ICAFPM2025

PRELIMINARY PROGRAM of ICAFPM 2025

【Forum 1】ICAFPM 2025 Biomedical and Environmentally Friendly Fiber Materials

Topic:

Chairman: 1. Prof. Joao Rodrigues, President, Universidade de Aveiro; 2. Prof. Wenguo Cui (崔文国), President, Ruijin Hospital, Shanghai Jiao Tong University School of Medicine; 3. Prof. Yaopeng Zhang (张耀鹏), Donghua University; 3. Xiangyang Shi (史向阳), Donghua University; 4. Zhengwei You (游正伟), Donghua University.

Nov. 1, 2025 Morning （上午）

Venue: Room No. 5, 3rd Floor

Moderator: Prof. Ling Peng (彭玲), Centre Interdisciplinaire de Nanoscience de Marseille, Aix-Marseille Université; Prof. Lin Wang (王琳), Huazhong University of Science and Technology

Session E	Type	Speaker	Title	Affiliation
9:20-9:35	Keynote	Lin Wang 王琳	Silk Sericin-Based Biomaterials for Tissue Repair and Regeneration 丝胶生物材料在组织修复与再生医学中的应用	Huazhong University of Science and Technology 华中科技大学
9:35-9:50	Keynote	Ling Peng 彭玲	Self-assembling supramolecular dendrimer-based nanomedicine	Centre Interdisciplinaire de Nanoscience de Marseille, Aix-Marseille Université 法国马赛纳米科学跨学科研究中心
9:50-10:05	Keynote	Xiangyang Shi 史向阳	Phosphorus dendrimers deliver proteins for cooperative therapy of brain diseases 含磷树状大分子递送蛋白用于脑部疾病协同治疗	Donghua University 东华大学
10:05-10:17	Invited	Jifu Mao 毛吉富	Polypyrrole-based conductive fibers for myocardial repair 聚吡咯基导电纤维集合体用于心肌修复	Donghua University 东华大学
10:17-10:29	Invited	Haoyi Li 李好义	Melt differential electrospun fiber materials and their applications in biomedicine 熔体微分电纺纤维材料及其生物医用	Beijing University of Chemical Technology 北京化工大学
10:29-10:41	Invited	Huixia Xuan 轩慧霞	Determination and application of dynamic biomedical elastomer 动态生物医用弹性体的评价和应用	Shanghai University of Engineering Science 上海工程技术大学
10:41-10:51	Oral	Dingming Yu 俞丁铭	Meta-Aerogel Electric Trap Enables Instant and Continuable Pathogen Killing in Face Masks 超气凝胶电陷阱实现口罩内病原体的瞬时可持续杀灭	Ruijin Hospital, Shanghai Jiao Tong University 上海交通大学瑞金医院
10:51-11:01	Oral	Shichun Cao 曹诗春	Metal-chelated polyurethane with radiotherapy sensitization effect 具有放疗增敏作用的金属螯合聚氨酯材料	Donghua University 东华大学
11:01-11:21	Oral	Renhao Yang 杨仁豪	synergistic bio-filter tube for promoting scarless tendon regeneration 一种用于促进肌腱再生的结构异性定向3D打印套管	Ruijin Hospital, Shanghai Jiao Tong University 上海交通大学瑞金医院
11:21-11:31	Oral	Zekai Wu 吴泽凯	Dynamic crosslinked topological network reconciles the longstanding contradictory properties of polymers 动态交联拓扑网络实现聚合物高性能与易加工性的统一	Donghua University 东华大学

11:31-11:41	Oral	Huazhen Liu 刘华振	In-Situ Fabricated Living Nanofiber Scaffolds with Stem Cell-Chlorella pyrenoidosa for Synergy Enhance Diabetic Wound Healing	Ruijin Hospital, Shanghai Jiao Tong University 上海交通大学瑞金医院
11:41-11:51	Oral	Yonghong Hu 胡永红	Gynostemma Pentaphyllum -Derived Vesicles-like Nanovesicles Ameliorate Liver Fibrosis by Suppressing Hepatic Stellate Cell Activation 绞股蓝来源外泌体样纳米囊泡抑制肝星状细胞活化改善肝纤维化的作用研究	Shanghai University of Traditional Chinese Medicine Affiliated Shuguang Hospital 上海中医药大学附属曙光医院
11:51-12:01	Oral	Xianghao Xiao 肖向豪	Smart dendrimer nanogels boost mRNA-based cancer therapy via synergistic glycolysis inhibition and immune activation	Donghua University 东华大学
Nov. 1, 2025 Afternoon （下午）				
Venue: Room No. 5, 3rd Floor				
Moderator: Prof. Peiyi Wu (武培怡), Donghua University; Prof. Changyou Gao (高长有), Zhejiang University				
Session E	Type	Speaker	Title	Affiliation
13:20-13:35	Keynote	Changyou Gao 高长有	Self-adaptive biomaterials for tissue repair and regeneration	Zhejiang University 浙江大学
13:35-13:50	Keynote	Bin Li 李斌	Intervertebral Disc Regeneration: Multimodal Mechano- and Multi-microenvironmental Regulation 椎间盘再生：多模态力学与多重微环境调控	Soochow University 苏州大学
13:50-14:05	Keynote	Jiacan Su 苏佳灿	Bone organoids:basic research and translation 骨类器官：研究与转化	Xin Hua Hospital Affiliated to Shanghai Jiao Tong University School of Medicine 上海新华医院
14:05-14:20	Keynote	Chong Cheng 程冲	Artificial Enzyme-based Biomedical Materials 人造酶生物医用材料	Sichuan University 四川大学
14:20-14:35	Keynote	Jun Wu 吴钧	Targeted Drug Delivery and Direct Disease Treatment with Therapeutic Biomaterials 可靶向递送药物及直接治疗疾病的治疗型生物材料	The Hong Kong University of Science and Technology 香港科技大学
14:35-14:50	Keynote	Xueqing Zhang 章雪晴	Developing Lipid-based Delivery Systems for RNA therapeutics 脂质纳米载体设计及其在RNA药物研发的探索	Shanghai Jiao Tong University 上海交通大学
14:50-15:02	Invited	Changming Dong 董常明	Multifunctional Polypeptide Nanomedicine and Nanovaccine for Combination Cancer Therapy	Shanghai Jiao Tong University 上海交通大学
15:02-15:12	Oral	Yujie Jia 贾宇杰	Simultaneous improvement of mechanical strength, toughness, and self-healability of elastomers enabled by F—H-bond-based nanoconfinement 氟氢键纳米限域策略同步提高弹性体的强度、韧性和自修复性	Donghua University 东华大学
15:12-15:30	**Coffee Break（茶歇）**			
Moderator: Prof. Hangrong Chen (陈航榕), Shanghai Institute of Ceramics, Chinese Academy of Sciences; Prof. Chuanliang Feng (冯传良), Shanghai Jiao Tong University				
Session E	Type	Speaker	Title	Affiliation
15:30-15:45	Keynote	Hangrong Chen 陈航榕	Responsive Organic-Inorganic Composite Hydrogels for High-efficient Antitumor Treatment	Shanghai Institute of Ceramics, Chinese Academy of Sciences 中国科学院上海硅酸盐研究所

15:45-16:00	Keynote	Chuanliang Feng 冯传良	Biological Properties of Chiral Hydrogels 手性水凝胶的生物特性	Shanghai Jiao Tong University 上海交通大学
16:00-16:15	Keynote	Yongsheng Li 李永生	Silica-based Nanohybrids for High-efficacy Cancer Therapy 氧化硅基纳米杂化材料及其肿瘤高效治疗性能	East China University of Science and Technology 华东理工大学
16:15-16:30	Keynote	Shen Liu 刘珅	The effect and application of peritendinous anti-adhesion biomaterials 防肌腱粘连材料的作用与应用	Shanghai Sixth People's Hospital 上海市第六人民医院
16:30-16:42	Invited	Yifan Si 司一帆	Bioinspired Janus Electrospinning Dry Facial Masks with Directional Water Transport 仿生单向导湿静电纺丝干态面膜	Sichuan University 四川大学
16:42-16:54	Invited	Kui Luo 罗奎	Peptide-based dendritic polymers for cancer therapy	West China Medical Center, Sichuan University 四川大学华西医学院
16:54-17:06	Invited	Ruijiao Dong 董瑞蛟	Synthesis and Application of Ordered Functional Polymeric Materials 有序功能高分子材料的合成及应用	Shanghai Jiao Tong University 上海交通大学
17:06-17:18	Invited	Mufang Li 李沐芳	Structural Requlation of Biomass-BasedGel Fibers and Their Applications inSmart Wearable Devices 生物质基凝胶纤维的结构调控及其在智能可穿戴领域的应用	Wuhan Textile University 武汉纺织大学
17:18-17:30	Invited	Xiaoran Li 李晓然	Fabrication of Biointerfacial Fiber-Based Biomaterials for Tissue Repair	Donghua University 东华大学
17:30-17:42	Invited	Xiaoxiao Li 李晓晓	Programmable Hydrogel Microspheres: A Precision Delivery Strategy for Bone and Cartilage Regeneration 可编程”凝胶微球：面向骨与软骨再生的精准递送策略	Shanghai Jiao Tong University 上海交通大学
17:42-17:54	Invited	Zhi Geng 耿志	Antifouling Medical Catheters and Cell Capture Sensing Electronic Devices through the Synergistic Effect of Hydrophilic Side Chains 协同亲水侧链驱动的抗污医疗导管与细胞捕获传感电子器件	Shanghai University 上海大学
17:54-18:04	Oral	Sihan Jiang 姜思涵	Design and Preparation of Gelatin Glycerohydrogels and Their Applications 明胶甘油水凝胶在生物医学领域的应用	Ningbo No.2 Hospital 宁波市第二医院

Nov. 2, 2025 Morning

Venue: Room No. 5, 3rd Floor

Moderator: Prof. Jian Ji (计剑), Zhejiang University; Prof. Zhengwei Mao (毛峥伟), Zhejiang University

Session E	Type	Speaker	Title	Affiliation
8:20-8:35	Keynote	Jian Ji 计剑	Data-Driven Tissue-Inductive Regenerative Materials and Devices 数字驱动的组织诱导再生材料和器械	Zhejiang University 浙江大学
8:35-8:50	Keynote	Zhengwei Mao 毛峥伟	High Performance Protein Based Tissue Sealant 高性能蛋白基组织粘合剂	Zhejiang University 浙江大学
8:50-9:05	Keynote	Dahua Shou 寿大华	Intelligent Fiber Materials for Personalized Healthcare and Wellbeing	The Hong Kong Polytechnic University 香港理工大学
9:05-9:20	Keynote	Xiumei Mo 莫秀梅	Electrospun Nanofiber for Soft and Hard Tissue Engineering	Donghua University 东华大学

9:20-9:32	Invited	Yunlu Dai 代云路	Metal Coordination Biomaterials for Drug Delivery	University of Macau 澳门大学
9:32-9:44	Invited	Tianzhu Zhang 张天柱	Collagen-Inspired 3D Printing Electrospinning Biomimetic Patch for Abdominal Wall Defect Regeneration 受胶原启发的3D打印电纺4A-PLGA-GPO腹壁缺损再生补片	Southeast university 东南大学
9:44-9:56	Invited	Zhicai Yu 于志财	Bio-based self-healing temperature sensing electronic fiber with a wide operating temperature range 生物基宽温域自愈合温度传感电子纤维	Wuhan Textile University 武汉纺织大学
9:56-10:06	Oral	Yalin Zhang 张雅林	Rhizome Inspired Liquid-Management Membrane to Promote Wound Healing 受根茎植物启发的液体门控敷料	Donghua University 东华大学
10:06-10:20	**Coffee Break（茶歇）**			
Moderator: Prof. Hongjing Dou (窦红静), Shanghai Jiaotong University; Prof. Bo Zhu (朱波), Shanghai University				
Session E	Type	Speaker	Title	Affiliation
10:20-10:35	Keynote	Xinquan Jiang 蒋欣泉	Advances in Oral and Maxillofacial Tissue Regeneration: From Novel Strategies to Clinical Applications 口腔颌面部再生修复的基础与转化研究进展	ShangHai Stomatological Hospital, Fudan Unversity 上海市口腔医院
10:35-10:50	Keynote	Hongjing Dou 窦红静	Cell-Mimic Materials and Their Biomedical Applications 仿细胞材料及其生物医学应用	Shanghai Jiaotong University 上海交通大学
10:50-11:02	Invited	Yulin Li 李玉林	Minimally Invasive Injectable Nanofiber-Reinforced Bioactive Bone Implants 微创可注射纳米纤维增强高活性人工骨	East China University of Science and Technology 华东理工大学
11:02-11:14	Invited	Cuidi Li 李翠笛	Regenerative medicine applications of personalized calcium phosphate-based implants 个性化钙磷基植入物的再生医学应用	Ruijin Hospital, Shanghai Jiao Tong University 上海交通大学瑞金医院
11:14-11:26	Invited	Fei Wang 王非	Janus anti-adhesion gene patch for tendon adhesion prevention Janus 防粘连基因贴片抑制肌腱粘连	Ruijin Hospital, Shanghai Jiao Tong University 上海交通大学瑞金医院
11:26-11:38	Invited	Huan Xu 徐欢	多模式冷却PLA超织物与高舒适热管理	China University of Mining & Technology 中国矿业大学
11:38-11:50	Invited	Xiaomeng Zhu 朱笑蒙	基于双交联网络结构的丝素蛋白骨钉在骨科内固定系统中的研究	Shanghai Rege-Innovation Medical Technology Co., LTD 上海锐捷荣创医疗科技有限公司
11:50-12:00	Oral	Menglong Wang 王梦龙	The Coupling of Gradient Mechano-Electrical Microenvironments Promotes Interface Regeneration via Ca^{2+} Signaling Activation 梯度力电微环境通过调控Ca^{2+}通道促进界面再生	Ruijin Hospital, Shanghai Jiao Tong University 上海交通大学瑞金医院
Nov. 2, 2025 Afternoon （下午）				
Venue: Room No. 5, 3rd Floor				
Moderator: Prof. Yiyun Cheng (程义云), East China Normal University; Prof. Wenguo Cui (崔文国), Ruijin Hospital, Shanghai Jiao Tong University				
Session E	Type	Speaker	Title	Affiliation
13:20-13:35	Keynote	Haobo Pan 潘浩波	Advances and Perspectives in Regenerative Biomaterials 再生医学前沿思考	Shenzhen Institute of Advanced Technology，Chinese Academy of Sciences 中国科学院深圳先进技术研究院

13:35-13:50	Keynote	Wenguo Cui 崔文国	Short Fiber Nasal Drops for Treating Brain Neurological Disorders 短纤维滴鼻液治疗脑部神经疾病研究	Ruijin Hospital, Shanghai Jiao Tong University 上海交通大学瑞金医院
13:50-14:05	Keynote	Zhengwei You 游正伟	Biomimetic elastomers, 3D printing and biomedical applications	Donghua University 东华大学
14:05-14:17	Invited	Jing Gao 高晶	Gradual biofilm clearance and immune regulation strategy to chronic wound and fibrosis technology 慢性伤口生物膜分阶清除免疫调控策略与纤维成型技术	Donghua University 东华大学
14:17-14:29	Invited	Junyou Wang 王俊有	Functional Polyelectrolyte Nanocarriers for Biomacromolecular Therapeutics Delivery 聚电解质功能载体设计与递送生物大分子药物研究	East China University of Science and Technology 华东理工大学
14:29-14:41	Invited	Shenglin Qiao 乔圣林	Intelligent Fiber-Based Sensors for Continuous Monitoring of Levodopa Concentration and Real-Time Parkinson Management	Qingdao University of Science and Technology 青岛科技大学
14:41-14:53	Invited	Long Li 李龙	Design and application of precise self-assembly fibers for biomolecules 生物分子精确自组装纤维的设计及应用	Fudan University 复旦大学
14:53-15:03	Oral	Yinghua Tao 陶英华	Adipose-Derived Stem Cell-derived Exosomes Encapsulated Patch for Modulating Inflammation and Promoting Tissue Regeneration 脂肪源性外泌体补片用于调控炎症与促进组织再生	Donghua University 东华大学
15:03-15:20	**Coffee Break（茶歇）**			
Moderator: Prof. Xiangyang Shi (史向阳), Donghua University; Prof. Xiumei Mo (莫秀梅), Donghua University				
Session E	Type	Speaker	Title	Affiliation
15:20-15:35	Keynote	João Rodrigues	Fluorodendrimers synthesis and biological studies	Universidade de Aveiro 阿威罗大学
15:35-15:50	Keynote	Subhas C. Kundu	Silkworm silk fibers: Are they the best fibers for healthcare?	University of Minho 葡萄牙米尼奥大学
15:50-16:05	Keynote	Samuel Chigome	Advancement of Electrospun Nanofiber based Research in Africa	Botswana Institute for Technology Research and Innovation 博茨瓦纳技术研究与创新研究所
16:05-16:20	Keynote	Ana Leite Oliveira	From Structure to Signal: Engineering Materials that Recreate the Extracellular Environment	University Portuguese Catholic 葡萄牙天主教大学
16:20-16:32	Invited	Yong Wang 王勇	Polymeric carriers overcoming the dense stromal barrier for efficient drug delivery and cancer immunotherapy 聚合物载体突破致密基质屏障实现高效药物递送与肿瘤免疫治疗	Jinan University 暨南大学
16:32-16:44	Invited	Lijie Sun 孙利杰	Continuous melt spinning of tough and self-healing ionogel fibers based on dynamic oxime-urethane bonds 基于动态肟氨酯键的强韧自愈合离子凝胶纤维的连续化制备	The Second Affiliated Hospital Zhejiang University School of Medicine 浙江大学医学院附属第二医院
16:44-16:54	Oral	Yan Li	Incorporation of Gentamicin-Encapsulated Poly(lactic-co-glycolic acid) Nanoparticles into Polyurethane/Poly(ethylene oxide) Nanofiber Scaffolds for Biomedical Applications	Colorado State University 科罗拉多州立大学
16:54-17:04	Oral	Shunqi Hu 胡舜琪	Functionalized vascular grafts with in situ expression of engineered antibodies by endothelial cells for anti-stenosis 通过内皮细胞原位表达工程化抗体实现抗狭窄的功能化血管移植物	Shanghai Jiao Tong University 上海交通大学
17:04-17:14	Oral	Mian Zhai	Upcycling Textile Waste: Keratin Regeneration and Cellulose/Keratin Hybrid Fiber Development	Aalto University 阿尔托大学
17:14-17:24	Oral	Huanwei Shi 史桓玮	3D-printed bioactive cardiac patch for myocardial infarction treatment 3D打印生物活性心肌补片用于心梗治疗	Donghua University 东华大学

17:24-17:34	Oral	Jiasha Wu 吴嘉莎	The Construction and Application of Nano-PROTAC: Advancing the Frontiers of Innovative Targeted Therapy Nano-PROTAC的构建与应用：靶向治疗创新前沿的探索	Shanghai University 上海大学
17:34-17:44	Oral	Haoliang Chen 陈昊良	Adaptable covalently cross-linked fibers 适应性共价交联纤维	Donghua University 东华大学
17:44-17:54	Oral	Xiaohu Li 李小虎	Injectable short fibers functionalized by surface-modified genes inhibit intervertebral disc degeneration by reversing collagen aging 表面修饰基因功能化的可注射短纤维通过逆转胶原蛋白老化抑制椎间盘变性	Tongji Unversity 同济大学
17:54-18:04	Oral	Furu Yang 杨福茹	An encapsulation-free and hierarchical porous triboelectric scaffold with dynamic hydrophilicity for efficient cartilage regeneratio 用于高效软骨再生的具有动态亲水性的无封装分层多孔三电支架	Donghua University 东华大学