch in Manhattan Restaurant, Fuyue Hotel Shanghai first floor | | |
| Chair | Feng Chen, Botao Gao | Tonghe Zhu, Wentao Cao | Peifeng Liu, Jinqiang Wang |
| | No.1 Meeting Room: Biomimetic Materials and Regenerative Medicine & Advanced Biomaterials | No.2 Meeting Room: Biomimetic Materials and Regenerative Medicine & Advanced Biomaterials | No.3 Meeting Room: Bio-inspired drug delivery systems & Tissue Repair Materials |
| *13:30-13:50* | Keynote-1: Cooperative Tissue Engineering for Functional Tissue Fabrication<br>Speaker: Michiya Matsusaki<br>*Graduate School of Engineering, Osaka University, Japan* | Keynote-3: Cell-adaptable Dynamic Hydrogels for Tissue Engineering<br>Speaker: Liming Bian<br>*South China University of Technology, China* | Keynote-5: Delivery of Therapeutic Genome-Editing Biomacromolecues<br>Speaker: Yuan Ping<br>*Zhejiang University, China* |
| *13:50-14:10* | Keynote-2: Keratins as a Sustainable Material for Biomedical Applications<br>Speaker: Kee Woei Ng<br>*Nanyang Technological University, Singapore* | Keynote-4: Innovation and Translation for Bioactive Bone Grafts in China<br>Speaker: Shengmin Zhang<br>*Huazhong University of Science and Technology, China* | Keynote-6: Development of Microneedle Devices With Anisotropic Porous Structure for Biomedical Application<br>Speaker: Chenjie Xu<br>*City University of Hong Kong, Hong Kong, China* |
| *14:10-14:25* | Invited-1: Calcium Phosphate Cluster for Rapid Remineralization of Tooth Enamel<br>Speaker: Feng Chen<br>*Fudan University, China* | Invited-4: Durable Immunomodulatory Nanofiber Niche for the Functional Remodeling of Cardiovascular Tissue<br>Speaker: Tonghe Zhu<br>*Shanghai University of Engineering Science, China* | Invited-7: Responsive Release of Nucleic Acid Drugs for Precision Tumor Therapy<br>Speaker: Peifeng Liu<br>*Shanghai Cancer Institute, China* |
| *14:25-14:40* | Invited-2: Chitosan: A Sustainable Bioresource for Biomedical and Agricultural Innovation<br>Speaker: Tariq Yasin<br>*Pakistan Institute of Engineering & Applied Sciences(PIEAS), Islamabad, Pakistan* | Invited-5: Study on the Promotion of Tissue Regeneration by Electrical Stimulation in Collaboration with Electroactive Materials<br>Speaker: Wentao Cao<br>*Fudan University, China* | Invited-8: Bio-Responsive Supramolecular Prodrug Hydrogel for Precise Cancer Immunotherapy<br>Speaker: Feihu Wang<br>*Shanghai Jiao Tong University, China* |
| *14:40-14:55* | Invited-3: Novel Applications of Cell Sheet Technology in Regenerative Medicine: from in vitro Model to Immunotherapy<br>Speaker: Botao Gao<br>*Guangdong Academy of Sciences, China* | Invited-6: Chemically Modified miRNA Delivery via DNA Tetrahedral Nanostructures Enhances Angiogenesis and Dental Pulp Regeneration<br>Speaker: Xiaoling Wei<br>*Shanghai Stomatological Hospital and School of Sto, China* | Invited-9: Genetically Engineered Cell Membrane-Derived Vesicles for Disease Therapy<br>Speaker: Xudong Zhang<br>*Sun Yat-Sen University, China* |



**26th June 2025**

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| *14:55-15:03* | Oral-1: In Situ Autonomous Pore-forming Polyphosphate Coacervate-based Injectable Bone Substitutes<br>Speaker: Hua Zeng<br>*Tongji University, China* | Oral-3: Single-Atom Nanozyme Combining Bioactive Molecule in Hierarchical Microneedles for Spatiotemporally Treatment of Infected Diabetic Wounds<br>Speaker: Mengting Yin<br>*Tongji University, China* | Oral-5: Targeted Macrophage CRISPR-Cas13 mRNA Editing in Immunotherapy for Tendon Injury<br>Speaker: Shuo Wang<br>*Shanghai Sixth People's Hospital, China* |
| *15:03-15:11* | Oral-2: Design of Inoganic-Organic Biommetic Scaffolds for Neurovascularized Bone Repair<br>Speaker: Tingting Wu<br>*Guangdong Academy of Sciences, China* | Oral-4: Promoting Effects of Sustainably Degradable and Bioactive Magnesium Phosphate Cement in Rabbit Bone Regeneration and Screw Fixation Models<br>Speaker: Xinyu Qu<br>*Tongji University, China* | Oral-6: Polyphenol/Metal Ion Mediated Macrophage Metabolism Reprogramming to Promote Wound Repair<br>Speaker: Yunlong Yu<br>*Army Medical University, China* |
| *15:11-15:25* | Coffee Break | | |
| Chair | Muhammad Shafiq, Ming Ma | Jun Li, Yuting Wen | Xiumei Mo, Tong Wu |
| | No.1 Meeting Room: Biomaterials for Nanomedicine and Tissue Engineering & Innovative Biomaterials for Organ Models and Tissue Repair | No.2 Meeting Room: Innovative Biomaterials for Organ Models and Tissue Repair & Biomaterials for Nanomedicine and Tissue Engineering | No.3 Meeting Room: Drug Delivery Systems & Electrospinning Biomaterials |
| *15:25-15:45* | Keynote-7: Integrating Bioprinting with Organoids for Biomedical Applications<br>Speaker: Min Wang<br>*The University of Hong Kong, Hong Kong, China* | Keynote-9: Supramolecular Self-Assembled Polymers and Hydrogels for Nanomedicine and Sustainability Applications<br>Speaker: Jun Li<br>*National University of Singapore (Chongqing) Research Institute, China* | Keynote-11: Nanoparticle-mediated Drug Delivery System for Anti-cancer Therapy<br>Speaker: Won Jong Kim<br>*POSTECH, South Korea* |
| *15:45-16:05* | Keynote-8: Development of elemental technologies for a new platform for creating practical Whole Organ Engineered-Livers<br>Speaker: Hiroyuki Ijima<br>*Kyushu University, Fukuoka, Japan* | Keynote-10: Is Subchondral Bone Remodeling a Result or a Contributor to OA Progression?<br>Speaker: Chaozong Liu<br>*University College London, United Kingdom* | Keynote-12: Electrospun Nanofiber for Soft and Hard Tissue Engineering<br>Speaker: Xiumei Mo<br>*Donghua University, China* |
| *16:05-16:20* | Invited-10: Combined 3D Microfluidic Vortex Focusing And High-Throughput Screening for Self-Assembly Synthesis of Homogeneous Nanomedicine<br>Speaker: Ming Ma<br>*Shanghai Institute of Ceramics, CAS, China* | Invited-13: Wet-Spun Biomimetic Fibers for Enhanced Spinal Cord Injury Repair<br>Speaker: Keni Yang<br>*Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, China* | Invited-16: Development of fibre-Microsphere Composite System for Modulation of Cell Behaviour and Tissue Regeneration<br>Speaker: Tong Wu<br>*Qingdao University, China* |

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| 26th June 2025 | 16:20-16:35 | Invited-11: Imparting Multifunctionality to Polymeric Biomaterials and Harnessing Nature's Wisdom to Promote Biocompatibility of Medical Implants for Regenerative Medicine and Tissue Engineering<br>Speaker: Muhammad Shafiq<br>*Innovation Center of NanoMedicine (iCONM), Kawasaki Institute of Industrial Promotion (KIIP), Japan* | Invited-14: Cyclodextrin-Based Supramolecular Delivery Systems for Near-Infrared Dye-Mediated Diagnosis and Photothermal Therapy<br>Speaker: Yuting Wen<br>*NUS (Suzhou) Research Institute, China* | Invited-17: Nanofibrous Biomaterials with Improved Bio-Interface for Wound Treatment<br>Speaker: Xiaoran Li<br>*Donghua University, China* |
| | 16:35-16:50 | Invited-12: On the Development of Hypoxia-mimicking and Immuno-regulatory Polycaprolactone (PCL)-based Small-diameter Vascular Grafts for In Situ Blood Vessel Regeneration<br>Speaker: Muhammad Rafique<br>*Shanghai Jiao Tong University, China* | Invited-15: A Wound Exudate-Activated Yarn Battery for Antimicrobial Electrical Fabric Dressing<br>Speaker: Liqun Xu<br>*Southwest University, China* | Invited-18: The Quercetin/Paclitaxel Loaded Nanoparticles as Pulmonary Drug Delivery System for Lung Cancer<br>Speaker: Weifen Zhang<br>*Shandong Second Medical University, China* |
| | 16:50-16:58 | Oral-7: Conjugation of Cyclic RGD-Modified PEG Chains to Checkpoint Blockade Antibodies Enhances Antitumor Efficacy and Targeted Delivery<br>Speaker: Wei Cheng<br>*Institute of Science Tokyo, Japan* | Oral-11: Drug-Free Extracellular Vesicles: A Novel Spatiotemporal Controlled Release Engineering Strategy for Osteogenesis and Anti-Inflammatory Microenvironment in Rotator Cuff Regeneration<br>Speaker: Guoyang Zhang<br>*Shanghai Sixth People's Hospital, China* | Oral-15: Spatiotemporal Sequential Chidamide Delivery Regulates Macrophage Reprogramming in Response to the Tumor Microenvironment through HDACs-STAT3 in the Progression of Lymphoma<br>Speaker: Bo Dai<br>*Huashan Hospital Affiliated to Fudan University, China* |
| | 16:58-17:06 | Oral-8: Vascular Endothelial Growth Factor and Endogenous Calcium-Capturing Hydrogels Promote Bone Tissue Regeneration<br>Speaker: Zhengchao Yuan<br>*Donghua university, China* | Oral-12: Dual-grafted Dual-Network Hydrogel System Promotes Synergetic Regeneration of Heterogeneous Interfaces<br>Speaker: Weixuan Lin<br>*Shanghai Sixth People's Hospital, China* | Oral-16: PSA(pressure-sensitive adhesive) Transdermal Patch by Way of Melt Electrospinning: Fabrication and Performance<br>Speaker: Haoyi Li<br>*Beijing University of Chemical Technology, China* |
| | 17:06-17:14 | Oral-9: Nanoengineered Red Blood Cells and Stem Cell Derivatives for Targeted Therapy<br>Speaker: Jun-Nian Zhou<br>*Academy of Military Medical Sciences* | Oral-13: Efficient Encapsulation and Controlled Release of Drugs in Micro- and Nanoparticles<br>Speaker: Wei Li<br>*Huazhong University of Science and Technology, China* | Oral-17: Tuneable Methacrylated Recombinant Human Collagen Hydrogels for 3D Stem Cells Culture and application in wound healing<br>Speaker: Wei Li<br>*The First Affiliated Hospital of Naval Medical University, China* |



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| 26th June 2025 | 17:14-17:22 | Oral-10: Development of a PEG-CS Functional Coating Loaded with Sodium Tanshinone IIA Sulfonate for Small-Diameter Artificial Vascular Grafts<br>Speaker: Anlin Yin<br>*Jiaxing University, China* | Oral-14: 3D Printing and Bioactive hydrogels in Tissue Regeneration Application<br>Speaker: Huilong Guo<br>*Guangdong Academy of Sciences, China* | Oral-18: Secretory Fluid-Aggregated Janus Electrospun Short Fiber Scaffold for Wound Healing<br>Speaker: Shutong Qian<br>*Zhejiang University, China* |
| | 17:22-18:00 | Poster Session | | |
| | 18:30- 20:30 | Conference Banquet, No.1 Dongfang Hall, Fuyue Hotel Shanghai third floor | | |
| 27th June 2025 | Chair | Wenguo Cui, Hongbo Zhang | Gareth Williams, Chia-Hung Chen | Jeremy Teo, Dawei Li |
| | | No.1 Meeting Room: Functional Materials for Biomecial Engineering & Biopolymer Synthesis | No.2 Meeting Room: Biopolymer Synthesis & Functional Materials for Biomecial Engineering | No.3 Meeting Room: Hydrogels & Innovations in skin-based clinical application |
| | 08:30-08:50 | Keynote-13: Polysaccharide-Based Nanoformulations for Cardiac Rna-Based Therapeis: From Nano-Design to In Vivo Applications<br>Speaker: Hélder Santos<br>*University Medical Center Groningen, Netherlands* | Keynote-15: Fluidic Membrane-Bound Protocells (FMPs): An Adaptive Platform for Next-Generation Intelligent Medicine<br>Speaker: Chia-Hung Chen<br>*City University of Hong Kong, Hong Kong, China* | Keynote-17: Hydrogel-based Mechano-modulation of the Immune System<br>Speaker: Jeremy Teo<br>*New York University Abu Dhabi, United Arab Emirates* |
| | 08:50-09:10 | Keynote-14: From Fats to Bone: Applications for Oral & Maxillofacial Regeneration<br>Speaker: Bee Tin Goh<br>*National Dental Centre Singapore, Singapore* | Keynote-16: Developing "Phormulations" for Phages<br>Speaker: Gareth Williams<br>*University College London, United Kingdom* | Keynote-18: Scientific Publishing: An Advanced Perspective<br>Speaker: Xiaoyu Zhang<br>*Wiley, China* |
| | 09:10-09:25 | Invited-19: Photocrosslinkable Polymers for Tissue Regeneration<br>Speaker: Xin Zhao<br>*The Hong Kong Polytechnic University, Hong Kong, China* | Invited-22: Centrifugal Spinning-Derived Biomimetic Aerogel for Rapid Hemostasis with Minimal Blood Loss<br>Speaker: Fujun Wang<br>*Donghua University, China* | Invited-25: Continuous Preparation of Robust Hydrogel Fibers<br>Speaker: Dawei Li<br>*Jiangnan University, China* |
| | 09:25-09:40 | Invited-20: Biomimetic Design of Functional Activities for Bone Regeneration<br>Speaker: Guoqing Pan<br>*Jiangsu University, China* | Invited-23: Conductive Fibers and Textiles for Biomedical Applications<br>Speaker: Jifu Mao<br>*Donghua University, China* | Invited-26: AI-Enabled Wound Image Analysis for Diabetic Limb Salvage: From Clinical Need to Explainable Intelligence<br>Speaker: Zhiwen Joseph Lo<br>*Woodlands Health, Singapore* |

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| *09:40-09:55* | Invited-21: Surface Engineering Unlocks Drug Loading and Controlled Release<br>Speaker: Dongfei Liu<br>*China Pharmaceutical University, China* | Invited-24: 3D Hierarchically Aligned Nanofiber Scaffolds Promote in Situ Tissue Regeneration Through Enhancing Collective Cell Migration<br>Speaker: Shixuan Chen<br>*University of Chinese Academy of Science, China* | Invited-27: Multisite Captured Copper Ions via Phosphorus Dendrons Functionalized Electrospun Short Nanofibrous Sponges for Bone Regeneration<br>Speaker: Liang Chen<br>*Shanghai Jiao Tong University, China* |
| *09:55-10:03* | Oral-19: Amyloid-Like Assembly Confinement Enhancing Enzyme-Mimicking Catalytic Antibacterial Therap<br>Speaker: Yonghai Feng<br>*Jiangsu University, China* | Oral-21: A Novel Ligand-Modified Nanocomposite Microparticles Improved Efficiency of Quercetin And Paclitaxel Delivery in the Non-Small Cell Lung Cancer<br>Speaker: Meijun Liu<br>*Shandong Second Medical University, China* | Oral-23: Gene Therapy For Inflammatory Cascade in Intrauterine Injury Through Snail Mucus-Inspired Adhesive Exosomal Hydrogels to Targetedly Regulate Macrophage Polarization<br>Speaker: Xiaojiong Peng<br>*Shandong Second Shanghai First Maternity and Infant Hospital, China* |
| *10:03-10:11* | Oral-20: Targeting Lesional Macrophages with B-Glucan Based Biomaterials for Cardiac Therapy<br>Speaker: Zehua Liu<br>*University of Helsinki, Finland* | Oral-22: Advanced Gas Foamed 3D Nanofiber Scaffolds for Tissue Regeneration<br>Speaker: Yujie Chen<br>*Shanghai Tongren Hospital, China* | Oral-24: A chitosan/silk Fibroin Hydrogel (patch) Loaded with Tannic Acid for Promoting Cardiac Function Repair after Myocardial Infarction<br>Speaker: Qingpeng Wang<br>*Wuhan University of Zhongnan Hospital, China* |
| *10:11-10:25* | Coffee Break | | |
| Chair | Liang Song, Shanghui Zhou | Kun Liang, Hong Liang Tey | Jing Chen, Liyang Shi |
| | No.1 Meeting Room: Advanced Biomaterials & Tissue Repair Materials | No.2 Meeting Room: Bioactive glasses and Glass-ceramics for Healthcare Applications & Innovations in skin-based clinical application | No.3 Meeting Room: Biomedical Hydrogels & 3D-printing Biomaterials |
| *10:25-10:45* | Keynote-19: Design and Fabrication of Biodegradable Mg Alloy With Superior Strength And Ductility for Bone Implants<br>Speaker: Guangyin Yuan<br>*Shanghai Jiao Tong University, China* | Keynote-21: Innovations in Scar Management<br>Speaker: Hong Liang Tey<br>*National Skin Centre, Singapore* | Keynote-23: Biodegradable Hydrogel Adhesives Based on O-Phthalaldehyde/Amine Crosslinking for Wound Closure and Tissue Repair<br>Speaker: Chaoliang He<br>*Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China* |



**27th June 2025**

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| *10:45-11:05* | Keynote-20: Spatial Transcriptomic Landscape Unveils The Critical Dental Follicle Cell Subset Maintains the Quiescence of Replacement Dental Lamina<br>Speaker: Xiaoshan Wu<br>*Xiangya Hospital, China* | Keynote-22: Mg-dopped Chloride-containing Bioactive Glasses for Bone Regeneration<br>Speaker: Xiaojing Chen<br>*Central South University, China* | Keynote-24: Creating Biomimetic Scaffolds for In Vitro Organ Models and In Vivo Tissue Regeneration<br>Speaker: Linpeng Fan<br>*The University of Melbourne, Australia* |
| *11:05-11:20* | Invited-28: Autonomous Biomaterials for Precision Bone Repair: Mechanisms, Applications, and Future Directions<br>Speaker: Yuqing Yang<br>*Hainan West Central Hospital, China* | Invited-31: Human Skin Microbiome Sampling Based on a Transepidermal Microprojection Array for Clinical Applications<br>Speaker: Kun Liang<br>*Nanyang Technological University, Singapore* | Invited-34: Mechanical-Electrophysiological Dual-Adaptive Microenvironment Based on Biomimetic Hydrogels Promotes Spinal Cord Injury Repair<br>Speaker: Kunyu Zhang<br>*South China University of Technology, China* |
| *11:20-11:35* | Invited-29: Role of Chiral $MoS_2$ Nanocomposite Membrane in Bone Regeneration<br>Speaker: Fei Yang<br>*Zhongshan Hospital, Fudan University, China* | Invited-32: Antibiotic-Free Nanofibrous Scaffolds for Enhanced Healing of Diabetic Wounds<br>Speaker: Navin Kumar Verma<br>*Nanyang Technological University, Singapore* | Invited-35: Cell Profiles and Dynamics in the Early Stage of Long Bone Critical-Size Defects Using Hydrogel-Based Scaffolds<br>Speaker: Ning Zhang<br>*The Chinese University of Hong Kong, China* |
| *11:35-11:50* | Invited-30: An Artificial Piezoelectric-Conductive Integrated Peri-Implant Gingiva Enables Efficient Bacterial Inhibition and Soft-Tissue Integration<br>Speaker: Shengcai Qi<br>*Shanghai Hospital of Stomatology, Fudan university, China* | Invited-33: Diffuse Speckle Pulsatile Flowmetry (DSPF) for Skin Microcirculation Assessment: A Novel Approach for Diabetic Foot Ulcer Monitoring and Peripheral Vascular Disease Screening<br>Speaker: Renzhe Bi<br>*A*STAR Skin Research Labs, Singapore* | Invited-36: Atomic Insights into Self-Assembly of Zingibroside R1 and its Therapeutic Action Against Fungal Diseases<br>Speaker: Junfeng Shi<br>*Hunan University, China* |
| *11:50-11:58* | Oral-25: Early Dental Epithelial Development and its Role in Multi-Cusp Molar Morphogenesis<br>Speaker: Xuechun Li<br>*Xiangya Hospital, Central South University, China* | Oral-28: Boron-modified Alkaline-free Silicate Bioactive Glasses with Anti-inflammatory Properties for bone substitutes<br>Speaker: Xiaomei Ru<br>*Central South University, China* | Oral-31: Hydrogel-based Drug and Gas Delivery System for Neuroimmunomodulation in Spinal Cord Injury<br>Speaker: Liyang Shi<br>*Hunan University, China* |

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| *11:58-12:06* | Oral-26: Acceleration of Calvarial Bone Regeneration with A Multifunctional Hydrogel: Single-cell Transcriptome Analysis<br>Speaker: Dandan Song<br>*Zhongshan Hospital, Fudan university, China* | Oral-29: Incorporating Copper into Fluoride-containing Bioglasses Enhances the inhibition of Streptococcus Mutans Activity and Biofilm Formation<br>Speaker: Yiyan Yu<br>*Central South University, China* | Oral-32: Basic Research and Clinical Application of Ordered Collagen Scaffolds Combined with Human Neural Stem Cells to Promote Spinal Cord Injury Repair and Regeneration<br>Speaker: Yunlong Zou<br>*China-Japan Union Hospital of Jilin University, China* |
| *12:06-12:14* | Oral-27: A PCL/HAp/GO Composite Scaffold with Time-Sequenced Release of Angiogenic and Osteogenic Bioactive Components for Critical-Sized Bone Defect Repair<br>Speaker: Ziying Feng<br>*Shanghai Fifth People's Hospital, China* | Oral-30: Facile Gelation of Collagen Using Green Tea Extracts for Topical Therapeutic Applications<br>Speaker: Chixuan Liu<br>*ASTAR Skin Research Labs, Singapore* | Oral-33: Engineering Multifunctional Scaffolds with Osteoimmunomodulatory Niches for Augmented Bone Regeneration by Regulating CCL2/CCR2 Pathway<br>Speaker: Hongyu Zhao<br>*Shandong University, China* |
| *12:14-13:30* | Lunch in Manhattan Restaurant, Fuyue Hotel Shanghai first floor | | |
| Chair | Changyou Gao, Yang Zhu | Xiangyang Shi, Kui Luo | Jingwei Xie, Zhengwei You |
| | No.1 Meeting Room: Self-adaptive biomaterials for tissue repair and regeneration & Scaffold Design and Fabrication | No.2 Meeting Room: Nanomedicine and Nonobiotechnology & Nanomedicine and Nonobiotechnology | No.3 Meeting Room: Nanomedicine and Nonobiotechnology & Nano- and Microtechnologies for Drug Delivery and Tissue Regeneration |
| *13:30-13:50* | Keynote-25: Immunomodulating polymers for tissue repair and regeneration<br>Speaker: Changyou Gao<br>*Zhejiang University, China* | Keynote-27: Supramolecular Cell Engineering for Targeted Therapy<br>Speaker: Ruibing Wang<br>*University of Macau, Macau, China* | Keynote-29: Emerging New Forms of Electrospun Nanofibers for Tissue Regeneration<br>Speaker: Jingwei Xie<br>*University of Nebraska Medical Center, USA* |
| *13:50-14:10* | Keynote-26: nCaP-Reinforced PCL Composites for Bone Repair Application<br>Speaker: Zuyong Wang<br>*Hunan University, China* | Keynote-28: Mesenchymal Stem Cell-Derived Exosomes Enable Brain Delivery of Bioactive Phosphorous Dendrimers and Quercetin to Tackle Parkinson's Disease via Cooperative Modulation of Inflammatory Immune Microenvironment<br>Speaker: Xiangyang Shi<br>*Donghua University, China* | Keynote-30: Biomimetic Elastomers, 3D Printing and their Biomedical Applications<br>Speaker: Zhengwei You<br>*Donghua University, China* |



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| *14:10-14:25* | Invited-37: Selective and Responsive Antimicrobial Biomaterials for Combating Drug-resistant Bacterial Infections<br>Speaker: Peng Li<br>*Northwestern Polytechnical University, China* | Invited-40: Activatable Nano Aggregation Systems for Tumor Diagnosis and Treatment<br>Speaker: Tao Yi<br>*Donghua University, China* | Invited-43: Chemically Modified Silk Fibroin for Regenerative Medicine<br>Speaker: Chengchen Guo<br>*Westlake University, China* |
| *14:25-14:40* | Invited-38: Natural Macromolecule-Based Multifunctional Antibacterial Coatings<br>Speaker: Shun Duan<br>*Beijing University of Chemical Technology, China* | Invited-41: Peptide Dendritic Polymers-based Nanomedicines for Cancer Therapy<br>Speaker: Kui Luo<br>*West China Hospital, Sichuan University, China* | Invited-44: Keratin-polyphenol Bioadhesives for Soft Tissue Attachment to Transcutaneous Bone-anchored Metallic Prostheses<br>Speaker: Sunil Kumar Boda<br>*Indian Institute of Technology Madras, Indian* |
| *14:40-14:55* | Invited-39: Anti-ferroptotic Injectable Hydrogel Microspheres<br>Speaker: Yang Zhu<br>*Zhejiang University, China* | Invited-42: *In Vivo* NMR Relaxation Study of Human Skin<br>Speaker: Bányai István<br>*University of Debrecen, Hungary* | Invited-45: Light-responsive Pullulan-based Hydrogels For Spinal Tissue Regeneration<br>Speaker: Greeshma Thrivikraman<br>*Indian Institute of Technology Madras, Indian* |
| *14:55-15:03* | Oral-34: Inflammation-modulating Elastic Decellularized Extracellular Matrix Scaffold Promotes Meniscus Regeneration<br>Speaker: Yangfan Ding<br>*Donghua University, China* | Oral-36: Immunomodulatory Hydrogel Loaded with Curcumin and Tannic Acid Assembled Nanoparticles for Radiation-Induced Dermatitis Repair<br>Speaker: Wenjie Sun<br>*The Second Affiliated Hospital of Wenzhou Medical, China* | Oral-38: Electrically Conductive and Anti-Inflammatory Hydrogel-Based Nerve Guidance Conduits for Enhanced Peripheral Nerve Regeneration<br>Speaker: Jiahui Song<br>*Donghua University, China* |
| *15:03-15:11* | Oral-35: "Restauro" Strategy: Siderophore-Like Antibiofilm Coating Combats Prosthetic Joint Infection and Preserves Implants via Bacterial Ferroptosis-Like Death<br>Speaker: An Liu<br>*The Second Affiliated Hospital of Zhejiang University, China* | Oral-37: Mesoporous Copper Sulfide-Based Nanocomposites for Non-oxygen Dependent Free Radicals-assisted Photothermal Therapy of Uveal Melanoma<br>Speaker: Linxin Chen<br>*Wenzhou Medical University, China* | Oral-39: Precision Endothelialization of Vascular Scaffolds via Bioorthogonal Chemistry<br>Speaker: Mingyu Li<br>*Shanghai Jiao Tong University, China* |
| *15:11-15:25* | Coffee Break | | |

**27th June 2025**

| | Chair | Teoh Swee Hin | Xiumei Wang, Wenchuan Zhang | Juan Wang, Xiaoyu Han |
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| | | No.1 Meeting Room: Tissue Engineering & ZRX Entrepreneurship Awards | No.2 Meeting Room: Tissue Engineering & Neural Medical Engineering | No.3 Meeting Room: New techniques and methods for tissue repair & Advanced Biomaterials |
| | *15:25-15:45* | Keynote-31: Regenerative implants: The leading edge of implant innovation<br>Speaker: Yujing Lim<br>*Osteopore, Singapore* | Keynote-33: Bioelectronics for Tissue Engineering: A Review on Materials and Design Strategy in 3D<br>Speaker: Wai Yee Yeong<br>*Nanyang Technological University, Singapore* | Keynote-36: Self-Powered Medical Devices<br>Speaker: Zhou Li<br>*Beijing Institute of Nanoenergy and Nanosystems, China* |
| | *15:45-16:05* | Keynote-32: Review of Light and Ultrasound-Activated Therapies for Solid Tumors Development of a Biomaterial Platform Capable of Environment-Selective Activation<br>Speaker: Hwa Liang Leo<br>*National University of Singapore, Singapore* | Keynote-34: Medicine-Engineering Interdisciplinary Research based on Innovation and Industrialization of High-end Biomedical Materials<br>Speaker: Qiqing Zhang<br>*Institute of Biomedical Engineering, Chinese Acade, China* | Keynote-37: Bionic Scaffolds/microspheres from Microfluidics for Bone Regeneration<br>Speaker: Lei Yang<br>*Zhejiang Academy of Agricultural Sciences, China* |
| | *16:05-16:25* | Invited-46: Novel degradable piezoelectric-induced PHBV/CS/HA scaffolds to achieve dual effects of endogenous osteogenesis and antibacterial properties by piezoelectric stimulation and ultrasonic action<br>Speaker: Yan Xiong<br>*Army Medical University, China* | Keynote-35: Integrating Hydrogels Manipulate ECM Deposition for Specific Neural Reconnections<br>Speaker: Liumin He<br>*Sun Yat-sen University, China* | Keynote-38: Light/ultrasound-Driven Organic-Inorganic Hybrid Nanomaterials<br>Speaker: Nuo Yu<br>*Donghua University, China* |
| | *16:25-16:40* | ZRX Entrepreneurship Presentation | Invited-48: Physical Stimuli-responsive Biomaterials for Cell Modulation, Tissue Repair, and Clinical Applications<br>Speaker: Qihui Zhou<br>*University of Health and Rehabilitation Sciences, China* | Invited-51: Lubricated Injectable Electroactive Short Fibers Facilitate Cartilage Repair Through Piezoelectric Conversion<br>Speaker: Jieliang Shen<br>*Bishan District People's Hospital of Chongqing, China* |
| | *16:40-16:55* | | Invited-49: Counteracting Immunodepression By Extracellular Matrix Hydrogel for Traumatic Brain Injury Repair<br>Speaker: Xi Chen<br>*East China University of Science and Technology, China* | Invited-52: Short Fiber Nasal Drops for Treating Brain Neurological Disorders<br>Speaker: Juan Wang<br>*Ruijin Hospital, Shanghai Jiao Tong University School of Medicine, China* |



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| *16:55-17:10* | ZRX Entrepreneurship Presentation | Invited-50: Tissue-scaffold-Mimicking Electronics for Seamless Integration of Electronics With Living Tissues<br>Speaker: Xiaochuan Dai<br>*Tsinghua University, China* | Invited-53: AI-Driven Design of Nerve Conduits for Advanced Mechanical-Electrical Microenvironment Control in Nerve Regeneration<br>Speaker: Haoyu Wang<br>*Xi'an Jiaotong University, China* |
| *17:10-17:18* | | Oral-40: 3D Bioprinted Dynamic Bioactive Living Construct Enhances Mechanotransduction-Assisted Rapid Neural Network Self-organization for Spinal Cord Injury repair<br>Speaker: Jia Yang<br>*Tsinghua University, China* | Oral-43: Biosynthesis of Lysosomally Escaped Apoptotic Bodies Inhibits Inflammasome Synthesis in Macrophages<br>Speaker: Jiayi Mao<br>*Shanghai Ninth People's Hospital, China* |
| *17:18-17:26* | | Oral-41: Enhanced Therapeutic Potential of A Self-Healing Hyaluronic Acid Hydrogel for Early Intervention in Osteoarthritis<br>Speaker: Shuhui Yang<br>*Zhejiang Sci-Tech University, China* | Oral-44: Ultrasound-Responsive Electroactive Hydrogel Modulates Macrophage Electrophilic Stress to Disrupt Inflammatory Vicious Cycle and Promote Tendon-Bone Healing<br>Speaker: Jindong Tan<br>*The First Affiliated Hospital of Chongqing Medical University, China* |
| *17:26-17:34* | | Oral-42: Self-setting Polyphosphate Coacervate Composites for Hard Tissue Repair<br>Speaker: Bing-Qiang Lu<br>*Fudan University, China* | Oral-45: The promotion of cartilage regeneration by photocurable methylacryloyl gelatin loaded with injectable autoconcentrated growth factor<br>Speaker: Yuan Xu<br>*Army Medical University, China* |
| *17:34-17:50* | Closing Ceremony and Awards for Poster (No.1 Meeting Room) | | |
| *18:00-20:00* | Dinner for Plenary, keynote, invited speaker (No.1 Yuegui Hall (悦贵厅1号), Fuyue Hotel Shanghai Second floor) | | |

## Poster

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| P-01 | The dexamethasone mesoporous polydopamine nanoparticles-based fibrous poly (L-lactide-co-ε-caprolactone) egg membrane dressings enable skin regeneration | Lu Han | Donghua university |
| P-02 | Developing an enzyme-free adipose stem cell extraction method from buccal fat pad for oral-maxillofacial bone regeneration | Chau Sang Lau | National Dental Centre Singapore |
| P-03 | 3D Printing Construction and Application Research of Anti-Inflammatory Bioresorbable Airway Stent | Chuhan Zhang | Donghua university |
| P-04 | 3D printed ALA-Eth/MgO/PLCL/PLGA composite scaffold by low-temperature deposition modeling for innervated bone regeneration | Miaoxuan Dai | Shanghai Ninth People's Hospital |
| P-05 | Functionally Graded Scaffold with M2 Macrophage-Derived LncRNA-Encoded peptide: Mechanistic and Therapeutic Evaluation for Rotator Cuff Repair | Hao Feng | Donghua University |
| P-06 | Dual-Targeting Liposome against Acne through Coordinated Microbial Eradication and Inflammatory Pathway Inhibition | Lu Shang | National University of Singapore (Suzhou) Research |
| P-07 | Fabrication of a novel core–shell with tetradecyl dimethyl benzyl ammonium–modiffed montmorillonite interlayer nanoffbrous membrane and its antimicrobial properties | Kuihua Zhang | Jiaxing University |
| P-08 | LEGO®-inspired Modular Bioinks for 3D Bioprinting In Vitro Models | Ke Zhou | NUS (Suzhou) Research Institute |
| P-09 | Protective effect of berberine on cochlear hair cell injury induced by neomycin | Yiyin Pan | Donghua university |
| P-10 | Oxidized dextran/chitosan-ibuprofen conjugate hydrogel for soft tissue repair and regeneration | Wenxin Wang | Donghua university |
| P-11 | Tuneable Methacrylated Recombinant Human Collagen Hydrogelsfor 3D Stem Cells Cultureand application in wound healing | Wei Li | The First Affiliated Hospital of Naval Miedical University |
| P-12 | Sandridge-Structured Silk Fibroin Microneedles with High-Capacity Insulin Loading for Enhanced Diabetes Therapy | Yanai Chen | Soochow University |
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| P-18 | Modified Highly Elastic 3D Nanofiber Embolic Scaffolds for Precise in Situ Embolization Therapy | Pengfei Cai | University of Freiburg |
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## Poster

| | | | |
|---|---|---|---|
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| P-40 | "Intelligent"Sonosensitizing Platform for ROS-based Cancer Therapy | Zhongnan Wang | National University of Singapore |

## ZRX ENTREPRENEURSHIP E-POSTER

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| EP-01 | SupGel-Based Organoid Technology Empowering Regenerative Medicine | Liming Bian | South China University of Technology |
| EP-02 | Chiral MoS2 Nanocomposite Membrane in Regulating Bone Regeneration | Yiling Yang | Fudan University |
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| EP-05 | OrniGen Innovations Pte Ltd-Fish Collagen Enterprise | Pengfei Yan | Hunan University |
| EP-06 | proCAR-Gel: A Hydrogel-Based Platform to Augment CAR-Macrophage Immunotherapy | Yan Zhang | Tsinghua University |
| EP-07 | Acellular Piscine Dermal Matrix as a Soft Tissue Filler | Dongsheng Li | Binzhou Medical University |

# Advanced Fiber Materials

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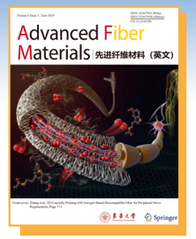


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Advanced Fiber Materials is a peer-reviewed, international and interdisciplinary research journal which aims to publish papers with high quality in fibers and fiber-related devices as well as their applications. The content of the journal reflects the fast research and development in the field of fiber materials. Advanced Fiber Materials is launched in 2019 by State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, Donghua University (China) and published by Springer Nature. Accepted article types include Research Article, Review, Letter, News, Perspective and Highlight.

Advanced Fiber Materials encourages the exchange of ideas among chemists, physicists, material scientists, energy/environmental/biomedical researchers, engineers and other researchers who are active at the frontiers of all fiber-related fields. Advanced Fiber Materials publishes original and review articles on fiber and fiber-related devices as well as their applications, including:

· The design and synthesis of novel polymers for fibers
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· High-performance fibers and composites
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· Design, fabrication and application of nanofibers
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· Smart fibers, textile and wearable intelligent devices
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Kind regards,
Editor-in-Chief: Prof. Meifang Zhu
Donghua University, China

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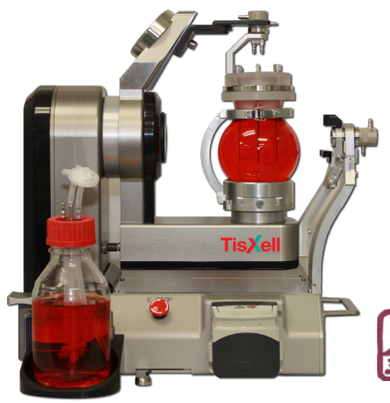
# TisXell Novel Approach

## ●创新设计

- ▶ 为双轴，单轴和摇摆模式独立控制的驱动轴。
- ▶ 连续灌流集成，可选择的速度蠕动泵。
- ▶ 氧合柱的装置，以方便气体交换。
- ▶ 4端口中型水库可选配传感器支架，安置pH和溶解氧探头。
- ▶ 热隔离系统驱动程序和控制器有单独的控制台。
- ▶ 系统可被放置在$CO_2$培养箱或用于桌上系统以外部控制器。

## ● *Innovative* Design

- ▶ Independently controlled drive axes for biaxial, single axis and swing modes.
- ▶ Continuous perfusion with integrated, selectable speed peristaltic pump.
- ▶ Oxygenator unit to facilitate gaseous exchange.
- ▶ Standard 500mL 4-port medium reservoir bottle with optional sensor holders to house pH and DO probes; for easy replacement during runs.
- ▶ Heat isolated system drivers and controller in separate console.
- ▶ System may be placed in a $CO_2$ incubator or used as a benchtop system with external controllers.

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博慧生物 BIOWAY

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# Zhejiang Bioway Biotechnology Co., Ltd.

## Company Profile

Zhejiang Bioway Biotechnology Co., Ltd., was established in 2022 and is an enterprise incubated based on the cutting-edge technologies of Zhejiang University and Shaoxing Institute of Zhejiang University. Bioway is a technology-driven innovator focused on biomedical R&D and precision manufacturing, building a full-spectrum industrial chain from raw materials to medical end-products.

Bioway's R&D team is spearheaded by Professor Changyou Gao , a national-level talent. In 2024, it was awarded the titles of "Home of Celebrities" Entrepreneurial Team of Shaoxing and Leading Entrepreneurial Team of Zhejiang Province. It was also recognized as a Technology-based Small and Medium-sized Enterprise and an Innovative Small and Medium-sized Enterprise of Zhejiang Province in 2024. The team holds four core invention patents both domestically and internationally.

Bioway has established three core development platforms: medical-grade raw materials, medical devices, and consumer healthcare products. Bioway has successfully launched more than ten products, including skin mucosal antibacterial agent, antibacterial and deodorizing pet set, and dietary fiber powdered beverage. Our first Class II medical device has completed quality system certification. Multiple devices are expected to be submitted for registration review this year.

## Major Product

### 慧清宁®皮肤黏膜抗菌剂 Antibacterial agent for skin and mucosa

**Spraying product:**

**Nontoxic solution with broad-spectrum antibacterial and anti-virus properties**

- Broad-spectrum killing of bacteria, fungi and viruses
- Anti-allergy, dermatitis, itching
- Promote tissue repair
- Completely non-toxic, no hemolytic coagulation
- Skin, mouth, nasal cavity, private parts
- No alcohol, quaternary ammonium salt, iodine, hydrogen peroxide, hypochlorite, borneol or other drugs

**Indications suggested by users:**

- ✓ Oral hygiene
- ✓ Sore mouth, swollen gums
- ✓ Acne treatment
- ✓ Insect bite (mosquito bite)
- ✓ Wounds, ulcers, bedsores
- ✓ Rhinitis, dermatitis, eczema, herpes， etc

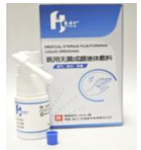
➢ >99.9% killing efficiency for Escherichia coli, Staphylococcus aureus, and Candida albicans etc.

➢ >99.9% killing efficiency for coronavirus, influenza virus, herpes virus, and HPV and RSV etc.

Hyperbranched poly-L-lysine

Antibacterial and deodorizing pet set


Dietary fiber powdered beverage



Medical sterile film-forming liquid dressing

**Add.:** 1423 Renmin East Road, Shaoxing City, Zhejiang Province
**Tel:** 0575-88622530 **Web:** biowaybiotech.com
**E-mail:** contact@biowaybiotech.com

## 上海迪发仪器仪表有限公司

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上海迪发仪器仪表有限公司是一家专业性的生命科学领域仪器代理商，自 2008 年成立以来，在广大用户的帮助与支持下，已成为上海地区知名的仪器供应商，公司代理有天能小动物活体、伯桢类器官解决方案、Countstar Spica 智能活细胞成像分析系统、Hvita 3D 活细胞自动灌流培养系统、迈瑞动物设备、尼康显微镜、力康生物安全柜培养箱、Tecan 酶标仪、乐枫纯水、致微灭菌锅等设备。

Shanghai Difa Instrument Co., Ltd. is a professional agent of instruments in the field of life sciences. Since its establishment in 2008, with the help and support of its customers, it has become a well-known instrument supplier in Shanghai. Our company acts as an agent for Tanon Live Animal Imaging, Biogenous organoids solutions, Countstar Spica Live Cell Imaging and Analysis system, Hvita 3D live cell automatic perfusion culture system,Mindray animal care solutions, Nikon microscope, HealForce biosafety cabinet and incubator, Tecan Multifunctional ELISA reader, Rephile pure water system, Zealway sterilizer and other equipments.


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尼康共聚焦显微镜

迈瑞超声


Hvita 3D 活细胞灌流培养系统


类器官打印机

Spica 活细胞成像分析系统

## 佛山微迈科技有限公司

Foshan wemaxnano Technology Co., LTD

Foshan wemaxnano Technology Co., LTD. was established in 2002. Our product portfolio includes Electrospinning Machines, Flash Joule Heating Equipment, Nano Dry Ice Cleaning Equipment, and EHD Printing Equipment.In the field of nanofiber new materials, we offer a range of advanced products such as air filtration media, windproof and waterproof breathable fabrics for apparel, fast-dissolving nanofiber membranes for cosmetics, and waterproof breathable membranes for medical use.Our R&D team holds over 200 patents and has collaborated with more than 10,000 clients worldwide. With over 100 industrial cooperation projects globally, we are committed to continuous innovation and outstanding customer service—aiming to deliver high-value solutions tailored to our clients' needs.We warmly welcome partners and collaborators from around the world to connect and explore opportunities with us.

佛山微迈科技有限公司纳米纤维实验室技术有限公司的研发团队成立于2002年。公司装备产品包括：静电纺丝机、闪蒸焦耳热设备、纳米干冰雪花清洗设备、EHD喷印设备等；纳米纤维新材料产品包括：空气过滤材料、服装用防风防水透气面料、美妆用速溶纳米纤维膜，医疗用防水透气膜等。公司研发团队拥有200多项专利，与10000多家合作客户合作，在全球范围内开展了100多个工业合作案例，公司一直秉持着技术创新和客户服务的理念，努力为客户创造更有价值的产品和提供卓越的服务。我们热烈欢迎来自世界各地的朋友前来洽谈合作。

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生纳科技（上海）有限公司
Sunna Technologies (Shanghai) Co., Ltd.

# 公司简介

Sunna Technologies (Shanghai) Co., Ltd. was established in January 2015, as a high-tech enterprise focusing on the research of small-diameter vascular grafts. It is also the first project introduced from the University of California, Berkeley, through Shanghai Zhangjiang Berkeley Engineering Innovation Center. Sunna was co-founded by Dr. WAYNE WEI-MING DAI, president of CAL Alumni Club of Shanghai, chairman and president of VeriSilicon Microelectronics (Shanghai) Co., Ltd.

Sunna has long been dedicated to specialized fields such as electrospinning, cardiovascular, and regenerative medicine. The company's core R&D products include small-diameter vascular grafts, vascular patches, and related innovations. Its commercially available offerings feature the Sunna stereoscopic nanofiber protective masks, while ongoing research focuses on advanced nanofunctional fiber membrane materials, such as the nanofiber solid facial masks.

生纳科技（上海）有限公司成立于 2015 年 1 月，是一家专注于研究小口径人工血管的高科技企业；是上海张江伯克利工程创新中心从美国加州大学伯克利分校引进的第一个项目。公司由上海伯克利校友会会长，芯原股份创始人、董事长兼总裁戴伟民博士联合创立。

生纳长期深耕于静电纺丝、心血管和再生医学等细分领域。主研产品小口径人工血管、血管补片等，上市产品为生纳立体纳米纤维防护口罩，另在研生纳纳米固态面膜等纳米功能纤维膜材料。

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邮编：201203
电话：+86 21 5898 2086

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- Vascular repair membrane
- Corneal, Pericardial and Soft tissue repair

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WISENT Inc. has been established in Canada since 1992. In 2009, WISENT entered China and established WISENT Biotechnology (Nanjing) Co, LTD. WISENT has supplied leading institutions and bio-pharmaceutical companies with high quality, consistent, and reliable bio-products.

WISENT manufactures and offers a wide variety of tissue culture products and ultra-pure bio-chemicals for molecular biology and microbiology.

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Tech Nova

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BEIJING TECHNOVA TECHNOLOGY CO.,LTD

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公司简介

北京新锐佰纳科技有限公司是一家高科技技术企业。专门从事研发、生产各类实验室及工业级量产静电纺丝纳米纤维膜设备及相关产品。产品种类齐全，具有目前国内种类最为齐全的纳米纤维制造设备，及多种纳米纤维制造方式。

Company Profile

Beijing Technova Technology Ltd is a high-tech enterprise, which specializes in research and production of various laboratories, industrial-grade electrospun nano-fibermembrane equipment and related products. Our company provides not only a full range of products, but also the most varieties of nano-fiber manufactur-ing equipments and modes in China at present.

## 产品种类 Products

电纺丝试验装置-标准型TEADFS-100
Nano fiber test equipment -standard TEADFS-100

电纺丝试验装置-共轭型TEADFS-103
Nano fiber test equipment - conjugated TEADFS-103

多针头膜成型设备 TEADFS-400
Multi-needle nano-fiber equipment TEADFS-400

电纺丝试验装置-多功能纳米纱线型TEADFS-700
Nano fiber test equipment -Nano yarn TEADFS-700

离心式纺丝设备 TEADFS-900
Centrifugal nanofiber equipment TEADFS-900

多种纺丝单元复合一体式静电纺丝装置TEADFS-550
Multi-unit composite nano fiber equipment TEADFS-550

小型量产式静电纺丝设备TEADFS-1000-200
Small manufacturing nano -fiber equipment TEADFS-1000-200

大型量产式静电纺丝设备TEADFS-1000
Large manufacturing nano-fiber equipment TEADFS-1000

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# 东华大学生物与医学工程学院诚聘英才

东华大学生物与医学工程学院的成立是学校为进一步围绕国家战略发展生物经济、服务上海地方经济发展、服务上海发展生物医药等三大先导产业、更好地推进学校“双一流”建设的重要举措。学院历史可追溯至2000年创办的生物工程专业，2004年成立了生物科学与技术研究所，2007年生物科学与技术研究所合并原有的生物工程系，成为新的化学化工与生物工程学院。2022年成立了新的生物与医学工程学院。

学院现在有专任教师45人，其中正高级14人、副高级23人、中级6人。纳入高层次人才计划教师超过60%，包括国家杰出青年基金获得者1名、上海市“东方学者”特聘教授3名、上海市海外高层次人才计划1名、上海市领军人才1名、上海市优秀学术/技术带头人3名、教育部“新世纪优秀人才”2名、上海市浦江人才13名、上海市青年科技启明星人才1名、上海市“晨光计划”青年人才2名、校特聘教授2名等。

学院设有生物医学工程系、生物科学与技术系和一个实验教学中心。拥有“生物工程”国家一流本科专业，生物医学工程本科专业（2025年招生）。学院拥有2个学术型硕士学位授权点（生物医学工程、生物学）和1个专业硕士学位授权点（生物与医药），1个交叉学科博士学位授权点（生物材料学）和1个专业学位博士点（材料与化工），形成了具有本、硕、博三级培养的完整人才培养体系。

学科方向包括生物材料与医疗器械、合成生物学、重大疾病诊疗与纳米医学、柔性电子与智慧医疗四个方向；拟建立生物医用材料与智慧医疗平台、抗衰老与重大疾病诊疗平台、合成生物学与大分子平台、生物学检测平台四个平台。


学院广泛开展国际合作与交流，与美国、德国、新加坡、俄罗斯、葡萄牙等国家有关高校及科研院所保持着密切的科研合作与学术交流，拥有国家留学基金委健康诊疗新技术创新人才培养项目，与多所国外著名高校联合培养研究生，形成了相关领域本、硕、博人才培养高地。

## 招聘信息

一、招聘岗位专业背景要求

生物医学工程、生物学、医学、纺织科学与工程、材料科学与工程、机械工程、先进制造、医学传感技术、数学、物理学、计算机科学与工程、信息科学、仪器科学与技术、医学影像学、药学等相关学科。

二、招聘岗位（教学科研岗位）

| 学科系 | 人才要求 | 招聘人数 | 专业及相关要求 |
|---|---|---|---|
| 生物医学工程系 | 1-3类人才 | 15人 | 医疗器械相关专业；柔性电子与可穿戴医疗；人工智能与智慧医疗；干细胞与组织工程、生物医学影像 |
| 生物科学与技术系 | 1-3类人才 | 10人 | 生物化学与分子生物学、细胞生物学、合成生物学、分子诊断技术、免疫学 |

1、领军人才：从事具有重大创新性、发展前景以及关键共性技术研究工作，并取得具有重要创新和重大影响的标志性成果。在国内外具有重要影响力、学术地位和学术水平，或者在临床医学领域具有重要国际影响。年龄一般不超过50周岁，特别优秀者年龄可以适当放宽。

2、中青年杰出人才：具有特别优秀的科学研究和技术创新潜能，研究方向具有重要创新前景，获得国内外认可的专业成就，取得国内外公认的科研成果。年龄一般不超过40周岁，特别优秀者年龄可以适当放宽。

3、青年优秀人才：教育科研背景良好，具有活跃的创新思维、较强的创新能力和突出的发展潜力，取得高水平、创新性的专业成就。年龄一般不超过35周岁。

三、申请材料

1、个人简历（含基本信息、教育经历、工作经历、发表论文列表或ResearcherID、ORCID、其他成果清单、资格证书等）；

2、最高学历与学位证明；

3、代表作5篇。

生物与医学工程学院常年接收应聘者简历，定期组织新教师招聘集中评审。

有意应聘者，请将上述申请材料发送至：cql@dhu.edu.cn。

联系人：崔老师 021-67792651

学院网址：https://cbm.dhu.edu.cn/

学院公众号：

（DHU生物与医学工程学院）

四、薪资福利

学校和学院将提供具有竞争力的薪资、科研启动费、住房补贴和工作平台。

解决适龄子女就读东华大学附属实验学校。

竭诚欢迎海内外英才加盟东华大学生物与医学工程学院。

上海中侨职业技术大学
做人 做事 做学
SHANGHAI ZHONGQIAO VOCATIONAL AND TECHNICAL UNIVERSITY

# Recruiting Talents to Join School of Food and Pharmacy at Zhongqiao University

In response to the State Council's "Healthy China" 2030 strategy, the School of Food and Pharmacy is based on the three leading industries in Shanghai, seizing the golden opportunity period of rapid development in the biopharmaceutical, food safety, and precision nutrition industries. It has laid out undergraduate vocational education majors in food quality and safety, food nutrition and health, synthetic biotechnology, and drug quality management, providing strong intellectual and talent support for the development of Shanghai's biopharmaceutical and big health industry clusters, and creating a highland of composite innovative high-quality technical and skilled talents.

At present, the school has a total of 52 full-time teachers, 25 part-time teachers, 23 doctors, and 21 teachers with associate senior titles or above. There are 47 "dual teacher" teachers, accounting for 90.38% of the total (full-time teachers). The school has 11 high-level teachers at the provincial and ministerial levels, including provincial academic and technical leaders, provincial outstanding young science and technology experts, Shanghai Morning Light scholars, and Shanghai Yucai Award winners. There are also 3 talents in the Shanghai Recruitment Project Talent Plan, 2 masters in food testing and baking skills, 1 chief technician in Jinshan District, and 1 Shanghai level innovation team in food quality and safety.

The Food and Drug Comprehensive Training Center covers an area of 6250 square meters and has been approved as a Shanghai Municipal Food and Drug Comprehensive Training Center, a Shanghai Demonstration Virtual Simulation Training Base, a Shanghai Agricultural Product Food Primary\Intermediate\Advanced Skills Appraisal Station, a Drug Advanced Technician Appraisal Station, and the seventh batch of modern apprenticeship pilot programs in Shanghai.


We have practical teaching facilities including high-end instruments and equipment such as gas chromatography-mass spectrometry, high-performance liquid chromatography, and laboratories. Currently, we have more than 30 large laboratory rooms and several auxiliary experimental preparation rooms for teaching.

In recent five years, it has won four national awards, five Shanghai municipal gold awards, and more than 80 silver and bronze awards in China International University Student Innovation Competition, "Internet plus", "Challenge Cup" and other innovation and entrepreneurship competitions. The World Vocational College Skills Competition has won one third prize at the national level, over 20 vocational skills awards at the Shanghai municipal level, two gold medals in the national finals, and two gold medals in the International Genetic Engineering Competition.

**Contact information: Jing Ji (Dean)  +86 021-13761759916**



## Introduction of State Key Laboratory of Advanced Fiber Materials

State Key Laboratory of Advanced Fiber Materials（SKLAFM）is hosted by Donghua University, evolving from the former State Key Laboratory for Modification of Chemical Fibers and Polymer Materials. Its origins trace back to China's first chemical fiber specialty. It was founded under the approval of State Development Planning Commission in 1992. It completed the national acceptance in 1996 and passed the national assessment 4 times since 2003. In 2018, SKLAFM was rated as “Excellent State Key Laboratory”. It passed the assessment in 2024, and it is the first key state-level scientific research center of fibers and textiles in China. The laboratory has strongly supported the breakthrough of China's chemical fiber source technology, it has made great contribution to the development of chemical fiber industry of China.

SKLAFM currently focuses on three research themes, including high performance fibers and composite materials, functional fibers and green manufacturing, and intelligent fibers and cutting-edge applications. In 2007, Innovation and Talents Introduction Base of Advanced Fabrication Technology of Fiber Materials was enrolled in the Talents Introducing Program for Disciplinary Innovation of Universities. In 2017, it passed the evaluation and got rolling support of State Bureau of Foreign Affairs and Ministry of Education. In 2018, it was approved to build an international joint laboratory of advanced fibers and low dimensional materials (the "the Belt and Road" international cooperation project); In 2019, 《Advanced Fiber Materials (English)》 was founded (included in databases such as SCIE and EI, IF=17.2, JCR Materials Science Q1 Division), and has been selected as a high starting new journal and English language team project in the "China Science and Technology Journal Excellence Action Plan"; In 2021, it was approved for the construction of an advanced fiber and low dimensional material youth scientific innovation practice workstation; In 2024, the laboratory was selected as a practical teaching base for the "Great Ideological and Political Course" in Shanghai.

The laboratory adheres to the leadership of Party building. The current director of the laboratory is Zhu Meifang, an academician of the CAS Member, and the current director of the academic committee is Zhang Xi, an academician of the CAS Member. At present, there are more than 170 fixed personnel, forming a high-level research team with reasonable talent and age structure. There is a public platform for instruments and equipment, with over 300 sets of large instruments and equipment, 26 engineering test lines, and 24-hour online reservation and opening.

SKLAFM promotes the principle of “Openness, Communication, Cooperation and Competition”. As a state-level research center, SKLAFM will adhere to goal orientation, demand orientation, and problem orientation, and carry out strategic, critical, and original research on advanced fiber materials in response to international frontiers and national needs. It will break through key technologies for extreme manufacturing of high-performance, high- function, and high- intelligent fiber materials, establish an internationally leading center for talent cultivation, scientific research, technological transformation, and academic exchange in fiber materials, and build a national strategic scientific and technological force.

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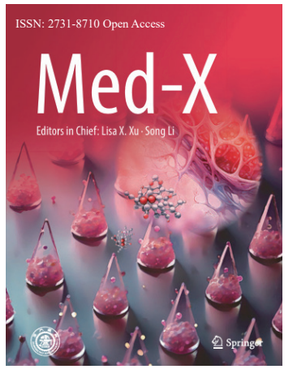


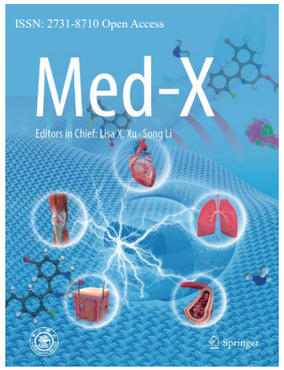


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捷诺飞构筑了产学研深度融合平台，专注生物智造设备、生物材料、医疗器械与组织器官的研发与产业应用，研制了生物3D打印机、生物构造成像仪、自动化实验系统、生物材料、医疗器械与器官芯片等技术领先的产品。为科学研究、精准诊疗、医疗器械制造、新药创制与化妆品检测等领域的客户提供全方位的产品与解决方案，赋能生命科技进步。

Founded in 2013, Hangzhou Regenovo Biotechnology Co., Ltd. is a leading national high-tech enterprise dedicated to advancing breakthrough innovations in life sciences through digital information and bio-intelligent manufacturing technologies.

Regenovo has established a deeply integrated industry-academia-research platform specializing in R&D and industrial applications of bio-intelligent manufacturing equipment, biomaterials, medical devices, and tissue/organ engineering. The company has developed technologically advanced products including 3D-Bioprinters, biological structure imaging systems, automated experimental platforms, biomaterial solutions, medical devices, and organ-on-a-chip technologies. These innovations deliver comprehensive products and solutions for scientific research, precision medicine, medical device manufacturing, drug discovery, and cosmetics testing, empowering advancements in life science technologies.

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