

**6th International Symposium on Surface and
Interface of Biomaterials (ISSIB2017)**



Program

中国 成都

Chengdu, China

2017.10.15-19





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Organization of ISSIB2017

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Organizers

Southwest Jiaotong University

Key Lab. for Advanced Technologies of Materials, Ministry of Education, China

Co-organizing Society

Chinese Society for Biomaterials (CSBM)

Huaiyin Insitute of Technology

Sponsors





2. Program Schedule

Date	Time	Programme	location
Oct.15	All Day	Registration	Hotel lobby
Oct.16	08:30-09:30	Opening Ceremony	Club hall
	09:30-12:15	Plenary Reports	Club hall
	12:15-13:30	Lunch	Hong Furong Dining Hall
	14:00-17:40	Session 1 & 4	Club west hall
		Session 2 & 5	Club guest hall
		Session 3 & 6	Yinghui hall
18:00-19:00	Banquet	Hong Furong Dining Hall	
Oct.17	9:00-11:45	Plenary Reports	Furong Building Hall 2A
	11:45-13:30	Lunch	Hong Furong Dining Hall
	14:00-17:35	Technique and Industry Exhibition, Forum; Poster session	Furong Building Hall 2A
	18:00-20:00	Dinner	Hong Furong Dining Hall
Oct.18	9:00-11:45	Plenary Reports	Furong Building Hall 2A
	12:00-13:30	Lunch	Hong Furong Dining Hall
	14:00-17:40	Session 7 & 9	Club west hall
		Session 8 & 10	Club guest hall
	18:00-20:00	Dinner	Hong Furong Dining Hall



3. List of ISSIB2017

MONDAY, 16 OCTOBER 2017			
Plenary Reports, (Location Club Hall)			
Time	No.	Content	Chair
08:30-09:00		Opening Ceremony	Nan Huang
9:00-09:30		Photograph	
09:30-10:00	P1	(1) Title: Blood Biocompatibility in Medical Devices: Zwitterionic Strategies to Minimize Thrombotic Complications Prof. William R. Wagner Pittsburgh University	Nan Huang
10:00-10:30	P2	(2) Title: Carbon-based interlayers with embedded radicals enable simple, one-step surface functionalization of biomaterials Prof. Marcela Bilek Sydney University	
10:30-10:45		Coffee Break	
10:45-11:15	P3	(3) Title: Advanced Tissue Engineering Scaffolds Embedded with Theranostics for Postoperative Cancer Patients Prof. Min Wang Hong Kong University,	William R. Wagner
11:15-11:45	P4	(4) Title: The interface between biodegradable Mg and cells: material-cell “communication” Prof. Regine Willumeit-Römer Kiel University,	
11:45-12:15	P5	(5) Title: Polyelectrolyte Complex Coatings: From Biomimetic methods to Real Coating Technology Jian Ji Zhejiang University,	
12:15-13:30		Lunch Time	



Session 1		
Date: Oct.16, 2017 Location: Club west hall		
Topic: Blood contacting surface or coating and Biosensors and bioelectronics		
Chairman: Manfred Maitz; Guixue Wang		
Time	NO.	Content
14:00-14:20	K1	Invited Talk title: Surface Modification Strategies for Improved Hemocompatibility of Surfaces Manfred Maitz Leibniz Institute of Polymer Research Dresden
14:20-14:40	K2	Invited Talk title: Biofabrication and performance of a novel multiple layer surface modification for drug-eluting stents Guixue Wang Chongqing University
14:40-14:55	O1	title: Thrombin-Responsive Fibrinolytic Materials: Breaking Down the Clot as It Forms Dan Li Soochow University
14:55-15:10	O2	title: Chitosan-Coated Diatom as Hemostatic Agent for Hemorrhage Control Chao Feng Ocean University of China
15:10-15:25	O3	title: GREDVY polypeptide and heparin contained silk-based coating on Mg-Zn-Y-Nd alloy for improving corrosion resistance, hemocompatibility and endothelialization Pei Wang Peking University
15:25-15:40	O4	title: Surface modification for implanted continuous glucose monitoring devices Yifeng Lei Wuhan University
15:40-16:00		Coffee Break

**Session 2**

Date: Oct.16, 2017 Location: Club guest hall
Topic: Biomolecules and cells at surface and interfaces

Chairman: Hong Chen; Yuanjin Zhao

Time	NO.	Content
14:00-14:20	K3	Invited Talk title: Novel GAG-Mimicking Polymers for Neural Differentiation of Embryonic Stem Cells Hong Chen Soochow University
14:20-14:40	K4	Invited Talk title: Microfluidic generation of biomaterials for cell culture and bioassays Yuanjin Zhao Southeast University
14:40-14:55	O5	title: Drug Eluting Polyelectrolyte Multilayer Construction for Intraocular Lens Surface Modification Yue-Mei Han Wenzhou Medical University
14:55-15:10	O6	title: Degradation of Bio-absorbable Metallic Vascular Stent Materials in the Corrosive Microenvironment Altered by Vascular Smooth Muscle Cells Xin Liu Southwest Jiaotong University
15:10-15:25	O7	title: The photo-induced anticoagulant ability of TiO ₂ Jiang Chen Southwest Jiaotong University
15:25-15:40	O8	title: Responses of Calf Pulmonary Artery Endothelial Cells on the Hydrogels of Mimicking the Health and Disease Extracellular Matrix Microenvironments Yanqiu Liu Southwest Jiaotong University
15:40-16:00		Coffee break

**Session 3**

Date: Oct.16, 2017 Location: Yinghui hall

Topic: Bioinspired materials and smart surface

Chairman: Xu Hou; Yiwen Li

Time	NO.	Content
14:00-14:20	K5	Invited Talk title: Bio-inspired Multi-Scale Pores and Channels Systems Xu Hou Xiamen University
14:20-14:35	K6	Invited Talk title: Synthetic Melanin Functional Materials Yiwen Li Sichuan University
14:35-14:50	O9	title: Mussel-inspired oligomers interacted and mechanical tunable GelMA hydrogel application in cartilage regeneration Donglin Gan Southwest Jiaotong University
14:50-15:05	O10	title: Mussel-inspired nano-building block assemblies for mimicking extracellular matrix microenvironments with multiple functions Zhanrong Jia Southwest Jiaotong University
15:05-15:20	O11	title: A conductive polymer-based transparent, conductive, stretchable, and adhesive hydrogel Liwei Yan Southwest Jiaotong University
15:20-15:35	O12	title: Multifunctional DNA aptamer / heparin co-modified catecholamine films Xin Li Southwest Jiaotong University
15:35-16:00		Coffee Break



Session 4		
Date: Oct.16, 2017 Location: Club west hall		
Topic:Interface design on polymeric biomaterials and antimicrobial materials		
Chairman:Runhui Liu; Guoqing Pan		
Time	NO.	Content
16:00-16:20	K7	Invited Talk title: Antimicrobial Nylon-3 as Synthetic Mimics of HDP Runhui Liu East China University of Science and Technology
16:20-16:40	K8	Invited Talk title: Chemical Design of Smart Biointerfaces for Biomedical Applications Guoqing Pan University of California
16:40-16:55	O13	title: Antibacterial and UV resisting properties of oxygen plasma pre-treated cotton fabric coated with Punica granatum L Suganya Arjunan Bharathiar University
16:55-17:10	O14	title: Antimicrobial and Antifouling Dual-functional Surface Coatings Peng Li Nanjing Tech University
17:10-17:25	O15	title: Water-Repairable Zwitterionic Polymer Coatings for Anti-Biofouling Surfaces Zhanhua Wang Sichuan University
17:25-17:40	O16	title: Investigation of silk fibroin nanoparticle-decorated poly(L-lactic acid) composite scaffolds for osteoblast growth and differentiation Biao-Qi Chen Huaqiao University
18:00-20:00		Dinner



Session 5		
Date: Oct.16, 2017 Location: Club guest hall		
Topic: Bioinspired materials and smart surface		
Chairman: Zetao Chen; Qiang Zhao		
Time	NO.	Content
16:00-16:20	K9	Invited Talk title: High-performance bioceramic coatings with favourable osteoimmunomodulatory property for functional osseointegration Zetao Chen Sun Yat-sen University
16:20-16:40	K10	Invited Talk title: Development of functional biomaterials for the controlled and targeted nitric oxide delivery Qiang Zhao Tianjin University
16:40-16:55	O17	title: Catechol-modified layer-by-layer assembly: a fish-net like model with enhanced stability and facile loading of copper ions for in-situ catalytic generation of nitric oxide Rifang Luo Sichuan University
16:55-17:10	O18	title: Application of QSense Technique on Biomaterials and Biotechnology Min Wang Biolin (Shanghai) Trading Company Ltd
17:10-17:25	O19	title: Cell Generator: A Self-sustaining Bio-hybrid System Based on Energy Harvesting from Engineered Cardiac Micro-tissues Bingzhe Xu City University of Hong Kong
17:25-17:40	O20	title: Electrophoretic deposition of GHK-Cu loaded MSN-chitosan composite coatings with pH-responsive release of copper Jiajia Jing Key Laboratory of Space Bioscience and Biotechnology
18:00-20:00		Dinner



Session 6		
Date: Oct.16, 2017 Location: Yinghui hall		
Topic: Nanotechnology and nanofabrication		
Chairman:Aizheng Chen; Xing Ma		
Time	NO.	Content
16:00-16:20	K11	Invited Talk title: Supercritical carbon dioxide technology: an emphasis on drug delivery Aizheng Chen Huaqiao University
16:20-16:40	K12	Invited Talk title: Enzyme Powered Mesoporous Silica Micro/Nano-Motors for Active Drug Delivery Xing Ma Harbin Institute of Technology (Shenzhen)
16:40-16:55	O21	title: A Universal Intracellular Delivery Platform via Photoporation Effect Qian Yu Soochow University
16:55-17:10	O22	title: Preparation and Characterization of Poly-L-lactide Porous Microspheres based on High-voltage Electrostatic Anti-solvent Process Ying Wang Huaqiao University
17:10-17:25	O23	title: Surface modification with nanoparticle loaded Zn ion to provide an anticoagulation microenvironment for HUVEC growth. Zheng Zeng Southwest Jiaotong University
17:25-17:40	O24	title:Tetherless Optogenetic Stimulation of Neurons in Behaving Animals with Spectrum - Selective Upconversion Nanoparticles Xudong Lin University of Hong Kong
18:00-20:00		Dinner



Tuesday, 17 OCTOBER 2017			
Plenary Reports, (Location Furong Building Hall 2A)			
Time	No.	Content	Chair
09:00-9:30	P6	(1) Tittle: Plasma-based Nanocoatings for Innovative Medical Devices and Health Applications Prof. Diego Mantovani, Laval University,	Yin Xiao
9:30-10:00	P7	(2) Tittle: Gradient biomaterials surfaces for mediation of cell migration Prof. Changyou Gao Zhejiang University,	
10:00-10:30	P8	(3) Prof. Seeram Ramakrishna National University of Singapore	
10:30-10:45	Coffee break		
10:45-11:15	P9	(4) Tittle: Osteocytes and Implant Surfaces Prof. Yin Xiao Queensland University of Technology,	Diego Mantovani
11:15-11:45	P10	(5) Tittle: Advanced nanosystems for modulation the interaction with biological barriers Prof. Bruno Sarmiento Porto University,	
12:00-13:30	Lunch Time		



TUESDAY, 17 OCTOBER 2017

Technique and Industry Exhibition, Forum And Poster

Date: Oct.17, 2017 Location:Furong Building Hall 2A

Time	Content
Technique and Industry Exhibition, Forum; Chair: Nan Huang	
14:00-14:20	Title:The development of WeiGao group and its needs of surface modification technologies Shifang Luan Shandong Weigao Group Medical Polymer Co.,Ltd.
14:20-14:40	Title: The consideration to the problems of materials applied in medical devbices Huafeng Yu Kinhely Bio-tech Co.,Ltd.
14:40-15:00	Title: Surface modification Technology and the applications in Southwest Jiaotong University Jin Wang Southwest Jiaotong University
14:00-15:45	Poster (Furong Building Hall 2A)
15:45-16:00	Coffee Break
16:00-17:35	Poster (Furong Building Hall 2A)
18:00-20:00	Dinner



Wednesday, 18 OCTOBER 2017			
Plenary Reports, (Location: Furong Building Hall 2A)			
Time	No.	Content	Chair
09:00-9:30	P11	(1) Title: Mussel and Insect-inspired Self-Sealing Bio-adhesives and Surface Coatings Prof. Haeshin Lee Korea Advanced Institute of Science & Technology,	Almeida Santos
9:30-10:00	P12	(2) Title: Controllable degradation of biodegradable metals via surface modification Prof. Yufeng Zheng Kumamoto University,	
10:00-10:30	P13	(5) Title: Functionalized Surfaces of Biomedical Materials for Cell Stimulation and Osteogenesis Prof. Jie Weng Southwest Jiaotong University,	
10:30-10:45	Coffee break		
10:45-11:15	P14	(4) Title: Porous Silicon based Nanocomposites for Biomedical Applications: From Cancer to Cardiovascular Diseases Prof. Almeida Santos Helsinki University,	Yufeng Zheng
11:15-11:45	P15	(3) Title: The surface and interface of biomaterials in regenerative medicine Prof. Xingdong Zhang Sichuan University,	
12:00-13:30	Lunch Time		



Session 7		
Date: Oct.18, 2017 Location: Club west hall		
Topic: Nanotechnology and nanofabrication		
Chairman:hongbo zhang; Yu Shrike Zhang		
Time	NO.	Content
14:00-14:20	K13	Invited Talk title: DNA Nanotechnology for Biomedical Applications Hongbo zhang Åbo Akademi University
14:20-14:40	K14	Invited Talk title: Biofabrication for Tissue Engineering and Tissue Modeling Yu Shrike Zhang Harvard Medical School
14:40-14:55	O25	title: ROS-generating Nano-machinery for Cancer Theranostics Ranjith Kankala Huaqiao University
14:55-15:10	O26	title: Merging the Best of Two Worlds: Drug Crystals-Encapsulated Nanovectors for Controlled Drug Delivery Dongfei Liu University of Helsinki
15:10-15:25	O27	title: Fabrication and study of cu-doped TiO2 nanotubes Lang Jiang Southwest Jiaotong University
15:25-15:40	O28	title: Polyaniline-Coated Au Nanostructures for Tunable Plasmonic Photothermal Therapy Nina Jiang Huaqiao University
15:40-16:00		Coffee Break



Session 8		
Date: Oct.18, 2017 Location: Club guest hall		
Topic: Biomolecules and cells at surface and interfaces		
Chairman:In-Seop Lee; Xin Zhao		
Time	NO.	Content
14:00-14:20	K15	Invited Talk title: Biomimetic Apatite As a Bioactive Molecule Carrier and Their Influence on Cell Behavior In-Seop Lee Yonsei University
14:20-14:40	K16	Invited Talk title: Bio-inspired Nitric Oxide-generating Coating for Surface Engineering of Blood-Contacting Devices Zhilu Yang Southwest Jiaotong University
14:40-14:55	O29	title: Controlling Molecular Weight of Hyaluronic Acid Conjugated on Amine-rich Surface: Towards Better Multifunctional Biomaterials for Cardiovascular Implants Jingan Li Zhengzhou University
14:55-15:10	O30	title:A spontaneously formed continuous and uniform hydrogel coating for improving hemocompatibility Hua Qiu Southwest Jiaotong University
15:10-15:25	O31	title: Macrophage Phenotype Switch by Sequential Release of Immunomodulatory Cytokines from Hydrogel Layers on Titania Nanotubes Junhong Chen Southwest Jiaotong University
15:25-15:40	O32	title: Macropores microspheres for modular tissue engineering Jia Zhao Huaqiao University
15:40-16:00		Coffee Break

**Session 9**

Date: Oct.18, 2017

Location: Club west hall

Topic: Interface design on polymeric biomaterials and antimicrobial materials

Chairman: Wenguo Cui; Behnam Akhavan

Time	NO.	Content
16:00-16:20	K17	Invited Talk title: Hierarchical micro/nano electrospun fibrous membrane for structural tissue regeneration Wenguo Cui Ruijin Hospital; Shanghai Jiao Tong University
16:20-16:40	K18	Invited Talk title: Radical-functionalized Plasma Polymer Interfaces for Bone Implants Behnam Akhavan University of Sydney, NSW, Australia
16:40-16:55	O33	title: Dkk3 enhances tissue regeneration and remodeling of vascular grafts through recruiting vascular progenitor cells Yifan Wu Nankai University
16:55-17:10	O34	title: Synthesis and biological properties of novel polycarbonate polyurethanes containing phospholipid Peichuang Li Southwest Jiaotong University
17:10-17:25	O35	title: Preparation of inorganic-organic SiO ₂ @PEG-brush composite microsphere for specificity affinity separation of histidine-rich proteins Guanghui Xi Wenzhou Institute of Biomaterials and Engineering, Chinese Academy of Sciences
17:25-17:40	O36	title: Metal Organic Frameworks (MOF) for Catalytic Generation of Nitric Oxide (NO) on Blood Contacting Materials Yonghong Fan Southwest Jiaotong University
18:00-20:00		Dinner

**Session 10**

Date: Oct.18, 2017 Location: Club guest hall

Topic: Bioinspired materials and smart surface

Chairman: Zhilu Yang; Lin Yu

Time	NO.	Content
16:00-16:20	K19	Invited Talk title: Biomaterials for Translational Regenerative Medicine Xin Zhao The Hong Kong Polytechnic University
16:20-16:40	K20	Invited Talk title: Injectable, biodegradable thermogels for biomedical applications Lin Yu Fudan University
16:40-16:55	O37	title: Coculture of MSCs and endothelial cells enhances host tissue integration and epidermis maturation through AKT activation in GelMA hydrogel-based skin model Xiaofeng Cui Wuhan University
16:55-17:10	O38	title: Multistage Oral Drug Delivery System for Inflammatory Bowel Disease Therapy Wei Li University of Helsinki
17:10-17:25	O39	title: A Binding Study by Using Surface Plasmon Resonance for Immobilization and Modulation of Epidermal Growth Factors Guo-Chung Dong National Health Research Institutes Taiwan
17:25-17:40	O40	title: Coating with controlled nitric oxide generation and covalent bivalirudine immobilization for improved cardiovascular biocompatibility Peng Gao Southwest Jiaotong University
18:00-20:00		Dinner

**4. Poster**

No.	Title	Author	Institution
1	Regulation of Schwann cells morphology, function and gene expression by chitosan micropatterning with ridge/groove geometries	GUICAI LI	Nantong University
2	Smart Biointerface with Photo-switchable Biocidal Activity and Bacteria-release Capability	Wei Ting	Soochow University
3	Fluorinated porcine hydroxyapatite promote the osteoblastic activity of rBMSCs and bone regeneration in rat calvarial defects	Runheng Liu	Hospital of Stomatology, Sun Yat-sen University
4	A collaborative polymeric carrier/photoporation delivery system for “recalcitrant” cells	Jingxian Wu	Soochow University
5	Study of chitosan-based injectable nanocomposite hydrogels to promote angiogenesis in tissue engineering	Yanan Wang	Southwest Jiaotong University
6	A Bioactive Surface With Anti-coagulant And Fibrinolytic Properties	Hui Du	Soochow university
7	Multifunctional Porous Titanium Scaffolds by 3D Printing and Surface Treatment	Zhaojun Jia	Peking University
8	Constructing heparin modified pancreatic decellularized scaffold to improve its re-endothelialization	Yibing Guo	Affiliated Hospital of Nantong University
9	DESIGN AND APPLICATION OF NANO-FLUORESCENT PROBES BASED ON POLYMERIC MODIFICATION	QUAN Li	Huaiyin Institute of Technology
10	The Ca/P-silk fibrous composite film coated on Mg-1Ca alloy to improve the corrosion resistance and bioactivity for bone implants	Xiong Pan	Peking University
11	Preparation and Study of EGCG / Cystine Crosslinked Nanoparticles	Shuang Lin	Southwest Jiaotong University
12	Recombinant polypeptides modified silk scaffold mimicking 3D microenvironments facilitated for bone and cartilage tissue engineering	Zhuoyue Chen	Northwest University
13	Free-standing Nanofilms With Physical and Chemical Adhesion Used for Tissue-Defect Repair	Chengkai Xuan	South China University of Technology

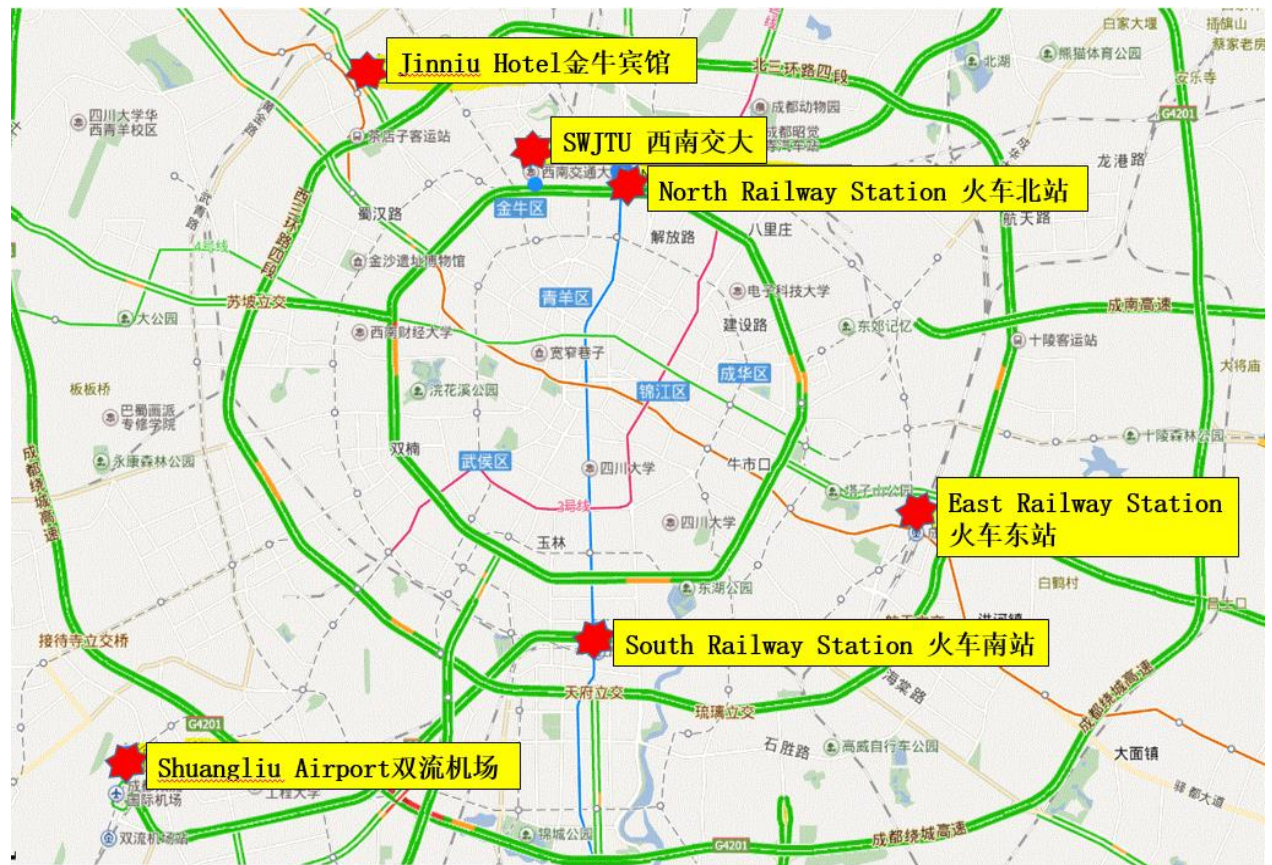


14	Effects of atomic-level nano-structured hydroxyapatite on adsorption of bone morphogenetic protein-7 by computer simulation	Qun Wang	Southwest Jiaotong University
15	Dkk3 enhances tissue regeneration and remodeling of vascular grafts through recruiting vascular progenitor cells	Yifan Wu	Nankai University
16	Mimicked extracellular matrix microenvironment porous cryogel with natural polymers and ionic substituted hydroxyapatite for bone tissue regeneration	Pengfei Li	Southwest Jiaotong University
17	Fabrication and evaluation of electrospinning PBST small-diameter vascular grafts	Lina Wang	Nankai University
18	Root Canal Obturation by a Mineralization Strategy	Le Zhang	Anhui Medical University
19	Enhanced non-enzymatic electrochemical and photo-electrochemical sensing of Glucose based on TiO ₂ nanotube arrays modified by Cu ₂ O	Bagheri Robabeh	Chinese Academy of Sciences
20	Polyhexanide-based Antimicrobial and Antifouling Surface Coating	Xu Miao	Nanjing Tech University (NanjingTech)
21	Native glycosaminoglycan hyaluronan regulates vascular smooth muscle regeneration	Qin kang	Nankai University
22	Study on the layer by layer assembly coating of chitosan-c and heparin on the surface of magnesium alloy	Tengda Shang	Southwest Jiaotong University
23	HDAC7-derived 7-aa peptide enhances endothelialization in tissue-engineered vascular grafts	Yiwa Pan	Nankai University
24	A new inorganic coating and flexible regulating in situ of stent endothelialization by the controllable ion releasing	Hengquan Liu	Chengdu University of Technology
25	Preparation of inorganic-organic SiO ₂ @PEG-brush composite microsphere for specificity affinity separation of histidine-rich proteins	Guanghai Xi	Chinese Academy of Sciences
26	Self-assembly of colloidal particles on the surface of magnesium alloys as biofunctional coatings for corrosion protection	Ye Zhu	Jiangnan University



27	Preparation and Properties of Carbon Nitride Functionalized Films	Guoqiang Yang	Southwest Jiaotong University
28	Bi-directional dual drug-eluting stent studies	Na Li	Southwest Jiaotong University
29	Preparation of Poly Hydroxyethyl Methacrylate Film Covalently Bonded on Bio-Magnesium Alloy	Yongxin Yang	Zhengzhou University
30	A Universal Antibacterial Coating Combining Biocidal and Fouling Release Properties	Yangcui Qu	Soochow University
31	Construction of pH Stimuli-responsive Thin Films for Drug Releasing	Haohao Wang	Southwest Jiaotong University
32	Improving corrosion resistance and biocompatibility of magnesium alloy by combining chemical treatment with biomolecules immobilization	changjiang Pan	Huaiyin Institute of Technology
33	The preparation and study of the redox-sensitive catecholamine crosslinked coating	Kebing Wang	Southwest Jiaotong University
34	Functional vascular grafts loaded with mesenchymal stem cell (MSC)-derived exosomes inhibit atherosclerotic calcification	YongZhen Wei	Nankai University
35	Protective effect of NO in endothelial cells which injured by H ₂ O ₂	Xin Tang	Southwest Jiaotong University

Appendix 1: Jinniu Traffic Route



Jinniu Hotel Address: 2#, Jinniu Road, Chengdu, Sichuan Province.

Tel: 86-28-8730666; Fax: 86-28-8730555 <http://www.jnhotel.com>

Transport Line from Airport & Railway Station to Jinniu Hotel

1. Bus to Jinniu Hotel 金牛宾馆路经公交

43, 62, 100, 143, 339, 710a, 710, 720a, 720, 723, 1051

2. Shuangliu Airport——Jinniu Hotel

- i. Terminal 1(A exit)of Shuangliu Airport, Subway line 10 (Taipingyuan direction)——Taipingyuan
- ii. Transfer to subway line 3 (Chengdu Military General Hospital direction) —— Chunxi Road
- iii. Transfer to subway line 2 (Xipu direction) —— Yingbin avenue (D exit), walk to Jinniu Hotel

Appendix 2: Satellite map of Jinniu Hotel

