



Program of CSMRM & OCSMRM Joint Meeting 2012 and ISMRM Int'l Outreach Workshop

中外华人医学磁共振2012年会暨国际医学磁共振学会论坛课程表

Xiamen, China 中国厦门
2012.12.14—16



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亲爱的各位代表:

非常高兴您能来到厦门参加“中外华人医学磁共振2012年会暨国际医学磁共振学会论坛”，本次会议的主题是“同筑华夏，共振核磁”，希望通过此次会议搭建起国内与海外，磁共振影像应用与技术研发之间相互交叉融合的平台，为我国的医学磁共振事业添砖加瓦。

我们仅代表大会主席、学术委员会和组织委员会祝愿您在厦门学有所成，度过愉快的三天。

大会主席: 苑纯, 冯晓源

学术委员会 (按姓氏笔画排序):

马林, 王乙, 王光彬, 王霄英, 包尚联, 卢光明, 田捷, 冯逢, 伍建林, 张兆琪, 刘士远, 李坤成, 李德彪, 向清三, 许建荣, 杜一平, 宋无名, 吴学奎, 杨一鸿, 陈卫, 陈群, 陈敏, 陈志宏, 张敏鸣, 陆建平, 林庆波, 金征宇, 周诚, 周晓洪, 卓彦, 钟建辉, 胡小平, 赵世华, 赵斌, 段青, 贾文霄, 高家红, 高培毅, 梁长虹, 梁志培, 梁碧玲, 龚启勇, 彭芸, 滕皋军

组织委员会:

卢光明, 陈敏, 张宗军, 周晓洪, 杨天和, 庄雄杰, 李睿, 赵锡海, 郭华, 丁海艳

组织委员会秘书:

齐颖, 应敏, 周丹

*在此特别感谢向清三教授为本次会议总结中文主题

Dear Delegates,

Welcome to Xiamen, China attending “CSMRM & OCSMRM Joint Meeting 2012 and ISMRM Int'l Outreach Workshop”. The theme of this meeting is Global Gathering of Magnetic Resonance Scientists and Physicians in China. Our mission is to use this platform for domestic and overseas researchers to enhance communication and collaboration in clinical application and technical development in the field of magnetic resonance in medicine.

On behalf of the Chairman, Academic Committee, and Executive Committee, we wish you a great stay in Xiamen.

Chairman: Chun Yuan, Xiaoyuan Feng

Academic Committee:

Lin Ma, Yi Wang, Guangbin Wang, Xiaoying Wang, Shanglian Bao, Guangming Lu, Jie Tian, Feng Feng, Jianlin Wu, Zhaoqi Zhang, Shiyuan Liu, Kuncheng Li, Debiao Li, Qing-San Xiang, Jianrong Xu, Yiping Du, Allen Song, Ed Wu, Yihong Yang, Wei Chen, Qun Chen, Min Chen, Zhihong Chen, Minming Zhang, Jianping Lu, Ching-Po Lin, Zhengyu Jin, Cheng Zhou, Xiaohong Joe Zhou, Yan Zhuo, Jianhui Zhong, Xiaoping Hu, Shihua Zhao, Bin Zhao, Qing Duan, Wenxiao Jia, Jiahong Gao, Peiyi Gao, Changhong Liang, Zhipei Liang, Biling Liang, Qiyong Gong, Yun Peng, Gaojun Teng

Executive Committee:

Guangming Lu, Min Chen, Zongjun Zhang, Xiaohong Joe Zhou, Tianhe Yang, Xiongjie Zhuang, Rui Li, Xihai Zhao, Hua Guo, Haiyan Ding

Secretary of Executive Committee:

Ying Qi, Ming Ying, Dan Zhou





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ISMRM Int'l Outreach Workshop - Dec. 14 Friday			Location: Main Venue
8:45-9:00	Welcome Address for ISMRM Workshop		Moderators: Xiaohong Joe Zhou, Guangming Lu
Advances in Diffusion Imaging - Morning Session			Moderators: Xiaohong Joe Zhou, Guangming Lu
9:00-9:45	Emerging clinical applications of diffusion imaging	Alberto Bizzi	Istituto Clinico Humanitas IRCCS, Milan, Italy
9:45-10:30	Novel acquisition strategies for diffusion imaging	Roland Bammer	Stanford University, USA
10:30-10:50	Tea Break		
10:50-11:35	The architecture of the human connectome	Van Wedeen	Harvard University, USA
11:35-12:20	From q-space diffusion imaging to double-PFG MRI	Yoram Cohen	Tel-Aviv University, Israel
12:20-14:00	Lunch		
Advances in Diffusion Imaging - Afternoon Session 1			Moderators: Jianhui Zhong and Qiyong Gong
14:00-14:45	Diffusion imaging for monitoring cancer therapy	Craig Galban	University of Michigan, USA
14:45-15:30	Clinical body DWI	Dow-Mu Kuh	The Royal Marsden Hospital, UK
15:30-15:50	Tea Break		
Advances in Diffusion Imaging - Afternoon Session 2			Moderators: Xiaoping Hu and Min Chen
15:50-16:35	Diffusion MRI: What have we learned from animal models?	Victor S-K Song	Washington University, USA
16:35-17:20	Highlights of DWI/DTI research in China	Domestic Researchers	
18:00-20:00	Dinner – Sponsored by Siemens		
			Location: Le Méridien, Xiamen

CSMRM & OCSMRM Joint Meeting - Dec. 15 Saturday			Location: Main Venue
8:30-9:00	Opening Ceremony and Welcome Address		Moderator: Chun Yuan
Funding and Opportunities in Medical Imaging Session			Moderators: Chun Yuan, Guangming Lu
9:00-9:15	Funding and international cooperation opportunities for medical imaging: perspective from Ministry of Science and Technology, China	Zhaofeng Zhang	Director, Social Development Division, The Ministry of Science and Technology of the People's Republic of China
9:15-9:30	Funding and international cooperation opportunities for medical imaging: perspective from National Natural Science Foundation, China	Yuhua Peng	Director, Medical Sciences Division, National Natural Science Foundation of China
9:30-9:45	Funding and international cooperation opportunities for medical imaging: perspective from National Institute of Health, USA	Roderic Pettigrew	Director, National Institute of Biomedical Imaging and Bioengineering, National Institute of Health, USA
9:45-10:00	Funding and international cooperation opportunities for medical imaging: perspective from Europe Union	Mat Daeman	Professor, University of Amsterdam, Netherlands
10:00-10:30	Tea Break – New Technology Poster Session		

New Technology Session			Moderators: Yiping Du, Xiaohong Joe Zhou
10:30-10:45	Initial study on the safety and effectivity of MR guided focus ultrasound in symptomatic uterine fibroids treatment	Zhengyu Jin	Peking Union Medical College Hospital
10:45-11:00	Direct detection of action potential with MR	Xiaoping Hu	Georgia Tech and Emory University, USA
11:00-11:15	Recent development on imaging technology for high-resolution MRI	Allen Song	Duke University, USA
11:15-11:30	High resolution MRS methods and applications for inhomogeneous biological tissues	Zhong Chen	Xiamen University
11:30-11:45	Human 7T MRI at CAS: techniques and applications	Jing Chen	Institute of Biophysics of Chinese Academy of Sciences
11:45-12:00	Compare short-time-scale and long-time-scale ³ He diffusion in Patients with COPD	Chengbo Wang	University of Virginia, USA
12:00-12:10	Fast variable density spiral imaging using Bregmanized CORNOL reconstruction	Sheng Fang	Tsinghua University
12:10-12:20	A generic method to improve GRAPPA reconstruction	Yu Ding	The Ohio State University, USA
12:30-13:30	Lunch		Location: Cafeteria
Cardiovascular Imaging Session			Moderators: Debiao Li, Kuncheng Li
13:30-13:45	Delayed enhancement MRI in myocardial diseases	Zhaoqi Zhang	Beijing An Zhen Hospital
13:45-14:00	Coronary artery and DorsalisPedis artery- The most difficult one and the distal one of MRA at 3Tscanner	Ming-Ting Wu	Kaohsiung Veterans General Hospital, Taiwan
14:00-14:15	Clinical applications, research Trials, and outlook of Cardiac MRI in the United States	Raymond Kwong	Brigham and Women's Hospital, USA
14:15-14:30	Diagnosis of carotid vulnerable plaque	Chun Yuan	University of Washington, USA
14:30-14:45	Assessment of left ventricular myocardial scar in coronary artery disease by a three-dimensional MR imaging technique	Shihua Zhao	FuWai Hospital
14:45-15:00	Assessment of femoral artery atherosclerosis using 3D black-blood MR imaging	Jianrong Xu	RenJi Hospital
15:00-15:15	Coronary Artery Imaging	Qing Duan	Fujian Medical University Union Hospital
15:15-15:25	3D quantitative T2 mapping in the human heart	Haiyan Ding	Tsinghua University
15:25-15:35	Etiological diagnosis of left ventricular dysfunction: 3.0T whole-heart coronary MRA compared with X-Ray coronary angiography	Qi Yang	Xuanwu Hospital Capital Medical University
15:35-15:45	Detection of peripheral arterial disease using non-contrast enhanced MR angiography (NCE-MRA) in patients with diabetes	Xin Liu	Shenzhen Institutes of Advanced Technology of Chinese Academy of Sciences
15:45-16:15	Tea Break – Cardiovascular and Body/MSK Poster Session		

Body/MSK Imaging Session			Moderators: Hua Guo, Cheng Zhou
16:15-16:30	An image processing approach to compensate for bladder wall deformation via dynamic imaging for MR Cystography	Jerome Liang	State University of New York at Stony Brook, USA
16:30-16:45	Asymmetric Dixon water-fat imaging	Qing-San Xiang	University of British Columbia, Canada
16:45-17:00	High resolution diffusion weighted imaging of pancreatic ductal adenocarcinoma using 2D reduced field of view single-shot echo-planar Imaging at 3.0 Tesla	Jianping Lu	Changhai Hospital of Shanghai
17:00-17:15	Evaluation of recurrent ovarian cancer with DWI	Min Chen	Beijing Hospital
17:15-17:30	3D reconstruction of the epiphyseal cartilage in developmental dysplasia of the hip	Xiaoguang Cheng	Beijing Jishuitan Hospital
17:30-17:40	Effect of trigger delay on diffusion-weighted imaging in peripheral gating technique: a quantitative evaluation	Jinning Li	Second Affiliated Hospital, Zhejiang University College of Medicine
17:40-17:50	Assessment of rat liver fibrosis with ΔR_2^* value in oxygen-challenge BOLD MR imaging: preliminary study	Lan Zhang	Shengjing Hospital of China Medical University
17:50-18:00	Improved Gd concentration estimation in the presence of fat with two-point Dixon for DCE-MRI	Yuan Le	Indiana University School of Medicine, USA
Education Session - How to write a scientific paper		Location: Education Venue	Moderators: Xiaoping Hu, Wenxiao Jia
16:15-16:25	Introduction and editor's view	Xiaoping Hu	Georgia Tech and Emory University, USA
16:25-16:45	Nuts and bolts of scientific writing	Allen Song	Duke University, USA
16:45-17:05	Publication in high impact clinical journals	Qiyong Gong	West China Hospital of Sichuan University
17:05-17:25	Publications in high impact basic journals	Yijun Liu	Peking University
17:25-17:35	Comments related to Chinese Journal of MRI,	Guangjun He	Chinese Journal of Magnetic Resonance Imaging
17:35-18:00	Panel discussion		
18:00-20:00	Dinner – Sponsored by Philips		Location: Seaview Resorts, Xiamen

CSMRM & OCSMRM Joint Meeting - Dec. 16 Sunday			Location: Main Venue
Molecular Imaging and MR Spectroscopy Session			Moderators: Zhengrong Lv, Minming Zhang
8:30-8:45	Functional magnetic nanoparticles for biomedical imaging and therapeutics	Gang Liu	Xiamen University
8:45-9:00	Type I diabetes-induced metabolic and structural alternations in the visual system of Streptozotocin-treated rats	Hao Lei	Wuhan Institute of Physics and Mathematics of Chinese Academy of Sciences
9:00-9:15	In vivo MRI detection of carotid atherosclerotic lesions and early glomerulosclerosis in ApoE-deficient mice by using LOX-1-targeted iron oxide nanoparticles	Gaojun Teng	Southeast University
9:15-9:30	Clinic Evaluation of Myocardial Ischemia and Viability with MR	Fabao Gao	West China Hospital of Sichuan University
9:30-9:45	Edited magnetic resonance spectroscopy detects an age-related decline in brain GABA levels	Guangbin Wang	Shandong Medical Imaging Research Institute

9:45-9:55	Noninvasive MRI detection of bacteria through their endogenous CEST contrast	Guanshu Liu	Johns Hopkins University, USA
9:55-10:05	Magnetic resonance molecular imaging of atherosclerotic plaque in a Atherosclerosis Mouse Model	Xueming Wu	Case Western Reserve University, USA
10:05-10:15	Improved APT imaging of mice brain tumor using dual-frequency saturation	Xiaolei Song	Johns Hopkins University, USA
10:15-10:45	Tea Break – Molecular Imaging/MRS and Cancer Imaging Poster Session		
Cancer Imaging Session			Moderators: Jianhui Zhong, Wei Wang
10:45-11:00	Assessment of brain tumors and treatment response using amide proton transfer MRI	Jinyuan Zhou	Johns Hopkins University, USA
11:00-11:15	Multi-modality breast cancer imaging and development of MR-compatible nuclear medicine and optical imaging	Min-Ying Lydia Su	University of California – Irvine, USA
11:15-11:30	Whole body diffusion-weighted MRI; applications in malignant lymphoma	Pek-lan Khong	University of Hong Kong
11:30-11:45	The comparison of arterial spin labeling perfusion MRI and DCE-MRI in human prostate cancer	Xiaoying Wang	Peking University First Hospital
11:45-12:00	Prediction value of apparent diffusion coefficient histogram in local aggressiveness of cervical cancer	Huadan Xue	Peking Union Medical College Hospital
12:00-12:10	Non-Gaussian diffusion models for differentiation of pediatric brain tumors	Yi Sui	University of Illinois Hospital & Health Sciences System, USA
12:10-12:20	A fixed protocol of DWI-ADC value and DCE in BI-RADS categories	Liuquan Cheng	Chinese PLA General Hospital
12:30-13:30	Lunch		
Neuroimaging Session - Basic Science			Moderators: Yan Zhuo, Yi Wang
13:30-13:45	Nonlinear relationship between CBF and CMRO2 assessed by fMRI and PET	Jia-hong Gao	Peking University
13:45-14:00	Callosal degeneration topographically correlated with cognitive function in amnesic mild cognitive impairment and Alzheimer's disease dementia	Ching-Po Lin	National Yang-Ming University, Taiwan
14:00-14:15	BOLD fMRI investigation of tonotopic changes in normal and injured auditory systems	Ed Wu	University of Hong Kong
14:15-14:30	ASL perfusion based fMRI	Jiongjiong Wang	University of California, Los Angeles, USA
14:30-14:45	Default mode network in rats	Yihong Yang	National Institutes of Health, USA
14:45-15:00	The use of natural products as contrast agents to probe brain physiology	Hanzhang Lu	University of Texas Southwestern, USA
15:00-15:10	Effects of 5-HTTLPR genetic variation on amygdala connectivity during mood recovery	Hengyi Rao	Sun Yat-Sen University
15:10-15:20	Multi-delay multi-parametric pseudo-continuous arterial spin labeling in Moyamoya disease - comparison with CT perfusion	Rui Wang	Chinese Academy of Sciences
15:20-15:50	Tea Break – Neuroimaging Poster Session		

Neuroimaging Session - Clinical Application			Moderators: Lihong Wang, Jingliang Cheng
15:50-16:05	Evolving neuropsychology-radiology in China	Qiyong Gong	West China Hospital of Sichuan University
16:05-16:20	New trend of neurovascular imaging	Peiyi Gao	Beijing Tiantan Hospital affiliated to Capital Medical University
16:20-16:35	FMRI investigation of Prader-Willi syndrome and obesity: a new neuroimaging model of addiction	Yijun Liu	Peking University
16:35-16:50	Intrinsic connectivity networks are specifically changed by epileptic discharges in absence seizures	Guangming Lu	Nanjing General Hospital of Nanjing Military Command
16:50-17:05	T2*mapping ---- Clinical research and applications	Feng Feng	Peking Union Medical College Hospital
17:05-17:15	Training-induced changes of functional connectivity in sub-acute stroke	Chuanying Shi	Beijing Tiantan Hospital affiliated to Capital Medical University
17:15-17:25	Diffusion abnormalities in brain of children with epilepsy: a voxel-Based diffusion kurtosis imaging study with comparison with diffusion tensor imaging	Yuzhen Zhang	Xinhua Hospital
17:25-17:35	Severer white matter damage in Parkinson's disease patients with postural instability and gait difficulty: a diffusion tensor imaging study	Quanquan Gu	The 2nd Affiliated Hospital of Medical School of Zhejiang University
17:35-17:45	Award Announcement		
Education Session - Atherosclerotic plaque Imaging			Moderators: Bin Zhao, Changhong Liang
15:50-16:10	Stroke in China and its challenge to imaging	Yongjun Wang	Beijing Tiantan Hospital affiliated to Capital Medical University
16:10-16:30	Histology and pathology of atherosclerotic plaque	Mat Daemen	University of Amsterdam, Netherlands
16:30-16:50	Technique aspects of plaque imaging	Jinnan Wang	Philips Research North America, USA
16:50-17:10	Plaque image interpretation	Xihai Zhao	Tsinghua University
17:10-17:30	Image processing and quantification of plaque imaging	Huijun Chen	Tsinghua University
18:00-20:00	Dinner		
			Location: Cafeteria





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Organizers 主办单位:

- Oversea Chinese Society of Magnetic Resonance in Medicine
海外华人医学磁共振学会
- International Society of Magnetic Resonance in Medicine
国际医学磁共振学会

Co-organizers 协办单位:

- Chinese Society of Radiology
中华医学会放射学分会
- Zhongshan Hospital of Xiamen University
厦门大学中山医院
- The First Affiliated Hospital of Xiamen University
厦门大学第一附属医院

Administrators 承办单位:

- Center for Biomedical Imaging Research, Tsinghua University
清华大学生物医学影像研究中心
- Sinorad Medical Electronics Inc.
北京中科美德医疗信息科技有限公司

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同筑华夏，共振核磁

-----记中外华人医学磁共振 2012 年会暨国际医学磁共振学会论坛

12 月，在北京，白雪皑皑，寒风刺骨；12 月，在厦门，草木繁盛，气候宜人。由海外华人医学磁共振学会和国际医学磁共振学会共同主办，中华医学会放射学分会、厦门大学中山医院和厦门大学第一附属医院协办，清华大学生物医学影像研究中心和北京中科美德医疗信息科技有限公司承办的中外华人医学磁共振 2012 年会暨国际医学磁共振学会论坛于 2012 年 12 月 14-16 日在美丽的海滨城市福建厦门成功举行，此次大会共吸引了来自国内外著名大学和研究机构的 400 余名专家教授和临床医生参加，就国际磁共振成像技术及应用的最新进展展开了充分交流，是一次海内外医学影像领域专家相聚的盛会，充分体现了本次会议的主题“同筑华夏，共振核磁”。

12 月 14 日在周晓洪教授和卢光明主任的共同主持下进行了简短的国际医学磁共振学会论坛的开幕式，中华医学会副会长戴建平院长，中华放射学会副主任委员金征宇教授，国际医学磁共振学会会士胡小平教授和中外华人医学磁共振学会主席苑纯教授分别为开幕式致辞。随后来自美国斯坦福大学、哈佛大学、密歇根大学、华盛顿大学、英国皇家马斯登医院、意大利米兰临床医学院的教授就最新弥散成像技术和应用进行了深入的探讨，来自宣武医院的李坤程主任和来自北京大学肿瘤医院的唐磊博士介绍了弥散成像在中国的发展和应用。通过整整一天的课程，与会专家深入了解了弥散成像国内外的发展现状和未来的发展趋势。



图 1 周晓洪教授主持国际医学磁共振学会论坛开幕式



图 2 戴建平院长为国际医学磁共振学会论坛开幕致辞



图 3 金征宇主任为国际医学磁共振学会论坛开幕致辞



图 4 胡小平教授为国际医学磁共振学会论坛开幕致辞



图 5 苑纯教授为国际医学磁共振学会论坛开幕致辞



图 6. 400 多名与会专家认真听课

12月15日中外华人医学磁共振2012年会在海外华人磁共振学会主席苑纯教授和中华放射学会磁共振学组的卢光明主任共同主持下正式开幕，卢光明主任也现场宣读了中华放射学会主任委员冯晓源院长写来的贺信，中华放射学会副主任委员金征宇教授也给了热情洋溢的讲话。同时会议邀请到中国生物技术发展中心于振行博士，国家自然科学基金委彭彧华主任，美国国立卫生研究院（NIH）生物影像和生物工程研究所的所长 Roderic Pettigrew 教授，荷兰阿姆斯特丹大学的资深教授 Mat Daemen 分别就磁共振成像领域在中国、美国和欧洲基金申请和国际合作的情况进行了充分的介绍。



图7 卢光明教授和苑纯教授主持中外华人医学磁共振2012年会开幕式



图 8 于振行博士介绍磁共振成像领域项目资助现状和展望



图 9 彭彧华主任介绍磁共振成像领域基金申请现状和展望



图 10 Roderic Pettigrew 教授为大家介绍 NIH 在磁共振成像领域的项目资助情况



图 11 Mat Daemen 教授为大家介绍欧盟在磁共振成像领域的项目资助情况

在为期两天的中外华人医学磁共振2012年会就磁共振成像新技术，磁共振心血管成像，磁共振体部和骨骼肌肉成像，分子影像和磁共振波谱，磁共振癌症成像，磁共振神经成像（基础科学）和磁共振神经成像（临床应用）等七个主题进行了深入的讨论。除特邀报告外每个主题还通过海内外论文征集和评阅设置了口头发言和海报张贴，加强了不同医院和研究所之间的学术交流，最终通过评选有18篇论文获得优秀口头发言奖，有2篇论文获得优秀海报张贴奖。本次会议同时还为参会的临床医生开设了科技论文撰写技巧和动脉粥样硬化斑块成像技术的培训课程，吸引了众多临床医生的积极参与。



图12 王乙教授向获奖者颁发荣誉证书

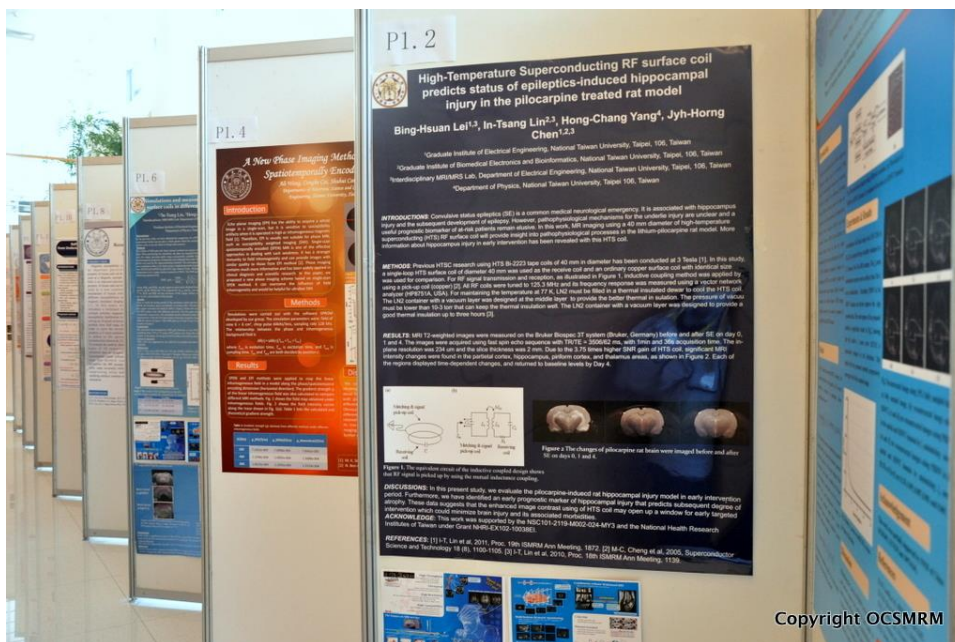


图13 海报张贴

此次大会还得到了西门子医疗、飞利浦医疗、GE医疗、深圳安科、成都奥泰、In Vivo、上海晨光、汇影医疗、鑫高益和美德医疗的赞助，是他们贡献才使得

大会的召开和顺利进行成为可能。



图14 西门子晚宴祝酒



图15 飞利浦晚宴祝酒

当大家告别厦门时，所有专家和参会代表对厦门依依不舍，对论坛寄予了充分肯定和高度赞誉，并对下次的中外华人医学磁共振学会充满期待。