Chinese Chemical Society

5th International Symposium on Microchemistry and Microsystems

8th National Conference on Micro Total Analysis Systems

3rd National Symposium on Micro/NanoScale Bioseparations and Bioanalysis

16-19 May 2013

Xiamen, China

Final Program

ISMM 2013

National μ-TAS

National SMBB

www.ismm2013.org

www.microtas2013-xiamen.org

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Welcome

On behalf of the organizing committee, we welcome all of you to the 5th International Symposium on Microchemistry and Microsystems (ISMM 2013), the 8th National Conference on Micro Total Analysis Systems (National μ-TAS), and the 3rd National Symposium on Micro/NanoScale Bioseparations and Bioanalysis (National SMBB), to be held from May 16 to 19, 2013 in Xiamen, China.

The conference will focus on bioMEMS, nano/micro fluidics, miniaturized medical systems, micro chemistry, micro energy systems, micro/nano bioanalysis, micro total analysis and bio-separation. The main theme of the conference is on the "Translational Microfluidics & Microsystems for Better Medicine and Energy". This conference aims to bring together scientists working on a variety of aspects of micro- and nanosystems for chemistry and life science, from all countries in the Asia-Oceania region. Several world-renowned scientists from other regions are invited to ensure that students will gain immensely from participating in this conference and interacting with international experts. We believe that this great event will provide all the participants with a high-quality and intellectually stimulating venue.

The conference has received 356 abstracts from 8 countries and regions, including 12 plenary lectures, 35 keynote lectures, 31 invited lectures, 57 oral and 221 poster presentations, from world-known scientists to junior researchers and students as well. For ISMM2013, there are 9 plenary lectures, 15 keynote lectures, and 18 invited lectures, 28 oral and 93 poster presentations. The conference is divided into 5 plenary sections, 2 poster sessions and five oral sections on nano/micro fluidics, bio/chem on a chip, micro/nano bioanalysis, bio-separation, and micro total analysis. An exhibition is held as the same time to facilitate research-industry interactions.

We would like to take this opportunity to express our sincere gratitude to all members of International and National Steering Committee who have given us valuable advices, suggestions, and comments in various aspects, and to the Organizing Committee and the Secretariat for their excellent and painstaking work. We also thank the financial supports from Xiamen Municipal Government, Fudan University, Xiamen University, College of Chemistry and Chemical Engineering (XMU), and State Key Laboratory of Physical Chemistry of Solid Surfaces (XMU), as well as all the corporative sponsors.

We hope that through the conference you will turn inspiration into fruitful investigations, make new friends, and renew old friendship. Finally, Xiamen is a seaport city with a recorded history of more than one thousand years. We do hope you will enjoy a wealth of cultural landmarks and attractions in the southeast coast of China.

General Chairs

Prof. Zhongqun Tian

Prof. Pengyuan Yang

Prof. Qun Fang

Organizing Chairs

Prof. Yunbao Jiang

Prof. Chaoyong Yang

REGISTRATION

The registration will all be done in the "Science and Art Center" located next to the Furong Lake within the campus of Xiamen University. The registration desk will be set at the lobby on the 2nd floor, from 14:30 to 18:00 on May 16 (and from 08:30 to 12:00 on May 17 for ISMM 2013). Late registration can be done at the conference secretariat office at Room No. 02 on the 1st floor of the Center. The payment could be done in cash (CNY or USD) or with international credit card payment.

ACCOMMODATION

You may check into your hotel room before registering for the Conference. The hotels, Swiss International Hotel, Tegoo Hotel, Millennium Harbourview Hotel, Yifu Hotel, Keli Hotel, Hilford Hotel and GreenTree Inn, are all around Xiamen University and detailed locations of them are indicated in the attached map. On May 16, there will be volunteers in the lobbies of those hotels who could assist you in case of need. For those who arrive at Xiamen before May 16, please go directly to the hotel you reserved.

When assistance is needed, please contact our volunteers at room 201 of Yifu Hotel directly or by calling 0592-2087988 for extension to room 201.

There will be a shuttle bus available between Swiss International Hotel, Tegoo Hotel, Millennium Harbourview Hotel and Xiamen University. The schedule of the bus is as bellows:

- 20:00 on May 16 from Yifu Hotel to Swiss, Tegoo, and Millennium Hotels
- 08:00 on May 17 from Swiss, Tegoo, and Millennium Hotels to Science and Art Center
- 18:30 on May 17 from Science and Art Center to Grand Honor Hotel
- 21:30 on May 17 from Grand Honor Hotel to All Hotels
- 07:30 on May 18 from Swiss, Tegoo, and Millennium Hotels to Science and Art Center
- 20:00 on May 18 from Yifu Hotel to Swiss, Tegoo, and Millennium Hotels
- 08:00 on May 19 from Swiss, Tegoo, and Millennium Hotels to Science and Art Center
- 20:00 on May 19 from Yifu Hotel to Swiss, Tegoo, and Millennium Hotels

Please look for the bus with the logo of Xiamen University.

In case you miss the shuttle, you could take a taxi to commute. Normally it takes about 10 RMB to travel from these hotels to Xiamen University. Alternatively, you can take a bus which would cost you 1 RMB to shuttle. If you need a translator, please call our volunteer Sophia at 15960360452.

CATERING

Welcome reception/Banque/Culture Night: 18:45 on May 17, at Grand Honor Hotel.

Box Lunches: 12:00-12:30 on May 17 and 11:30-12:30 on May 18-19, at the Exhibition Hall, 1st floor of the Science and Art Center.

Dinners: 18:00 on May 16, 18 and 19 at Yifu Hotel Restaurant.

SYMPOSIUM FORMAT

The scientific program of the conference will start in the morning of May 17 for National conferences and in the afternoon of May 17 for ISMM. The conferences end in the afternoon of May 19, 2013. It consists of 5 sessions, 12 plenary lectures (35 minutes), 35 keynote lectures (25 minutes), 31 invited lectures (20 minutes) and 57 oral lectures (15 minutes). The official language of the conference is English, no translation or interpreting facilities will be available.

NOTES FOR SPEAKERS

The multimedia projectors will be available in all meeting rooms. To save your time for talk and to avoid any unexpected accidents, we strongly recommend you to copy your PPT files to the assigned computers and test the compatibility on the day of registration (May 16 and May 17) or at least one session before the start of your talk in the meeting room computer. Please check the announcement on the Notice Board on the day of Registration if some changes may occur. In case you want to use your own laptop, please check the compatibility of your laptop with the projector in the meeting room at least one session before the start of your presentation.

For plenary/keynote/invited lectures, the discussion time is 5 minutes, and it is 3 minutes for Oral lectures. The volunteers in the meeting room will give you an alarm 2 minutes before discussion time to let you conclude your talk.

NOTE FOR POSTER PRESENTATION

The poster size should be 90 cm (width) × 120 cm (height). The poster sessions are arranged in the Exhibition Hall, 1st floor, the Science and Art Center. Please mount your poster before your Poster Session, according to your poster number. Author should be present at the poster during 11:00-13:30 on May 18 and May 19 for discussion. Please remove your poster before closing ceremony.

EMAIL AND INTERNET ACCESS

ISMM 2013 is providing complimentary wireless internet access throughout all public areas of the Science and Art Center. This service is intended for all conferees and exhibitors to have internet connectivity for email and web access from their portable PC or web enabled device. Please login to the network named "**keyi**" with the password "**aabbccddee**".

NOTE FOR TOURS

Please order city tours and post-conference tours directly from the travel agency at the registration desk. The itineraries listed on the website are just for your reference.

CONTACTS

Secretariat Office	Ms. Qingyu Lin (13515969820), Prof. Zhi Zhu (18750268060)
Registration/Finance:	Ms. Hui Lin (15980852679), Ms. Cuilan Xie (18606096875)
Meeting Rooms:	Mr. Shi Chen (13950006509), Ms. Qingyu Lin (13515969820)
Foreign Affairs	Ms. Hui Lin (15980852679), Ms. Sophia Pan (15960360452)
Hotel/Transportation:	Ms. Weijun Huang (13950002804), Ms. Ling Yan (18850307180)
Meal:	Mr. Shenyang Wang (18959282430), Ms. Qingyu Lin (13515969820)
Poster/Exhibition:	Mr. Yisen Xu (18659237213), Mr. Ping Luo (15860721670)

International Steering Committee for ISMM 2013

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- Dr. Tae Song Kim, Advanced Institute of Science and Technology, Korea

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- Prof. Sang Hoon Lee, Korea University, Korea
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Academic Advisory Committee for National National μ-TAS and National SMBB

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- Prof. Pengyuan Yang, Department of Chemistry, Fudan University, China
- Prof. Qun Fang, Department of Chemistry, Zhejiang University, China

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- Prof. Baohong Liu, Department of Chemistry, Fudan University, China
- Prof. Xinyu Jiang, National Center for Nanoscience and Technology, China
- Prof. Yanyi Huang, College of Engineering, Peking University, China

Stephen Quake

Lee Otterson Professor of Bioengineering and Applied Physics,
Stanford University

"Precision Measurement in Biology"

Date: Saturday, May 18, 2013

Time: 8:00 AM

Location: Science and Art Center, Concert Hall, Xiamen University

Stephen Quake studied physics (BS 1991) and mathematics (MS 1991) at Stanford University, after which he earned a doctorate in theoretical physics from Oxford University (1994) as a Marshall Scholar. He then returned to Stanford University, where he spent two years as a postdoc in Steven Chu's group.

Quake joined the faculty of the California Institute of Technology in 1996, where he rose through the ranks and was ultimately appointed the Thomas and Doris Everhart Professor of Applied Physics and Physics. At Caltech, Quake received "Career" and "First" awards from the National Science Foundation and National Institutes of Health and was named a Packard Fellow. These awards supported a research program that began with single molecule biophysics and soon expanded to include the inventions of single molecule sequencing and microfluidic large scale integration, and their applications to biology and human health. He moved back to Stanford University in 2005 to help launch a new department in Bioengineering, where he is now the Lee Otterson Professor and an investigator of the Howard Hughes Medical Institute.

Quake's contributions to the development of new biotechnology at the interface between physics and biology have been widely recognized. Honors include the Human Frontiers of Science Nakasone Prize, the MIT-Lemelson Prize, the Raymond and Beverly Sackler International Prize in Biophysics, the American Society for Microbiology Promega Biotechnology Research Award, the Royal Society of Chemistry Publishing Pioneer of Miniaturization Award, and the NIH Director's Pioneer Award. He is an elected fellow of the National Academy of Science, the National Academy of Engineering, the Institute of Medicine, the American Institute for Medical and Biological Engineering and of the American Physical Society.

General Schedule

Time		Content		Location
May 16, Thursday	**14:30-18:00**	Registration (National & International)		Lobby, SAC (2nd Floor)
	18:00	Dinner		Yifu Hotel Restaurant
May 17, Friday	**08:30-12:00**	Registration (International)		Lobby, SAC (2nd Floor)
	08:30-09:10	National Mirco-TAS Opening Ceremony		Concert Hall, SAC (2nd Floor)
	09:10-10:20	Plenary Lecture 1-2		Concert Hall, SAC (2nd Floor)
	10:20-10:35	Coffee & Tea Break		
	10:35-12:00	Plenary Lecture 3 and Keynote Lecture 1-2		Concert Hall, SAC (2nd Floor)
	12:00-14:00	Lunch		Exhibition Hall, SAC (1st Floor)
	14:00-14:25	ISMM Opening Ceremony		Concert Hall, SAC (2nd Floor)
	14:25-16:10	Plenary Lecture 4-6		Concert Hall, SAC (2nd Floor)
	16:10-16:25	Coffee & Tea Break		
	16:25-18:00	Parallel Sections	S1-1: Micro/Nano-Fluidics	Concert Hall, SAC (2nd Floor)
			S2-1: Bio/Chem on a Chip	Conf. RM No. 04, SAC (2nd Floor)
			S3-1: Micro/Nano-Bioanalysis	Multi-function Hall, SAC (1st Floor)
			S4-1: Bio-Separation	Conf. RM No. 01 SAC (1st Floor)
	18:30	Banquet / Culture Night		Grand Honor Hotel.
May 18, Saturday	**08:00-09:35**	Plenary Lecture 7-8		Concert Hall, SAC (2nd Floor)
	09:35-09:50	Coffee & Tea Break		
	09:50-11:30	Parallel Sections	S1-2: Micro/Nano-Fluidics	Concert Hall, SAC (2nd Floor)
			S2-2: Bio/Chem on a Chip	Conf. RM No. 04, SAC (2nd Floor)
			S3-2: Micro/Nano-Bioanalysis	Multi-function Hall, SAC (1st Floor)
			S4-2: Bio-Separation	Conf. RM No. 01 SAC (1st Floor)
	11:00-13:30	Poster 1 / Lunch		Exhibition Hall, SAC (1st Floor)
	14:00-15:55	Parallel Sections	S1-3: Micro/Nano-Fluidics	Concert Hall, SAC (2nd Floor)
			S2-3: Bio/Chem on a Chip	Conf. RM No. 04, SAC (2nd Floor)
			S3-3: Micro/Nano-Bioanalysis	Multi-function Hall, SAC (1st Floor)
			S4-3: Bio-Separation	Conf. RM No. 01 SAC (1st Floor)
	15:55-16:10	Coffee & Tea Break		
	16:10-18:10	Parallel Sections	S1-4: Micro/Nano-Fluidics	Concert Hall, SAC (2nd Floor)
			S2-4: Bio/Chem on a Chip	Conf. RM No. 04, SAC (2nd Floor)
			S3-4: Micro/Nano-Bioanalysis	Multi-function Hall, SAC (1st Floor)
			S5-1: Micro-Total Analysis	Conf. RM No. 01 SAC (1st Floor)
	18:30	Dinner		Yifu Hotel Restaurant
May 19, Sunday	**08:30-09:40**	Plenary Lecture 9-10		Concert Hall, SAC (2nd Floor)
	09:40-09:55	Coffee & Tea Break		
	09:55-11:10	Parallel Sections	S1-5: Micro/Nano-Fluidics	Concert Hall, SAC (2nd Floor)
			S2-5: Bio/Chem on a Chip	Conf. RM No. 04, SAC (2nd Floor)
			S3-5: Micro/Nano-Bioanalysis	Multi-function Hall, SAC (1st Floor)
			S4-4: Bio-Separation	Conf. RM No. 01 SAC (1st Floor)
	11:00-13:30	Poster 1 / Lunch		Exhibition Hall, SAC (1st Floor)
	14:00-15:35	Parallel Sections	S1-6: Micro/Nano-Fluidics	Concert Hall, SAC (2nd Floor)
			S2-6: Bio/Chem on a Chip	Conf. RM No. 04, SAC (2nd Floor)
			S3-6: Micro/Nano-Bioanalysis	Multi-function Hall, SAC (1st Floor)
			S5-2: Micro-Total Analysis	Conf. RM No. 01 SAC (1st Floor)
	15:35-15:50	Coffee & Tea Break		
	15:50-17:00	Plenary Lecture 11-12		Concert Hall, SAC (2nd Floor)
	17:00-17:30	Closing and Award Ceremony		Concert Hall, SAC (2nd Floor)
	18:00	Dinner		Yifu Hotel Restaurant

May 17th, Friday 08:30-12:00		Location: Concert Hall, Science and Art Center (2nd Floor)
08:30-09:10		**Micro-TAS Opening Ceremony/Photography**
PL-1	09:10-09:45	Hongyuan Chen, Nanjing University 微纳流控生化分析集成系统研究 Chair: Jiang Guibin
PL-2	09:45-10:20	Yukui Zhang, Dalian Institute of Chemical Physics, CAS New Methods and Platforms for Quantitative Proteome Analysis Chair: Jiang Guibin
10:20-10:35		**Coffee & Tea Break**
PL-3	10:35-11:10	Guibin Jiang, Research Center for Eco-Environmental Sciences, CAS 纳米材料的环境过程与毒性效应 Chair: Pengyuan Yang
K-1	11:10-11:35	Yong Chen, Ecole Normale Supérieure Development Strategy of Synthetic Cellular Microenvironments Chair: Pengyuan Yang
K-2	11:35-12:00	Xiaodong Chen, Soochow University & Xiamen University Simple-effective Microfluidic Device for Mono-disperse Droplet Generation Coupled with Spray Drying Chamber for Producing Uniform Functional Particles Chair: Pengyuan Yang

May 17th, Friday 14:00-16:25		Location: Concert Hall, Science and Art Center (2nd Floor)
14:00-14:25		**ISMM Opening Ceremony**
PL-4	14:25-15:00	Jing Cheng, Tsinghua University The Development of Microarray and Microfluidic Chips for Clinical Testing Chair: SangHoon Lee
PL-5	15:00-15:35	Yoshinobu Baba, Nagoya University Nanobiodevices-Based Single Biomolecule and Single Cell Analysis For Cancer Diagnosis Chair: Jinming Lin
PL-6	15:35-16:10	Fan-Gang Tseng, National Tsing Hua University A Nano/Micro Fluidic System for Circulating Tumor Cells (CTCs) Rapid Detection and Diagnosis Chair: Hongkai Wu
16:10-16:25		**Coffee & Tea Break**

May 17th, Friday 16:25-18:00		Location: Concert Hall, Science and Art Center (2nd Floor)
※Session 1-1: Micro/ Nano- Fluidics Chair: Takeshi Yanagida, Chengkuo Lee		
1-K-1	16:25-16:50	Chengkuo Lee, National University of Singapore Integration of Dissolvable Sharp Maltose tips on SU-8 Microtubes for Transdermal Drug Delivery Application
1-I-1	16:50-17:10	Takeshi Yanagida, Osaka University Emerging Oxide Nanowires: Creation Concept and Their Promises for Microchemistry and Microsystems
1-I-2	17:10-17:30	Zhike He, Wuhan University Stepwise Reagent Introduction-Based Droplet Platform for Multiplexed DNA Sensing
1-O-1	17:30-17:45	Yutaka Kazoe, The University of Tokyo A Particle Tracking Velocimetry for Extended Nanochannels Using Evanescent Wave Illumination
1-O-2	17:45-18:00	Shiyu Zhi ,Xi'an Jiao Tong University Optical Forces on Micro-particles in an Optofluidic Waveguide

May 17th, Friday 16:25-18:00	Location: Conference Room No. 04, Science and Art Center (2nd Floor)	
※Session 2-1 : Bio/Chem on a Chip Chair: Bo Zheng, Dong-Pyo Kim		
2-K-1	16:25-16:50	Dong-Pyo Kim, National Center of Applied Microfluidic Chemistry Safe Microchemical Reactions of Toxic Compounds
2-I-1	16:50-17:10	Bo Zheng, The Chinese University of Hong Kong Analysis of the Viscosity of Cells by Resistive-Pulse Sensing
2-I-2	17:10-17:30	Wei-Hua Huang, Wuhan University Microfluidic Device for Mimicking Cellular Microenvironments and Real-Time Detection of Cells
2-O-1	17:30-17:45	Yang Shi, Dalian Institute of Chemical Physics, CAS A Simple Strategy to Fabricate Concave Microwell Device for Chondrocytes Spheroids Formation and Phenotype Maintenance
2-O-2	17:45-18:00	Dan Ge, Dalian University of Technology Culture and Differentiation of Three-dimensional Mouse Neural Stem/Progenitor Cell in a Microfluidic System

May 17th, Friday 16:25-18:05	Location: Multi-function Hall, Science and Art Center (1st Floor)	
※Session 3-1 : Micro/Nano- Bioanalysis Chair: Bin Ren, Huangxian Ju		
3-K-1	16:25-16:50	Huangxian Ju, Nanjing University Signal Amplification Coupled with Molecular Recognition for Biological Analysis
3-K-2	16:50-17:15	Bin Ren, Xiamen University Plasmon-Enhanced Raman Spectroscopy for Surface- and Bio-Analysis
3-I-1	17:15-17:35	Danke Xu, Nanjing University 基于纳米银探针的微阵列芯片检测方法的研究
3-O-1	17:35-17:50	Xiaodi Su, Institute of Materials Research & Engineering Hybrid Assembly of Gold Nanoparticles with Fluorescent Materials for Studying Protein-DNA Interaction and Ligand Inhibition
3-O-2	17:50-18:05	Yang Yi, Nanyang Technological University Microparticles Sorting by Hydrodynamic Optical Forces

May 17th, Friday 16:25-18:00	Location: Conference Room No. 01 Science and Art Center (1st Floor)	
※Session 4-1 : Bio-Separation Chair: Chengxi Cao, Huwei Liu		
4-K-1	16:25-16:50	Huwei Liu, Peking University Online Coupling of DART MS to CZE and MEKC
4-I-1	16:50-17:10	Chengxi Cao, Shanghai Jiao Tong University 移动反应界面电泳:概念、方法、模拟与应用
4-I-2	17:10-17:30	Feng Qu, Beijing Institute of Technology Novel Application of Capillary Electrophoresis in Biological Analysis
4-O-1	17:30-17:45	Gang Chen, Fudan University Carbon Nanomaterial-based Electrodes for the Amperometric Detection of Capillary and Microchip Electrophoresis
4-O-2	17:45-18:00	Bo Zhang, Xiamen University Droplet Interfaced Multidimensional Separations

May 18th, Saturday 08:00-09:50	Location: Concert Hall, Science and Art Center (2nd Floor)	
PL-7 (Nanqiang Lecture)	08:00-09:00	Stephen Quake, Stanford University Precision Measurement in Biology Chair: Yunbao Jiang
PL-8	09:00-09:35	I-Ming Hsing, Hong Kong University of Science and Technology Engineering Microorganisms for Biomedical and Energy Applications Chair: Dong-Pyo Kim
09:35-09:50		**Coffee & Tea Break**

May 18th, Saturday 09:50-11:20	Location: Concert Hall, Science and Art Center (2nd Floor)	
※Session 1-2: Micro/ Nano- Fulidics **Chair: Hongkai Wu, Jianhua Qin**		
1-K-2	09:50- 10:15	Jianhua Qin, Dalian Institute of Chemical Physics, CAS Biomimetic Microphysiological System on a Chip
1-I-3	10:15- 10:35	Hongkai Wu, Hong Kong University of Science and Technology PDMS vs. Whole-Teflon Microfluidic Chips
1-O-3	10:35- 10:50	Wojciech Bula, Hiroshima University Hybrid Technology (3D Additive Printing-Silico-Glass) Multiline Evaporative Concentrator for Water Quality Monitoring System
1-O-4	10:50- 11:05	Rahul Kishor, Nanyang Technological University Frequency and Amplitude Effects on Microdroplet Displacement by Surface Acoustic Waves
1-O-5	11:05- 11:20	Su-Kyoung Chae, Korea University Micro/Nano-scale Fiber with High-ordered Structures by Mimicking the Spinning of Silkworm

May 18th, Saturday 09:50-11:15	Location: Conference Room No. 04, Science and Art Center (2nd Floor)	
※Session 2-2 : Bio/Chem on a Chip **Chair: Yuzuru Takamura, Kahp Yang Suh**		
2-K-2	09:50- 10:15	Baohong Liu, Fudan University Microreactors for efficient protein identification
2-K-3	10:15- 10:40	Yuzuru Takamura, Japan Advanced Institute of Science and Technology (JAIST) Ultra-compact Elemental Analyzer by Liquid Electrode Plasma and Its Bio-sensing Application
2-I-3	10:40- 11:00	Kahp Yang Suh, Seoul National University Dry Adhesive Skin Patch for in-vitro diagnostics
2-O-3	11:00- 11:15	Xiaoxing Xing, Hong Kong University of Science and Technology Interdigitated 3-D Silicon Ring Electrodes for DEP-activated Cell Separation

May 18th, Saturday 09:50-11:30	Location: Multi-function Hall, Science and Art Center (1st Floor)	
※Session 3-2 : Micro/Nano- Bioanalysis **Chair: Jingwu Kang, Hanfa Zou**		
3-K-3	09:50- 10:15	Hanfa Zou, Dalian Institute of Chemical Physics, CAS Highly Efficient Extraction of Biological Samples with Mesoporous Adsorbents for Protein and Peptides Analysis
3-K-4	10:15- 10:40	Xiaomei Yan, Xiamen University Multiparameter Characterization of Single Nanoparticles and Viruses by a Laboratory-Built High Sensitivity Flow Cytometer
3-I-2	10:40- 11:00	Jingwu Kang, Shanghai Institute of Organic Chemistry, CAS Structural Analysis of Low Molecular Weight Heparin by Ultraperformance Size Exclusion Chromatography/Time of Flight Mass Spectrometry and Capillary Zone Electrophoresis
3-O-3	11:00- 11:15	Mingzhe Gan, Suzhou Institute of Nano-Tech and Nano-Bionics, CAS Parallel Microbial Suspension Culture and Glucose Analysis on a Chip
3-O-4	11:15- 11:30	Yongfeng Mei, Fudan University Lab in a Tube and Sensors

May 18th, Saturday 09:50-11:05	Location: Conference Room No. 01 Science and Art Center (1st Floor)	
※Session 4-2 : Bio-Separation **Chair: Bifeng Yuan, Hailin Wang**		
4-K-2	09:50- 10:15	Hailin Wang, Research Center for Eco-Environmental Sciences, CAS The Kinetics of Isotachophoresis Revealed by Monitoring Non-uniform Motion of Single DNA Molecules
4-I-3	10:15- 10:35	Bifeng Yuan, Wuhan University Highly Sensitive Analysis of DNA Methylation by Polymer Monolithic Capillary Liquid Chromatography-Mass SpectrometryElectrophoresis
4-O-3	10:35- 10:50	Qionglin Liang, Tsinghua University Microfluidics for Model Organism-based Separation and Detection
4-O-4	10:50- 11:05	Hongzhi Wang, Donghua University Continuous High-throughput Phosphopeptide Enrichment Using Microfluidic Channels Modified with Aligned ZnO/TiO_2 Nanorod

May 18th, Saturday 14:00-18:05 Location: Concert Hall, Science and Art Center (2nd Floor)		
※Session 1-3: Micro/ Nano- Fulidics Chair: Chia-Fu Chou, Hugh Fan		
1-K-3	14:00- 14:25	Da-Jeng Yao, National Tsing Hua University Oviduct-Mimetic Chip for Motile Sperm Separation and Oocyte Manipulation to Enhance the Probability of Embryo Fertilization for Oligozoospermia Patients
1-I-4	14:25- 14:45	Jinyi Wang, Northwest A&F University High-throughput Separation of Rare Blood Cells by Steric Hindrance and Inertial Microfluidics
1-I-5	14:45- 15:05	Zhangrun Xu, Northeastern University A Microfluidic Concentration-gradient Droplet Array Generator and Its Applications
1-I-6	15:05- 15:25	Dongping Zhan, Xiamen University Electrochemical Micro- and Nano- Fabrication
1-O-6	15:25- 15:40	Noritada Kaji, Nagoya University A New Design of Microfluidic Components for Bioanalysis
1-O-7	15:40- 15:55	Haitao Zhao, Nanyang Technological University Study on the Diffusion-induced Focusing Phenomenon in Optofluidic Waveguides and its Application in Diffusion Coefficient Measurement
15:55-16:10	**Coffee & Tea Break**	
※Session 1-4: Micro/ Nano-Fulidics Chair: Jinyi Wang, Da-Jeng Yao		
1-K-4	16:10- 16:35	Chia-Fu Chou, National Taiwan University Nanoscale Molecular Dams and Traps for Low-abundance Protein Analysis
1-K-5	16:35- 17:00	Z. Hugh Fan, University of Florida Microfluidics Devices for Cell and Protein Analysis
1-I-7	17:00- 17:20	Yan Chen, Shenzhen Institutes of Advanced Technology, CAS Integrated Microfluidic System for High Throughput Circulating Tumor Cells Capture and Drug Screening
1-O-8	17:20- 17:35	Gareth Jenkins, Nanjing University of Posts and Telecommunications Inkjet Printing Methods for Low Cost Microfluidic Device Production
1-O-9	17:35- 17:50	Zhenfeng Wang, Singapore Institute of Manufacturing Technology Cost-effective Valving Solution for Disposable Microfluidics
1-O-10	17:50- 18:05	Ho Cheung Shum, the University of Hong Kong Syringe-pump-induced Disturbance in a Microfluidic System with Low Interfacial Tension

May 18th, Saturday 14:00-18:00 Location: Conference Room No. 04, Science and Art Center (2nd Floor)		
※Session 2-3: Bio/Chem on a Chip Chair: Minkyu Je, Zhiling Zhang		
2-K-4	14:00- 14:25	SangHoon Lee, Korea University Microfluidic Platform to Provide Microenvironment to 2D & 3D Cell Models
2-I-4	14:25- 14:45	Bifeng Liu, Huazhong University of Science and Technology Microfluidic Mixer: Approach to Interrogating Folding Kinetics of Biomacromolecules
2-I-5	14:45- 15:05	Shutao Wang, Institute of Chemistry, CAS Engineering Adhesive Surfaces for Detecting Circulating Tumor Cell
2-O-4	15:05- 15:20	Cheng-Chiang Huang, Hsinchu City A Simple and Cost-effective Method of Catalyst Coating in Micro Reactors for Partial Oxidation of Methanol
2-O-5	11:00- 11:15	Bo Ma, Qingdao Institute of BioEnergy and BioProcess Technology, CAS Raman-activated Single Cell Sorting and Analysis on Microfluidics Device
2-O-6	15:35- 15:50	Wenfu Zheng, National Center for NanoScience & Technology A Microfluidics Chip for Modeling Haemodynamic Environment in Blood Vessel
15:50-16:10	**Coffee & Tea Break**	

May 18th, Saturday 16:10-18:00 Location: Conference Room No. 04, Science and Art Center (2nd Floor)		
※Session 2-4: Bio/Chem on a Chip Chair: SangHoon Lee, Bifeng Liu		
2-K-5	16:10-16:35	Minkyu Je, Institute of Microelectronics Integrated Circuits and Microsystems for Emerging Biomedical Applications
2-I-6	16:35-16:55	Zhiling Zhang, Wuhan University Viruses On Chips
2-I-7	16:55-17:15	Rui Zhao, Institute of Chemistry, CAS Continuous-flow Microfluidic Chip based Synthesis, Screening and Detection of Bioactive Peptides towards Beta-Endorphin Antibody
2-O-7	17:15-17:30	Runtao Zhong, Dalian Institute of Chemical Physics, CAS Droplet-based Microfluidics for High-throughput Screening of Glycosidases and Rapid Digestion of Oligosaccharides
2-O-8	17:30-17:45	Aaron M Streets, Peking University Microfluidic Platform for Label Free Cellular Imaging, Screening, and Sorting
2-O-9	17:45-18:00	Long-Sun Huang, National Taiwan University Nanomechanical Drug Detection of Phenytoin Using a Single Free-standing Piezoresistive Microcantilever for Anti-epileptic Therapeutic Drug Monitoring

May 18th, Saturday 14:00-18:05 Location: Multi-function Hall, Science and Art Center (1st Floor)		
※Session 3-3: Micro/ Nano Bioanalysis Chair: Xiaoquan Lu, Qiuquan Wang		
3-K-5	14:00-14:25	Junjie Zhu, Nanjing University Quantum Dots: Synthesis and Electrochemiluminescence Sensing
3-I-3	14:25-14:45	Junshan Liu, Dalian University of Technology Integration of Microelectrodes on Polymer Microfluidic Chips
3-I-4	14:45-15:05	Guohua Zhou, Nanjing University School of Medicine Analysis of Colorectal Cancer-related Biomarkers in Stools by Digital Counting of Single Molecules
3-O-5	15:05-15:20	Zhiyong Wu, Northeastern University Nanofluidic Bioassay in Fused Silica Capillary
3-O-6	15:20-15:35	Erqun Song, Southwestern University 透明质酸修饰的氧化石墨烯用于抗肿瘤药物的靶向传递
3-O-7	15:35-15:50	Yang Song, University of Hong Kong Encapsulation of Cells in Core-shell Structured Capsules Templated from All-Aqueous Emulsion
15:50-16:10		**Coffee & Tea Break**
※Session 3-4: Micro/ Nano Bioanalysis Chair: Junjie Zhu, Guohua Zhou		
3-K-6	16:10-16:35	Xiaoquan Lu, Northwest Normal University Photoelectrochemical Study Based On Porphyrin Functionalized-Carbon Materials Hybrid Nanocomposites
3-K-7	16:35-17:00	Xi Chen, Xiamen University Bioinspired, Versatile, Ultralight N-doped Graphene Foam
3-I-5	17:00-17:20	Aihua Liu, Qingdao Institute of Bioenergy and Bioprocess Technology, CAS Fluorescent Dye-chemically-doped Silica Nanostructures for Sensitive DNA Microarray
3-O-8	17:20-17:35	Yuanyuan Su, Soochow University 水溶性 CdTe 量子点的生物安全性评价
3-O-9	17:35-17:50	Chen Wang, Nanjing University FRET-based Detection of Trace Amount of Proteins on a Micro/Nano fluidic Device
3-O-10	17:50-18:05	Dayu Liu, Guanzhou Medical University 微流控芯片子宫内的受精和胚胎发育

May 18th, Saturday 14:00-17:45	Location: Conference Room No. 01 Science and Art Center (1st Floor)	
※Session 4-3: Bio Separation Chair: Zhen Liu, Xingguo Chen		
4-K-3	14:00-14:25	Xingguo Chen, Lanzhou University On-line Concentration of Chiral Cationic Molecules in NACE by Supercharging Electrokinetic Stacking in Lower pH Sample Solution
4-K-4	14:25-14:50	Xinmiao Liang, Dalian Institute of Chemical Physics, CAS Enrichment of Glycopeptides with Novel Polymer-based Materials
4-I-4	14:50-15:10	Zhen Liu, Nanjing University Molecular Imprinting of Glycoproteins via Boronate Affinity: from 2D to 3D Single Molecules
4-O-5	15:10-15:25	Jie Zhang, Tsinghua University 微流控芯片质谱联用研究体外肝模型中前体药物代谢
4-O-6	15:25-15:40	Rongji Dai, Beijing Institute of Technology 纳米介孔材料固定化酶用于药物筛选的研究
4-O-7	15:40-15:55	Ying Zhu, Zhejiang University Laterally Shifting Laser Focus Point on Round Capillary can Improve the Sensitivity of Confocal Laser Induced Fluorescence Detection to Sub-picomolar Scale
15:55-16:10		**Coffee & Tea Break**
※Session 5-1: Micro-Total Analysis Chair: Jicun Ren, Ying Mu		
5-K-1	16:10-16:35	Jicun Ren, Shanghai JiaoTong University Microfluidic Chip with Fluorescence Correlation Spectroscopy
5-I-1	16:35-16:55	Ying Mu, Zhejiang University 自吸离散化数字 PCR 芯片的研究
5-I-2	16:55-17:15	Tianzhun Wu, Sun Yat-sen University 基于润湿特性仿生的 PDMS 功能涂层自图形化
5-O-1	17:15-17:30	Xianming Liu, Dalian Institute of Chemical Physics, CAS Measurement and Intelligent Control of Electrowetting-actuated Droplets by Means of Electronic Approaches
5-O-2	17:30-17:45	Zengqiang Wu, Nanjing University β-Galactosidase / Glucose Oxidase Cascade Reaction in Microfluidic system: Convection and Diffusion Interaction

May 19th, Sunday 08:30-09:55	Location: Concert Hall, Science and Art Center (2nd Floor)	
PL-9	08:30-09:05	Takehiko Kitamori, University of Tokyo Extended-Nano Fluidics for Novel Functional Devices Chair: Qun Fang
PL-10	09:05-09:40	Lin Bingcheng, Dalian Institute of Chemical Physics, CAS Managing Droplets with Automation and Intelligence Chair: Koji Otsuka
09:40-09:55		**Coffee & Tea Break**

May 19th, Sunday 09:55-11:15	Location: Concert Hall, Science and Art Center (2nd Floor)	
※Session 1-5: Micro/ Nano-Fulidics Chair: Peng Liu, Xinghua Xia		
1-K-6	09:55-10:20	Xinghua Xia, Nanjing University Fundamental and Application of Nanofluidics
1-I-8	10:20-10:40	Peng Liu, Tsinghua University Development of Fully Integrated Microfluidic Systems for High-Performance Genetic Analysis
1-I-9	10:40-11:00	Li Qi, Institute of Chemistry, CAS, China Study on Three Dimensional Spiral Micromixers
1-O-11	11:00-11:15	Yuriy Pihosh, University of Tokyo New Approach towards Developing a Solar Light Driven Micro Fuel (H_2/O_2) Generation Device based on the Microfluidic Chip

May 19th, Sunday 09:55-11:10	Location: Conference Room No. 04, Science and Art Center (2nd Floor)	
※Session 2-5: Bio/Chem on a Chip Chair: Ning Fang, Jinming Lin		
2-K-6	09:55-10:20	Jinming Lin, Tsinghua University Development of a Microfluidic Methods for the Study of Cytotoxicity of Quantum Dots and Their Influential Factors
2-I-8	10:20-10:40	Ning Fang, Iowa State University High-Fidelity Optical Imaging of Single Molecules, Nanoparticles, and Cells in Microfluidic Devices
2-O-10	10:40-10:55	Jiashu Sun, National Center for NanoScience and Technology, China Inertial Microfluidics for Separation and Detection of Tumor Cells
2-O-11	10:55-11:10	Yifan Liu, Hong Kong University of Science and Technology Stretching DNA in Nanocapillaries Fabricated through Coarse (>1μm) Lithography

May 19th, Sunday 09:55-11:10	Location: Multi-function Hall, Science and Art Center (1st Floor)	
※Session 3-4: Micro/Nano- Bioanalysis Chair: Yao He, Lihua Zhang		
3-K-8	09:55-10:20	Lihua Zhang, Dalian Institute of Chemical Physics, CAS New Materials and Techniques for Micro/Nano-scale Sample Preparation and Their Applications in Proteome Analysis
3-I-6	10:20-10:40	Yao He, Soochow University 基于功能硅纳米结构的生物成像、分析检测和肿瘤诊治的应用研究
3-O-11	10:40-10:55	Fan Zhang, Fudan University High Efficient Upconverting Fluorescent Nanomaterials for Disease Diagnostics and Therapy
3-O-12	10:55-11:10	Fangcheng Xu, Xiamen University 环境微生物领域的单细胞技术

May 19th, Sunday 09:55-11:10	Location: Conference Room No. 01 Science and Art Center (1st Floor)	
※Session 4-4: Bio-Separation Chair: Qiaosheng Pu, Chao Yan		
4-K-5	09:55-10:20	Chao Yan, Shanghai Jiao Tong University Advances of Pressurized Capillary Electrochromatography and Its Applications in Pharmaceutical and Biochemical Analyses
4-I-5	10:20-10:40	Qiaosheng Pu, Lanzhou University Towards Practical Microchip Electrophoresis: Low-cost Devices and Extra Efforts
4-O-8	10:40-10:55	Jia Tang, Thermo Fisher Scientific Easy-nLC 1000 和 Q Exactive 联用系统——定量蛋白质组学研究的黄金平台
4-O-9	10:55-11:10	Xiayan Wang, Beijing University of Technology 微纳毛细管色谱用于自由溶液 DNA 分离

May 19th, Sunday 14:00-15:50	Location: Concert Hall, Science and Art Center (2nd Floor)	
※Session 1-6: Micro/ Nano-Fulidics Chair: Yanyi Huang, Ai-Qun Liu		
1-K-7	14:00-14:25	Ai-Qun Liu, Nanyang Technological University What's Matter of Optofluidics
1-K-8	14:25-14:50	Yanyi Huang, Peking University Microfluidic Devices for Single cell Transcriptome Analysis
1-O-12	14:50-15:05	Katsuhiro Aritome, Hiroshima University Autonomous Compact Water Quality Monitor
1-O-13	15:05-15:20	Zhen Cao, Hong Kong University of Science and Technology Self-enclosed Cylindrical Submicron Glass Capillary Array for DNA Separation
1-O-14	15:20-15:35	Ruiyang Zhang, Nanyang Technological University Simulation and Investigation of Optofluidic Waveguides with Different Geometries
15:35-15:50	**Coffee & Tea Break**	

May 19th, Sunday 14:00-15:50		Location: Conference Room No. 04, Science and Art Center (2nd Floor)
※Session 2-6: Bio/Chem on a Chip Chair: Tae Seok Seo, Xingyu Jiang		
2-K-7	14:00- 14:25	Xingyu Jiang, National Center for NanoScience and Technology Microfluidics for Construction of Vessels
2-I-9	14:25- 14:45	Tae Seok Seo, Korea Advanced Institute of Science and Technology Integrated Rotary Genetic Analysis Microsystem
2-O-12	14:45- 15:00	Takeo Nakagawa, School of Information Science Water-Droplet Placed on Rotating Disk
2-O-13	15:00- 15:15	Yuan Luo, Hong Kong University of Science and Technology A Novel Fabrication Method of Microcapillaries via Silicon Surface Migration and Their Application to Single-cell Impedance Spectroscopy
2-O-14	15:15- 15:30	Izumi Kubo, Soka University Detection System for Expressed Gene in Isolated Single Cells on a Microfluidic Device
15:35-15:50		**Coffee & Tea Break**

May 19th, Sunday 14:00-15:50		Location: Multi-function Hall, Science and Art Center (1st Floor)
※Session 3-6: Micro/Nano- Bioanalysis Chair: Gongke Li, Shulin Zhao		
3-K-9	14:00- 14:25	Shulin Zhao, Guangxi Normal University 微流控芯片电泳高灵敏检测体系的开发与应用
3-K-10	14:25- 14:50	Gongke Li, Sun Yat-sen University 复杂样品印迹微萃取在线快速分析方法研究进展
3-O-13	14:50- 15:05	Fan Yang, Shanghai Institute of Applied Physics, CAS An Intelligent Microfluidic Electrochem Biosensor with Automated Fluid Delivery toward POC Detection
3-O-14	15:05- 15:20	Qinghua Meng, Shanghai Jiao Tong University 一种基于氢键作用的新型 pH 荧光探针的光谱与细胞成像研究
3-O-15	15:20- 15:35	Huanming Xia, Nanyang Technological University Fluid Mixing Enhancement in Miniaturized Fluidic Systems through Flow Induced Vibration
15:35-15:50		**Coffee & Tea Break**

May 19th, Sunday 14:00-15:50		Location: Conference Room No. 01 Science and Art Center (1st Floor)
※Session 5-2: Micro-Total Analysis Chair: Jingjuan Xu, Yi Chen		
5-K-2	14:00- 14:25	Yi Chen, Institute of Chemistry, CAS 光子晶体微流控芯片的制备与应用
5-K-3	14:25- 14:50	Jingjuan Xu, Nanjing University 微流控芯片上的电致化学发光分析
5-O-3	14:50- 15:05	Yongliang Zhou, Xiamen University Low-cost Fabrication of Glass based Microfluidic Chips by PAG Electrochemical Soft Stamping
5-O-4	15:05- 15:20	Tiean Zhou, Hunan Agricultural University Novel Voltage Controlled Solid State Pumps Using Microchannel Plates
5-O-5	15:20- 15:35	Gang Li, Shanghai Institute of Microsystem and Information Technology, CAS A Self-contained Metering and Mixing Microfluidic Device for Lab on a Chip
15:35-15:50		**Coffee & Tea Break**

May 19th, Sunday 15:50-17:30		Location: Concert Hall, Science and Art Center (2nd Floor)
PL-11	15:50- 16:25	Je-Kyun Park, Korea Advanced Institute of Science and Technology Microdroplet Control for Single-Cell Screening and Analysis Chair: Xinghua Xia
PL-12	16:25- 17:00	Boo Cheong Khoo, National University of Singapore Bubble Dynamics Near a Perforated Boundary at the Micrometer Scale Chair: Aiqun Liu
17:00-17:30		**Closing and Award Ceremony**

Poster Section 1 (P-I-1—P-I-45; P-D-1—P-D-65)

May 18th, Saturday 11:00-13:30

Location: Exhibition Hall, Science and Art Center (1st Floor)

No.	Title	Authors
P-I-1	A microfluidic model for researching the organ-targeted metastasis of salivary adenoid cystic carcinoma	Jing Kong; Yong Luo; Bingcheng Lin; Tingjiao Liu. Dalian Medical University
P-I-2	A microfluidic-based model for investigation of tumor-induced angiogenesis	Zhaorong Xie; Tingjiao Liu. Dalian Medical University
P-I-3	Facile and Rapid Generation of Micro-Agarose-Gel Array for Large-scale Long-term Single Cell Culture	Zhichao Guan, Shasha Jia, Jiangquan Lv, Zhi Zhu, Chaoyong James Yang. Xiamen Univeristy
P-I-4	Formation of 3D hybrid spheroids by co-culturing primary pancreatic islets and hepatocytes	Yesl Jun; Ah Ran Kang; Jae Seo Lee; Sang-Hoon Lee. Korea University
P-I-5	Cell patterning using microstructured ferromagnetic thin films	Chiun-Peng Lee; Chia-Yi Chen; Zung-Hang Wei. National Tsing Hua University
P-I-6	Spheroid-based flow-chip to investigate hepatocyte-hepatic stellate cell	Seung-A Lee; Da Yoon No; Sang-Hoon Lee. Korea University
P-I-7	Magnetic thin film array assisted transportation of superparamagnetic particle chains	Chiun-Peng Lee; Hsin-Yi Tsai; Mei-Feng Lai. National Tsing Hua University
P-I-8	Magnetic cell patterning on magnetic rings fabricated by T-junction microfluidics	Chiun-Peng Lee; Ting-Shen Lan; Zung-Hang Wei. National Tsing Hua University
P-I-9	Fabrication of hexagonally patterned ferrofluid dot array by magnetic hydrodynamic instability for magnetic cell patterning	Chiun-Peng Lee; Wen-Lin Lui1; Mei-Feng Lai. National Tsing Hua University
P-I-10	Cell micropatterning and manipulation on the photodegradable hydrogel sheet	Shinji Sugiura; Toshiyuki Takagi; Kimio Sumaru; Manae Yamaguchi; Toshiyuki Kanamori. National Institute of Advanced Industrial Science and Technology (AIST)
P-I-11	Real time intracellular calcium response to a gradient hyperosmotic stress on single cells	Huang Xiaowen; Wang Zuankai. City University of Hong Kong
P-I-12	Highly sensitive and quantitative detection of rare pathogens through agarose droplet microfluidic emulsion PCR at the single-cell level	Mingxia Zhang, Wenhua Zhang, Xuefei Leng, Zhiyuan Liu, Zhichao Guan, Zhi Zhu, Chaoyong James Yang. Xiamen University
P-I-13	High-throughput Platforms for Study of Combination Effects of Environmental Pollutants by Microfluidic Technologies	Yipei Yang; Chang Wang; Hongkai Wu. Hong Kong University of Science and Technology
P-I-14	Multilayer microfluidic concentrating device for the study of cell-free protein expression	Chu Zhang; Hui Feng; Bo Zheng. The Chinese University of Hong Kong
P-I-15	Dequenching fluorescence in surface plasmon-coupled emission (SPCE) and its biosensing application.	Shuo-Hui Cao; Wei-Peng Cai; Qian Liu; Yu-Hua Weng; Kai-Xin Xie; Yao-Qun Li. Xiamen University
P-I-16	Miniaturized laser-induce fluorescence detector for capillary electrophoresis	Xiao-Xia Fang; Jian-Zhang Pan; Qun Fang. Zhejiang University
P-I-17	Analysis of the viscosity of cells by resistive-pulse sensing	Guo Dameng; Chen Qianjin; Zheng Bo. The Chinese University of Hong Kong
P-I-18	Direct electrochemistry for enzymes adsorbed on carbon nanofiber-based electrode	Dai Kato; Qiang Xue; Tomoyuki Kamata; Qiaohui Guo; Tianyan You; Osamu Niwa. National Institute of Advanced Industrial Science and Technology (AIST)
P-I-19	Label-free study of PNA/DNA hybridization by streaming potentials	Yuefang Li; Bo Zheng. The Chinese University of Hong Kong
P-I-20	Design of a two- and three-input DNA logic gates using oligonucleotides containing fluorophore-quencher pairs	Jia-Hui Lin; Wei-Lung Tseng. National Sun Yat-sen University
P-I-21	Sensitive and simple snalysis of BCR/ABL using one-step reverse transcriptase polymerase chain reaction and microchip capillary electrophoresis	Xuexia Lin; Linlu Yi; Jin-Ming Lin. Tsinghua University
P-I-22	Light-addressable electrodeposition of enzyme-entrapped chitosan membranes for multiplexed enzyme-based bioassay using a digital micromirror device	S. H. Huang; Y.S. Lin; H.T. Chu. National Taiwan Ocean University
P-I-23	Improved orientation of probe antibody via oxidized glycochains linkage over amino-based immobilization	Sha Li; Laiyang Li1; Jie Li; Leiji Zhou. Xiamen University
P-I-24	Reduction of incubation time and enhancement of analyte adhesion uniformity of impedance biosensors using	Jaw-Ji Tsai; Yi-Fen Liu; En-Chih Liao; Jau-Liang Chen; Gou-Jen Wang. National Chung-Hsing

	microvibration method	University
P-I-25	Adenosine-Based Molecular Beacons as Light-up Probes for Sensing of Heparin in Serum	Chia-Yin Kuo; Wei-Lung Tseng. Kaohsiung Medical University
P-I-26	NANO-CEC Chip with Sequential Electrical Concentration for High Sensitive Continuous Analysis of Biochemicals Released By Single Cells	Pei-Ju Wang; Ren-Guei Wu; and Fang-Gang Tseng. National Tsing Hua University
P-I-27	Lanthanide-oligonucleotides probe to detect lead at sub-nM levels by fluorescence	Yueteng Wei; Ru Liu; Yaling Wang; Yuliang Zhao; Zhifang Cai; Xueyun Gao. Institute of High Energy Physics, CAS
P-I-28	Silicon nanowires gated nanofluidic system for single bacterium detection by msn-based redox signal amplification	Po-Chao Wen; Ren-Guei Wu; Hwan-You Chang; Fan-Gang Tseng. National Tsing Hua University
P-I-29	Trace Detection of Specific Viable Bacteria Using Tetracysteine-Tagged Bacteriophages	Lina Wu; Tian Luan; Xiaoting Yang; Shuo Wang; Shaobin Zhu; Xiaomei Yan. Xiamen University
P-I-30	Measurement of Concentration of Nitrite in Seawater by a Portable System	Chih-Wei Wu; Wei-Han Chen. National Taiwan Ocean University
P-I-31	A Gold Nanoparticle-based DNA Sensor for Ultrasensitive Detection of Hg^{2+} and K^{+} ions by laser-induced Rayleight Light Scattering	Cheng-Ju Yu; Wei-Lung Tseng. National Sun Yat-sen University
P-I-32	Systematic Screening for Mitochondria-Targeting Anticancer Drugs by a Laboratory-Built High-Sensitivity Flow Cytometer	Xiang Zhang; Sha Chen; Chaoxiang Chen; Shuyue Zhang; Xiaomei Yan. Xiamen University
P-I-33	Detection of Minority Populations of Resistant Bacterial Cells by High Sensitivity Flow Cytometry	Yan Zheng; Tianxun Huang; Yunbin Jiang; Qing Shao; Bengang Xing; Xiaomei Yan. Xiamen University
P-I-34	Structured Microgels Through Microfluidic Synthesis and Assembly	Rongcong Luo; Chia-Hung Chen. National University of Singapore
P-I-35	DNA Aptamer against Epithelial Cell Adhesion Molecule (EpCAM): A New Probe for Rare Cancer Cell Enrichment	Yanling Song, Yuan An, Weiting Zhang, Chundong Yu, ZhuZhi, Wei Duan, Chaoyong Yang, Xiamen University
P-I-36	Separation and determination of four antibiotics in pig plasma by FASS-OT-CED with dimethylethanolamine amination polychloromethyl styrene nano-latex (DMEAPL) coated capillary column	Yaxiao Guo; Wei Tang; FeiFei Xu; Yangjie Wu; Shusheng Zhang. Zhengzhou University
P-I-37	High PCR efficiency achieved by poly(L-lysine)-graft-poly(2-methyl -2-oxazoline)(PLL-g-PMOXA) and poly(L-lysine)-graft-poly (ethyl- ene glycol) (PLL-g-PEG) copolymer passivation on silicon oxide and PDMS chip	Yiwei Shu; Yin Chen; Yihua Zhao; Hongkai Wu. Hong Kong University of Science and Technology
P-I-38	Rapid Screening of Photocatalysts Using Microfluidic Chip	Hao Zhang; Jingjing Wang; Jie Fan; Qun Fang. Zhejiang University
P-I-39	Development of Immuno-Pillar Chip for Biomarker Detection in Clinical Diagnosis	Nanako Nishiwaki; Akihiko Ishida; Hirohumi Tani; Toshihiro Kasama; Yoshinobu Baba; Manabu Tokeshi. Hokkaido University
P-I-40	Target-responsive “Sweet” Hydrogel with Glucometer Readout for Portable and Quantitative Detection of Non-glucose Targets	Ling Yan, Zhi Zhu, Yuan Zou, Yishun Huang, Dewen Liu, Shasha Jia, Chaoyong James Yang. Xiamen University
P-I-41	Preparation of urchin-like Ag nanoparticles/ZnO hollow nanosphere array chips as the sers substrates	Xu He; Jing Li; Junyong Kang. Xiamen University
P-I-42	Effect of oxygen vacancies on Cu/ZnO for partial oxidation of methanol in high performance micro-channel reactor	Kuan-Yi Lee; Yuh-Jeen Huang. National Tsing Hua University
P-I-43	Fuel Supplied by Piezoelectric Actuated Micro Droplets for Direct Methanol Fuel Cells	Ting-Wei Liu; Welkin Ling; Yu-Chuan Su; Shih-Hao Liang; Chun-Ho Tai; Fan-Gang Tseng. National Tsing Hua University
P-I-44	On-chip all-solid-states thin film lithium-ion micro-batteries with snox films doped with cu as negative electrode	C. Liu; J. L. Guo; J. Lin; Q. Liu; and H. Guo. Xiamen University
P-I-45	A STACK MICRO DIRECT METHANOL FUEL CELL USING SILICON AND PDMS	Y.B. Zeng; G.S. Cheng; Z.G. Zhao; H. Guo. Xiamen University
P-D-1	Evaluation of Single-Particle Fritted Capillary Columns for Electrochromatography	Qing Liu; Bo Zhang. Xiamen University
P-D-2	Characterization of theIonic Liquid monolithic columns: impact of anions on resolution of proteins in capillary electrochromatography	Cui-Cui Liu; Qi-Liang Deng; Guo-Zhen Fang; Shuo Wang; Xue Feng. Tianjin University of Science and Technology
P-D-3	一种新颖快速分离颗粒物的电泳技术	杨翠; 任众; 朴吉寿; 朴相范; 李东浩. 延边大学
P-D-4	Analysis of three compouds in Flos Farfarae by Capillary Electrophoresis with Large-volume sample stacking	Zeng-Yan Hao; Yu-Jiao WU; Wen-Yan Zhao; Guo-Yan Wang; An-Jia Chen. Shanxi Medical University
P-D-5	纳米纤维素在毛细管电泳手性分离中的应用	董树清; 高瑞斌; 张霞; 张晓莉; 王利涛; 郭玫; 赵亮.

		中国科学院兰州化学物理研究所
P-D-6	Capillary Electrophoresis Velocity Gap Mode Developed for Enantioseparations	Xue Li; Youxin Li; James J. Bao; Jianguo Shen; Yong Zhang. Tianjin University
P-D-7	基于活性荧光探针(ABP)的半胱氨酸组织蛋白酶单细胞分析	徐飞; 樊锋凯; 刘欣; 杜伟; 冯晓均; 刘笔锋. 华中科技大学
P-D-8	基于毛细管电泳的酶促反应全程在线连续检测	杨丽; 田苗苗; 尹正日; 郭黎平. 东北师范大学
P-D-9	单颗粒塞法建立毛细管长色谱柱	韩京; 张博. 厦门大学
P-D-10	Boronate affinity monolithic capillary-based rapid selection of high-specificity glycoprotein-binding DNA aptamers	Hongyuan Nie; Yang Chen; Chenchen Lü; Zhen Liu.Nanjing University
P-D-11	ICP/MS Analysis with New SEC Column for Protein Combined with Metal and Selenoamino Acids Present in Organism in Trace Amount	Gaiyun Song; Minjie Zeng; Kazunori Iwata; Yoshimitsu Ogra. Showa Pharmaceutical University
P-D-12	Analysis of Trace Metalloprotein in Bio-fluid by LC-ICP/MS with Novel Micro-affinity Column	Gaiyun Song; Minjie Zeng; Kazunori Iwata; Naoki Furuta. Showa Pharmaceutical University
P-D-13	Separation of Iso-Form of Trace of Metallothioneins in Living Body Using New GFC Column and 2D-LC-ICP-MS	Gaiyun Song; Minjie Zeng; Kazunori Iwata; Yoshimitsu Ogra. Showa Pharmaceutical University
P-D-14	Sensitive determination of chloroanilines in water samples by hollow fiber-based liquid-phase microextraction prior to capillary electrophoresis with amperometric detection	Yali Pan; Fang Chen; Yan Liu; Qingcui Chu; Jiannong Ye. East China Normal University
P-D-15	Rapid and sensitive detection of Cu(II) on quartz crystal microbalance sensor via gold nanoparticle amplification	Yulong Jin; Yanyan Huang; Guoquan Liu; Rui Zhao. Chinese Academy of Sciences
P-D-16	基于液滴微流控技术的蛋白质酶解	李怡欣; 纪季; 聂磊; 郭丽萍; 杨芃原; 刘宝红. 复旦大学
P-D-17	100-plex Genetically Modified Organisms (GMOs) Monitoring by an Array-based Multiplex PCR Coupled with a DNA Microarray	Ning Shao; Shimeng Jiang; Miao Zhang; Dabing Zhang, Litao Yang, Sheng-Ce Tao. Shanghai Jiao Tong University
P-D-18	Seapration of chelerythrine and sanguinarine in traditional Chinses medicines by nonaqueous capillary electrophoresis in uncoated and coated glass chips with laser induced fluorescence detection	Yue Sun; Xiaofeng Gao; Yuanyuan Li. Guangdong Pharmaceutical University
P-D-19	In-depth research of multidrug resistance related cell surface glycoproteome in gastric cancer	Kai Li; Zhen Sun; Jianyong Zheng; Yuanyuan Lu; Yangyang Bian; Mingliang Ye; Xin Wang; Yongzhan Nie; Hanfa Zou; Daiming Fan. Dalian Institute of Chemical Physics
P-D-20	Teicoplanin immobilized magnetic mesoporous nanoparticles for direct chiral separation racemic compounds	Jingwei Wu; Ping Su; Jun Huang; Siming Wang; Yi Yang. Beijing University of Chemical Technology
P-D-21	Selective capture of phosphopeptides by the hierarchical Ti-aluminophosphate-5 molecular sieves	Xu Bo; Zhou Lipeng; Wang Fangjun; Qin Hongqiang; Zhu Jun; Zou Hanfa. Zhengzhou University
P-D-22	环境微生物微分析方法研究进展	沈伟煌; 卢英华; 徐方成. 厦门大学
P-D-23	营养调控对苗期水稻三价砷污染物迁移、累积及转化特性的影响	杨桂娣; 黄怡; 杨卫惠; 杨孝军; 王家琪; 林志华;何海斌.福建农林大学
P-D-24	基于长柱的一维 nanoLC-MS/MS 的蛋白质分离鉴定	殷薛飞; 刘晓慧; 张扬; 申华莉; 晏国全; 陆豪杰;杨芃原. 复旦大学
P-D-25	GSH-CdTe 量子点与溶菌酶的偶联及其毛细管电泳分离分析研究	应素燕; 王卫平. 浙江师范大学
P-D-26	内源性植物激素的高灵敏定量分析	蔡保东; 丁俊; 袁必锋; 冯钰锜. 武汉大学
P-D-27	基于微流控芯片的线虫微注射的研究	赵幸福; 葛安乐; 高文杰; 杜伟; 冯晓均; 刘笔锋.华中科技大学
P-D-28	基于微流控芯片技术的 C2C12 细胞分离微电极的设计	单鹏飞; 刘泉; 丁孺牛; 高贻钧; 陈建军. 华中农业大学
P-D-29	连续管式反应器中钯纳米颗粒的绿色制备	李学亮，李清彪，孙道华. 厦门大学
P-D-30	Spray: A Rapid and Cheap Method for Depositing Sers Arrays On Microfluidic Paper	Bowei Li; Wei Zhang; Lingxin Chen. Chinese Academy of Sciences,
P-D-31	Solution pH Modulated Rectification of Ionic Current in Highly Ordered Nanochannels Array Patterned with Chemical Functional Groups at Designed Positions	Chengyong Li; Xinghua Xia. Nanjing University
P-D-32	琼脂糖微流控芯片用于病原菌的富集与检测	李一伟; 李恒辉; 冯晓均; 杜伟; 刘笔锋. 华中科技大学
P-D-33	利用多相液段分隔与融合在毛细管中集成 DNA 提取和扩增	刘大渔; 梁广铁. 广州医学院附属市一人民医院

P-D-34	A rapid manufacturing technology for microfluidic chip based on PMMA	Xinhua Ma; Guorong Ou; Bei Zhu; Nan Liu. Institute of Health and Environmental Medicine, Tianjin
P-D-35	一种聚甲基丙烯酸甲酯材料微流控芯片快速加工技术	马新华; 欧国荣; 朱蓓; 刘 楠. 天津市环境与食品安全风险监控技术重点实验室
P-D-36	具有温度敏感硼酸亲和效应的 PDMS 基片的制备及表征	满 燕; 吕雪飞; 邓玉林. 北京理工大学
P-D-37	基于分流捕获单细胞的肿瘤凋亡研究	汪耀; 张启伟; 冯晓均; 杜伟; 刘笔锋. 华中科技大学
P-D-38	基于水凝胶微管的体外肿瘤转移与血管新生模型构建	王雪莹; 裴莹; 王阳; 谢敏; 张俐娜; 李雁; 黄卫华. 武汉大学
P-D-39	Core-shell Metallic-nanoparticles Modified Microfluidic Channel for Enhanced Detection of Fluorescence	Huai-Song Wang; Fang-Nan Xiao; Xing-Hua Xia. Nanjing University
P-D-40	DNA 在微纳界面上的定位浓集与芯片电泳分离方法研究	张惠琴; 李敏; 薛玲玉; 吴志勇. 东北大学
P-D-41	微流控芯片双极电极（BPE）系统的建立及电动浓集方法研究	王伟; 韩玉晶; 蔺敏敏; 吴志勇. 东北大学
P-D-42	微型自由流电泳中的微纳流控效应及其应用研究	宋永超; 梅艳芳; 徐瑶; 吴志勇. 东北大学
P-D-43	毛细管内 O/W 和 W/O 型单分散微液滴的制备方法	贺秀娜; 邓真真; 吴志勇. 东北大学
P-D-44	纳米粒子和 DNA 在石英微纳界面上的分子穿孔效应研究	李云云; 牛肖敬; 吴志勇. 东北大学
P-D-45	基于 PDMS 软复制法制备低成本高性能超疏液表面	袁丽芳;张伟基;关钊允;吴天准;汤子康. 中山大学
P-D-46	石英微纳界面上的浓度极化（II 类）行为及其表征	刘世荣;何艳琴;李婷婷;李博;吴志勇. 东北大学
P-D-47	基于微流控系统合成内含物可控编码的多功能聚合物微丝	于跃; 秦建华. 中国科学院大连化学物理研究所
P-D-48	基于介电润湿的数字微流控系统中液滴运动性能研究	周围; 张鹏翼; 李建宜; 渠毓鸿; 张思祥. 河北工业大学
P-D-49	Sheathless hydrodynamic particle focusing design using fluid-particle interaction simulation	Teng Zhou; Yongshun Liu; Yihui Wu; Zhenyu Liu. University of Chinese Academy of Sciences
P-D-50	微通道中液滴形成研究	周围; 李建宜; 李海; 古立锁; 刘幸; 张思祥. 河北工业大学
P-D-51	变构分子信标在电化学生物传感器的运用	蔡智民; 宋彦龄; 林春水; 杨朝勇; 陈曦.厦门大学
P-D-52	高时空鞘流门控芯片研究细胞内钙信号动力学	陈鹏; 冯晓均; 陈冬娟; 郭怡然; 杜伟; 刘笔锋. 华中科技大学
P-D-53	数字化环介导等温扩增在微流控芯片中的应用	陈琛; 尹峰; 冯晓均; 刘笔锋; 华中科技大学
P-D-54	碳纤维微富集/顶空衍生化方法 GC/MS 检测吲哚乙酸	崔美玉; 王娟; 杨翠; 李东浩. 延边大学
P-D-55	基于量子点-水滑石复合纳米材料的化学发光微型流通柱	董世超; 吕超. 北京化工大学
P-D-56	介电电泳 PCR 滑动芯片用于分离和鉴别低浓度微生物	蔡东洋; 杜文斌. 中国人民大学化学系
P-D-57	非标记微流控芯片荧光 DNA 生物传感器研究	范英伟; 王宗文; 郭莹; 杨玮娟; 付凤富. 福州大学
P-D-58	Periodic Mesoporous Organosilica as a Multifunctional Nanodevice for Large-scale Characterization of Membrane Proteins	Jinrui Gan; Jie Zhu; Guoquan Yan; Yun Liu; Pengyuan Yang; Baohong Liu. Fudan University
P-D-59	纳米氧化铜修饰电极的制备及其葡萄糖传感器	高广伟; 周淑娟; 陈锡良; 戈早川; 杨海朋. 深圳大学
P-D-60	基于阵列芯片的秀丽隐杆线虫长期培养：从受精卵到成虫	葛安乐; 赵幸福; 杜 伟; 刘笔锋. 华中科技大学
P-D-61	微流控芯片-激光诱导荧光快速检测 DNA 的研究	郭莹; 王宗文; 范英伟; 杨玮娟; 付凤富.福州大学
P-D-62	气体栓塞用于线虫的鼻尖机械刺激研究	胡 亮; 杜 伟; 冯晓均; 刘志华; 刘笔锋. 华中科技大学
P-D-63	Highly Efficient Cleavage of Protein Corona on Fe_3O_4 Nanoparticles by a Magnetic Tryptic Nanorazor	Zhengyan Hu; Yi Zhang; Liang Zhao; Hongqiang Qin; Ren'an,Wu; Hanfa Zou. China Graduate School of Chinese Academy of Sciences
P-D-64	A fluorescent double-network-structured hybrid nanogel as embeddable nanoglucometer for intracellular glucometry	Yumei Hu; Jiao Fan; Weitai Wu. Xiamen University
P-D-65	Fluorescent-magnetic-biotargeting nanobioprobes for reversible capture and release of circulating tumor cells	Shi-Bo Cheng; Ning-Ning Lu; Yu-Xuan Liu; Qin-Shu Kang; Shan Guo; Min Xie; Wei-Hua Huang. Wuhan University

Poster Section 2 (P-I-46—P-I-93; P-D-66—P-D-128)

May 19th, Sunday 11:00-13:30

Location: Exhibition Hall, Science and Art Center (1st Floor)

No.	Title	Authors
P-I-46	Broadband light harvesting on solar cells using self-assembled dielectric hollow nanostructures	Jun Yin; Jing Li. Xiamen University
P-I-47	Fabrication of 3D hexagonal bottle-like Si/SnO_2 Core/shell Nanorod Arrays as anode material in on chip micro-Lithium-ion-batteries	Chuang Yue; Jing Li; Junyong Kang. Xiamen University
P-I-48	An Integrated Microfluidic Chip for Single Cells Positioning and Interaction Monitoring	Li-Ching Chen; Tsung-Ju Chen; Fan-Gang Tseng. National Tsing Hua University
P-I-49	Stretchable Nanofilter Membrane Using Patterned Array of Vertically Grown Carbon Nanotubes	Hao Wang; Zhuolin Xiang; Chih-Fan Hu; Aakanksha Pant; Giorgia Pastorin; Weileun Fang; Sylvie Alonso; Chengkuo Lee. National University of Singapore
P-I-50	Effect of surface modification of magnetic nanoparticles on synthesis of Fe_3O_4 @ PS microspheres	Yuhao Hong; Shujuan Jiang; Leiji Zhou. Xiamen University
P-I-51	Mixing enhancement by droplet resonance in parallel-plate EWOD	Chiun-Peng Lee; Hsin-Chien Chen; Mei-Feng Lai. National Tsing Hua University
P-I-52	Charged droplet transportation under DC electric fields as a cell carrier	Chiun-Peng Le; Hsien-Chih Chan; Zung-Hang Wei. National Tsing Hua University
P-I-53	An Easy Fabricated Microfluidic Chip for Long Term Cell Culture	Rui Li; Jiandong Xu; Xuefei Lv; Kuiwei Qin; Yulin Deng. Beijing Institute of Technology
P-I-54	High Efficiency Water Purification Through Parallel Nano Desalinator under Electric Field	Chin-Yu lin; Yu-Sheng Huang; Chia-Jung Chang; Wen-Chih Chang; Yu-Lun Chueh;Fan-Gang Tseng. National Tsing Hua University
P-I-55	Label free isolation of sample mixtures containing tumor cells and blood cells using a microfluidic device	Venkata Sudheer Makam; Wang Hao; Chengkuo Lee; Giorgia Pastorin. National University of Singapore
P-I-56	Development of Ice Droplet Collider for Chemical Reaction by Kinetic Energy	Takumi Matsuno; Yutaka Kazoe; Kazuma Mawatari; Takehiko Kitamori. The University of Tokyo
P-I-57	Anomalous liquid property in extended-nano space investigated by streaming potential/current system	Kyojiro Morikawa; Yutaka Kazoe; Kazuma Mawatari; Takehiko Tsukahara; Takehiko Kitamori. The University of Tokyo
P-I-58	In situ monitoring of self-assembly process of polyeletrolytes onto microchannels by pulsed streaming potential	Lei Zhao, Shenghong Yang, Lei Bian, Qiaosheng Pu. Lanzhou University
P-I-59	Evaluation of interactions between proteins and Fe_3O_4 nanoparticles by pulsed streaming potential in microchannels	Shenghong Yang; Lei Zhao; Qiaosheng Pu. Lanzhou University
P-I-60	Nickel-gelated magnetic-field concentrator for magnetic-based microfluidic devic	Fengshan Shen; Je-Kyun Park. Korea Advanced Institute of Science and Technology (KAIST)
P-I-61	High-throughput separation of microbead-conjugated circulating tumor cells using an inertial microfluidic device	Joong Ho Shin, Myung Gwon Lee, Je-Kyun Park. Korea Advanced Institute of Science and Technology (KAIST)
P-I-62	Surface display BEAMing technology for aptamer selection	Yanling Song, CongLi, Weiting Zhang, Zhu Zhi, Chaoyong Yang. Xiamen University
P-I-63	A Microfluidic Process to Produce Micrometer-size Polymeric Particles Utilizing Non-equilibrium Droplets	Tsubasa Ono; Masumi Yamada; Yusuke Suzuki; Tatsuo Taniguchi; Minoru Seki. Chiba University
P-I-64	Light and PH dual-stimuli responsive ion channels with modification of polymer brushes	Yu-Bin Zheng; Sheng-Lin Cai; Shuang Zhao; Jin-Lei Yang; Li-Xiang Zhang; Yao-Qun Li. Xiamen University
P-I-65	Interfacing Electrochromatography in Microchips with Inductively Coupled Plasma Mass Spectrometry for Elemental Speciation	Heyong Cheng; Chao Han; Jinhua Liu; Yuanchao Wang; Zigang Xu. Zhejiang University
P-I-66	Fabrication of detachable hydrogel microplates and its application into NIH/3T3 cell culture	J.H. Choi; G.M. Kim. Kyungpook National University
P-I-67	Research for Bacteria Culture in Droplet	Nobuyuki Hanamori; Katsuhiro Aritome; Yuto Takahata; Ryo Miyake. Hiroshima University
P-I-68	High Throughput Microfluidic Droplet Method for Single Enzyme Molecule Detection	Zhichao Guan, Yuan Zou, Jiangquan Lv, Mingxia Zhang, Zhi Zhu, Chaoyong Yang. Xiamen University
P-I-69	A Novel Method for Fractionation of Loureirin B from Dragon's Blood (Dracaena cochinchinensis (Lour.S.C.Chen) using macroporous resin & HPLC	Murtaza Hasan; ShiyingMeng; ZhongqiuTeng; Javed Iqbal; Umer Awan; Rongji Dai; Yulin Deng. Beijing Institute of Technology

P-I-70	Perfusion Culture Chip Providing Different Strengths of Shear Stress for Analysis of Vascular Endothelial Function	Koji Hattori; Hideki Kobayashi; Shinji Sugiura; Yoichi Munehira; Toshiyuki Kanamori. National Institute of Advanced Industrial Science and Technology
P-I-71	Determination of Diffusivity by Liquid-Liquid Extraction in Microfluidic Droplet System	Chong-Yi Ho; Hsiang-Yu Wang. National Cheng Kung University
P-I-72	Enhanced luminol electrochemiluminescence triggered by an electrode functionalized with dendrimers modified with titanate nanotubes	LingShan Gong; Guifang Xu; Yanyu Lin; Ting Yang; Yuejin Tong; Hong Dai; Guonan Chen. Fuzhou University
P-I-73	Electrochemiluminescence of luminol at the titanate nanotubes modified glassy carbon electrode	Guifang Xu; Lingshan Gong; Xiaoxue Zeng; Shuangyan Lu; Yanyu Lin; Qingping Wang; Yuejin Tong; Hong Dai; Guonan Chen. Fuzhou University
P-I-74	Flow-through electroporation for enhancing the fluorescence detection of microalgae cellular lipids	Yi-Hsiang Hsu; Hsiang-Yu Wang. National Cheng Kung University
P-I-75	Folic acid modification on nanopattened PDMS for microfluidic cytology	Yuanyuan Hu; Binjie Ma; Yingying Zhang; Min Wang. Zhejiang University
P-I-76	Interaction of -glucosidase and human serum albumin with liposomes using capillary electrophoresis	Jing An; Yinghui Hu; Rongji Dai; Fang Lv1; Yulin Deng. Beijing Institute of Technology
P-I-77	An improved synthesis and mechanism study of magnetic Fe_3O_4@PGMA microspheres	Shujuan Jiang; Yuhao Hong; Leiji Zhou. Xiamen University
P-I-78	The thermosensitivity and separation efficiency of steroids on silica bead grafted by varied ratios of poly (N-isopropylacrylamide)	Yanli Liang; Zongjian Liu; Fangfang Geng; Weiwei Meng; Fang Lv; Rongji Dai1; Yulin Deng. Beijing Institute of Technology
P-I-79	New Approach for Rapid Enumeration of Viral Nanoparticles	Ling Ma, Shaobin Zhu, and Xiaomei Yan. Xiamen University
P-I-80	Determination of biogenic amines by low-cost chip electrophoresis	Yu Chen; Zhaoyan Wang; Xuan Wei; Qiaosheng Pu. Lanzhou University
P-I-81	Efficient determination of monosaccharides and oligosaccharidesusing low-cost microchip electrophoresis	Jinxiu Guo; Qiaosheng Pu. Lanzhou University
P-I-82	Site-Specific Differentiation of Neural Stem Cell Regulated by Micropatterned Multicomponent Interfaces	Xu Zhen; Peng Shi. City University of Hong Kong
P-I-83	Development of High-Precision Nanopatterned Nanochannels for Single Molecule Analysis	Yan Xu; Nobuhiro Matsumoto. Osaka Prefecture University
P-I-84	Patterning fibroblast cells by ACDEP for electrotaxis observation in microfluidic devices	Shang-Yi Yang; Hsiang-Yu Wang. National Cheng Kung University
P-I-85	Nanoliter-Scale Screening of Protein Crystallization with Sequential Operation Droplet Array	Lina Zhu; Ying Zhu; Qun Fang. Zhejiang University
P-I-86	Formation of microstructure on PDMS surface by plasma irradiation	Masahito Ban; Hayato Ota. Nippon Institute of Technology
P-I-87	Microfluidic biosynthesis of Au-Ag bimetallic nanoparticles in a microreactor: green bioreduction with Cacumen Platycladi extract	Hongyu Liu; Jiale Huang; Qingbiao Li. Xiamen University
P-I-88	Investigate the effects of different carbon sources on the electricity generation ability of microorganism using membraneless microfluidic microbial fuel cell	Cheng-Hsun Lin; Hsiang-Yu Wang. National Cheng Kung University
P-I-89	3D co-culture system using electrodeposited alginate hydrogel	Fumisato Ozawa; Kosuke Ino; Toshiharu Arai; Hitoshi Shiku; Tomokazu Matsue. Tohoku University
P-I-90	Development of a micromachined ultrasonic scalpel for minimally invasive surgery	T.T. Wang; J.S Xu; J.Y. Wang; Z.X. Lin; L.M. Zou; H. Yang; H. Guo. Xiamen University
P-I-91	Fabrication of capillary-embedding cell spheroids by employing microfabricated chambers and sacrificial fibers	Kenta Yamakoshi; Masumi Yamada; and Minoru Seki. Chiba University
P-I-92	Carbon Nanotubes Driven in Microfuildic Channel Using Surface Acoustic Waves	Qian Zeng; Hao Wang. National Center for Nanoscience and Technology
P-I-93	Ordered mesoporous carbon-based solid phase extraction combined with capillary electrophoresis for the separation and determination of tetracycline residues in surface water	Zhu Hualing; Su Jie; Wang Weiping. Zhejiang Normal University
P-D-66	纸芯片上显色法检测乳酸脱氢酶和碱性磷酸酶	张慧妍; 张珍; 吉邢虎; 何治柯. 武汉大学
P-D-67	基于表面增强拉曼散射体外传感：单细胞水平上凋亡细胞的简便、非标记检测	姜享旭; 姜自云; 何耀. 苏州大学
P-D-68	基于表面等离子体共振成像的高通量、免标记活细胞在线分析	李少鹏; 宋炉胜; 朱劲松. 国家纳米科学中心
P-D-69	基于三维水力聚焦的微混合器用于蛋白质折叠动力学研究	李颖; 徐友志; 刘超; 冯晓均; 刘笔锋. 华中科技大学

P-D-70	基于微纳材料构建新型无酶化放大显色生物分析	李伟; 羌维兵; 李洁; 李慧; 赵亚菊; 许丹科. 南京大学
P-D-71	基于纳米银修饰的微阵列芯片荧光分析方法	李慧; 许丹科. 南京大学
P-D-72	Constructing artificial cell membrane supported on microfluidic sensing chip for drug screening	Zhen Li; Jian-min Wu. Zhejiang University
P-D-73	Imprinted silica membrane for protein recognition	Zhexue Lu; Chang Han; Hanlan Liu. Huazhong Agricultural University
P-D-74	基于 RGD 短肽修饰的水相合成近红外量子点在活体肿瘤主动靶向上的应用研究	陆益梅; 钟旖菱; 汪洁; 苏媛媛; 彭飞; 周炎烽; 姜享旭; 何耀. 苏州大学
P-D-75	Live Cell Refractometry based on Non-SPR Nanoparticle Sensor	Yong Luo; Chang Liu. Dalian University of Technology
P-D-76	基于硅纳米线的药物载体进行癌症治疗	彭飞; 苏媛媛; 何耀. 苏州大学
P-D-77	G-Quadruplex DNAzyme-based Chemiluminescence Microfluidic Biosensor for Determination of Mercury Ion	Li-Fang Song; Ya-LingYu; Hong Shen. Zhejiang University
P-D-78	Microfluidic bioassay for assessment of endogenous antioxidant's scavenging capacity against hypochlorous acid	Yaling Yu; Lifang Song; Hong Shen. Zhejiang University
P-D-79	反相微乳液法制备不同磁响应强度的(EDTA/Fe_3O_4)@SiO_2荧光磁性复合纳米球	李静蓉; 刘兴会; 徐宏焱; 宋尔群. 西南大学
P-D-80	层层自组装制备磁性编码的荧光纳米复合材料	徐弘焱; 刘兴会; 李静蓉; 宋尔群. 西南大学
P-D-81	多色量子点标记阵列可视化检测牛奶中多种抗生素残留	王云云; 程丹; 曾琼英; 宋尔群. 西南大学
P-D-82	基于多孔硅的血清肽谱信息储存及获取	谈洁; 邬建敏. 浙江大学
P-D-83	Microscale Profiling Analysis of Phosphorylated Peptides from Cancer Cells using Microbullet Column and Droplet Microfluidic Technologies	Xin Wang; Menglei Niu; Bo Zhang. Xiamen University
P-D-84	基于电趋向性同步化分选不同时期线虫的微流控新方法	王喜先; 杜 伟; 葛安乐; 王珊珊; 冯晓均; 刘笔锋. 华中科技大学
P-D-85	Facile Synthesis of Novel Magnetic Silica Nanoparicles Functionalized with Layer-by-layer Detonation Nanodiamonds for Pretreatment of Low Concentration peptides/proteins in Secretome	Wei Liming; Zhao Chao; Shen Huali; Lu Haojie; Yang Pengyuan. Fudan University
P-D-86	基于微流控细胞密度调控平台的药物筛选新技术研究	吴静; 陈秋水; 刘武; 林金明. 清华大学
P-D-87	基于旋转型滑移芯片的双浓度梯度研究	鄢兴华; 冯晓均; 易晨; 张决成; 刘笔锋. 华中科技大学
P-D-88	Development of a Droplet-based Interface for Two Dimensional Micro Separations	Linquan Ye; Bo Zhang. Xiamen University
P-D-89	One-step patterning of hollow microstructures in paper by laser cutting to create microfluidic analytical devices	Yun Zhang; Yuan-Zhi Liang; Shang-Wang Le; Dun-Nan Li; Jin-Fang Nie. Guilin University of Technology
P-D-90	细菌检测芯片的研究	张从晓;吕雪飞;庆宏;耿利娜;邓玉林.北京理工大学
P-D-91	Microfluidic beads-based multienzyme-nanoparticle amplification for detection of circulating tumor cells in the blood using quantum dots labels	He Zhang; Xin Fu; Jiayi Hu; Zhenjun Zhu. School of chemistry and chemical engineering
P-D-92	Tumor microenvironment based on microfluidic droplet technique	Xulang Zhang; Fanghua Min; Bingcheng Lin; Yuguang Du. Chinese Academy of Sciences;
P-D-93	基于核酸信号放大检测的微芯片电泳测定血清中的 CEA	潘莉; 石敏; 文长春; 陈佳; 赵书林.广西师范大学
P-D-94	基于核酸适体结构转换微芯片电泳检测 IFN-γ	潘莉; 石敏; 文长春; 陈佳; 赵书林.广西师范大学
P-D-95	用微波法一步合成兼具优良水溶性、强荧光、优异光稳定性和 pH 稳定性的硅量子点	钟旖菱; 何耀. 苏州大学
P-D-96	α-$Ni(OH)_2$无酶葡萄糖传感器研究	周淑娟; 王晶; 邢岩; 杨海朋. 深圳大学
P-D-97	微流控芯片电泳高效分离石榴皮中多糖的新方法	常莉婷; 周鑫玉; 张艳玲; 刘超; 吴秀霞; 张静; 张志琪; 党福全. 陕西师范大学
P-D-98	聚苯乙烯微流控芯片上集成化两相液滴安培检测系统的研究	胡贤巧; 林星宇; 何巧红; 陈恒武. 浙江大学
P-D-99	Fabrication of Microfluidic Paper-Based Analytical Device via Alkylsilane Self-assembling and Corona-Plasma Treatment	Yan Jiang; Qiaohong He; Hengwu Chen. Zhejiang University
P-D-100	Determination of trace crystal violet by a microdroplet sensor based on surface-enhanced Raman scattering (SERS)	Bingxiang Liu; Ting Wu; Haiting Wang; Xiaohui Yang; Sanjun Zhang; Yufeng Yuan; Yiping Du. East China University of Science and Technology
P-D-101	基于疏水蛋白的聚二甲基硅氧烷表面改性方法研究	刘超; 张艳玲; 吴秀霞; 常莉婷; 张静; 张志琪; 党福全. 陕西师范大学

P-D-102	基于滤纸固定酶并集成试剂储存的流动注射生物传感器	王伟; 高金荣; 顾赛喜. 盐城工学院化学与生物工程学院
P-D-103	ICR 小鼠骨髓间充质干细胞在微流控芯片上的培养	王桐; 陈涛; 左铁钏. 北京工业大学
P-D-104	微流控芯片产生渐变浓度梯度研究神经元梯度响应	肖荣荣; 曾文娟; 王磊; 谢敏; 黄卫华. 武汉大学
P-D-105	双亲性寡肽-甲基纤维素混合动态涂层改性方法研究	张艳玲; 刘超; 吴秀霞; 常莉婷; 张静; 张志琪; 党福全.陕西师范大学
P-D-106	集成核酸提取实时荧光 PCR 微流控芯片研究	赵树弥; 朱灵; 李阳; 朱灿灿; 张龙; 刘勇. 中国科学院安徽光学精密机械研究所
P-D-107	Counting free acidic and alkaline residues of protein via moving reaction boundary titration in chip electrophoresis	Hou-yu Wang; Si Li; Yun-yun Tang; Jing-yu Dong; Liu-yin Fan; Cheng-xi Cao. Shanghai Jiao Tong University
P-D-108	A simple chip free-flow electrophoresis for monosaccharide sensing via supermolecule interaction of quencher and fluorescent dye	Xiao-Yang Yin; Jing-Yu Dong; Hou-Yu Wang; Si Li1; Liu-Yin Fan; Cheng-Xi Cao. Shanghai Jiao Tong University,
P-D-109	Comparison between two isotachophoretic methods based on moving boundary system and reaction boundary	Wei Zhang; Cheng-Xi Cao; Liu-Yin Fan. Shanghai Jiao Tong University
P-D-110	A model of double moving redox boundary for electrophoresis titration analysis of ascorbic acid	Qian Liu; Hai-Yang Xie; Liang-Fei OuYang; Liu-Yin Fan; Heng Liang; Cheng-Xi Cao. Xi'an Jiao Tong University
P-D-111	Study on stability mechanism of immobilized pH gradient in isoelectric focusing via svensson-tiselius differential equation and moving reaction boundary	Chen-Gang Guo; Si Li; Cheng-Xi Cao. Shanghai Jiao Tong University
P-D-112	Binding Study of Lysozyme with Cu(II) by Chemiluminescence Analysis	Jiangman Liu; Minxia Shen; Zhenghua Song. Northwest University
P-D-113	Biomimetic Antireflective Silicon Nanocones Array for Small Molecules Analysis	Yandong Wang; Zoufang Zeng; Nan Lu. Jilin University
P-D-114	Real-time quantitative detection bacteria by a multiplex microfluidic electrochemical loop mediated isothermal amplification chip	Juan Luo; Xueen Fang; Daixing Ye; Huixiang Li; Hui Chen; Jilie Kong. Fudan University
P-D-115	A high efficiency microfluidic-based photocatalytic microreactor using electrospun nanofibrous TiO_2 as photocatalyst	Zhaoxu Meng; Xu Zhang; Jianhua Qin. Dalian Institute of Chemical Physics
P-D-116	Imaging frozen microfluidic channel by MALDI-TOF-MS	Lei Nie; Guobin Xu; Xiaoyan Wang; Yun Liu; Pengyuan Yang. Fudan University
P-D-117	铅笔芯修饰电极微流控芯片检测羟基自由基	欧阳珺; 夏兴华. 南京大学
P-D-118	Miniaturized Optical Ammonia-nitrogen Sensor System with a Program-controlled Automatic Sampling Unit	Zhi-mei Qi; Dan-feng Lu; Kun Wang; Yang Li. Chinese Academy of Sciences
P-D-119	5-磺基水杨酸增敏微流动化学发光分析次氯酸钠的研究	余雅玲; 宋丽芳; 沈宏. 浙江大学
P-D-120	Luminescence Behavior Study of Luminol–AuNPs System with Bovine Serum Albumin	Xijuan Tan; Donghua Chen; Jie Guo; Jiangman Liu; Zhenghua Song. Northwest University
P-D-121	基于分子信标信号衰弱的 SERS 检测策略以进行高灵敏性，重现性和多元性的靶 DNA 检测	魏新盼; 苏邵; 何耀. 苏州大学
P-D-122	基于脱氧核酶电致化学发光生物传感器及铅离子检测	吴燕芳; 蔡智民; 黄艺顺; 杨朝勇; 陈曦.厦门大学
P-D-123	Variations in proteolytic digestion compromise the accuracy of large-scale proteome quantification	Yue Wu; Jing Liu; Yi Zhang; Zheyi Liu; Fangjun Wang; Hanfa Zou. University of Chinese Academy of Sciences
P-D-124	Droplet-Interfaced Liquid Chromatography – Matrix Assisted Laser Desorption Ionisation Mass Spectrometry Hyphenation	Zhiliang Xiao; Xue Wang; Bo Zhang. Xiamen University
P-D-125	A Novel Nonenzymatic Sensor based on CuO Nanoneedle/Graphene/Carbon Nanofiber Modified Electrode for Probing Glucose in Saliva	Daixin Ye; Guohai Liang; Juan Luo; Huixiang Li; Song Zhang; Hui Chen; Jilie Kong. Fudan University
P-D-126	Determination of picogram levels Al(III) by flow-injection chemiluminescence analysis	Judong You; Jiajia Wang; Zhenghua Song. Northwest University
P-D-127	HPLC-MS 法测定环黄芪醇大鼠血药浓度及其药代动力学研究	魏宝红; 张建宝; 曹艳玲; 叶静; 杨晓燕; 孙桂霞;张玉杰. 北京中医药大学
P-D-128	Monitoring of cell adhesion on ITO microelectrodes array using electric cell-substrate impedance sensing	Fan Zhang; Ling Li; Hui Zhao; Pingang He; Yuzhi Fang. East China Normal University

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- To be eligible for our prize draw you must have registered for ISMM2013 or National MicroTAS. You will receive a drawing ticket with your name on it.
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- The lucky ticket will be drawn and the winner will be announced during the Closing and Award Ceremony
- **You must be at the event in person. You must also be present to accept the prize**.
- If a name is drawn of a person who is not in attendance at the time of the prize giving, an alternative will be pick and repeated until an eligible winner is selected.
- One prize will be awarded. The prize will consist of 1 x iPad Mini 16gb model.
- No purchase necessary. This award is non-transferable and there is no cash alternative.

- **CHEMINAS Poster Award**

The ISMM Conference announces the Young Researcher Poster Award Competition sponsored by The Society for Chemistry and Micro-Nano Systems (CHEMINAS) to recognize excellence among its participants. A select group of poster judges will select, on a daily basis, the best presented posters from the poster session. There will be 3 poster awards, with a prize of **20000** JPY EACH. The winners will be announced during the Award Ceremonyof the Conference.

- **Springer Scholar Award**

The ISMM and National MicroTAS Conference announce the Springer Scholar Award Competition sponsored by Springer and Organizing Committeeof ISMM and National MicroTAS Conference to recognize excellence among its participants.A group of poster judges will select, on a daily basis, the best presented posters from the poster session. There will be **1** Springer Gold Scholar Award (**200**-Euro book voucher plus **500** RMB and a certificate),**4** Springer Silver Sholar Awards (**100** Euro book-voucher plus **400** RMB and a certificate), and **10** SpringerBronze Scholar Awards (**50** Euro book-voucher plus **300** RMB and a certificate). The winners will be announced during the Award Ceremonyof the Conference.

- **Fang Zhaolun Best Poster Award**

The National MicroTAS Conference announces the Fang Zhaolun Best Poster Award Competition sponsored by National MicroTAS Conference to recognize excellence among its participants. A group of poster judges will select, on a daily basis, the best presented posters from the poster session. There will be **3** awards with **1000** RMB and a certificate for each awardee. The winners will be announced during the Award Ceremony of the Conference.

Conference Venue

The Conference will be held in the Science and Art Center located next to the Furong Lake within the campus of Xiamen University. Opening ceremony, plenary lectures, and closing ceremony will be held in the Concert Hall on the 2nd floor. The poster sessions will be arranged in the Exhibition Hall on the 1st floor. Please turn off your mobile phone or switch to vibration or quiet mode in the meeting room.

Secretariat Office

The Secretariat Office is located in Room No. 02 on the first floor of the Science and Art Center during the conference hours. At off-conference hours, please contact the organizing committee office at Yifu Hotel Room 201, Tel: 0592-2087988 Ext. Room No. 201. For those participants staying at Yifu or Keli Hotel, you could directly dial 2201.

Internet Connection

Free Wireless LAN will be available in the Science and Art Center. Please login to the network named “keyi” with the password “aabbccddee”.

Name Badge

Each participant will receive upon registration a Conference Name Badge which should be worn at all the scientific and social programs. For identification, the name badge will be in different color: blue for participants, orange for the local organizing committee, red for student volunteers.

Smoking

Smoking is forbidden in the public place in the city of Xiamen.

Insurance

No responsibility can be assured for any kind of personal accidents, sickness, theft, or property damage suffered by conference participants. Participants are advised to arrange whatever insurance they consider it necessary.

Currency and credit cards

The unit of Chinese currency is Yuan (or RMB/CNY). The exchange rate is subject to market fluctuations. One US dollar is equivalent to approximately 6.16 RMB as of May 3, 2013. Major credit cards including VISA, MasterCard, and American Express are accepted at some hotels, department stores and restaurants.

Tipping

Tipping is not a part of Chinese custom. No tipping is expected unless you are provided with extra service. It is not necessary to tip a taxi driver unless he/she assists with luggage or provides extra service.

Electricity

The standard domestic power supply in China is 220 V AC at 50 Hz. The standard  sockets are two parallel lines and three lines as shown on the right photo.

Time and Business hours

China is eight hours ahead of Greenwich Meantime. Typical business hours in government and private offices are from 8:00 to 17:00 and closed on Saturday & Sunday. Most shops and banks are open from 9:00 to 19:00 or later, and open seven days a week.

Weather

Xiamen is a subtropical coastal city. The weather in Xiamen in the middle of May is usually sunny to cloudy and the temperature is between 20 to 27 °C. The average monthly precipitation is 162mm. You are recommended to have summer dress and bring umbrella with you. Swimming in the sea can be very risky, especially when the tide is ebbing. Please do not swim in the sea.

Transportation

Going from one place to another within the city is fairly easy with over 50 public transport routes with a fare of 1~2 yuan or by taxis at a reasonable fare.

The taxi fee from airport to Xiamen University is ca. 42 yuan in the daytime and ca. 55 yuan after 11:00 pm. For participants arriving at the train station, you can take bus route 1 or 21 to Xiamen University (last stop) and the taxi fee is around 20 yuan.

Volunteers will be arranged at the airport guiding you to Xiamen University or the hotels.

Taxi notes

Please take me to the Swiss International Hotel Xiamen.
请带我去瑞颐大酒店(请走成功大道)。

Please take me to the Tegoo Hotel.
请带我去泰谷酒店(请走成功大道)。

Please take me to the Millennium Harbourview Hotel Xiamen.
请带我去海景千禧大酒店(请走成功大道)。

Please take me to the GreenTree Inn.
请带我去格林豪泰酒店(请走成功大道)。

Please take me to the Yifu Hotel of Xiamen University.
请带我去厦门大学逸夫楼(请走成功大道)。

Please take me to the Keli Hotel of Xiamen University.
请带我去厦门大学克立楼(请走成功大道)。

Please take me to Science and Art Center of Xiamen University.
请带我去厦门大学科学艺术中心(请走成功大道)。

Sentences may useful for foreign participants

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请帮忙打扫房间。

Please help me solve the problem of Internet access in my room.
我房间的网络不通，请帮忙解决。

Please tell me where I can take a taxi.
请问哪里可以打的？

Please take me to Zhongshan Road (downtown area).
请带我去中山路。

Please tell me where I can find a toilet.
请问哪里有洗手间？

Please tell me where I can make a phone call.
请问哪里可以打电话？

Please tell me where I can find a supermarket.
请问哪里有大型超市？

Please tell me where I can exchange currency.
请问哪里可以兑换外币？

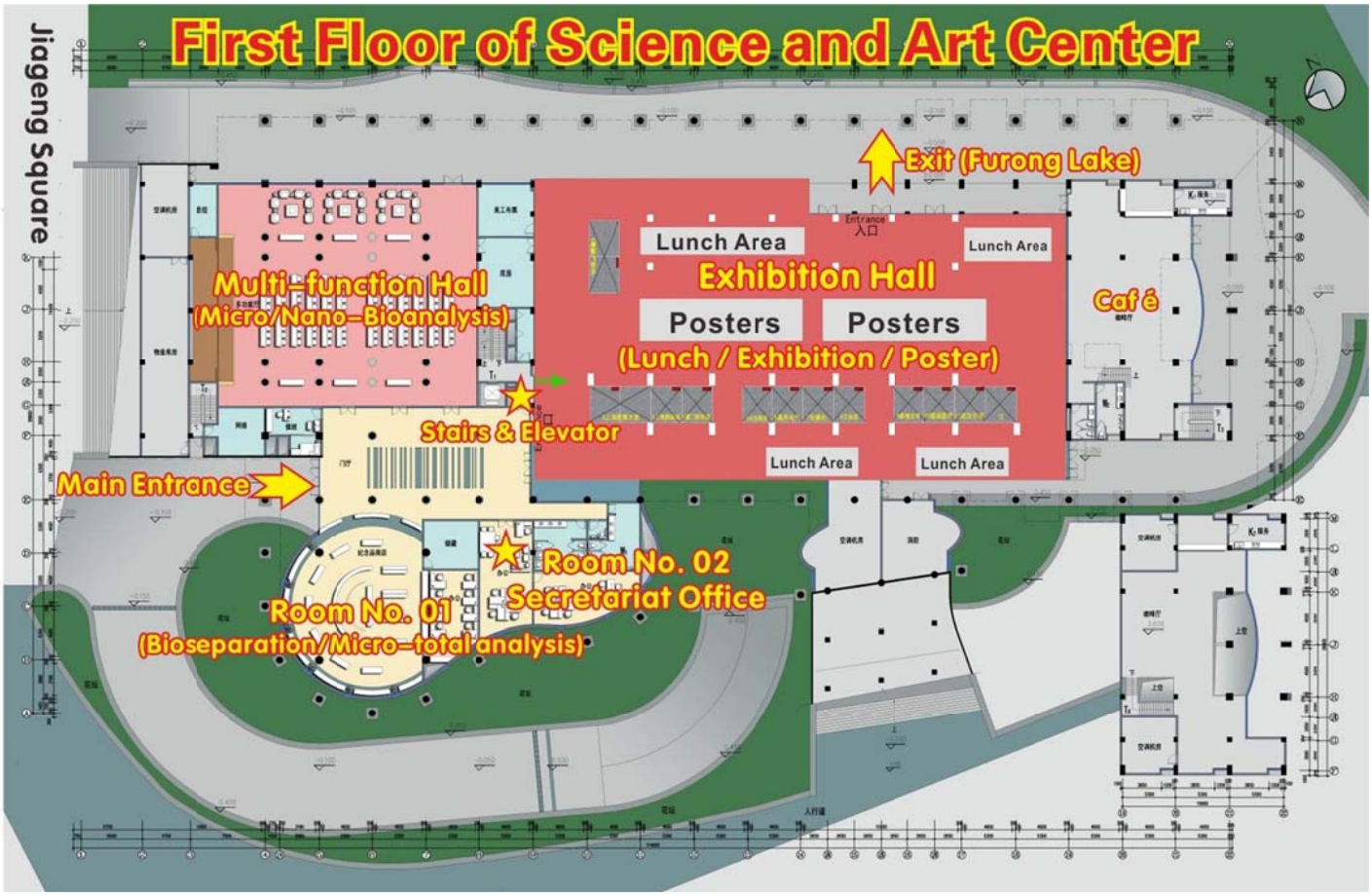
Please tell me where the post office is.
请问邮局在哪里？

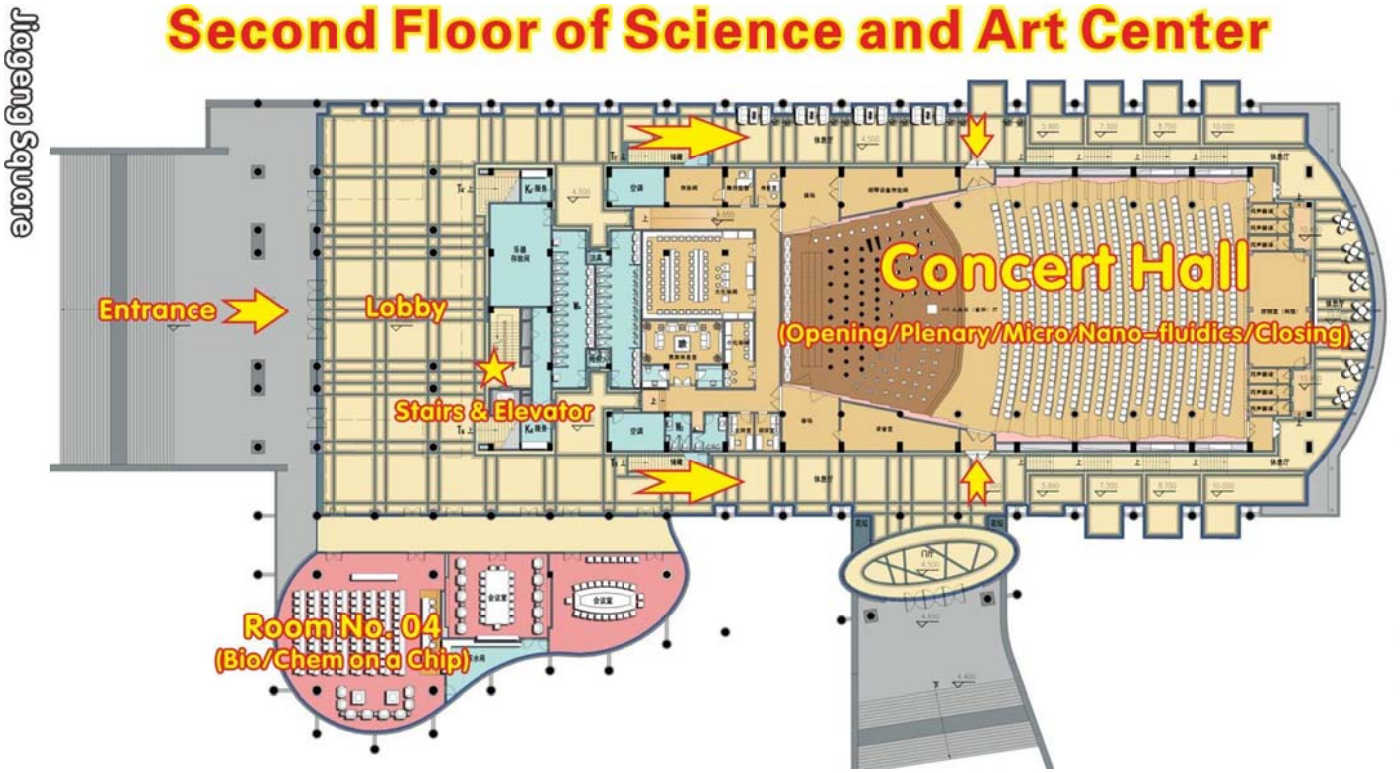
Please help me find someone who could speak English.
请帮我找一位会说英语的人。

Maps


Gulangyu Island
Zhongshan Road
Swiss International Hotel Xiamen
Tegoo Hotel
Millennium Harbourview Hotel Xiamen
Hilford Hotel
GreenTree Inn
Nanputuo Temple
Xiamen University
N
400m
Southwest of Xiamen Island


XMU Hospital
Qunxian Gate
Chemistry Building
Danan Gate
Jianwen Hotel
Yifu Hotel
Keli Hotel
Science and Art Center
Baicheng Gate
W
N
S
E
100m
Map of Xiamen University


First Floor of Science and Art Center
Jiageng Square
Exit (Furong Lake)
Lunch Area
Lunch Area
Exhibition Hall
Multi-function Hall
(Micro/Nano-Bioanalysis)
Posters
Posters
(Lunch / Exhibition / Poster)
Café
Stairs & Elevator
Lunch Area
Lunch Area
Main Entrance
Room No. 02
Secretariat Office
Room No. 01
(Bioseparation/Micro-total analysis)


Second Floor of Science and Art Center
Jiageng Square
Concert Hall
(Opening/Plenary/Micro/Nano-fluidics/Closing)
Entrance
Lobby
Stairs & Elevator
Room No. 04
(Bio/Chem on a Chip)

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博

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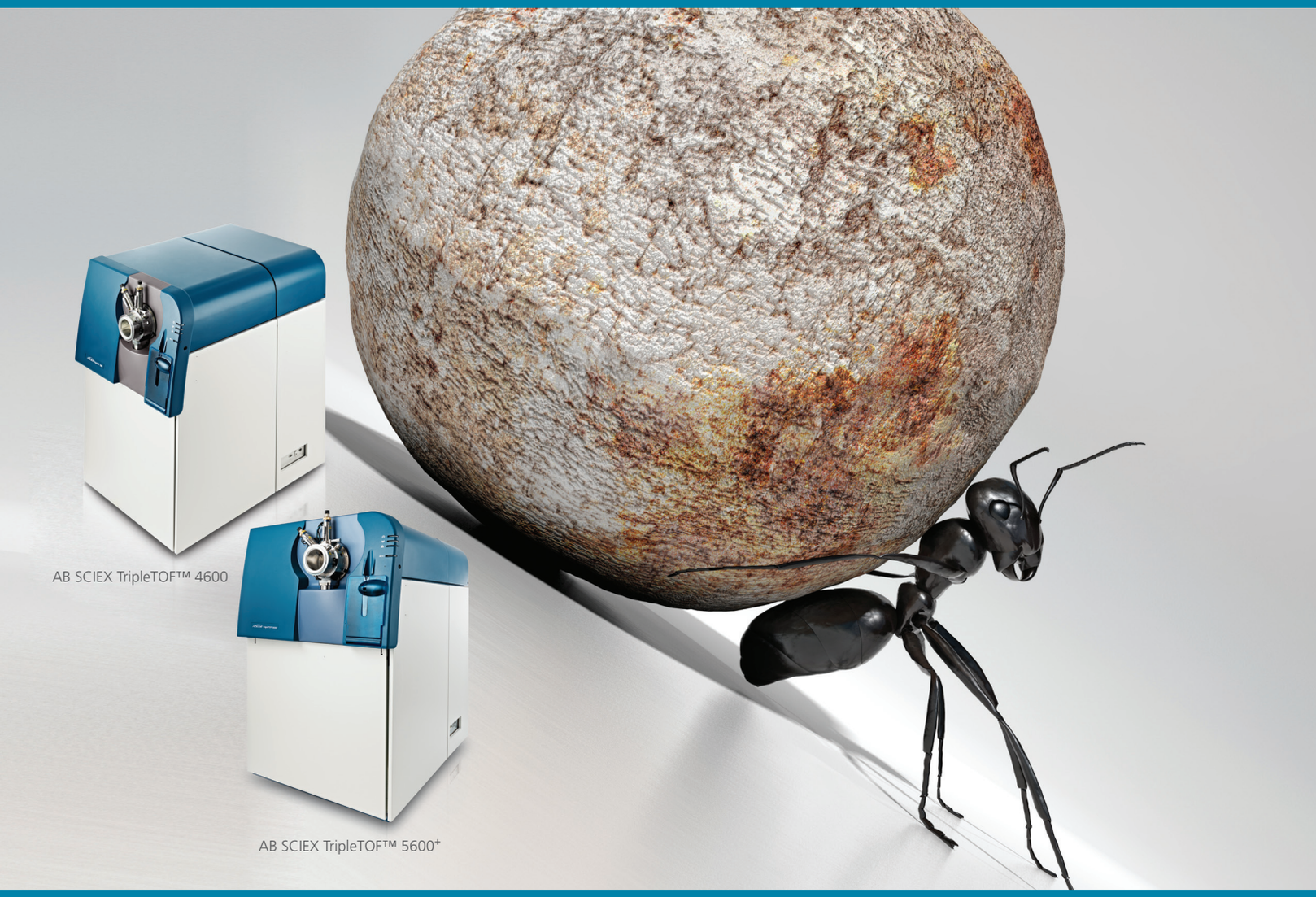

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