

International Forum of Biomedical Materials

— Biomaterials Interfaces and Nanobiomaterials

Aug 1 – 3, 2016, Hangzhou, China

3rd circular



During the past decades, significant developments in the field of biomedical materials have been achieved. The International Forum of Biomedical Materials (IFBM), which is held at Hangzhou every 2 years since 2012, aims to provide a unique forum for communication and discussion in fundamental science, technology and application of the biomedical materials, by bringing together leading international scientists and engineers. One of the important aims of IFBM is to promote the scientific and technical growth in this field..

You are highly welcome to participate in this forum!





Organization

◆ Organizer

Institute of Biomedical Macromolecules, Zhejiang University

◆ Scientific committee

Chairman: Jiacong Shen

◆ Chairman

Changyou Gao

◆ Secretary in general

Lie Ma

Topics

- Surface/interfaces of biomaterials
- Nano and colloidal biomaterials
- Advanced drug delivery system
- Biomaterials for diagnosis and detection
- Materials for tissue engineering and regenerative medicine
- Biomedical products and biosafety study

Presentation

◆ Time for Presentation

Keynote Speaker: 25 min (20 + 5 min discussion)

Invited Oral: 20 min (15 + 5 min discussion)

- ◆ Each presentation room is equipped with a laptop and a projector. Speakers may also use their own laptop, but are kindly recommended to test the connection and PPT in prior.

Poster Presentation

The posters should be prepared with a size of 120 cm (Height) x 90 cm (Width). All posters will be numbered and presented on Aug. 2-3. Authors are kindly requested to be in front of the poster at least during the obligation time for presentation and discussion.





Aug.1	14:00-20:00	Registration Open (Hotel lobby)		
Aug. 2	8:30-9:00	Opening ceremony (<i>Hua Gang Ting, 4th floor</i>)/Photo taken		
		Concurrent I: Nanomaterials & nanomedicine I (<i>Hua Gang Ting, 4th floor</i>)	Concurrent II : Materials for regenerative medicine I (<i>Gui Yu Ting, 3rd floor</i>)	Concurrent III: Surface and interface of biomaterials I (<i>Huan Bi Ting, 3rd floor</i>)
		Chair: Linqi Shi	Chair: Tingfei Xi	Chair: In-Seop Lee
	9:00-9:25	To be confirmed Zhongwei Gu (Keynote) <i>Sichuan University, China</i>	To be confirmed Guoping Chen (Keynote) <i>National Institute for Materials Science, Japan</i>	A systematic comparison of biodegradation behaviors of absorbable metal: in standardized immersion in vitro, vascular bioreactor ex vivo and in vivo study Nan Huang (Keynote) <i>Southwest Jiaotong University, China</i>
	9:25-9:50	PGMA-based gene vectors with hydroxyl-rich groups Fujian Xu (Keynote) <i>Beijing University of Chemical Technology, China</i>	Smart DNA hydrogels Dongsheng Liu (Keynote) <i>Tsinghua University, China</i>	Dip-pen nanodisplacement lithography for constructing patterned 3D polymer surfaces for controlling cell behavior Zijian Zheng (Keynote) <i>The Hong Kong Polytechnic University, China</i>
	9:50-10:10	Photon-responsive DNA nanomaterials Pik Kwan Lo (Invited) <i>City University of Hong Kong, China</i>	Peptide hydrogels as immune adjuvants Zhimou Yang (Invited) <i>Nankai University , China</i>	Antimicrobial nylon-3 as synthetic mimics of host defense peptide Runhui Liu (Invited) <i>East China University of Science and Technology, China</i>
	10:10-10:40	Coffee break/Poster session		
		Chair: Zhongwei Gu	Chair: Guoping Chen	Chair: Nan Huang
	10:40-11:05	Self-assembly and functionalization of block polymers/porphyrins Linqi Shi (Keynote) <i>Nankai University, China</i>	To be confirmed Tingfei Xi (Keynote) <i>Peking University , China</i>	Inorganic layers formed on various substrates as for drug reservoirs In-Seop Lee (Keynote) <i>Yonsei University, Korea</i>
	11:05-11:30	Polymer particles with tunable surface textures for controlled cellular uptake Jintao Zhu (Keynote) <i>Huazhong University of Science and Technology, China</i>	Mechanical control and modeling of human pluripotent stem cells Jianping Fu (Keynote) <i>University of Michigan, USA</i>	Chiral polymeric biointerface materials—from bio-recognition to bio-functions Taolei Sun (Keynote) <i>Wuhan University of Technology, China</i>
	11:30-11:55	Translocation, biological fate, stability and effective dose of engineered nanomaterials for nanosafety studies and nanomedicine Sergio Moya (Keynote) <i>CIC Biomagune, Spain</i>	Engineered bone tissues: from regenerative medicine to disease models Mark Chong (Keynote) <i>Nanyang Technological University, Singapore</i>	Making oligonucleotides better drugs by brush polymers Ke Zhang (Keynote) <i>Northeastern University, USA</i>
	11:55-12:15	Glyco-nanoparticles for regulating immune response Guosong Chen (Invited) <i>Fudan University, China</i>	Bio-functionalization of tissue-engineered vascular grafts (TEVG) to promote in situ tissue regeneration Qiang Zhao (Invited) <i>Nankai University , China</i>	Dental restorative/antibacterial materials with tight interface binding force bioinspired from salivary acquired pellicle Jianshu Li (Invited) <i>Sichuan University, China</i>
	12:15-14:00	Lunch (<i>Western restaurant, 1st floor</i>)		



Aug. 2

	Concurrent I: Nanomaterials & Nanomedicine II (Yun Xi Ting, 3 rd floor)	Concurrent II: Materials for regenerative medicine II (Gui Yu Ting, 3 rd floor)	Concurrent III: Surface and interface of biomaterials II (Huan Bi Ting, 3 rd floor)
	Chair: Sergio Moya	Chair: Jianping Fu	Chair: Ke Zhang
14:00- 14:25	Responsive polymer nanocarriers rationally deliver antineoplastic agents Xuesi Chen (Keynote) Changchun Institute of Applied Chemistry, CAS, China	Design, fabrication and assessment of multifunctional tissue engineering scaffolds Min Wang (Keynote) The University of Hong Kong, China	To be confirmed Hong Chen (Keynote) Suzhou University, China
14:25-14:50	Bio- and cyto-compatible particles and capsules by all-aqueous processing Ho Cheung Shum (Keynote) The University of Hong Kong, China	A methodology for the design and applications of citrate biomaterials Jian Yang (Keynote) The Pennsylvania State University, USA	Tailorable polymer crystalline surfaces for cell stimulation and sensing Shanfeng Wang (Keynote) The University of Tennessee, USA
14:50-15:10	TiO ₂ nanomaterials based molecular probes for breast cancer therapy Aiguo Wu (Invited) Ningbo Institute of Materials Technology and Engineering, CAS, China	Recent trends of dental biomaterials for tissue regeneration Byung-Ho Yoon (Invited) Biomaterials R&D center, Korea	Contact-active antimicrobial cationic polymer-graphene oxide nanohybrids with high potency and selectivity Peng Li (Invited), Nanjing Tech University, China
15:10-15:30	A holistic approach to optimal nanomedicine delivery by surface charge modulation Yucai Wang (Invited) University of Science and Technology of China, China	Controlled fabrication and biomedical applications of stimuli-responsive hydrogels Decheng Wu (Invited) Institute of Chemistry, CAS , China	A phenotype in <i>Pseudomonas aeruginosa</i> persistently adheres on various surfaces to resist the washing Fan Jin (Invited) University of Science and Technology of China , China
15:30-16:00	Coffee break/Poster session		
16:00-18:00	Activity of International Summer School for Biomaterials (ISSB) (Gui Yu Ting, 3 rd floor)/Poster session		
18:00	Dinner (Western restaurant, 1 st floor)		



Aug. 3		Concurrent I: Nanomaterials & nanomedicine III <i>(Yun Xi Ting, 3rd floor)</i>	Concurrent II: Materials for regenerative medicine III <i>(Gui Yu Ting, 3rd floor)</i>	Concurrent III: Surface and interface of biomaterials III <i>(Huan Bi Ting, 3rd floor)</i>
		Chair: Mingyuan Gao	Chair: Dong-an Wang	Chair: Jian Ji
	8:30-8:55	To be confirmed Xiqun Jiang (Keynote) <i>Nanjing University, China</i>	Multifunctional stem cell delivery systems for ischemic limb regeneration Jianjun Guan (Keynote) <i>The Ohio State University, USA</i>	Cationic polymers for antimicrobial effects for various applications Chan Bee Eng Mary (Keynote) <i>Nanyang Technological University, Singapore</i>
	8:55-9:20	Multiscale biomaterials for enriching and eliminating cancer stem cells Xiaoming He (Keynote) <i>The Ohio State University, USA</i>	Bioskiving: bioinspired fabrication of nanostructures from tissue slices Qiaobing Xu (Keynote) <i>Tufts University, USA</i>	Multivalent Ephrin-B2 biomaterials to control arterial venous differentiation of pluripotent stem cells. Guohao Dai (Keynote) <i>Rensselaer Polytechnic Institute, USA</i>
	9:20-9:40	Biodegradable polymer nanoparticles as carriers for lung drug delivery Nazrul Islam (Invited) <i>Queensland University of Technology, Australia</i>	The Surface functionalization of polypropylene and its antiadhesion efficacy in experimental hernia repair Tianzhu Zhang (Invited) <i>Southeast University, China</i>	Mediated cell migration and adhesion on structured substrates Jun Fu (Invited) <i>Ningbo Institute of Materials Technology and Engineering, CAS, China</i>
	9:40-10:00	Compilation of AIE derivatives into polyplex for pursuit of improved colloidal stability and utility in tracing intracellular DNA trafficking Hui Gao (Invited) <i>Tianjin University of Technology, China</i>	Keratin based wound dressing and drug carrier Jiang Yuan (Invited) <i>Nanjing Normal University, China</i>	Multifunctional and universal proteinaceous coating inspired by amyloid-mediated bioadhesion Peng Yang (Invited) <i>Shaanxi Normal University, China</i>
	10:00-10:30	Coffee break/Poster session		
		Chair: Xiqun Jiang	Chair: Jianjun Guan	Chair: Chan Bee Eng Mary
	10:30-10:55	Nanoprobes for tumor theranostics Mingyuan Gao (Keynote) <i>Institute of Chemistry, CAS , China</i>	Microspheres/hydrogel composites for tissue engineering applications Dong-an Wang (Keynote) <i>Nanyang Technological University, Singapore</i>	Bionanointerface: from cell membrane mimic to protein mimic Jian Ji (Keynote) <i>Zhejiang University, China</i>
	10:55-11:20	To be confirmed Xingyu Jiang (Keynote) <i>National Center for NanoScience and Technology, China</i>	Functional biomaterials for musculoskeletal tissue regeneration Liming Bian (Keynote) <i>The Chinese University of Hong Kong, China</i>	Interfacial soft matters for bioinspired lubrication Feng Zhou (Keynote) <i>Lanzhou Institute of Chemical Physics, CAS, China</i>
	11:20-11:40	The morphology effect of polycation functionalized nanoparticles on gene transfection Nana Zhao (Invited) <i>Beijing University of Chemical Technology, China</i>	11:20-11:45: Improving corrosion resistance and biocompatibility of WE43 magnesium alloy by custom made dual plasma implantation Kelvin Yeung (Keynote) <i>The University of Hong Kong, China</i>	Patterning of biomaterials surface to selectively react with blood Qiang Shi (Invited) <i>Changchun Institute of Applied Chemistry, CAS, China</i>
	11:40-12:00	To be confirmed Zhengwei Mao (Invited) <i>Zhejiang University, China</i>		Cell sheet harvesting from light-responsive surfaces Kui Cheng (Invited) <i>Zhejiang University, China</i>
	12:00-14:00	Lunch (Western restaurant, 1st floor)		



Aug. 3	14:00-15:30	Activity of International Summer School for Biomaterials (ISSB) (Gui Yu Ting, 3 rd floor)/Poster session		
		Concurrent I: Nanomaterials & nanomedicine IV (Yun Xi Ting, 3 rd floor)	Concurrent II: Materials for regenerative medicine IV (Gui Yu Ting, 3 rd floor)	
		Chair: Xiaoming He	Chair: Kelvin Yeung	
	15:30-15:55	To be confirmed Youqing Shen (Keynote) Zhejiang University, China	High strength injectable supramolecular polymer hydrogels Wenguang Liu (Keynote) Tianjin University, China	
	15:55-16:20	Recombinant protein-stabilized microbubbles for cancer theranostics Daeyeon Lee (Keynote) University of Pennsylvania, USA	Facile design of biodegradable elastomers for biomedical engineering Yi Hong (Keynote) The University of Texas at Arlington, USA	
	16:20-16:40	To be confirmed Bingbing Jiang (Invited) Hubei University, China	Mammalian messenger RNA N ⁶ -methyladenosine methylation selectivity Jianzhao Liu (Invited) Zhejiang University, China	
	16:40-17:00	To be confirmed Weijun Tong (Invited) Zhejiang University, China	Bioactive gel scaffolds for adipogenic factors delivery and adipose tissue engineering Huaping Tan (Invited) Nanjing University of Science and Technology, China	
	17:00-17:30	Closing ceremony (Gui Yu Ting, 3 rd floor)		
	18:00	Dinner (Western restaurant, 1 st floor)		



Registration Information

◆ Registration Fee

Regular participant: **300\$ (2000RMB)**

Participant from industry: **5000 RMB**

Student (with certificate): **170\$ (1000 RMB)**

(including the Workshop and booth)

** The registration fee shall be paid by cash on site. Credit card is not acceptable.*

** The registration fee for keynote and invited speakers are exempted.*

◆ Venue and Accommodation

Huagang HNA Resort (Hua Gang Hai Hang. 花港海航酒店)

No. 1 Yang Gong Di, West Lake District - West Lake Scenic Area, Hangzhou, China

<http://www.hz-haihang.com/>

Single room/Double room: 450 RMB/day (including breakfast and free internet)

◆ Transportation (TAXI)

From Hangzhou Xiaoshan Airport: ~ 150 RMB

From Hangzhou Railway Station: ~ 30 RMB

From Hangzhou East Railway Station: ~ 60 RMB



Contact

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Sponsors

The Natural Science Foundation of China

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