



Thursday, November 1, 2018

CHANG YUNG-FA FOUNDATION International Convention Center

09:00-10:30	<b>Plenary Lecture</b>	<b>R 1001</b>
09:00-09:15	<b>Effect of the change in a reactor power on the response of murine solid tumors in vivo, also referring to that in quiescent tumor cells, and its clinical significance in boron neutron capture therapy (BNCT)</b> <b>Shin-ichiro Masunaga</b> , Particle Radiation Biology, Division of Radiation Life Science, Institute for Integrated Radiation and Nuclear Science, Kyoto University, Japan.	
09:15-09:30	<b>The therapeutic efficacy and radiobiological effects of boric acid-mediated BNCT in a VX2 multifocal liver tumor-bearing rabbit model</b> <b>Fong-In Chou</b> , BNCT Research and Development Consultant, Nuclear Science and Technology Development Center (NSTDC), National Tsing Hua University (NTHU), Taiwan	
09:30-09:45	<b>The biological properties of BNCR and accelerator-based BNCT system installed in NCC</b> <b>Mitsuko Masutani</b> , Nagasaki University/ Dept. Frontier Life Sci., Grad. Sch. Biomed. Sci., National Cancer Center Research Institute, Japan	
09:45-10:00	<b>Using Promoters of Granzyme B or NF-<math>\kappa</math>B driven reporter genes combined with Multimodalities of Molecular Imaging for Theranostics of BNCT</b> <b>Jeng-Jong Hwang</b> , National Yang-Ming University/Biomedical Imaging and Radiological Sciences, Taiwan	
10:00-10:15	<b>Some open problems for the improvement and the expansion of BNCT</b> <b>Ignacio Porras Sánchez</b> , Department of Atomic, Molecular & Nuclear Physics, University of Granada, Spain	
10:15-10:30	<b>The Design of the Xiamen Humanity Hospital BNCT Center</b> <b>Yuan-Hao Liu</b> , Dept. of Nuclear Science and Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China	
10:30-10:50	<b>Coffee Break</b>	<b>R1010</b>
10:50-12:05	<b>Plenary Lecture</b>	<b>R 1001</b>



10:50-11:05	<p><b>In vivo Evaluation system for accelerator-based Boron Neutron Capture Therapy</b></p> <p><b>Kazuyo Igawa</b>, J Okayama University Neutron Therapy Research Center, Japan</p>
11:05-11:20	<p><b>Zebrafish as a cancer model system for neutron capture therapy research</b></p> <p><b>Yung-Jen Chuang</b>, Department of Medical Science, National Tsing Hua University, Taiwan</p>
11:20-11:35	<p><b>Bio-distribution of Boron-containing Oligopeptide/Deptide Analogs using DAHMI Tagging System</b></p> <p><b>Po-Shen Pan</b>, Department of Chemistry, Tamkang University, Taiwan</p>
11:35-11:50	<p><b>In Vivo Imaging Evaluation of a Neuropeptide (NPY) Derivative Containing Boron-rich for Breast Tumor Therapy</b></p> <p><b>Ming-Hsin Li</b>, Institute of Nuclear Energy Research, Taiwan</p>
11:50-12:05	<p><b>Cellular uptake of BPA: homogeneous or heterogeneous in a population of cells</b></p> <p><b>Jen-Kun Chen</b>, Institute of Biomedical Engineering &amp; Nanomedicine, National Health Research Institutes, Taiwan</p>

12:10-13:00	<b>Lunch</b>
13:00-14:00	<b>Election Board Coun.</b>

14:00-15:30	<b>Poster Viewing &amp; Presentation</b>	<b>R1010</b>
<b>Poster Group I (Clinical matters / Miscellaneous / Physics &amp; Engineering)</b>		
14:00	<p><b>Preliminary study of the impact on dose distribution due to the reproducibility of shoulder position in sitting-positioned BNCT for head and neck cancer</b></p> <p><b>Ryohei Kato</b>, Southern Tohoku BNCT Research Center, Koriyama, Fukushima, Japan</p>	
14:06	<p><b>Impact of inter-observer variability for mucosal delineation on the dosimetry of boron neutron capture therapy for head and neck cancer</b></p> <p><b>AkihikoTakeuchi</b>, Southern Tohoku BNCT Research Center, Koriyama, Fukushima, Japan</p>	



14:12	<b>Study on application of BNCT to synovial sarcoma</b> <b>Takuya Fujimoto</b> , Department of Orthopedic Surgery, Hyogo Cancer Center, Akashi, Japan
14:18	<b>Treatment of Major Cervical Artery Invasion of Head and Neck Cancer with Boron Neutron Capture Therapy</b> <b>Masatoshi Ohmae</b> , Oral and Maxillofacial Surgery, Rinku General Medical Center, Japan
14:24	<b>Current Status of Neutron Capture Therapy in Colombia</b> <b>Jose Sarta Fuentes</b> , Physics Department, Pontifical Javeriana University, Bogota, Colombia
14:30	<b>Treatment Result of Combined Volumetric-Modulated Arc Therapy (VMAT) and Simultaneously Integrated Inner-escalated Boost (SIEB) Radiotherapy in a Patient with Locally Advanced Maxillary Sinus Carcinoma.</b> <b>Li-Wen Huang</b> , Department of Radiation Oncology, Dalin Tzu Chi Hospital, Buddhist Tzu Chi Medical Foundation, Taiwan
14:36	<b>Pilot study of Gadolinium Accumulation in Tumour with Intra-arterial Administration of Gadoteridol-Entrapped Water-in-Oil-in-Water Emulsion in VX-2 Rabbit Hepatic Cancer Model for Neutron Capture Therapy</b> <b>Masashi Yanagawa</b> , Department of Veterinary Medicine, Obihiro University of Agriculture and Veterinary Medicine, Hokkaido, Japan
14:42	<b>Neutron field characterization for Neutron Capture Therapies</b> <b>Marine Herv</b> , Laboratory of Subatomic Physics & Cosmology, Grenoble, France
14:48	<b>Monte Carlo simulation-based design for an electron-linac-based neutron source for boron neutron capture therapy</b> <b>Fujio Hiraga</b> , Division of Quantum Science and Engineering, Graduate School of Engineering, Hokkaido University, Japan
14:54	<b>Measurement of gamma-ray dose and neutron activation in BNCT beams using TLD-200</b> <b>Wen-Chyi Tsai</b> , Institute of Nuclear Engineering and Science, National Tsing Hua University, Hsinchu, Taiwan
15:00	<b>Evaluation of neutron measurement system utilizing a LiCAF scintillator - optical fiber detector</b> <b>Kazuhiko Akita</b> , Osaka Medical College, Kansai BNCT medical center, Japan
15:06	<b>Installation of accelerator-based BNCT system at Kansai BNCT Medical Center</b> <b>Kazuhiko Akita</b> , Osaka Medical College, Kansai BNCT medical center, Japan



<b>Poster Group II (Physics &amp; Engineering)</b>	
14:00	<b>Rotary Type Beam profile monitor for Accelerator-Driven BNCT System</b> Keisuke Abo, Nagoya University, Nagoya, Japan
14:06	<b>Design of Neutron Moderation Assembly for A-BNCT</b> Sung Gyun Shin, Division of Advanced Nuclear Engineering, POSTECH, Pohang, Korea
14:12	<b>Results of the measurements of the <math>^{33}\text{S}(n,\alpha)^{30}\text{Si}</math> cross-section at CERN and ILL: application to NCT</b> Javier Praena, University of Granada, Spain
14:18	<b>Advances of the Characterization of Neutron Capture by Boron and Gadolinium Using Geant4</b> Jose A. Sarta, Physics Department, Pontificia Universidad Javeriana, Bogota, Colombia
14:24	<b>Accelerator based BNCT system in Nagoya University -Development of a sealed lithium target-</b> Sachiko Yoshihashi, Graduate School of Engineering, Nagoya University, Nagoya, Japan
14:30	<b>Beam Dosimetry Equipment for the Nubeam BNCT Suite at Helsinki University Hospital Cancer Center</b> Iiro Auterinen, Neutron Therapeutics Finland Oy, Helsinki, Finland
14:36	<b>High-accuracy measurement of the epithermal neutron flux of a <math>^7\text{Li}(p,n)^7\text{Be}</math>-based BNCT neutron source with activation monitors</b> Xingcai Guan, School of Nuclear Science and Technology, Lanzhou University, Gansu, China
14:42	<b>Neutron Photon irradiation damage analysis of human tissue for BNCT based on Geant4</b> Xiaoping Zhou, China Institute of Atomic Energy, Beijing, China
14:48	<b>BNCT neutron beam design based on the use of a plasma focus neutron source</b> Yaser Kasesaz, Nuclear Science and Technology Research Institute (NSTRI), Tehran, Iran
14:54	<b>Neutron beam design for BNCT based on the spallation neutron source</b> Yaser Kasesaz, Nuclear Science and Technology Research Institute (NSTRI), Tehran, Iran



15:00	<b>The Physical Design of a Modular Neutron Source Assembly for BNCT</b> <b>Wei Zhang</b> , Department of Reactor Engineering and Technology, China Institute of Atomic Energy, Beijing, China
15:06	<b>A microfluidics cooling system for accelerator-based neutron target</b> <b>Weiqliang Chen</b> , Institute of Modern Physics, Chinese Academy of Sciences, China
15:12	<b>Physical Design of Modular Neutron Source Device for AB-BNCT</b> <b>Yan Li</b> , China Institute of Atomic Energy, China
<b>Poster Group III (Radiation biology / Chemistry &amp; Pharmacology)</b>	
14:00	<b>Biodistribution of Boric Acid (BA) and Boronphenylalanine (BPA) for BNCT in the hamster cheek pouch oral cancer model</b> <b>Veronica A. Trivillin</b> , National Atomic Energy Commission, Argentina
14:06	<b>Optimization of The Classical Chemical Cancerization Protocol in the Hamster Cheek Pouch to Study BNCT for Oral Cancer</b> <b>Andrea Monti Hughes</b> , National Atomic Energy Commission, Argentina
14:12	<b>Novel Oral Cancer &amp; Precancer Experimental Model for Simultaneous Long Term Evaluation of the Effect of BNCT on Tumors and Precancerous Tissue</b> <b>Andrea Monti Hughes</b> , National Atomic Energy Commission, Argentina
14:18	<b>Radiotoxicity Induced by BNCT Mediated by BPA: A Comparative Analysis in an Oral Cancer Model Employing Three Different Cancerization Protocols</b> <b>Andrea Monti Hughes</b> , National Atomic Energy Commission, Argentina
14:24	<b>Calculation of vital head and neck organ dose during BNCT at TRR using ZUBAL head phantom</b> <b>Yaser Kasesaz</b> , Nuclear Science and Technology Research Institute (NSTRI), Tehran, Iran
14:30	<b>Computational study of the BNCT of the liver cancer at Tehran Research Reactor</b> <b>Yaser Kasesaz</b> , Nuclear Science and Technology Research Institute (NSTRI), Tehran, Iran



14:36	<p><b>Investigation of the biological properties of neutron beam of accelerator-based BNCT system with intestinal crypt regeneration and ICP-AES</b></p> <p><b>Shoji Imamich</b>, Division of Boron Neutron Capture Therapy, Exploratory Oncology Research &amp; Clinical Trial Center, National Cancer Center, Tokyo, Japan</p>
14:42	<p><b>Influence of oxygen status on therapeutic effect of boron neutron capture therapy in human tumor cells</b></p> <p><b>Takaomi Harada</b>, Southern Tohoku BNCT Research Center, Koriyama, Fukushima, Japan</p>
14:48	<p><b>Boron-rich oil-in-water emulsions as drug nanocarriers for boron neutron capture therapy</b></p> <p><b>Krishna Reddy Pulagam</b>, Radiochemistry and Nuclear Imaging, CIC biomaGUNE, San Sebastian, Spain</p>
14:54	<p><b>Functional evaluation of kojic acid-modified carborane developed as a boron drug for melanoma BNCT</b></p> <p><b>Satoshi Dowaki</b>, Graduate School of Engineering, Osaka City University, Japan</p>
15:00	<p><b>Development of S-Alkyl-closo-Dodecaborate-Containing Amino Acids as Boron Carrier for BNCT</b></p> <p><b>Yoshihide Hattori</b>, Research Center for Boron Neutron Capture Therapy, Osaka Prefecture University, Japan</p>
15:06	<p><b>Preparation methods of liposome which encapsulated boron compound at high concentration and efficiency.</b></p> <p><b>Makoto Shirakawa</b>, Department of Pharmaceutical Sciences, University of Fukuyama, Hiroshima, Japan</p>
15:12	<p><b>Development of boron-loaded Microbubbles for Focused Ultrasound Triggered Brain Tumor Drug Delivery</b></p> <p><b>Ta-Wei Wang</b>, Department of Biomedical Engineering and Environmental Sciences, National Tsing Hua University, Hsinchu, Taiwan</p>
15:24	<p><b>Synthesis and investigation of carborane coumarins as potential agents for BNCT</b></p> <p><b>Ilya Korolkov</b>, The Institute of nuclear physics, Astana, Kazakhstan</p>
15:30	<p><b>Evaluation of beta-emitting devices as a complementary tool of BNCT for the treatment of superficial cancer</b></p> <p><b>Sara Gonzalez</b>, Comision Nacional de Energia Atomica (CNEA), Argentina</p>



15:36	<b>In vitro studies of the DNA damage response (DDR) induced by BNCT</b> Sara Gonzalez, Comision Nacional de Energia Atomica (CNEA), Argentina
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15:30-15:50	<b>Coffee Break</b> <span style="float: right;"><b>R1010</b></span>
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15:50-17:00	<b>Parallel Session</b> <span style="float: right;"><b>R1001, R1002, R1003</b></span>
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<b>Physics &amp; Engineering</b>	<b>R1001</b>
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15:50	<b>Computational evaluation of dose distribution including radiation exposure to ambient organs for BNCT treatment combined with X-ray therapy or proton beam therapy</b> Kenta Takada, Faculty of Medicine, University of Tsukuba, Japan
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16:02	<b>Accelerator Based Neutron Capture Therapies in France</b> Daniel Santos, LPSC, Université Grenoble-Alpes, Grenoble, France
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16:14	<b>BNCT Facility at Maria Reactor – Final Kick-Off: Beam Test, Opening Research Station, Construction of Building for Reactor Laboratory for Biomedical Research and Progress in Formulation Programme of “Neobor” Scientific Platform</b> Michal Gryzinski, National Centre for Nuclear Research, Otwock, Poland
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16:26	<b>Comparison of Shielding Calculation Methods for an AB-BNCT Facility Based on the Be(p,xn) Reaction with 30 MeV Protons</b> Bo-Lun Lai, Institute of Nuclear Engineering and Science, National Tsing Hua University, Hsinchu, Taiwan
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16:38	<b>Opportunities for therapeutic beam monitoring with single-moderator spectrometers</b> Roberto Bedogni, INFN-LNF (Frascati National Laboratories), Frascati, Italy
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<b>Radiation biology</b>	<b>R1001</b>
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15:50	<b>5-aminolevulinic acid can sensitize malignant glioma to boronophenylalanine-based boron neutron capture therapy</b> Masao Fukumura, Department of Neurosurgery and Endovascular Neurosurgery, Osaka Medical College, Japan
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16:02	<b>Evaluation of folate receptor targeted novel boron compound for boron neutron capture therapy using rat brain tumor model</b> <b>Takuya Kanemitsu</b> , Department of Neurosurgery, Osaka Medical College, Takatsuki-shi, Osaka, Japan	
16:14	<b>Radiobiology experiments for thermal and epithermal RBE factors in BNCT</b> <b>Maria Pedrosa-Rivera</b> , Universidad de Granada, Granada, Spain; Institut Laue-Langevin, Grenoble, France	
<b>Chemistry &amp; Pharmacology</b>	<b>R1001</b>	
15:50	<b>A novel boron-derived tyrosine serves as a theranostic agent for positron emission tomography and boron neutron capture therapy</b> <b>Zhibo Liu</b> , College of Chemistry and Molecular Engineering, Peking University, Beijing, China	
16:02	<b>Rational Designed Boronated Porphyrin Loaded Micelle Meet the Shortcoming of Small Molecule Boron Agents for Boron Neutron Capture Therapy</b> <b>Zhibo Liu</b> , College of Chemistry and Molecular Engineering, Peking University, Beijing, China	
16:14	<b>An innovative therapeutic approach for malignant mesothelioma treatment based on the use of Gd/Boron multimodal probes for MRI guided BNCT</b> <b>Simonetta Geninatti Crich</b> , Department of Molecular Biotechnology and Health Sciences, University of Torino, Torino, Italy	
16:26	<b>Boron Delivery Agents for Neutron Capture Therapy of Cancer</b> <b>Peng Mi</b> , Department of Radiology, Center for Medical Imaging, State Key Laboratory of Biotherapy and Cancer Center, West China Hospital, Sichuan University, Chengdu, Sichuan, China	
17:00-18:00	<b>General Assembly</b>	