

Friday

8:30	Welcome Messages	Chair: Koji Ono and Leila Vaalavirta
9:00	Invited talk 1: Shin Ichi Miyatake <i>Recent Experience of BNCT for Angiosarcoma and Breast Cancer in KUR and Road to Investigator-lead Clinical Trial of Accelerator-Based BNCT for High-grade Meningioma</i>	
	Session 1	
9:30	Naonori Ko <i>Evaluation of a treatment planning system used for BNCT at the Kansai BNCT Medical Center</i>	
9:45	Hiroyuki Michiue <i>New peptide Drug Delivery System with BSH toward future BNCT clinical application</i>	
10:00	Coffee Break sponsored by NEUBORON MEDTECH LTD	
	Session 2	Chair: Stuart Green and Augustina Portu
10:30	Hiroshi Igaki <i>A clinical trial of lithium-targeted accelerator-based boron neutron capture therapy at National Cancer Center Hospital</i>	
10:45	Tooru Anfoh <i>Preclinical study of boron neutron capture therapy for bone metastasis using a human lung cancer cell line</i>	
11:00	Sadaaki Shiraishi <i>A study on development of remote-changeable Bonner sphere spectrometer for characterization in BNCT irradiation field</i>	
11:15	Kiyotaka Akabori (hold by H. Tanaka) <i>Calibration of real-time neutron monitor for BNCT utilizing a national neutron standard field</i>	
11:30	Yuya Kumagai <i>Measurement of dose distribution in water phantom using twin small ionization chambers for Boron Neutron Capture Therapy</i>	
11:45	Tokiya Inoue <i>Development of Gamma-ray Dosimeter Using Radio-Photoluminescence Glass Dosimeter and Gamma-ray Filter in A Neutron/Gamma-ray Mixed Field for BNCT</i>	
12:00	Lunch sponsored by Neutron Therapeutics Inc. & BEC	
	Session 3	Chair: Tiina Seppälä and Hiroaki Kumada

13:00	Filip Ekholm <u>Synthesis of glycoconjugates for BNCT</u>			
13:15	Hanna Koivunoro <u>Comparison of RBE doses with the photon iso-effective dose model for predicting the normal tissue complication probability in boron neutron capture therapy (BNCT) for head and neck cancer patients</u>			
13:30	Liisa Porra <u>Current status of the accelerator based BNCT facility at Helsinki University Hospital</u>			
13:45	Maria Pedrosa-Rivera <u>Neutron irradiations of in-vitro samples at Institut Laue-Langevin</u>			
14:00	Pablo Torres-Sánchez <u>Measurement of the $^{14}\text{N}(n,p)$ reaction for BNCT dose calculations</u>			
14:30	Coffee Break			
	Poster Session 1	Chair: Timofey Bykov and Laroslav Kolesnikov	Poster Session 2	Chair: Nikita Smolnikov and Takahiro Nomoto
14:45	Akihisa Ishikawa <u>Evaluation of Beam Quality Using an Optical Fiber-based Neutron Detector</u>		Keita Okazaki <u>Investigation of a prompt gamma-ray imaging detector with an 8 x 8 array $\text{LaBr}_3(\text{Ce})$ scintillator and MPPC for Boron Neutron Capture Therapy</u>	
14:52	Akinori Sasaki <u>Development of new bolus for BNCT by C-BENS -Irradiation test of 3D printed foot phantom-</u>		Makoto Shirakawa <u>Development of novel boron cluster conjugated PEG derivative for BNCT</u>	
14:59	Alexander Zaboronok <u>Development of complex boron compounds for treatment and absorbed dose evaluation during BNCT</u>		Martyna Araszkiewicz <u>Modeling of the radiation situation in the rooms at BNCT research post using the MCNP code</u>	
15:06	Alexey Koshkarev <u>Implementation of the radiation-resist automation system for BNCT</u>		Mikhail Anikin <u>Design of Compact Beam Shutter for Biological Shielding on IRT-T Reactor for BNCT Applications</u>	
15:13	Bong Hwan Hong <u>High power rotating tube target for BNCT</u>		Rong-Jiun Sheu <u>Neutron spectrum determination and beam characterization at THOR-BNCT by multiple foil activation technique</u>	
15:20	Changran Geng <u>Microdosimetry and Mechanistic model based analysis of biological effectiveness for boron neutron capture therapy</u>		Sachiko Yoshihashi <u>Accelerator-based BNCT system in Nagoya University (2) -Present Performance-</u>	

15:27	Chao Wang <u>The Design of Beam Monitoring System of the Xiamen Humanity Hospital BNCT Center</u>	Setareh Fatemi <u>Preliminary study of the shielding for a CdZnTe based SPECT-BNCT imaging system in an aBNCT treatment room</u>
15:34	Chawon Park <u>Feasibility study of Beam Shape Assembly with PHITS on $^9\text{Be}(d,n)^{10}\text{B}$ reaction</u>	Shingo Tamaki <u>Experimental test of a liquid-moderator-based neutron spectrometer for low energy neutrons</u>
15:41	Chiara Magni <u>Experimental and computational studies for the design of a BNCT facility based on proton accelerator and Be target</u>	Sun-Hong Min <u>Recent Research Trends on Accelerator-Based BNCT in KIRAMS</u>
15:48	Hikari Nishimura <u>Experimental Examination of Real-time Gamma-ray Spectrum / Dose Monitor</u>	
	Session 4	Chair: Liisa Porra and Ignacio Porras
16:00	Hiroaki Kumada <u>Development status of the iBNCT device as a linac-based neutron source of the University of Tsukuba</u>	
16:15	Akihiko Masuda <u>Neutron spectral fluence measurements of BNCT beams using Bonner sphere spectrometer</u>	
16:30	Takao Tsurubuchi <u>In vivo Evaluation of Novel Boron containing compound A-1 for BNCT</u>	
16:45	Kei Nakai <u>Study on Application of BNCT to skin malignant melanoma in Japan</u>	
18:00 -20:00	Excursion to BNCT Facility (sign up at the registration desk)	
Saturday		
9:00	Invited talk 2 : Garth Cruickshank Towards a clinical programme for BNCT: biological targeting	Chair: Leena Kankaanranta and David Nigg
	Session 5	

9:30	Chien-Hsuan Chan <i><u>Patients Activation Following Boron Neutron Capture Therapy at Tsing Hua Open-pool Reactor in Taiwan</u></i>	
9:45	Yi-Ying Pan <i><u>Application of Boron Neutron Capture Therapy as Salvage treatment to Recurrent Thyroid Papillary Carcinoma</u></i>	
10:00	Yoshio Imahori <i><u>The possible recovery process of higher brain functions after Amyloid β fragmentation by BNCT in Alzheimer's disease</u></i>	
10:15	Natsuko Kondo <i><u>Take up of Boronophenylalanine by glioma stem like cells in vitro and vivo</u></i>	
10:30	Coffee Break sponsored by Stella Pharma Corporation	
	Session 6	Chair: Maria Pedrosa Rivera and Alexander Zaboronok
11:00	Agustina Portu <i><u>Neutron autoradiography to study ^{10}B microdistribution in lung</u></i>	
11:15	Lucas Provenzano <i><u>Comprehensive benchmarking strategies for BNCT beams based on predicted clinical outcome</u></i>	
11:30	Marcela Alejandra Garabalino <i><u>Ongoing translational studies of therapeutic efficacy of BNCT/GB-10 and BNCT/GB-10+Electroporation for oral cancer in the RA-1 facility</u></i>	
11:45	Damian Kaniowski <i><u>Nanostructures of conjugates of antisense oligonucleotides and boron clusters as potential carriers for boron neutron capture therapy (BNCT)</u></i>	
12:00	Edyta Michas <i><u>The possibility of using 3D printing technology in research on BNCT</u></i>	
12:15	Lunch sponsored by Tae Life Sciences	
	Session 7	Chair: Martyna Araszkievicz and Alexandr Makarov
13:15	Nicoletta Protti <i><u>State of art of the BNCT-SPECT project at Pavia University and INFN</u></i>	
13:30	Chunhui Gong <i><u>Preliminary study of a 3D-CZT based Single-stage Compton Camera for BNCT therapeutic dose monitoring</u></i>	
13:45	Diego Alberti <i><u>Carborane based Carbonic Anhydrase IX inhibitors: a potential target for BNCT of malignant pleural mesotheliomas and breast cancer</u></i>	
14:00	Hyegang Chang <i><u>A Deterministic Dose Calculation Algorithm Using Convolution/superposition method for Treatment Planning System of Boron Neutron Capture Therapy</u></i>	
14:15	Kazuki Tsuchida	

	<u>Accelerator-based BNCT system in Nagoya University (1) - Project status -</u>			
14:30	Shogo Honda <u>Development of a Sealed Lithium Target for BNCT in Nagoya University</u>			
14:45	Coffee Break			
	Poster Session 3	Chair: Diego Alberti and Akihiko Masuda	Poster Session 4	Chair: Keita Okazaki and Lucas Provenzano
15:00	Agustina Portu <u>Tissue Imprints in CR-39 and Lexan to Increase Spatial Resolution of Neutron Autoradiography</u>		Iaroslav Kolesnikov <u>Study of the influence of space charge on proton beam transport from an accelerator to a neutron target</u>	
15:07	Ian Postuma <u>Beam shaping assembly optimization by maximizing the uncomplicated tumor control probability on a cylindrical phantom</u>		Ilsung Cho <u>Simulation Study of Beam Shaping Device for Accelerator based BNCT</u>	
15:14	Ian Postuma <u>Evaluation of the therapeutic consequences of patient movement during BNCT treatment for the INFN RFQ epithermal neutron beam</u>		Kamila Maliszewska-Olejniczak <u>Biological effects of neutron mixed-beam irradiation for boron neutron capture therapy on cell survival and DNA double-strand breaks in cultured colon cancer cells</u>	
15:21	Hiroyuki Nakamura <u>Development of Cyclic RGD-functionalized Maleimide-closo-dodecaborate Albumin Conjugate (cRGD-MID-AC) as a Tumor Targeting Boron Carrier</u>		Valeria Monti <u>Diagnostics and spectrometers for the BNCT field characterization tested at the e LiBANS facility</u>	
15:28	Takahiro Nomoto <u>Boosting Therapeutic Potential of p-Boronophenylalanine Using Biocompatible Polymers</u>		Yoshitaka Matsumoto <u>Evaluation of a phenylboronic acid-decorated, sialic acid-targeting novel BNCT agent against B16 melanoma-bearing mouse model</u>	
15:35	Takahiro Nomoto <u>BPA Delivery System Utilizing Sugar-Modified Polymers Forming Stable Boronate Esters</u>		Alexandr Makarov <u>System of a Thin Lithium Layer Deposition for an Accelerator Based Neutron Source</u>	
15:42	Yoshio Imahori <u>BNCT for Alzheimer's disease: Synthesis of boron-containing compounds binding to amyloid beta plaques and in vitro experimental basis</u>		Jia-Cheng Lee <u>Comparison of MCNP calculation result between THOR and modified source file</u>	
15:49	Hiroki Tanaka <u>Development of neutron irradiation field for cells and small animals using cyclotron-based epithermal neutron</u>		Timofey Bykov <u>Automatization of gamma-spectrometry diagnostics on accelerator neutron source for BNCT</u>	

	<u>source</u>	
15:56	Lucas Provenzano <u>Web toolbox for BNCT treatment assessments</u>	Tomohiro Naitou <u>A Fundamental Study on Energy Decomposition and Current-mode SPECT for B-10 Concentration Estimation in Boron Neutron Capture Therapy</u>
19:00	Banquet Dinner (Plaza Restaurant, Hotel Radisson Plaza, Mikonkatu 23)	
Sunday		
9:00	Invited talk 3: Amanda Schwint <i>Translational and clinical-veterinary BNCT studies for head and neck cancer</i>	Chair: Filip Ekholm and Nicoletta Protti
	Session 8	
9:45	Takeshi Nagasaki <u>Cellular uptake mechanism of kojic acid modified o-carborane as a boron drug toward melanoma-targeting BNCT</u>	
10:00	Mitsunori Kiriata <u>Development of S-Alkyl-closo-Dodecaborate-Containing Amino Acids as Boron Carrier for BNCT</u>	
10:15	Coffee Break	
	Session 9	Chair: Ian Postuma and Kamila Maliszewska-Olejniczak
10:45	Shaojuan Wu <u>The dosimetric impact of respiratory motion for lung cancer treatment in boron neutron capture therapy</u>	
11:00	Xinxin Zhang <u>Assessment of secondary cancer risk for patients treated with BNCT</u>	
11:15	Chad Lee <u>TAE Life Sciences' Clinical Neutron Beam System for BNCT</u>	
11:30	Yuan-Hao Liu <u>The Radiation Shielding Design of Xiamen Humanity Hospital BNCT Center</u>	
11:45	Lunch sponsored by Stella Pharma Corporation	
	Session 10	Chair: Iiro Auterinen and Valeria Monti
13:00	Sergey Taskaev <u>Novosibirsk accelerator neutron source</u>	

13:15	Nikita Smolnikov <i>Design of BSA for Experimental Channel HEC-1 with Compact Beam Shutter at the IRT-T Reactor</i>
13:30	Aleksandr Kichigin <i>Accelerator-based boron neutron capture therapy on human glioblastoma U87 - in vitro, in vivo experiments</i>
13:45	Evgeniia Sokolova <i>Observation of the luminescence on the lithium neutron generating target under proton beam irradiation</i>
14:00	Closing Seremony

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Travel Grants are sponsored by **Stella Pharma Corporation**, **TAE Life Sciences** and **BEC**

Kent Riley Award is sponsored by **Neutron Therapeutics Inc.**