Overseas Chinese Society for Magnetic Resonance in Medicine

2019 OCSMRM ChinaNight

May 15, 2019, 6:30 pm - 9:30 pm
Hotel Intercontinental Montreal, Montréal, Canada
Roentgen Lecture
Application of Resting State fMRI in Psycho-radiology

Bharat B. Biswal, Ph.D.
New Jersey Institute of Technology
OCSMRM
We are a scientific, educational, and professional organization devoted to the field of magnetic resonance in medicine.
OCSMRM Presidents

Jia-Hong Gao: 2002-2004
Xiaoping Hu: 2004-2006
Debiao Li: 2006-2008
Qun Chen: 2008-2010
Xiaohong Joe Zhou: 2010-2011
Yi Wang: 2011-2012
Chun Yuan: 2012-2013
Yihong Yang: 2013-2014
Wei Chen: 2015-2016
Ed X. Wu: 2016-2017
Xiaoliang Zhang: 2017-2018
Qiyong Gong: 2018-2019
Broad of Trustees (2018-2019)

Qiyong Gong  
Du Jiang  
Meiyun Wang  
Xiaoliang Zhang  
Ed Wu  
Hao Huang  
Wei Chen  
Yiping Du  
Yihong Yang  
Chuan Yuan  
Yi Yang  
Hui Mao  
Xiaohong Zhou  
Hua Guo  
Jinyuan Zhou
OCSMRM 2019
Opening Lecture &
Career Development Forum
on May 13, 2019
OCSMRM Activities during the past year
Value of MRI in Medicine: More Than Just Another Test?

Edwin J.R. van Beek, MD, PhD,1* Christiane Kuhl, MD, PhD,2
Yoshimi Anzai, MD, MPH,3 Patricia Desmond, MD,4 Richard L. Ehman, MD,5
Qiyong Gong, MD, PhD,6 Garry Gold, MD, PhD,7 Vikas Gulani, MD, PhD,8
Margaret Hall-Craggs, MD,9 Tim Leiner, MD, PhD,10 C.C. Tschoyoson Lim, MBBS,11
James G. Pipe, PhD,12 Scott Reeder, MD, PhD,13 Caroline Reinhold, MD, MSc,14
Marion Smits, MD, PhD,15 Daniel K. Sodickson, MD, PhD,16
Clare Tempany, MB, BAO, BCH,17 H. Alberto Vargas, MD, MPH,18 and
Meiyun Wang, MD, PhD19

Contribution to *Neuroimaging Clinics of North America; Psychoradiology*

Thirteen experts of psychoradiology from 12 top institutes worldwide contributed to the edition.
## OCSMRM in CCR 2018

OCSMRM members (n=25) gave presentations

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kannie Chan</td>
<td>City University of Hong Kong</td>
</tr>
<tr>
<td>Wei Chen</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>Jiang Du</td>
<td>University of California San Diego</td>
</tr>
<tr>
<td>James C. Gee</td>
<td>University of Pennsylvania</td>
</tr>
<tr>
<td>Qiyong Gong</td>
<td>Sichuan University</td>
</tr>
<tr>
<td>Chang Leo</td>
<td>Harvard University</td>
</tr>
<tr>
<td>Ye Li</td>
<td>Shenzhen Institutes of Advanced Technology</td>
</tr>
<tr>
<td>Guanshu Liu</td>
<td>Johns Hopkins University</td>
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<tr>
<td>Hanzhang Lu</td>
<td>Johns Hopkins University</td>
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<tr>
<td>Zhengrong Lv</td>
<td>Case Western Reserve University</td>
</tr>
<tr>
<td>Hui Mao</td>
<td>Emory University</td>
</tr>
<tr>
<td>Qiwen Mu</td>
<td>North Sichuan Medical University</td>
</tr>
<tr>
<td>Yi Wang</td>
<td>Cornell University</td>
</tr>
<tr>
<td>Yunmei Wang</td>
<td>Henan Provincial People’s Hospital</td>
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<tr>
<td>Ze Wang</td>
<td>University of Pennsylvania</td>
</tr>
<tr>
<td>Ed Wu</td>
<td>University of Hong Kong</td>
</tr>
<tr>
<td>Yang Xia</td>
<td>Oakland University</td>
</tr>
<tr>
<td>Qing Yang</td>
<td>Pennsylvania State University</td>
</tr>
<tr>
<td>Chun Yuan</td>
<td>University of Washington</td>
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<tr>
<td>Xiaoliang Zhang</td>
<td>University of California San Francisco</td>
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<tr>
<td>Hairong Zheng</td>
<td>Shenzhen Institutes of Advanced Technology</td>
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<tr>
<td>Jianhui Zhong</td>
<td>University of Rochester</td>
</tr>
<tr>
<td>Jinyuan Zhou</td>
<td>Johns Hopkins University</td>
</tr>
<tr>
<td>Xiaohong Zhou</td>
<td>University of Illinois at Chicago</td>
</tr>
<tr>
<td>Xin Zhou</td>
<td>Wuhan Institute of Physics and Mathematics</td>
</tr>
</tbody>
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JSMRM、KSMRM and ISMRM in CCR 2018
OCSMRM in KSMRM 2019

Zhi-Pei Liang
University of Illinois at Urbana-Champaign
USA.

11:00-12:20
Plenary Lecture III&IV
PL3: Zhi-Pei Liang (Ultrafast MR Spectroscopic Imaging) / PL4: Jong Chul Ye (AI-powered Fast MR Acquisition)

Congratulatory Speech
Qiyong Gong
President of OCSMRM
Chair of ASMRM Scientific Committee
OCGMRM in ASMRM 2019

- Established Asian Society of Magnetic Resonance in Medicine (ASMRM) with other Asian countries
- The 1st Annual Meeting of ASMRM coming soon on 2019.7.24-7.26, Shanghai, China
OCSMRM
Our Contribution in ISMRM 2019
We Participate in ISMRM 2019

- **ISMRM Senior Fellows (n=18)**
  - Xiaoping Hu 2004
  - Vivian S. Lee 2006
  - Debiao Li 2006
  - Linda Chang 2008
  - Chun Yuan 2008
  - Zhi-Pei Liang 2010
  - Christine Chung 2012
  - Yi Wang 2012
  - Xiaohong Zhou 2012
  - Chien Ho 2013
  - Ed X. Wu 2013
  - Wei Chen 2016
  - Qiyong Gong 2016
  - Yihong Yang 2017
  - Hanzhang Lu 2018
  - Jie Tian 2018
  - Yang Xia 2018
  - **Kenneth Kwong, 2019**

- **ISMRM Junior Fellows (n=43)**
  - Kevin C. Chan 2010
  - Jun Hua 2010
  - Holden H. Wu 2010
  - Weiyiing Dai 2011
  - Yen-Yu Ian Shih 2011
  - Dingxin Wang 2011
  - Silun Wang 2011
  - Xin Yu 2011
  - Jeff Lei Zhang 2011
  - Wei Li 2012
  - Deqiang Qiu 2012
  - Qi Yang 2012
  - Zhaoyang Fan 2013
  - Hui Han 2013
  - Peiyiing Liu 2013
  - Hsiao-Ying Wey 2013
  - Kun Qing 2014
  - Lirong Yan 2014
  - Li Feng 2015
  - Fang-Cheng Yeh 2015
  - Yi Zhang 2015
  - Jie Luo 2016
  - Chao Ma 2016
  - Dan Wu 2016
  - Dan Ma 2017
  - Fan Lam 2017
  - Yibin Xie 2017
  - Chengcheng Zhu 2017
  - Yan Lin 2017
  - Ruiliang Bai 2017
  - Tsuen-Hsuan Lin 2017
  - Audrey Fan 2018
  - Russell Chan 2018
  - Fei Li 2018
  - Shanshan Jiang 2018
  - Fang Liu 2018
  - Qiuyun Fan 2018
  - Yun Jiang 2019
  - Alex Tzw Lung Leong 2019
  - Jiaen Liu 2019
  - Ya-Jun Ma 2019
  - Minhui Ouyang 2019
  - Zhiyong Zhang 2019
  - Chien Ho 2013
  - Ed X. Wu 2013
  - Wei Chen 2016
  - Qiyong Gong 2016
  - Yihong Yang 2017
  - Hanzhang Lu 2018
  - Jie Tian 2018
  - Yang Xia 2018
  - **Kenneth Kwong, 2019**
We Participate in ISMRM 2019

- **Oversea Chinese in ISMRM Committee**: n=45
- **Board of Trustees**: n=1
- **Chinese Members in Study Group**: n=9

<table>
<thead>
<tr>
<th>Study Group</th>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Musculoskeletal MR</td>
<td>Gregory Chang</td>
<td>Chair</td>
</tr>
<tr>
<td></td>
<td>Eric Y. Chang</td>
<td>Secretary</td>
</tr>
<tr>
<td>MR Spectroscopy</td>
<td>Alexander P. Lin</td>
<td>Chair</td>
</tr>
<tr>
<td>Current Issues in Brain Function</td>
<td>Xiaoping P. Hu</td>
<td>Chair</td>
</tr>
<tr>
<td>Psychiatric MR Spectroscopy &amp; Imaging</td>
<td>Qiyong Gong</td>
<td>Chair</td>
</tr>
<tr>
<td></td>
<td>Meiyun Wang</td>
<td>Secretary</td>
</tr>
<tr>
<td></td>
<td>Fei Li</td>
<td>Trainee Representative</td>
</tr>
<tr>
<td></td>
<td>Xinyu Hu</td>
<td>Past Trainee Representative</td>
</tr>
<tr>
<td>Pediatric MR</td>
<td>Duan Xu</td>
<td>Chair</td>
</tr>
</tbody>
</table>

Meiyun Wang, M.D., Ph.D.,
Radiologist, Professor and Director of the Medical Imaging Center of Henan Province
Chair of the Department of Radiology
Henan Provincial People’s Hospital
We Participate in ISMRM 2019

- **Annual Meeting Program Committee: n = 11**
  Lijun Bao, Ph.D.
  Zhaolin Chen, Ph.D.
  Hai-Ling Margaret Cheng, Ph.D.
  Qiyong Gong, M.D., Ph.D.
  Hua Guo, Ph.D.
  Peng Hu, Ph.D.
  Yunhong Shu, Ph.D.
  Meiyun Wang, M.D., Ph.D.
  Yi-Fen Yen, Ph.D.
  Xin Yu, Ph.D.
  Qiuyun Fan, Ph.D.

- **Subcommittee on the Young Investigator Awards: n = 4**
  Houchun Harry Hu, Ph.D.
  Yiping P. Du, Ph.D.
  Yulin Ge, M.D.
  Yongxian Qian, Ph.D.

- **Education Committee: n = 7**
  Chuan Huang, Ph.D.
  Hao Huang, Ph.D.
  Peiying Liu, Ph.D.
  Dan Ma, Ph.D.
  Jin Wang, Ph.D.
  Junzhong Xu, Ph.D.
  Shanshan Jiang, M.D., Ph.D.

- **Trainee Advisory Working Group: n = 4**
  Qiuyun Fan, Ph.D.
  Shanshan Jiang, M.D., Ph.D.
  Fei Li, M.D.
  Fang Liu, Ph.D.

- **Publications Committee: n = 2**
  Jun Lu, Ph.D.
  Jinyuan Zhou, Ph.D.

- **Chapters Committee: n=2**
  Fuhua Yan, M.D., Ph.D.
  Fang Liu, Ph.D.

- **Subcommittee on Trainee Stipends: n = 2**
  Kejia Cai, Ph.D.
  Peiying Liu, Ph.D.

- **Workshop & Study Group Review Committee: n = 2**
  Zhipeng Cao, Ph.D.
  Fei Li, M.D.
We Participate in ISMRM 2019

• Chinese Mediators n = 33
  ➢ Power Pitch: n=6
  ➢ Oral: n=16
  ➢ Educational Course (including weekday Course/Sunrise Session/Weekend Course): n=21

• Chinese Organizers n = 22

• Educational Courses given by Chinese Speakers: n=34
We Get Talents in ISMRM 2019

• 2019 abstracts: ~1400 Chinese as first authors
  • Oral presentations: n=216
  • Power Pitch Presentations: n=117

• Awarded Abstracts

• Awarded Symposium Abstracts
  Lianqing Zhang, *Anatomic Alterations in Amygdala Subregions in Medication-free Patients with Obsessive-Compulsive Disorder*, ISMRM Psychiatric MR Spectroscopy & Imaging Study Group, 3rd Place of Trainee competition
We Get Talents in ISMRM 2019

• Young Investigator Award Nominee:

Fuyixue Wang
Graduate student (PhD), MIT

Echo Planar Time-resolved Imaging (EPTI)

Fuyixue Wang, Zijing Dong, Timothy Reese, Berkin Bilgic, Mary Manhard, Jingyuan Chen, Jonathan Polimeni, Lawrence Wald, Kawin Setsompop

A new technique, termed Echo Planar Time-resolved Imaging (EPTI), was developed to address EPI's geometric distortion and blurring, and to provide temporal signal evolution information across the EPI readout window. Using a small number of EPTI-shots, a time-series of multi-contrast images can be created free of distortion and blurring (up to 100 $T_2$- and $T_2^*$-weighted images). This should make EPTI useful for numerous applications. Here, we demonstrated EPTI in brain to provide i) rapid simultaneous quantitative mapping of $T_2$, $T_2^*$, proton density and tissue phase, as well as ii) multi-echo and quantitative $T_2^*$ fMRI.
Congratulatory Speech
Speech of MR Society Leadership

Pia Sundgren, ISMRM President

Garry Gold, ISMRM Past President

Yeon Hyeon Choe, KSMRM President

Kei Yamada, JSMRM Leader
Honorary Lifetime Member
Xiaohong Joe Zhou, Ph.D.

Professor of Radiology, Neurosurgery, and Bioengineering
Chief Medical Physicist
Director of 3T MR Research Program
Director of MR Physics

University of Illinois at Chicago

The research in my group is focused primarily on developing diffusion imaging techniques to improve cancer diagnosis, guide surgery, and monitor treatment efficacy. We are particularly interested in developing non-EPI-based data acquisition techniques to achieve high spatial resolution. With the high resolution capability, we are presently exploring a number of applications, including tracking tumor cell infiltration along the white-matter fiber tracts, early detection of tumor recurrent sites, and probing tissue cellularity change during radiation therapy.
OCSMRM Young Investigator Award

(3rd Place: 3, 2nd Place: 2, 1st Place: 2)
OCSMRM Young Investigator Award (YIA)

3rd Place

Young Investigator Award
Third Place
Presented to
Ruibin Liu
on 15 May 2019

Ruibin Liu, Ph.D.
Ph.D. Student
Zhejiang University
Mentor: Yi Zhang

Improved chemical exchange saturation transfer imaging with real-time frequency drift correction.

Zheng Han, Ph.D.
Postdoc
Johns Hopkins University

Mentor: Guanshu Liu

Molecular imaging of deoxycytidine kinase activity using deoxycytidine-enhanced CEST MRI.
Lin Chen, Ph.D.
Postdoc
Johns Hopkins University

Mentor: Peter van Zijl

Protein aggregation linked to Alzheimer's disease revealed by saturation transfer MRI.

OCSMRM Young Investigator Award (YIA)

2nd Place

Congyu Liao, Ph.D.
Postdoc
Harvard Medical School

Mentor: Jianhui Zhong

Detection of Lesions in Mesial Temporal Lobe Epilepsy by Using MR Fingerprinting.

OCSMRM Young Investigator Award (YIA)

2nd Place

Yajun Ma, Ph.D.
Assistant project scientist
University of California

Mentor: Eric Chang

Investigative Radiology. 2019 (Accept).

AcidoCEST-UTE MRI for the Assessment of Extracellular pH of Joint Tissues at 3T

Ma Y, High RA, Tang Q, Wan L, Du J, Chang EY.
Zheng Zhong, Ph.D.
Ph.D. Student
University of Illinois at Chicago

Mentor: Xiaohong Joe Zhou

Minhui Ouyang, Ph.D.  
Research Scientist  
Children’s Hospital of Philadelphia  
Mentor: Hao Huang  

Differential cortical microstructural maturation in the preterm human brain with diffusion kurtosis and tensor imaging.  
Outstanding Contribution Award
Outstanding Contribution Award -- This prestigious award is given by the OCSMRM to those who made tremendous contributions to advancing MRI and significantly promoting our OCSMRM worldwide.

<table>
<thead>
<tr>
<th>Winner</th>
<th>Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEN, Min</td>
<td>Department of Radiology, Beijing Hospital, China</td>
</tr>
<tr>
<td>YANG, Yihong</td>
<td>National Institutes of Health, USA</td>
</tr>
<tr>
<td>YU, Chunshui</td>
<td>Department of Radiology, Tianjin Medical University General Hospital</td>
</tr>
<tr>
<td>ZHANG, Xiaoliang</td>
<td>University of California, San Francisco, USA</td>
</tr>
<tr>
<td>ZHENG, Hairong</td>
<td>Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</td>
</tr>
</tbody>
</table>
Outstanding Research Award
Outstanding Research Award recognizes the important research work presented at the ISMRM 2019 to promote the impact of OCSMRM in the international MR community. Selection of this award will be based on the accepted abstracts to the ISMRM 2019 annual meeting. The first author of the abstract can be student, postdoc, faculty, or MR researcher at any level, but must be an OCSMRM member or closely associated with OCSMRM.

<table>
<thead>
<tr>
<th>Winner</th>
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</tr>
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<tbody>
<tr>
<td>BAI, Yan</td>
<td>Department of Radiology, Henan Provincial People's Hospital, China</td>
</tr>
<tr>
<td>CHEN, Qiaoyan</td>
<td>Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China</td>
</tr>
<tr>
<td>HUANG, Peizhou</td>
<td>State University of New York at Buffalo, USA</td>
</tr>
<tr>
<td>LAI, Wentao</td>
<td>Department of Radiology, Shenzhen Mental Health Center, Shenzhen Kangning Hospital, Shenzhen, China</td>
</tr>
<tr>
<td>MA, Chao</td>
<td>Massachusetts General Hospital, Harvard Medical School, Boston, USA</td>
</tr>
<tr>
<td>WU, Mei</td>
<td>Department of Radiology, University of California, San Diego, CA, United States</td>
</tr>
<tr>
<td>YANG, Cheng</td>
<td>Huaxi MR Research Center, Department of Radiology, West China Hospital of Sichuan University</td>
</tr>
<tr>
<td>ZHANG, Yuxin</td>
<td>Department of Medical Physics, University of Wisconsin-Madison, Madison, Wisconsin USA</td>
</tr>
</tbody>
</table>
Handover Ceremony
New Members in Broad of Trustee

Allen Song, Ph.D.
Duke University
Professor and Director of Brain Imaging and Analysis Center

Xiaojuan Li, Ph.D.
Lerner Research Institute, Cleveland Clinic
Professor of the Department of Biomedical Engineering
Director of the Program of Advanced Musculoskeletal Imaging
2019 OCSMRM Election for Secretary

Hanzhang Lu, Ph.D.

Johns Hopkins University School of Medicine

Professor and Chief of Neurofunction Section at the
Department of Radiology
Dr. Du’s research interests have focused on ultrashort TE (UTE) imaging of short T2 tissues (bone, tendons, menisci, ligaments, calcification, iron, myelin, etc.) in the musculoskeletal and neurological systems.

See you next year in Sydney!
Acknowledgements

Executive Committee of OCSMRM
Qiyong Gong, President
Jiang Du, Vice President
Fuhua Yan, CSMRM Representative
Xiaoqi Huang, Program Chair
Xiaoliang Zhang, Past President
Meiyun Wang, Secretary
Wei Chen, Treasurer
Fei Li, Trainee Representative

YIA Selection Committee
Xiaojuan Li, Xin Yu, Hanzhang Lu, Wei Chen, Hua Guo, Hao Huang,
Xiaoliang Zhang, Meiyun Wang, and Jiang Du

Sponsors

Platinum Sponsor

Silver Sponsor

Bronze Sponsor

Sliver Sponsors

Bronze Sponsors
Lucky Draw

- iPad mini x1
- Kindle x3
- Xiaomi Band x10