

Third Circular for
1st International Symposium on
**Molecular Imaging
and Nanomedicine**
**August 20-24, 2011, Lijiang,
China**

Sponsored by Institute of Chemistry, CAS

Background

Nanoscience and nanotechnology have gained significant momentum in recent years to interplay with biology and medical science, leading to the emergence of a new interdisciplinary field called and “nanomedicine”, which have widely penetrated into the fields of life science and medical science, ranging from *in vitro* bioassays, to *in vivo* imaging and diagnosis, and drug delivery. Based on the current research achievements, nanomedicine is believed to offer powerful and multifunctional tools for the bio-detection, bioimaging, targeted drug delivery and therapeutics in the near future, which may greatly change the current status of clinical diagnosis and treatment of malignant tumors.

Aims

The aim of this symposium is to provide a platform for exchanging ideas, to share new

results and achievements in the related fields, and to strengthen the existing collaborations and meanwhile promote new collaborations among all participants in the future.

Topics

- Design and fabrication of novel molecular probes and nanoprobe;
- Applications of nanomaterials and technology in biology and medicine;
- Molecular mechanism and clinical diagnostics of tumors;
- *In vivo* imaging of tumors.

Organizing Committee:

Prof. Zhifang Chai, Prof. Mingyuan Gao,
Prof. Jiacong Shen, Prof. Guojun Zhang

Symposium Chair:

Prof. Mingyuan Gao
Institute of Chemistry, CAS

Conference Language: English

Contact Info:

Lihong Jing, jinglh@iccas.ac.cn
Ruirui Qiao, qiaorr@iccas.ac.cn
Mingyuan Gao, gaomy@iccas.ac.cn

Scientific Program

All participants are expected to give either oral presentations or posters **with 2 min flashtalk presentations.**

August 20

14:00-22:00 Registration

August 21

08:45-11:50

Invited talks

12:00-13:00

Lunch

14:00-18:00

Invited talks

18:30

Welcome banquet

August 22

09:00-11:50

Invited talks

12:00-13:00

Lunch

14:00-17:30

Free Discussion

18:30

Dinner in the old city
of Lijiang

20:00

watch the show of
Naxi Ancient Music

August 23

09:00-12:00

Invited talks

14:00-17:30

Free Discussion

18:30

Conference dinner

August 24

Departure

or visiting the Jade Dragon Snow
Mountain, IMPRESSION LIJIANG directed
by Yimo Zhang, Baisha Village & Baisha
Murals

Venue: Guanfang Hotel Lijiang, Shangri-la
Road, 674100 Lijiang, Yunnan, China.

**Registration fee: After balancing the
symposium budget, all participants are
subjected to registration fees, i.e., 1200
RMB for regular participants, 800 RMB
for students.**

Weather: about 24-14 °C; Shower+Sunshine
with strong UV.

Scientific Program for
1st International Symposium on
Molecular Imaging and Nanomedicine

August 20-24, 2011, Lijiang, China
Sponsored by Institute of Chemistry, CAS

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 applications

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

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

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

11:20-11:50 Engineering Interfacial Nanomaterials toward Capture of
Cancer Cell

Prof. Shutao Wang, Institute of Chemistry, CAS

12:00-13:00 Lunch

Afternoon

14:00-17:30 Free Discussion

18:30 Dinner in the old city of Lijiang

20:00 Watch the show of Naxi Ancient Music show

August 23, 2011

Morning

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 Münster

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

Engineering, 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

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.

