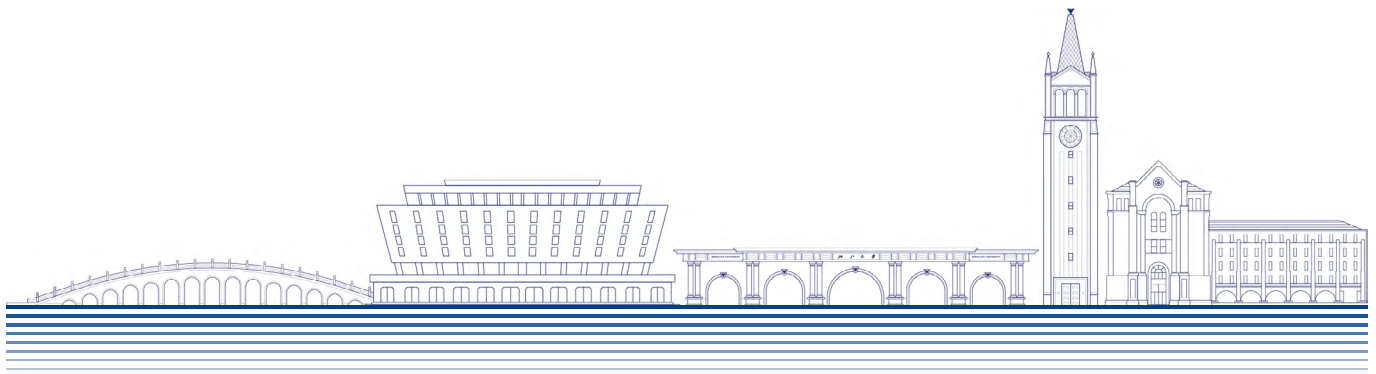


## Main Forum



○ Date: January 5, 2023

Time	Topics	Speakers
<b>Part I Opening Ceremony    Chair: QU Lijuan</b>		
9:00-9:20	Welcome Speech	
9:20-9:40	Annual Academic Progress Report of the International Campus	Prof. WU Jian
9:40-9:50	Awards for Annual Outstanding Academic Achievements of the International Campus	
<b>Part II Keynote Speech    Chair: Prof. WU Jian</b>		
9:50-10:20	Artificial Intelligence and Big Data for Medical Sciences	Prof. XU Zongben
10:20-10:50	Molecular Physiology of Lysosomes	Prof. XU Haoxin
10:50-11:20	Responsible and Reliable Data Intelligence: Frontiers in Large-Scale Statistical Inference	Prof. SUN Wenguang
<b>Part III Discussion    Chair: Prof. WANG Hongwei</b>		
11:20-11:50	Theme: Integrated Science-Education-Industry	



## Session 1: ZJU-UoE Forum(BioMed-X)

Theme: Facing the scientific problems in the field of people's life and health, discussing the advanced interdisciplinary technologies of Biomedicine and Engineering.

Introduction: ZJU-UoE forum speakers include academicians, senior scientists and young scientists from University of Cambridge, University of Edinburgh, Wellcome Sanger Institute, Zhejiang University - University of Edinburgh Institute, Zhejiang University School of Medicine and College of Life Sciences, Zhejiang University. The researchers carried out research progress reports and academic exchanges on the topics of infection immunity and cancer, subcellular biology and cell technology, structural biology and bioinformatics, regeneration and stem cell therapy. Scientific researchers enthusiastically share the mysteries of science, jointly explore the integration of biomedical and engineering knowledge, explore the application prospects of human functional cells, and promote scientific cooperation and biotechnology development.

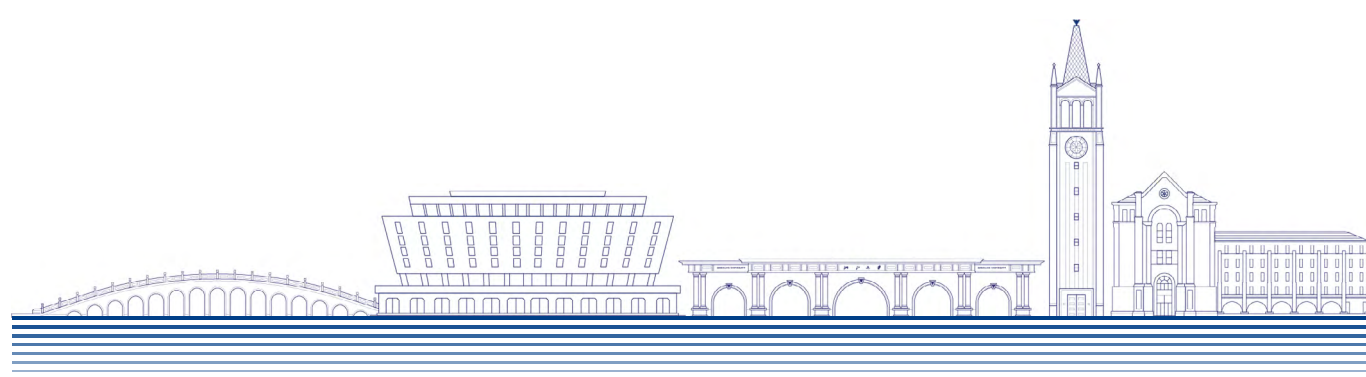
○ Chair: XU Suhong

○ Co-chair: LIU Wanlu, CHEN Di

○ Date: January 5, 2023



Time	Topic	Speaker
13:30-13:35	Opening Speech	Prof. KE Yuehai ZJU-UoE Institute
13:35-14:00	Sustainable Agriculture - From Genes to Crops	Prof. James Michael Whelan College of Life Sciences, Zhejiang University
14:00-14:20	Intracellular heme transport	Prof. CHEN Caiyong College of Life Sciences, Zhejiang University
14:20-14:40	Understanding how abnormal CSNK1D signalling promotes cell proliferation in cancer	Prof. Kuan Yoow Chan ZJU-UoE Institute
14:40-15:00	Cranial suture dissection and reconstruction in Craniosynostosis	Prof. YUAN Yuan ZJU-UoE Institute
15:00-15:20	Multiscale Computational Integrative Structural Biology	Prof. WANG Yong College of Life Sciences, Zhejiang University
15:20-15:40	Decoding and bionic reconstruction of tendon bone	Prof. YIN Zi Zhejiang University School of Medicine
15:40-16:00	Targeted dephosphorylation in tumor vein thrombosis	Prof. KE Yuehai ZJU-UoE Institute
16:00-16:20	Mapping noncoding regulation in populations	Prof. Rob Young The University of Edinburgh
16:20-16:40	TBD	Prof. Richard Sloan The University of Edinburgh
16:40-17:00	Developing single objective light sheet microscope and nano-delivery and injection technology to study the innate immune system activation in neurodegenerative disease	Prof. LI Bing University of Cambridge
17:00-17:30	The cell cycle inside-out	Prof. Buzz Baum University of Cambridge
17:30-18:00	TBD	Prof. Tony Green University of Cambridge
18:00-18:30	Massively parallel mapping of allosteric sites	Prof. Ben Lehner Wellcome Sanger Institute



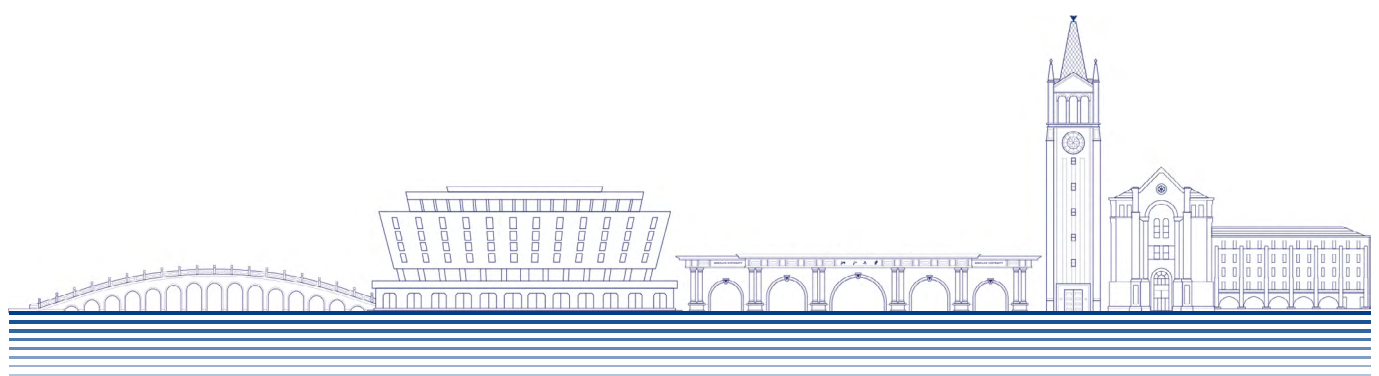
## Session 2: ZJU-UIUC Forum (Engineering<sup>+</sup>)

Theme: The ZJU-UIUC Forum is based on active collaborations among ZJU, Illinois, and the other global partners. It explores Engineering Frontier Challenges in Engineering Sciences for Devices and Applied Materials, Energy, Environment, and Sustainable Systems Sciences.

- Chair: Prof. Der-Horng LEE
- Hosts: HU Huan, PENG Boyu, LI Chushan, FAN Yifan
- Date: January 5, 2023



Time	Topic	Speaker
13:00-13:30	X-ray optics and its micro-nano detection systems and instruments	Prof. LE Zichun
13:30-14:00	Helium ion technology and its application in semiconductor manufacturing and devices	Prof. HU Huan
14:00-14:20	Membrane Surface Engineering for Oily Wastewater Separation: From Materials to Device Design	Prof. YANG Hao-Cheng
14:20-14:40	Functional polyolefins and functional polymer-based nano- materials	Prof. SONG Shaofei
14:40-15:00	3D Nanoprinting Using Nanocluster-Based Photoresist	Prof. LI Qi
15:00-15:30	Renewable Energy Dominated Modern Power System- Challenges, Solutions and Perspectives	Prof. YANG Qiang
15:30-16:00	Functional Microgrid and Consumer-side Energy Internet	Prof. LI Zuyi
16:00-16:30	Towards the design of urban climate	Assoc. Prof. WANG Kai
16:30-17:00	Pathogen transmission and infection control in indoor environments	Assoc. Prof. XIAO Shenglan



## Session 3: ZIBS Forum

Theme: Redefining the Triple Helix: Technology, Business, and Education in Digital Era

Introduction: The 2023 ZIBS academic forum “*Redefining the Triple Helix: Technology, Business, and Education in Digital Era*” brings together deans from world prestigious business schools and scholars from ZIBS, ZJU to actively explore a new mission of the university by rebuilding a new triple helix model. The theme focuses on digitalization in all spheres, mainly including: economy, intelligence business, industry-education-enterprises integration, and talent upgrading in the digital era. The forum will invite young professors and researchers to share their interdisciplinary ideas and thoughts on business and business studies in the new paradigm.

○ Chair: Prof. WANG Cheng

○ Date: January 5, 2023

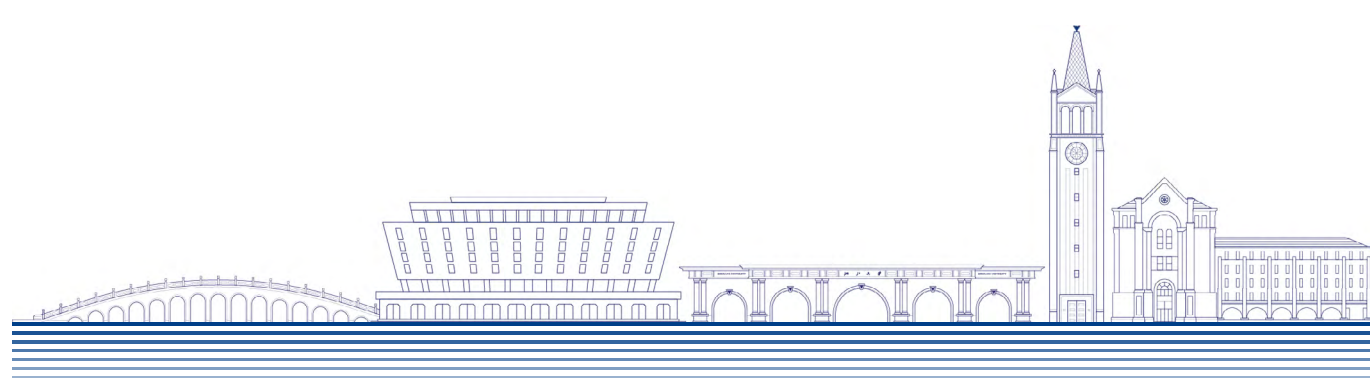


14:00-16:45



19:00-20:30

Time	Topic	Speaker
14:00-14:05	Opening Speech	Assoc. Prof. WANG Cheng
14:05-14:10	Welcome Speech	Prof. BEN Shenglin
<b>Part I Keynote Speech</b>		
14:10-14:40	Green Finance and Sustainable Development	Prof. QIU Ciguan
14:40-15:10	Critical actors to sustain eSports industry in China	Dr.ZHAO Yupei
<b>Part II The Integration of Academia and Industry in the New Business Era</b>		
15:10-15:20	Does Customer Email Engagement Improve Profitability? Evidence from a Field Experiment in Subscription Service Retailing	Asst. Prof. WANG Yiwei
15:20-15:30	Cluster Status and New Venture Creation	Asst. Prof. LUO Lingli
15:30-15:40	Collaboration as a Structural Aspect of Proactive Social Sustainability: the Differential Moderating Role of Distributive and Procedural Justice	Asst. Prof. LIM Jiajia
15:40-15:50	The Behavioral Theory of Entrepreneurial Universities: the Antecedent and Contingency of Slack-rich Entrepreneurship	Dr. LIANG Tian
15:50-15:55	Launching of ZIBS Doctoral Students Forum	
15:55-16:05	2022 ZIBS Research Achievements	Asst. Prof. LEI Linan
16:05-16:15	Annual Research Sharing by International Research Center for Fintech Security	Prof. WEN Wu
<b>Part III University-industry Collaboration and Commercialization</b>		
16:15-16:25	Introduction to the 2022 Internationalization Index of Chinese POEs	Assoc. Prof. WAN Feng
16:25-16:35	Introduction to the 2022 Bank Internationalization Index	Asst. Prof. LI Yuanqi
16:35-16:45	Introduction to the Early Risk Warning System for Outward Chinese POEs	Dr. ZHOU Dong
<b>Part IV Global Deans' Forum</b>		
19:00-20:30	<p><b>New Business Studies/School: the Role of Science, Education, and Industry</b>  <b>Chair: Prof. WEN Wu</b>            Video:            1. Geoffrey Garrett, Dean of Marshall School of Business, University of Southern California            2. Dan LeClair, CEO of Global Business School Network (GBSN)            3. Andrew Rose, Dean of NUS Business School            Online:            1. Didi Achjari, Dean of School of Economy and Business, Gadjah Mada University            2. Nick Barniville, Former Associate Dean of ESMT            3. BEN Shenglin, Dean of Zhejiang University International Business School            4. John Finch, Dean of Adam Smith Business School, University of Glasgow            5. Modimowabarwa Kanyane, Modimowabarwa Kanyane, Executive Dean: Faculty of Management, Commerce &amp; Law, University of Venda            6. Sanjeev Khagram, Director-General &amp; Dean of Thunderbird School of Global Management, Arizona State University            7. Léon Laulusa, Executive Vice-President, Dean for Academic Affairs and International Relations at ESCP Business School            8. Giuliano Noci, Vice Rector for China at Milan University of Technology            9. Steven Roberts, Dean of College of Business and Economics, Australia National University            10. Raul V. Rodriguez, Vice-president of Woxsen University            11. Jose Manuel Martinez Sierra, General Director of the UPF Barcelona School of Management</p>	

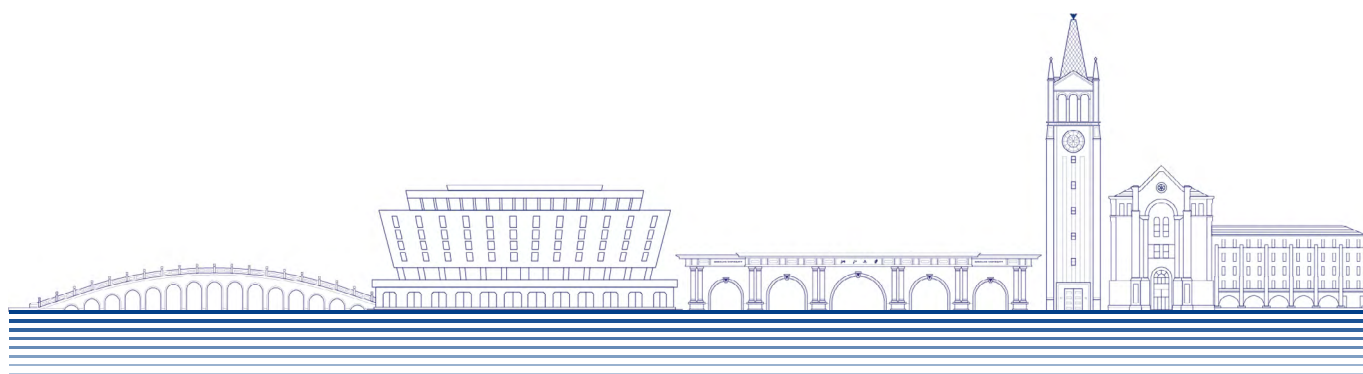


## Session 4: Emerging Optoelectronic and Energy Devices

Introduction: This sub-forum brings together a panel of young experts in the field of emerging optoelectronics, with research topics ranging from thermoelectric and solar energy harvesters, to light-emitting devices.

○Date: January 5, 2023

Time	Topic	Speaker
13:30-13:55	Wave-like nature of phonons in hybrid perovskite MAPbI <sub>3</sub>	Dr. Wee-Liat Ong Associate Professor ZJU-UIUC
13:55-14:20	Quantum dot luminescent materials and their LEDs application	Dr. Xingliang Dai Researcher of Zhejiang University
14:20-14:45	Strain coupling and phase transitions in perovskites	Dr. Dexin Yang Associate professor at Hangzhou Dianzi University
14:45-15:10	Toward solar energy conversion and storage: Design of efficient optoelectronic energy devices	Dr. Meng Zhang Researcher of Zhejiang University
15:10-15:35	Synthetic and spectroscopic study of colloidal quantum dots	Dr. Runchen Lai staff scientist of Westlake University
15:35-16:00	Understanding the electrical-excitation dynamics of quantum-dot light-emitting diodes	Dr. Yunzhou Deng Postdoctoral researcher at Zhejiang University

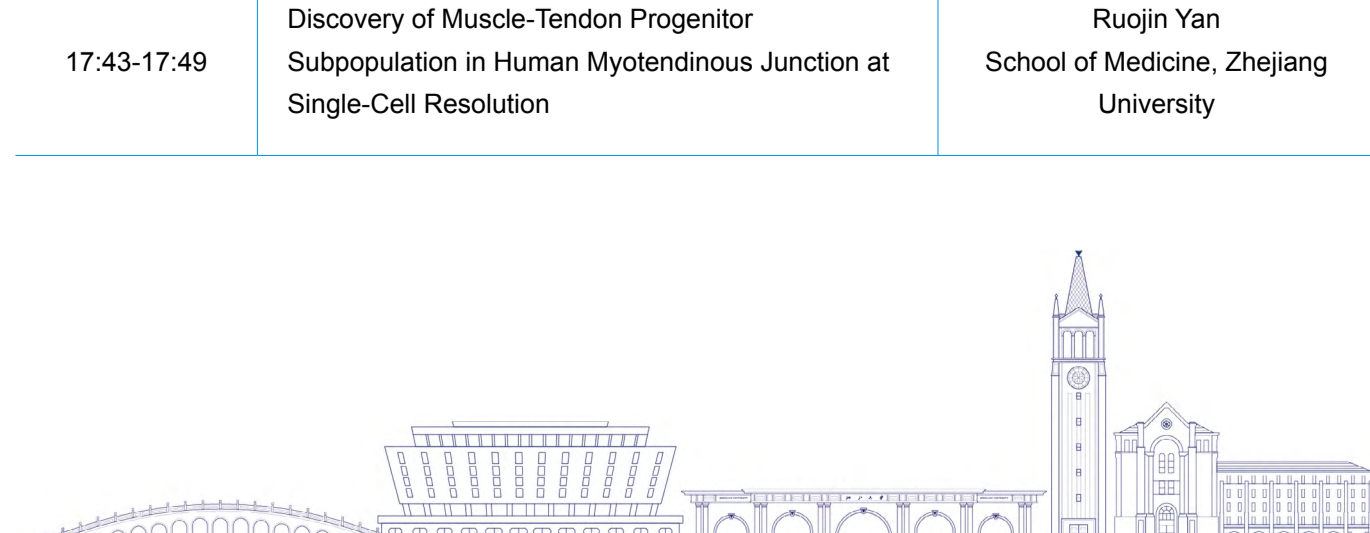


## Session 5: Musculoskeletal System

○ Chairs: CHEN Xiao, SHEN Weiliang  
○ Co-chairs: YIN Zi, RUI Yunfeng  
○ Date: January 5-6, 2023



January 5		
Time	Topic	Speaker
13:30-13:35	Welcome Speech	Prof. OUYANG Hongwei School of Medicine, Zhejiang University International Campus, Zhejiang University
<b>Discussion on Clinical Challenges</b>		
13:35-13:55	Construction of Zhejiang Second orthopedics Department characterized by intelligence and precision	Prof. Zhaoming Ye The Second Affiliated Hospital, Zhejiang University School of Medicine
13:55-14:15	Clinical and basic research topics of knee anterior cruciate ligament regeneration after injury	Prof. Jiakuo Yu Peking University Third Hospital
14:15-14:35	Design and thinking of intelligent bone repair materials for aging orthopedic diseases	Prof. Xuenong Zou First Affiliated Hospital of Sun Yat-sen University
14:35-14:55	Nrf2 epigenetic derepression by running exercise alleviates osteoporosis	Prof. Qing Jiang Affiliated Drum Tower Hospital, Medical School of Nanjing University
<b>New Technology Platform Sharing</b>		
15:05-15:25	Development and exploration of public technology platform of Zhejiang University	Dr. Jun Ruan, Deputy Director Equipment Department of Zhejiang University
15:25-15:45	GPCR Development and exploration of public technology platform of Zhejiang University	Prof. Yan Zhang Zhejiang University School of Basic Medicine
15:45-16:05	Innovation and practice of core facilities construction	Dr. Sanhua Fang Public technology platform, Zhejiang University School of Medicine
16:05-16:25	Opportunities and Challenges for the development of scientific research platform in the construction of international model area	Dr. Lingyan Jia International Campus, Zhejiang University
<b>Advanced Technology In Medicine, Engineering, and Information</b>		
16:25-16:45	Brief talk on big data analysis and typical application for smart medicine	Prof. Chunhui Zhao Control Science and Engineering of Zhejiang University
16:45-17:05	Study on fast deep Penetration high throughput microscopy	Prof. Ke Si College of Optical Science and Engineering, Zhejiang University
17:05-17:25	To explore the application of natural biomaterials in the regeneration and repair of musculoskeletal system	Dr. Xianfeng Lin Sir Run Run Shaw Hospital, Zhejiang University School of Medicine
<b>January 6</b>		
Time	Topic	Speaker
8:50-9:00	Welcome Speech	Prof. OUYANG Hongwei School of Medicine, Zhejiang University International Campus, Zhejiang University
<b>Advanced Research in tendon/ligament repair and regeneration</b>		
9:00-9:20	Clinical significance of study on osseotendon insertion	Prof. Hongbin Lu Xiangya Hospital, Central South University
9:20-9:40	Tendon tissue regeneration and repair based on deep learning and biomimetic materials	Prof. Yan Liu Peking university school and hospital of stomatology
9:40-10:00	Prevention and treatment of tendon adhesion after tendon injury	Prof. Shen Liu Shanghai Jiaotong University affiliated sixth People's Hospital
10:00-10:20	Progress in regenerative repair of tendon defects	Prof. Tingwu Qin West China Hospital, Sichuan University
10:20-10:40	Identifying Features and Therapeutic Potential of Tendon-Enthesis Stem Cells	Prof. Fei Fang Icahn School of Medicine at Mount Sina
10:40-11:00	The Genetic and Molecular Basis of Carpal Tunnel Syndrome	Prof. Bo Gao The University of Hong Kong
11:00-11:20	Design and preparation of biomimetic gradient scaffold for facial tendine-bone tissue repair	Prof. Qiu Jichuan Shandong University
11:20-11:40	The role of CTRP3 in tendinopathy pathogenesis and its therapeutic targeting	Prof. Jion-Hong Kim Seoul National University
11:40-12:00	The highroad to domestic artificial ligament	Prof. Jun Chen Huashan Hospital Fudan University
<b>Advanced Research in Bone/Cartilage Repair and Regeneration</b>		
13:30-13:50	Role of $\beta$ -Catenin signaling pathway in osteoarthritis and spinal degeneration	Prof. Di Chen Shenzhen Institute of Advanced Technology Chinese Academy of Sciences
13:50-14:10	Molecular mechanism of intervertebral disc degeneration	Prof. Guozhi Xiao Southern University of Science and Technology
14:10-14:30	New mechanisms for regulating bone development	Prof. Xiaochun Bai Southern Medical University
14:30-14:50	Surgical treatment of patellofemoral joint disease	Prof. Bing Yue Shanghai Jiao Tong University School of Medicine
<b>Growth of young talents</b>		
14:50-15:10	Classification and intervention of OA based on joint tissue interaction mechanism	Prof. Dongquan Shi Affiliated Drum Tower Hospital, Medical School of Nanjing University
15:10-15:30	Line down-to-earth, steady nature - youth PI research growth experience	Prof. Huiling Cao Department of Biochemistry, School of Medicine, South University of Science and Technology of China
15:30-15:50	Bone marrow microenvironment and bone aging	Prof. Changjun Li Xiangya Hospital, Central South University
15:50-16:10	Fundamentals and transformation of biomaterials	Prof. Yuxiao Lai Shenzhen Institute of Advanced Technology Chinese Academy of Sciences
<b>Submission from Participants</b>		
16:10-16:25	The tendon microenvironment: Engineered in vitro models to study cellular crosstalk (Invited presentation)	Prof. Manuel Gomez-Florit 3B's Research Group, I3Bs - Research Institute on Biomaterials, Biodegradables and Biomimetics, University of Minho
16:25-16:31	Curly nanofiber scaffolds simulating the tendon-bone interface were used to repair large rotator cuff injuries with fat infiltration	MD, Liren Wang Shanghai Jiao Tong University Affiliated Sixth People's Hospital
16:31-16:37	The activation of AMPK-mTOR axis mitigates tendon stem/progenitor cells senescence and delays tendon aging	Dr. Guangchun Dai Zhongda Hospital, Southeast University
16:37-16:43	High glucose induced pyrodeath and apoptosis of tendon stem cells through the HMGB1/TLR4/NF-kB axis	Dr. Panpan Lu Zhongda Hospital, Southeast University
16:43-16:49	Effect of staging sustained-release heparin-BBP on isometric reconstruction of artificial ligaments	HanGao Huashan Hospital, Fudan University
16:49-16:55	Preparation and characterization of 3D-printed PLGA/PLGA-HAP bilayer scaffolds	Luyi Sun Huashan Hospital, Fudan University
16:55-17:01	Clinical follow-up study of rotator cuff tear repair by arthroscopic surgery	Yuting Zhong Huashan Hospital, Fudan University
17:01-17:07	Seeking and identifying time window of antibiotic treatment under in vivo guidance of PbS QDs clustered microspheres based NIR-II fluorescence imaging	Sijia Feng Huashan Hospital, Fudan University
17:07-17:13	NIR-II live imaging study on the degradation pattern of collagen in the mouse model	Huizhu Li Huashan Hospital, Fudan University
17:13-17:19	Biomimetic silk scaffold load with recombinant Klotho protein coating nanospheres	Qingyun Mo Southeast University School of Medicine
17:19-17:25	The role of hardness and macrophage paracrine signals in the tendinogenic differentiation of stem cells	Renwang Sheng Southeast University School of Medicine
17:25-17:31	Effect of biomodified 3D printed scaffolds on the repair of tendon-muscle junction defect	Yuzhi Sun Southeast University School of Medicine
17:31-17:37	Mechanosensitive Piezo1 May Play Crucial Role in Tendon Healing	Lei Lei The Chinese University of Hong Kong
17:37-17:43	Identify the pattern of angiogenesis during skeletal muscle repair in mice with NIR-II live imaging	Mu Chen Huashan Hospital, Fudan University
17:43-17:49	Discovery of Muscle-Tendon Progenitor Subpopulation in Human Myotendinous Junction at Single-Cell Resolution	Ruojin Yan School of Medicine, Zhejiang University



## Session 6: 2022 Postdoctoral Academic Forum

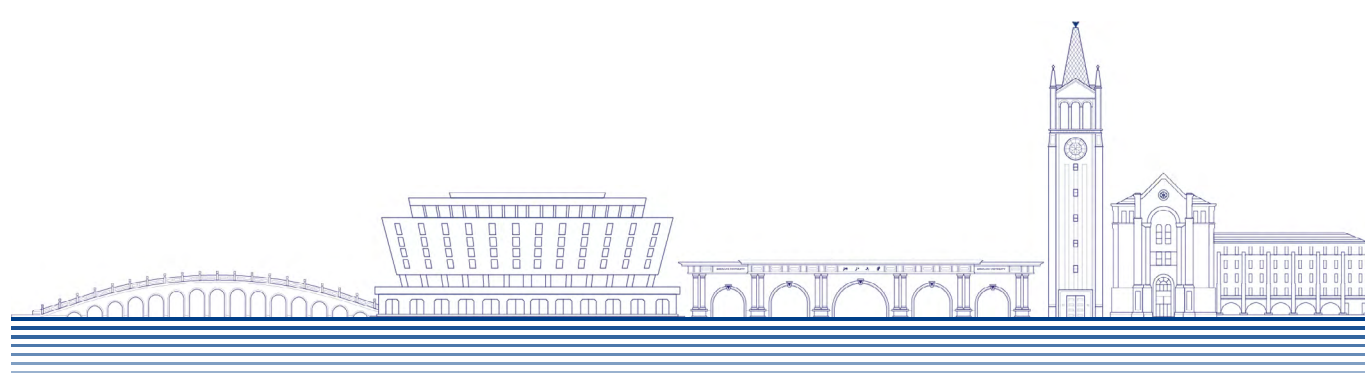
○ Chair: CHEN Ye  
○ Date: January 6, 2023



Time	Topic		Speaker
9:00-9:10	Welcome Speech		Prof. OUYANG Hongwei International Campus, Zhejiang University
9:10-9:25	Speech	The Road of Growth for Young Talents	Prof. Yin Zi Zhejiang University School of Medicine
9:25-9:40		Select the Right Supervisor, Rely on the Platform, and Improve Yourself	Prof. QIAN Jun College of Optical Science and Engineering, Zhejiang University
9:40-9:45	Poster Exhibition		

### Postdoctoral Researchers' Forum

9:45-11:20	Unveiling the role of Biomolecular condensates in Stem Cell fate determination --- A technique approach	Dr. Jiang Jin
	A matrix-targeted cartilage repair with a molecular machine that drives glycosaminoglycan assembly	Dr. Chen Yishan
	Smart DNA hydrogel for targeted cancer therapy	Dr. Zhu Haishuang
	Baseline Correction of Near-fault Ground Motion Records Based on the Hilbert Spectral Analysis	Dr. Chen Xiaoyu
	Research Report: How New Social Strata Contribute to Common Prosperity --- Evidence from the Yangtze River Delta	Dr. Geng Xin
	Identification of potent antimicrobial peptides via a machine-learning pipeline that mines the entire space of peptide sequences	Dr. Huang Junjie
	Graphene Aerogel—Application Research of Bi-curved Structure	Dr. Pang Kai
	Perfecting and extending the near-infrared imaging window	Dr. Feng Zhe
	Photonic-circuited resonance fluorescence of single molecules with an ultrastable lifetime-limited transition	Dr. Liu Weixi
	An attempt to produce recombinant silk-elastin proteins in soybean and rice seeds	Dr. Li Qinxue
Topological phases and topological devices in electromagnetic metamaterials	Dr. Han Ning	
Acoustic non-Hermitian skin effect and non-Hermitian non-reciprocal devices	Dr. Zhang Li	
11:20-11:40	Awarding Ceremony	



## Session 7: Smart City Forum

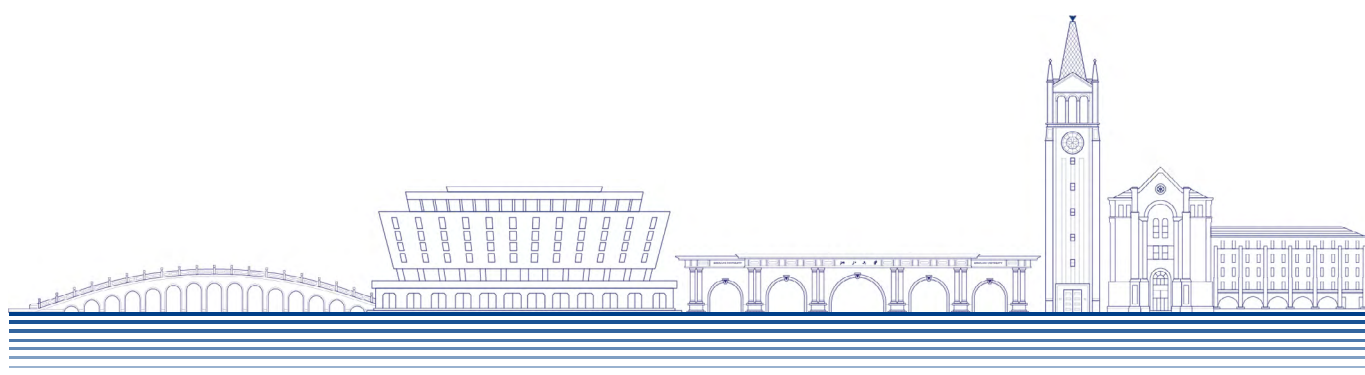
Introduction: Smart city construction is an important content of Digital China, the cornerstone of smart society construction, an important embodiment of urban energy level development and competitiveness improvement, and an important scientific path to promote the modernization of urban governance system and governance capacity. This forum actively responds to the important strategic requirements of national smart city construction, analyzes the development and challenges of current smart city perception technology and digital governance, and conducts a series of in-depth discussions on the construction of future smart cities in view of important challenges such as ubiquitous access, trusted perception, multimodal integration, digital twin, and smart management in future smart city perception.

○ Chair: Prof. Der-Horng LEE

○ Date: January 6, 2023



Time	Topic	Speaker
9:00-9:10	Opening Speech	Prof. Der-Horng LEE Dean of ZJUI, Qiushi Chair Professor, Fellow of Academy of Engineering Singapore
9:10-9:40	Japan's Society 5.0 and Vision for a Digital Garden City Nation	Prof. ZHANG Junyi Professor, Foreign Academician of Japanese Academy of Engineering
9:40-10:10	Development Goals and Priorities of Digital Transportation in the Era of Change	Prof. ZHOU Wei Chairman of the Expert Committee of the Ministry of Transport
10:10-10:40	Planning, Design, Modelling, Simulation and Visualisation Platform for Sustainable Cities	Prof. Washington Ochieng Professor, Fellow of the Royal Academy of Engineering
10:40-11:10	Seamless Mobile Services for Smart Cities	Dr. CHEN Gan Chief engineer of Technology Center of Dongfeng Motor Co., LTD., Chief scientist of Dongfeng Yuexiang Technology Co., LTD
11:10-11:40	The Development and Practice of Urban Digital Twin Technology	Dr. ZHANG Lei Vice President of Alibaba Cloud Intelligence
11:40-12:00	Smart City Construction and Achievement Sharing	Prof. Der-Horng LEE Dean of ZJUI, Qiushi Chair Professor, Fellow of Academy of Engineering Singapore





## Session 8: Information Electronics

Introduction: Information electronics is the cornerstone of modern society. It mainly covers scientific research and engineering implementation of new materials, advanced devices, applied circuits and systems, and intelligent algorithms using electronics as information carriers. This session will share presentations on topics such as micro/nano frontiers, optoelectronic technology, terahertz, quantum, healthcare, advanced electromagnetic fields, and Parity-Time (PT) symmetry.

○ Chair: Prof. Hao Jin, Zhejiang University

○ Date: January 6, 2023



Time	Topic	Speaker
13:50-13:55	Opening	Prof. Hao Jin
13:55-14:20	Mid-Infrared Nano-Optics Based on Hyperbolic Polaritons	Assistant Professor Guangwei Hu
14:20-14:45	Topological terahertz quantum cascade lasers: single-mode operation and beam engineering	Dr. Song Han
14:45-15:10	Subwavelength polariton modulation	Dr. Yingjie Wu
15:10-15:35	Wearable Acoustic Wave Technologies	Prof. Yongqing Fu
15:35-15:50	Large-area, dynamic recording of high-density surface electromyography and its applications	Dr. Chengjun Wang
15:50-16:05	Wireless, ultra-flexible Neural Probe for Optical Stimulation and Multichannel Electrical Recording	Dr. Shun Zhang
16:05-16:20	Non-Hermitian approach to acoustic non-Hermitian skin effect and non-reciprocal devices	Dr. Li Zhang
16:20-16:35	Wave-like Effect in Thermal Metamaterials	Dr. Peichao Cao
16:35-16:50	Twisted Optics	Dr. Xinyan Zhang
16:50-17:05	Topologically Reconfigurable Magnetic Polaritons	Ming Li
17:05-17:20	Radiative Anti-Parity-Time Plasmonics	Yumeng Yang

