

CASNM Newsletter (July 2103)

CASNM Annual Meeting Highlight

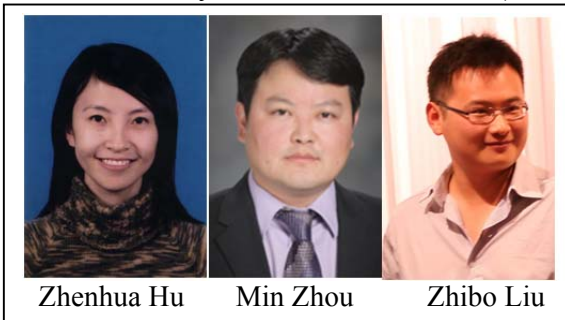
With everyone's help and support, the Chinese American Society of Nuclear Medicine (CASNM) successfully held its annual meeting on June 11, 2013 at the Floata Seafood Restaurant when about 100 participants gathered in Vancouver at the time of the Society of Nuclear Medicine and Molecular Imaging (SNMMI) annual meeting. The Chinese Society of Nuclear Medicine (CSNM) also brought its delegation to join the dinner party.

The 2013 CASNM Lifetime Achievement award was presented to Dr. **Hank F. Kung**, from the University of Pennsylvania. He was also the recipient of the prestigious Paul C. Aebersold Award (2004) and Kuhl-Lassen Award (2013) from the SNMMI. Hank is most well-known for the development of FDA approved amyloid imaging agent florbetapir ^{18}F AV-45 (trade name is Amyvid).



Dr. Hank F. Kung (middle) received the Lifetime Achievement award from Dr. Xiao-Feng Li (left, president) and Dr. Xiaoyuan (Shawn) Chen (right, president-elect).

Young scientist awards went to Mr. **Zhibo Liu** from the University of British-Columbia ("Kit" ^{18}F -radiolabeling based on B-F bond formation), Dr. **Min Zhou** from the MD Anderson Cancer Center (Radioactive [^{64}Cu]CuS nanoparticles and near-infrared laser irradiation for combined radiotherapy and photothermal therapy: in-vivo feasibility study in animal models), and Dr. **Zhenhua Hu** from the Chinese Academy of Sciences (Endoscopic Cerenkov luminescence imaging of nude mice with gastric tumors). Dr. **Zhen Cheng** from Stanford University also highlighted the achievements of physicians and scientists of Chinese origin in the last year.



The annual meeting dinner party was partially supported by the JML Biopharm, Inc., IsoSolutions Marketing & Management, Inc., and Advanced Cyclotron Systems, Inc.

Based on the news editor of the Journal of Nuclear Medicine (JNM), some contents of the CASNM annual meeting report will be run as a newsbrief in the August issue of JNM.

2013 CASNM Annual Meeting Dinner Party Photo Gallery





Highlight of Scientific Achievements of CASNM Members

The following highlights were collected from Dr. Zhen Cheng's presentation at the 2013 CASNM annual meeting with the slides provided by CASNM members for their achievements during 2012-2013. I am sure that much more happened but we may not know and thus not able to highlight your achievements here. We are counting on you to provide news items that are related to the Chinese scientists/physicians. We would like to have the whole community share the joy and congratulate the achievements.

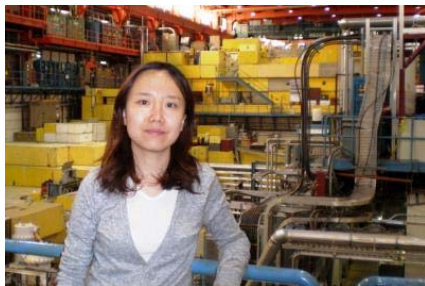
Dr. Hank Kung received the 2013 Kuhl-Lassen Lecture Award from the SNMMI Brain Imaging Council to honor a scientist who has made significant contributions to the field of functional brain imaging using SPECT and PET. Kung's lecture was entitled, "Amyloid Plaque Imaging Probes: From Bench to Clinic." Kung is a professor in the Departments of Radiology and Pharmacology at the University of Pennsylvania. He serves on the editorial boards for the International Journal of Radioisotopes and Radiopharmaceuticals and Nuclear Medicine and Biology. He has received many awards, including the Springer Award for the Best Paper in Basic Science, the Jacob K. Javits Award for Neuroscience by the National Institutes of Health, the Paul C. Aebersold Award from SNMMI and Distinguished Investigator Award from the Academy of Radiology Research. He has authored or co-authored more than 300 original articles in peer-reviewed journals in the fields of radiopharmaceutical chemistry, nuclear medicine and medicinal chemistry.



Dr. Kai Chen of the University of Southern California (USC) was awarded the 2013 Center for Molecular Imaging Innovation and Translation (CMIIT) Young Investigator Award during the 2013 SNMMI annual meeting. Dr. Chen presented results from his study entitled: "Synthesis and evaluation of a novel bis (zinc(II)-dipicolylamine) derivative for dual-modality PET/NIRF imaging of phosphatidylserine exposure." This is a collaborative work between USC and Molecular Targeting Technologies, Inc. (MTTI).



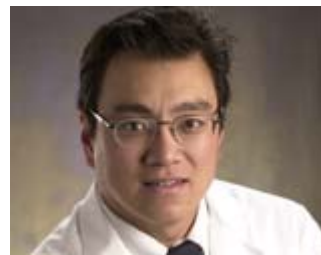
Dr. Zhanhong Wu of the Division of Diabetes, Endocrinology and Metabolism, City of Hope, Los Angeles, received a poster award during the 2013 SNMMI annual meeting. The poster was titled "⁶⁴Cu-labeled sarcophagine exendin-4 for microPET imaging of glucagon like peptide-1 receptor expression" Dr. Zibo Li from USC was a collaborator on this excellent work.



Dr. Hua Yang, an R&D support chemist at TRIUMF is the recipient of a 2nd place "Best Science" award from the SNMMI Young Professionals Committee (YPC). Hua's area of research is in radiotracers with a focus on oxidative stress imaging and her success landed her abstract titled "Development of ¹⁸F-labelled aminosuberic acid derivatives for in vivo analysis of cystine transporter expression and

oxidative stress". The SNMMI YPC award is a young professional award that recognizes the best research-based presentation on basic science or clinical topics.

Dr. Oliver Wong, past-president of CASNM recently applied dynamic PET to assess changes of ^{18}F -FDG metabolism of head-neck squamous cell carcinoma (HNSCC) at different periods after subcurative radiation and found that dynamic PET parameters such as kinetic index or sensitivity factor, were more predictive and static PET parameter of standard uptake value (SUV) are more predictive. This work was published in *Int J Radiat Oncol Biol Phys* 2012 Oct 1;84(2):485-91.



Dr. Rui An and his colleagues from the Union Hospital, Huazhong University of Science and Technology reported the monitoring the bone marrow stem cells (BMSCs) with reporter gene system (e.g. HSV1-tk) in experimental middle cerebral artery occlusion (MCAO) rat models and concluded that ^{131}I -FIAU is a suitable PET tracer and local injection of stem cells is an optimal way of cell transplantation. This work was published in *J Nucl Med* 2013 Jun;54(6):984-9 and was funded by the National Science Foundation of China (NSFC).

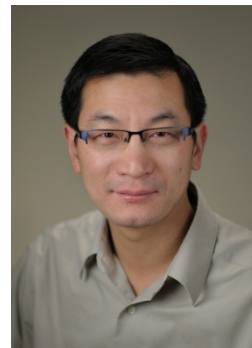
Dr. Xiaohua (Eva) Zhu, chair of the Nuclear Medicine Department, Tongji Hospital, Huazhong University of Science and Technology presented two posters at the 2013 SNMMI annual meeting, one in collaboration with Dr. Zhen Cheng at Stanford University and one with Dr. Dongfeng Pan at the University of Virginia. She also has a few papers published in *Nucl Med Comm* and was a recipient of NSFC general program (面上项目) developing GPC-3 affibody-based probes for PET imaging of hepatocarcinoma (HCC).



Dr. Weibo Cai's group from the University of Wisconsin-Madison received American Cancer Society Research Scholar Award, NIH R01 award, and EANM Eckert & Ziegler Abstract Award. His stellar postdoctoral fellow Hao Hong was the 2012 SNM Berson-Yalow Award, 2012 and 2013 SNMMI annual meeting. Another bright student, Yin Zhang in Cai group was the recipient of the 2012 SNM RPSC Young Investigator Award (2nd place) and 2013 SNMMI Bradley-Alavi Student Fellowship. Yin also received travel awards from SNMMI and AAPM. Dr. Cai, along with Drs. Zhude Tu and Zhen Cheng, are three Chinese scientists currently sitting on the Radiopharmaceutical Science Council board of directors. Before them, Drs. Shuang Liu and Xiaoyuan (Shawn) Chen were also RPSC BOD members. Dr. Cai is the Executive Editor of the American Journal of Nuclear Medicine and Molecular Imaging (<http://www.ajnm.org>), which was launched in 2011 and is now fully indexed in PubMed.

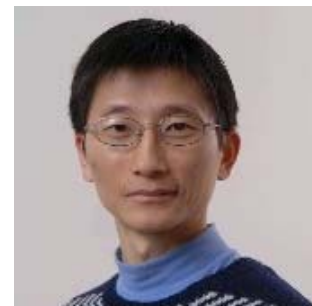
Dr. Xiaoyuan (Shawn) Chen from the National Institutes of Health (NIH) started a new journal *Theranostics* (<http://thno.org/>), which publishes innovative research articles reflecting the fields of diagnostics, imaging and therapy research. Since its inauguration in 2011, the journal publishes monthly and is indexed by PubMed, SCI, and CA. The first impact factor (IF) recently

released by Thomson Reuters reached 7.806. His group in collaboration with the Jiangsu Institute of Nuclear Medicine, Wuxi No. 4 People's Hospital, successfully translated ^{18}F -alfatide into clinic for specific imaging of $\alpha\text{v}\beta 3$ expression with good contrast in lung cancer patients (*J Nucl Med* 2013;54(5):691-8). His group also collaborated with the Peking Union Medical College Hospital and studied ^{68}Ga -labeled RGD peptide dimer in post-myocardial infarction repair (*J Nucl Med* 2013;54(Suppl 2):24P) and post-stroke patients (*J Nucl Med* 2013;54(Suppl 2):48P). He recently also edited three books: Recent Advances of Bioconjugation Chemistry in Molecular Imaging (publisher: Research Signpost); Nanoplatform-Based Molecular Imaging (Publisher: Wiley); Molecular Imaging Probes for Cancer Research (Publisher: World Scientific).



Dr. Xiao-Feng Li from the University of Louisville, in collaboration with the Fourth Hospital of Harbin Medical University, recently published an interesting JNM paper that compared the intratumoral accumulation of ^{18}F -FDG, ^{18}F -FLT, and ^{18}F -FMISO and related this to specific components of the tumor microenvironment in mouse models of human non-small cell lung cancer (NSCLC). They concluded that tumor microenvironment is complex and highly heterogeneous, FLT generally accumulates in proliferating cancer cells, whereas FLT and FMISO accumulate mostly in hypoxic and nonproliferative cancer cells, FDG shares a similar intratumoral distribution pattern with FMISO but mutually excludes FLT (*J Nucl Med*. 2012;53(8):1262-8).

Dr. Zhen Cheng from Stanford University recently reported the Cerenkov Luminescence Endoscopy (CLE) technology that combines the endoscope with the phenomenon responsible for the eerie blue glow in the cooling water of nuclear reactors at the 243rd National Meeting & Exposition of the American Chemical Society (ACS). This piece of nice work was broadcasted by Science Daily and several other news media. It is believed that the transition of the CLE system from laboratory to operating room may happen in the next few years. More details can be found in *J Nucl Med* 2012;53(10):1579-84.



Vote for Name Change from CASNM to CASNMMI

Chinese American Society of Nuclear Medicine (CASNM) was established in 1977 as a nonprofit, nonpolitical organization with the objectives of encouraging professional contact among members all over the world, facilitating scientific exchanges in research and development, and promoting young scholars as well as international interaction with regard to the science of nuclear medicine and molecular imaging with a special focus in the Chinese community. The membership of CASNM is not restricted to practitioners living in North America. We also welcome participants from Europe, Australia, Asia, and elsewhere to join our organization.

The Society of Nuclear Medicine (SNM) changed its name in 2012 to the Society of Nuclear Medicine and Molecular Imaging (SNMMI). The board of directors of CASNM also firmly believes that it is the natural progression of our organization to embrace molecular imaging and change its name to the Chinese American Society of Nuclear Medicine and Molecular Imaging (CASNMMI).

A new logo for CASNMMI has also been designed by Ms. Chenxi Wu from the Peking Union Medical College Hospital (PUMCH), who is now a visiting student studying at NIBIB/NIH. It borrowed some ideas from the logo of SNMMI but is creative in several aspects: 1) Chinese characters at the bottom of the logo; 2) US and China maps on the earth (nucleus). Any suggestions to further improve the logo design are welcome.



We would like to hear your voice about the name change. As an organization we now stand prepared to contribute our efforts in translating novel imaging and therapeutic strategies for the new era of molecular and personalized medicine.

CASNMM Outreach Activities

During the past year, the CASNM has taken several steps toward strengthening the organization and expanding its activities.



The relationship between CASNM and CSNM is also growing. A good number of CASNM members were invited to attend the China Night organized by CSNM on June 9 at Yuehai Restaurant. The First Global Conference of Chinese Professionals in Nuclear Medicine and Molecular Imaging (1st GCCPNMMI), co-sponsored by CSNM, CASNM and other molecular imaging associations, will be held this November (Nov 1-3) in Xiamen, China. This conference will be the largest nuclear medicine and molecular imaging meeting for Chinese professionals, bringing together a great number of physicians, physics, researchers, scientists and experts with the highest academic standards in the field.



Some attractions at Xiamen city and Fujian province: Hakka tulou (top) and Mount Wuyi (bottom), both are UNESCO World Heritage sites and Gulangyu Island (aka Piano Island, middle).

Right before the GCCPNMMI, the 2nd International Molecular Imaging Summit (2nd IMIS), organized by the Chinese Society for Molecular Imaging (CSMI) and co-organized by CASNM and other related organizations will be held from Oct. 30 to Nov. 1, 2013 on the Xiang'an campus of Xiamen University (Xiamen, Fujian), China. IMIS is an international academic conference in the field, which gathers well-known scholars to discuss hot issues, cutting-edge topics, and the latest results in the field of molecular imaging and related interdisciplinary studies. A tour of Fujian Tulou, Gulangyu Island, or Mount Wuyi on November 1 for the attendees will be arranged by the Center for Molecular Imaging and Translational Medicine, Xiamen University (<http://mitm.xmu.edu.cn/>). Dr. Belinda Seto, the deputy director of NIBIB/NIH will give a plenary talk at the 2nd IMIS. Several CASNM members have agreed to attend either one or both of these two meetings in Xiamen. More details will follow when it is getting closer to these two meetings.



Dr. Chris Pak, a patriotic entrepreneur from Molecular Targeting Technologies, Inc. (MTTI), has been very generous in supporting CASNM, especially in encouraging young scientists in the field. He was the sponsor for the CASNM Young Scientist Award this year. He will also be the sponsor for the Young Investigator Award (白冠仁青年学子奖) for the 2nd IMIS to be held in Xiamen (application form available towards the end of the . Dr. Pak is the Co-Founder and Chief Executive Officer of MTTI. He also served as the president of CASNM from 1992 to 1993.

Our next annual meeting will be held in conjunction with the 61th annual meeting of the SNMMI in St. Louis, MO. We will also have a satellite meeting at the Sixth Annual World Molecular Imaging Congress (September 18-21, 2013, Savannah, Georgia) to attract members from the molecular imaging community to join CASNM.

2013 SNMMI Annual Meeting “China Night (中国之夜)” Photo Gallery



CASNM New Initiatives

CASNM is in the process of launching a new website (<http://www.casnmmi.org>). It is expected to open to the public by August this year. The new website should have the functions of bulletin board system (BBS), job posting, advertisement, interacting directly with the web designer, and more.

We are seeking volunteers to write Research Highlights' articles in related fields of nuclear medicine, molecular imaging, nanomedicine, molecular and cellular biology, etc. These articles will discuss a number of recent primary research papers, summarizing and commenting on each paper to give readers a real sense of the cutting edge of research in the field.

We welcome you to provide classifications about positions open and academic positions, situations wanted, and advertisement. We look forward to your feedbacks how we can better serve the society and promote Chinese scientists/physicians in American institutions and private sectors.

Join Today and Become a CASNMMI Member!

The CASNMMI encourages all professionals with interest in nuclear medicine and/or molecular imaging to consider being members, as your input is needed to help promote and develop the many aspects of the society.

Why do you want to become a CASNMMI member:

- CASNMMI offers you growth and continuing education that you won't find anywhere else, along with the resources and connections especially, in the Chinese community, to help your career flourish in the imaging community.
- Receive current news about the field of nuclear medicine and molecular imaging and updates on activities of CASNMMI.
- Career assistance: Free of charge to post your job openings and situations wanted onto CASNMMI website, post your resume and sign up for job alerts.
- Get access to scholarship and awards for researchers, students and graduate students (Lifetime achievement award, Young Scientist Award, etc).
- Free entrance to dinner or lunch during annual CASNMMI meeting.
- Leadership and Advocacy: Get involved with your peers through the professional networking and educational programs provided by CASNMMI.
- And many more...

CASNMMI's Membership Year runs from July 1 – June 30 each year. The annual membership fee is \$50 (free for trainees).

Thank you Sponsors!

The CASNM would like to thank the following sponsors for their support of the 2013 CASNM annual meeting.



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We pledge your support of our own society and increase your visibility! Make sure our society members remember and promote your company's products and services.

If you are interested in sponsoring the 2014 CASNMMI annual meeting and/or setting up awards for Chinese scientists/physicians in the fields of nuclear medicine and/or molecular imaging, please fill out the sponsorship application form at the end of this newsletter.

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Future Nuclear Medicine and Molecular Imaging Meetings

WMIC 2013 Annual Meeting
September 18-21, 2013
Savannah, Georgia

2nd International Molecular Imaging Summit
October 30-November 1, 2013
Xiamen, China

First Global Conference of Chinese Professionals in Nuclear Medicine and Molecular Imaging
November 1-3, 2013
Xiamen, China

SNMMI 2014 Mid-Winter Meeting
February 6–9, 2014
Palm Springs, California

SNMMI 2014 Annual Meeting
June 7–11, 2014
St. Louis, Missouri

CASNMMI 2014 Annual Meeting
June 9, 2014
St. Louis, Missouri

CASNMMI Newsletter is an official quarterly publication of the Chinese American Society of Nuclear Medicine and Molecular Imaging.

Newsletter Editor:

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(chen9647@gmail.com)

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CASNMMI Membership Application Form

(Items marked with * are required information Please fill in and email it back to chen9647@gmail.com together with membership dues by a check in US dollars payable to the Chinese American Society of Nuclear Medicine and Molecular Imaging (CASNMMI) mailed to Xiaoyuan Chen, PhD at 10901 Lamplighter Lane, Potomac, MD 20854, USA.)

*Last Name: _____ *First Name: _____ *Middle Initial: _____

*Chinese Name: _____

Gender (please type "M" for male and "F" for female): _____

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US SNMMI or WMIC Full Member ("Yes" or "No"): _____ If yes, membership #: _____

Affiliation: _____

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*Membership Category (please type in only one category as LFM, FM, LAM, AM, TM):

Lifetime¹ Full² Member (LFM): \$50

Full² Member (FM): \$50

Lifetime¹ Associate³ Member (LAM): \$50

Associate³ Member (AM): \$50

Trainee⁴ Member (TM): \$0

¹Lifetime membership is only applied to anyone who has previously designated as a lifetime member of CASNMMI.

²Full membership is entitled to have free entrance to dinner or lunch during annual CASNMMI meeting.

³Associate membership applies to those who are not members of the Society of Nuclear Medicine and Molecular Imaging (SNMMI) or the World Molecular Imaging Congress (WMIC) is also entitled to have free entrance to dinner or lunch during annual CASNMMI meeting.

⁴Trainee membership is granted pending on the supply of a status verification letter signed by the program director. Trainee membership is entitled to have free entrance to annual CASNMMI meeting but will need to pay nominal fees for dinner or lunch during annual CASNMMI meeting.

Chinese American Society of Nuclear Medicine and Molecular Imaging CASNMMI)

**2014 Annual Meeting
Sponsorship Agreement**

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