Scientific Program for

1st International Symposium on

Molecular Imaging and Nanomedicine

August 20-24, 2011, Lijiang, China

Sponsored by Institute of Chemistry, CAS

Supported by 973 Program

Symposium Chair:

Prof. Mingyuan Gao
Institute of Chemistry, the Chinese Academy of Sciences

Organizing Committee:

Prof. Zhifang Chai

Prof. Mingyuan Gao

Prof. Jiacong Shen

Prof. Guojun Zhang

Venue

Guanfang Hotel Lijiang, Shangri-la Road, 674100 Lijiang, Yunnan, China

August 20, 2011

14:00-22:00 Registration

August 21, 2011

Morning	•		
08:45-09:00	Opening Remarks		
Section 1	Chairman: Prof. Yan Zhang		
09:00-09:30 Colloidal nano- and microparticles towards sensing applica			
	Prof. Wolfgang Parak, AG Biophotonik, University of Marburg		
09:30-10:00	Optical Molecular Imaging in Anti-Cancer Drug Discovery		
	Prof. Guojun Zhang, Cancer hospital of Shantou University medical		
	college		
10:00-10:20	Coffee break, Gather together for symposium photo		
Section 2	Chairman: Prof. Hans-Joachim Galla		
10:20-10:50	Imaging Biological Functions Using Split-Reporter Reconstitution		
	Analyses		
	Prof. Takeaki Ozawa, department of Chemistry, Tokyo University		
10:50-11:20	New Therapy Strategy Based on Gold Nanoparticles		
	Prof. Xingyu Jiang, National Center and Nanoscience and		
	technology		
11:20-11:50	MRI Cancer Molecular Imaging		
	Prof. Fabao Gao, West China Hospital, Sichuan University		
12:00-13:00	Lunch		
Afternoon			
Section 1	Chairman: Prof. Xingyu Jiang		
14:00-14:30	Novel Functional Bioimaging Techniques with Rationally designed		
	fluorescence probes		
	Prof. Yasuteru Urano, Laboratory of Chemical Biology and		
	Molecular Imaging, Graduate School of Medicine, The University of		
	Tokyo		
14:30-15:00	Conjugated Polymer-based Fluorescence Resonance energy Transfer		
	(FRET) Technique for Biosensing and Cell Imaging		
	Prof. Shu Wang, Institute of Chemistry, CAS		
15:00-15:20	Coffee Break		

Section 2	Chairman: Prof. Yasuteru Urano
15:20-16:00	Flashtalk for Poster Presentations
16:00-18:00	Poster discussion
18:30	Welcome banquet
August 22, 2011	_

Morning

Morning	
Section 1	Chairman: Prof. Guojun Zhang
09:00-09:30	Aerogels from Metal- and Semiconductor Nanocrystals
	Prof. Alexander Eychmüller, Department of Chemistry and Food
	Chemistry, TU Dresden
09:30-10:00	Hepatic Ischemia/reperfusion Injury Promotes Lung Metastasis after
	Major Hepatectomy by Mobilization of Circulating Endothelial
	Progenitor Cells (EPCs) – Application of Optical Imaging System in
	Rat and Mouse Models with Othotopic Liver Cancer
	Prof. Kwan Man, Department of Surgery, LKS Faculty of Medicine,
	The University of Hong Kong
10:00-10:30	Spectroscopic Probes and Labeling Analysis
	Prof. Huimin Ma, Institute of Chemistry, CAS
10:30-10:50	Coffee Break
Section 2	Chairman: Prof. Wolfgang Parak
Section 2 10:50-11:20	Chairman: Prof. Wolfgang Parak Development of MRI Contrast Agents for Diagnosis of
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	Development of MRI Contrast Agents for Diagnosis of Tumor and Brain Lesion
10:50-11:20	Development of MRI Contrast Agents for Diagnosis of Tumor and Brain Lesion Prof. Hao Lei, Wuhan Institute of Physics and Mathematics
10:50-11:20	Development of MRI Contrast Agents for Diagnosis of Tumor and Brain Lesion Prof. Hao Lei, Wuhan Institute of Physics and Mathematics Engineering Interfacial Nanomaterials toward Capture of Cancer
10:50-11:20	Development of MRI Contrast Agents for Diagnosis of Tumor and Brain Lesion Prof. Hao Lei, Wuhan Institute of Physics and Mathematics Engineering Interfacial Nanomaterials toward Capture of Cancer Cell
10:50-11:20 11:20-11:50	Development of MRI Contrast Agents for Diagnosis of Tumor and Brain Lesion Prof. Hao Lei, Wuhan Institute of Physics and Mathematics Engineering Interfacial Nanomaterials toward Capture of Cancer Cell Prof. Shutao Wang, Institute of Chemistry, CAS
10:50-11:20 11:20-11:50	Development of MRI Contrast Agents for Diagnosis of Tumor and Brain Lesion Prof. Hao Lei, Wuhan Institute of Physics and Mathematics Engineering Interfacial Nanomaterials toward Capture of Cancer Cell Prof. Shutao Wang, Institute of Chemistry, CAS
10:50-11:20 11:20-11:50 12:00-13:00	Development of MRI Contrast Agents for Diagnosis of Tumor and Brain Lesion Prof. Hao Lei, Wuhan Institute of Physics and Mathematics Engineering Interfacial Nanomaterials toward Capture of Cancer Cell Prof. Shutao Wang, Institute of Chemistry, CAS
10:50-11:20 11:20-11:50 12:00-13:00 Afternoon	Development of MRI Contrast Agents for Diagnosis of Tumor and Brain Lesion Prof. Hao Lei, Wuhan Institute of Physics and Mathematics Engineering Interfacial Nanomaterials toward Capture of Cancer Cell Prof. Shutao Wang, Institute of Chemistry, CAS Lunch

August 23, 2011

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Section 1	Chairman: Prof. Alexander Eychmüller
09:00-09:30	How to breath: Analysis of Surface Topology and Chemical
	Composition of Nanostructured Artificial lung Surfactant Films
	Prof. Hans-Joachim Galla, Institute of Biochemistry, University of
	Müster
09:30-10:00	Non-cadmium quantum dots emitters covering visible to NIR
	Prof. Renguo Xie, College of Chemistry, Jilin University
10:00-10:30	In vitro/in vivo Imaging of PtII-based Anticancer Drugs
	Prof. Weijiang He, School of Chemistry&Chemical Engneering,
	Nanjing University
10:30-10:50	Coffee Break
Section 2	Chairman: Prof. Takeaki Ozawa
10:50-11:20	Water Soluble NaLnF4 Nanoparticle for Highly Multiplexed
	Bioassays
	Dr. Yi Hou, Institute of Chemistry, CAS
11:20-11:40	Receptor-mediated Delivery of Magnetic Nanoparticles across the
	Blood-Brain Barrier
	Ruirui Qiao, Institute of Chemistry, CAS
11:40-11:50	Closing remarks
	Prof. Mingyuan Gao, Institute of Chemistry, CAS
12:00-13:00	Lunch
Afternoon	
14:00-17:30	Free Discussion
18:30	Conference dinner

August 24, 2011

Departure

Or Sightseeing to the Jade Dragon Snow Mountain, Impression Lijiang Show directed by Yimo Zhang, and Village & Baisha Murals tour.

Flashtalk and Poster Presentations

15:20-18:00, August 21, 2011

Chairman: Prof. Yasuteru Urano

15:28-15:30

15:40-15:42

University

Flashtalk 15:20-15:22 Potential Value of Snail in Early Detection of Colorectal Cancer Metastasis Prof. Jun Du, School of Pharmaceutical Sciences, Sun Yat-sen University 15:22-15:24 Modulation on the Cellular Uptake of Quantum Dots Prof. Yan Zhang, School of Chemistry and Chemical Engineering, Nanjing

15:24-15:26	Aptamers: An Emerging Class of Molecules for Diagnostics and Therapeutics
	Prof. Dihua Shangguan, Institute of Chemistry, CAS

15:26-15:28	Aggregation-Induced Emission: Promising Fluorescent Probes for Bioimaging
	Prof. Jingzhi Sun, Institute of Biomedical Macromolecules, Department of
	Polymer Science and Engineering, Zhejiang University

with USPIO
Prof. Feng Bi, Lab of Signal Transduction and Moleculartargeted Therapy, West
China hospital, Sichuan University

In vivo MR Imaging of Tumor Spheres with Stem Cell-like Properties Labeled

15:30-15:32	New	Functional	Studies	of	Conjugated	Polymers:	Anticancer	Activity	and
	Apop	tosis Imagin	g						

Prof. Libing	Liu, Institute	of Chemistry,	CAS	

15:32-15:34	Two-photon Ratiometric Fluorescent Sensor for Zinc Ions in Living Cells
	Prof. Xue Lin, Institute of Chemistry, CAS

15:34-15:36	Silica Capsulated Nanoparticles for Bio-imaging and Bio-separation
	Prof. Jiagi Zhuang, College of Chemisty, Jilin University

15:36-15:38	Surface Biofunctionalized Multicore/Shell $CdTe@SiO_2$ Composite Particles for
	Immunofluorescence Assay

Dr.	Lihong	Jing.	Institute o	of Chemistry,	CAS
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15:38-15:40	Quantum Dot-Antisense Oligonucleotide Conjugates for Multifunctional Gene
	Transfection, mRNA Regulation, and Tracking of Biological Processes
	Yilin Li, Institute of Chemistry, CAS

Gelification- an Effect Measure for Achieving Differently Sized Biocompatible

	Fe ₃ O ₄ Nanocrystals through a Single Preparation Recipe
	Qiaojuan Jia, Institute of Chemistry, CAS
15:42-15:44	Lateral Flow Immunochromatographic Assay for Sensitive Pesticide Detection by
	Using Fe ₃ O ₄ Nanoparticle Aggregates as Color Reagents
	Chunyan Liu, Institute of Chemistry, CAS
15:44-15:46	Investigation of the Binding Stability between PEG and Fe ₃ O ₄ Magnetic
	Nanoparticles
	Jianfeng Zeng, Institute of Chemistry, CAS
15:46-15:48	Preparation of Magnetic Polystyrene Beads with Different Coatings and Their
	Potential Applications in Biological Field
	Xiaoyu Sun, Institute of Chemistry, CAS
15:48-15:50	Synthesis of PVP-Coated Magnetite Nanocrystals in a Continuous Flow Tubular
	Microreactor
	Hongwei Zhang, Institute of Chemistry, CAS
15:50-16:10	Strategies for Success in Scientific Publishing
	Dr. José Oliveira, Editor-in-Chief of Small, Wiley
16:10-18:00	Posters Disscussion