



International Forum of Biomedical Materials: Nanobiomaterials for Tissue Regeneration (IFBM2012)

Invitation letter

Dear Prof. Mingyuan Gao,

We cordially invite you to participate in the **International Forum of Biomedical Materials: Nanobiomaterials for Tissue Regeneration (IFBM2012)** to be held on the beautiful campus of Zhejiang University in Hangzhou, May 29- June 1 2012, and deliver an invited lecture.

Prof. Jiacong Shen
Chair of IFBM2012

Prof. William R. Wagner
Chair of IFBM2012





International Forum of Biomedical Materials: Nanobiomaterials for Tissue Regeneration

May 29 – Jun 1, 2012, Hangzhou

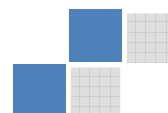
3rd circular

Call for Abstract and Participation

During the past decades, significant developments in the field of biomedical materials were made. The forum will focus on, but is not limited to the recent development in the nanobiomaterials for tissue regeneration. You are cordially invited to attend the International Forum of Biomedical Materials: Nanobiomaterials for Tissue Regeneration (IFBM2012). The forum will be held on the beautiful campus of Zhejiang University in Hangzhou, which is located not far away from Shanghai. Hangzhou is a tourist resort noted for the beautiful West Lake and places of historic interests. It possesses an exquisite harmony of natural beauty and cultural splendor. And May is the best season for the famous tourist city. Join us to share the breakthroughs in biomedical materials science and to enjoy the beautiful spring in West Lake!

Newly released

The forum is planning to publish a special issue (or part of an issue) in *Acta Biomaterialia* after the manuscripts are peer-reviewed!





Topics

- Materials for tissue engineering and regenerative medicine
- Nanostructured and colloid materials
- Surface/interfaces of biomaterials
- Biomaterials for diagnosis and detection
- Advanced drug delivery system

Organization

■ Organizer

Institute of Biomedical Macromolecules, Zhejiang University

■ Chairman

Jiacong Shen William Wagner

■ Scientific Committee

Jiacong Shen	William Wagner	Deyue Yan	Helmuth Möhwald
Lei Jiang	John Brash	Jianhua Dong	Abhay Pandit
Zhongwei Gu	Michale Grunze	Jin Ma	Yasuhiko Tabata
Changyou Gao			

■ Organizing Committee

Chairman

Changyou Gao

Co-Chairman

Wenjian Weng

Jian Ji

Member

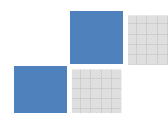
Shunwu Fan	Guosheng Fu	Zhongru Gou	Chunmao Han
Feihe Huang	He Huang	Qiaoling Hu	Hongliang Jiang
Hongwei Ouyang	Jingzhi Sun	Youqing Shen	Jianguo Tang
Xiaoxiang Wang	Jinfu Wang		

Secretary in General

Lie Ma

Secretaries

Kefeng Ren	Weijun Tong	Zhengwei Mao	Youxiang Wang
Anjun Qin	Chunyan Ma		



Program

May 30, 2012

8:30-9:00 Opening ceremony

9:00-9:15 Photo taken

Room A	Chair: Shengguo Wang	Room B	Chair: John Brash
9:15-9:45 Determining Structure-Function Relationships in Fibrous, Elastic Scaffolds to Design Mechanically Appropriate Tissue Constructs <u>William Wagner</u> (<i>University of Pittsburgh</i>)		9:15-9:45 Bio-Inspired, Smart, Multiscale Interfacial Materials <u>Lei Jiang</u> (<i>Beijing University of Aeronautics & Astronautics</i>)	
9:45-10:15 Biomimetic Extracellular Matrix Biomaterials for Stem Cell Function Manipulation and Tissue Regeneration <u>Guoping Chen</u> (<i>National Institute for Materials Science, Japan</i>)		9:45-10:15 Nanoassemblies to Guide Muscle Cells Differentiation to Muscle or Bone Tissues <u>Catherine Picart</u> (<i>Grenoble Institute of Technology</i>)	
10:15-10:45 Polylactides for Tissue Engineering: Synthesis, Structure and Properties <u>Jose-Ramon Sarasua</u> (<i>University of the Basque Country</i>)		10:15-10:45 Engineering Tandem Modular Protein-based Biomaterials with Tailored Mechanical Properties for Biomedical Applications <u>Hongbin Li</u> (<i>University of British Columbia</i>)	

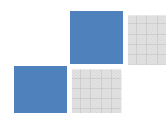
Coffee Break (10:45-11:00)

Room A	Chair: Yasuhiko Tabata	Room B	Chair: Ben Zhong Tang
11:00-11:30 Modulation of Cell-biomaterial Interactions for Tissue Regeneration <u>Mario Baborsa</u> (<i>University of Porto</i>)		11:00-11:30 Protein-surface Interactions and Biocompatibility <u>John Brash</u> (<i>McMaster University</i>)	
11:30-12:00 Fabrication and Special Functions of Drug Carried Scaffold <u>Shengguo Wang</u> (<i>Institute of Chemistry, Chinese Academy of Sciences</i>)		11:30-12:00 Cell Adhesion on Nanopatterned Surfaces <u>Jiandong Ding</u> (<i>Fudan University</i>)	
12:00-12:30 A Scaffold-Free Living Open Platform for Tissue Regeneration <u>Dong-an Wang</u> (<i>Nanyang Technological University</i>)		12:00-12:30 Nano/micro- structured Surfaces and Their Biological Performances <u>Wenjian Weng</u> (<i>Zhejiang University</i>)	

Lunch & Poster presentation (12:30-13:30)

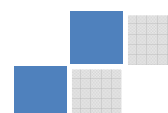
Room A	Chair: Guoping Chen	Room B	Chair: Jiandong Ding
14:00-14:30 Frontier Regeneration Therapy Based on Tissue Engineering <u>Yasuhiko Tabata</u> (<i>Kyoto University</i>)		14:00-14:30 Functionalization Strategies: Designing for the Host <u>Abhay Pandit</u> (<i>National University of Ireland</i>)	
14:30-15:00 Nanocomposites for Hard Tissue Regeneration <u>Min Wang</u> (<i>the University of Hong Kong</i>)		14:30-15:00 DNA Smart Materials <u>Dongsheng Liu</u> (<i>Tsinghua University</i>)	
15:00-15:30 The Stimulation of Stem Cell Differentiation into Cardiac Lineage Using Fibrous Scaffolds <u>Jianjun Guan</u> (<i>the Ohio State University</i>)		15:00-15:30 Thermally Responsive Silicon Nanowire Arrays for Protein Separation <u>Hong Chen</u> (<i>Soochow University</i>)	

Coffee Break(15:30-16:00)





Room A	Chair: Xiaojun Ma	Room B	Chair: Abhay Pandit
16:00-16:30		16:00-16:30	
Prodrug as Efficient Cancer Drug Delivery Nanocarriers		Applications of polymers in biotechnology and nanotechnology	
<u>Youqing Shen</u> (<i>Zhejiang University</i>)		<u>Mary Chan</u> (<i>Nanyang Technological University</i>)	
16:30-17:00		16:30-17:00	
Use of Nanoparticles for Controlled Delivery and Photoactivation of Biomolecules		The Materials Based on Assembling of Silk Protein and Their Applications on Biomedicine	
<u>Yong Zhang</u> (<i>National University of Singapore</i>)		<u>Zhengzhong Shao</u> (<i>Fudan University</i>)	
17:00-17:30		17:00-17:30	
Designed Biomaterials for Tissue Regeneration and Cellular Uptake		Surface Engineering of Biomedical Materials via Bio-Inspired Strategy	
<u>Changyou Gao</u> (<i>Zhejiang University</i>)		<u>Jian Ji</u> (<i>Zhejiang University</i>)	
Banquet (17:30-19:30)			
19:30-21:00 : Poster presentation			
May 31, 2012			
Room A	Chair: Deyue Yan	Room B	Chair: Lei Jiang
8:30-9:00		8:30-9:00	
Capsules From Films and Films with Capsules for Controlled and Remote Release in Biosciences		Hyperbranched Polyphosphate: A Multi-Responsive Drug Carrier for Anticancer Therapy	
<u>Helmult Möhwald</u> (<i>Max Planck Institute of Colloids and Interfaces</i>)		<u>Deyue Yan</u> (<i>Shanghai Jiaotong University</i>)	
9:00-9:30		9:00-9:30	
Nanostructure and Function of Microcapsule Surface Used in Artificial Cell or Organ		Biosensors Based on AIE Fluorogens	
<u>Xiaojun Ma</u> (<i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i>)		<u>Ben Zhong Tang</u> (<i>the Hong Kong University of Science & Technology</i>)	
9:30-10:00		9:30-10:00	
Uptake, Biological Fate, Biodistribution and Toxicological Studies of Metal Oxide Nanoparticles		Preparation of Biocompatible Fe ₃ O ₄ Nanoparticles for Molecular Imaging of Tumors	
<u>Serigio Moya</u> (<i>CIC biomaGUNE, Spain</i>)		<u>Mingyuan Gao</u> (<i>Institute of Chemistry, Chinese Academy of Sciences</i>)	
Coffee Break (10:00-10:30)			
Room A	Chair: Helmult Möhwald	Room B	Chair: Mario Baborsa
10:30-11:00		10:30-11:00	
Nanomedicine for Infection Prophylaxis		Structure Design, Fabrication and Functional Modification of Poly(ε-caprolactone) Scaffolds for Application in Vascular Graft	
<u>Bingyun Li</u> (<i>West Virginia University</i>)		<u>Deling Kong</u> (<i>Nankai University</i>)	
11:00-11:30		11:00-11:30	
Polymeric Nanoparticles for Drug and siRNA Delivery		Biofunctional Hydrogels for Tissue Engineering	
<u>Jun Wang</u> (<i>University of Science and Technology of China</i>)		<u>Pedro L Granja</u> (<i>University of Porto</i>)	
11:30-12:00		11:30-12:00	
Imidazole-grafted Chitosan Mediated Gene Delivery: In Vitro Study on Transfection, Intracellular Trafficking, and Degradation		Single Cyclized Polymer: Beyond Flory-Stockmayer Theory	
<u>AP Pêgo</u> (<i>University of Porto</i>)		<u>Wenxin Wang</u> (<i>National University of Ireland</i>)	
Lunch (12:00-13:30)			
14:00-17:00	Free Discussion and Sightseeing		
17:00-19:00	Dinner		



Poster Presentation

Poster is required with a size of 120 cm (Height) x 90 cm (Width). All posters will be gathered and numbered. Authors must be present in the poster area to discuss their posters.

Registration Information

■ Registration Fee

Regular participant: **1000 RMB**

Student (with certificate): **600 RMB**

■ Accommodation

Qizhen Hotel

Zijingang Campus, Zhejiang University

Tel: 86-571-8898 2888

<http://www.yz-hotels.cn/index.php/hotels/hotelDetail/34>

King bed room*: **400 RMB/Day**

Double beds room*: **400 RMB/Day**

*Including breakfast and free internet

■ Transportation

From Hangzhou Xiaoshan International Airport

to Zijingang Campus, Zhejiang University

- **Taxi** to Zijingang Campus (紫金港), Zhejiang University (about 150 RMB)
- **Airport shuttle bus** to Wulinmen (武林门) bus station (every half an hour, 20 RMB, about 1 h), then **taxi** to Zijingang Campus (紫金港), Zhejiang University (about 40 RMB).



Contact Information

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Sponsors

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- Zhejiang Provincial Natural Science Foundation of China
- Hangzhou Association for Science and Technology
- Zhejiang University

Special attention: Those who wish to submit a paper to *Acta Biomaterialia* for the special issue are asked to send an email not late than May 29 with potential title, authors, affiliations and abstracts for preliminary selection.