
Program

1st day (19th March)

8:45 -	The hall & the reception desk (at 10F lobby) opening
9:30 -	Opening address Dr. Wolfgang Weiss (ex-UNSCEAR Chair) Overview of this workshop Dr. Yoshiharu Yonekura (ex- NIRS President, ex-UNSCEAR Chair)
9:45 - 11:45	Morning session 1.1. Dose and Dose-rate Effects Chairperson: Dr. Ulrike Kulka (BfS) 1M01 Dose- and Dose-Rate Effects of Ionizing Radiation for Cancer Incidence and Life-Shortening. Dr. Gayle Woloschak (Northwestern University) 1M02 Life span and tumorigenesis in mice exposed to continuous low dose-rate gamma rays. Dr. Ignacia Braga-Tanaka (Institute for Environmental Sciences) 1M03 How high can you go, radionuclide therapy is effective at low dose rate. Dr. Mark Konijnenberg (Erasmus MC)
11:45 - 13:00	Lunch break
13:00 - 15:30	Afternoon session I 1.2. From Mutation to Cancer Chairperson: Dr. Masako Bando (Kyoto University, Osaka University) 1A11 Overview: The divergence of approaches from molecular biology and macro level. Dr. Masako Bando (Kyoto University, Osaka University)

1A12	<p>Responses to low dose radiation in vivo: DNA damage, aging, and immune regulation.</p> <p>Dr. Yi Wang (CNL)</p>
1A13	<p>Dose-rate effects of lymphocyte chromosome aberrations in chronically irradiated mice after age adjustment.</p> <p>Dr. Kimio Tanaka (Institute for Environmental Sciences)</p>
1A14	<p>WAM model - a dynamic equilibrium model for the dose-rate effect.</p> <p>Dr. Yuichi Tsunoyama (Kyoto University)</p> <p>Panel discussion "Overcome the divergence of approaches of molecular biology from macro level."</p>
15:30 - 16:00	Coffee break
16:00 - 18:00	<p>Afternoon session II</p> <p>1.3. Activities of the Consortium for Medicine, Chemistry and Physics at Osaka University</p> <p>Chairperson: Dr. Atsushi Shinohara (Osaka University)</p> <p>Opening</p> <p>Dr. Atsushi Shinohara (Graduate School of Science, Osaka Univ.)</p>
16:05 - 16:20	<p>Medicine and science collaborative research for targeted alpha therapy in Osaka University.</p> <p>1A21</p> <p>Dr. Koichi Fukase (Graduate School of Science, Osaka Univ.)</p>
16:20 - 16:45	<p>Production and isolation of At-211 for targeted alpha therapy at Osaka University.</p> <p>1A22</p> <p>Dr. Zijian Zhang (Graduate School of Science, Osaka Univ.)</p>
16:45 - 17:10	<p>Radiolabeling of small molecules with astatine(²¹¹At) for theranostics.</p> <p>1A23</p> <p>Dr. Yoshifumi Shirakami (Graduate School of Medicine, Osaka Univ.)</p>
17:10 - 17:35	<p>Preparation of novel anticancer drugs using At-211.</p> <p>1A24</p> <p>Dr. Kazuya Kabayama (Graduate School of Science, Osaka Univ.)</p>
17:35 - 18:00	<p>Imaging of the targeted alpha therapy for the clinical application.</p> <p>1A25</p> <p>Dr. Tadashi Watabe (Graduate School of Medicine, Osaka Univ.)</p>

2nd day (20th March)

9:00 - 11:30	<p>Morning session</p> <p>2.1. Medical Database</p> <p>Chairperson: Dr. Nobuyuki Osakabe (Hitachi, Ltd.)</p> <p>2M01 Biomarkers and radiation therapy for patients with head and neck cancer. Dr. Pierre Saintigny (Cancer Research Centre of Lyon)</p> <p>2M02 Present status of patient dose in large part of the world. Dr. Madan Rehani (MGH, HMS/IAEA)</p> <p>2M03 Millennial medical record project - Toward establishment of authentic Japanese version EHR and secondary use of medical data – Dr. Hiroyuki Yoshihara (Kyoto University, University of Miyazaki)</p> <p>Panel discussion “How can medical database be effectively used in the BER study and practice?” Panelist: Dr. Nobuyuki Osakabe (Hitachi, Ltd.) & all speakers</p>
11:30 - 13:00	Lunch break
13:00 - 15:00	<p>Afternoon session I</p> <p>2.2. Imaging Techniques for Radiotherapy and Cancer diagnosis (Big data and diagnosis, treatment)</p> <p>Chairperson: Dr. Jun'ichi Kotoku (Teikyo University)</p> <p>2A11 Potentials of Radiomics in Cancer Treatment. Dr. Hidetaka Arimura (Kyushu University)</p> <p>2A12 Imaging database and radiomics. Dr. Akihiro Haga (Tokushima University)</p> <p>2A13 Radiomics on MRI field. Dr. Koji Sakai (Kyoto Prefectural University of Medicine)</p>

15:00 - 15:30	Coffee break	
15:30 - 17:30	<p>Afternoon session II</p> <p>2.3. Radiation Biology and Medical Use</p> <p>Chairperson: Dr. Akihiro Haga (Tokushima University)</p> <p>2A21 Contribution of biological analysis platform to optimize the medical use of ionizing radiation. Dr. Ulrike Kulka (BfS)</p> <p>2A22 Quantitative personalized oncology - Mathematical models for precision radiotherapy. Dr. Heiko Enderling (Moffitt Cancer Center)</p> <p>2A23 Medical radiation protection research strategies in Europe and the role of the medical physicist in Europe. Dr. Christoph Hoeschen (Otto-von-Guericke University)</p>	
18:00 - 19:30	Poster session	Room No.406 (4F)
19:30 - 21:30	Reception (Welcome meeting)	Salon (9F)

3rd day (21st March)

9:00 - 11:30	<p>Morning Session</p> <p>3.1. Presidential Session: International Cooperation in Biological Effects of Radiation</p> <p>Chairperson: Dr. Yoshiharu Yonekura (ex-UNSCEAR Chair)</p> <p>3M01 Understanding low dose radiation exposure effects : MELODI's views on developing international cooperation. Dr. Jacques Repussard (MELODI)</p> <p>3M02 Electric Power Research Institute International Dose Effect Alliance. Dr. Donald A. Cool (EPRI, IDEA)</p> <p>3M03 Low-Dose Radiobiology Program at Canadian Nuclear Laboratories: Past, Present and Future. Dr. Dmitry Klokov (CNL)</p> <p>3M04 Planning and Acting Network for Low Dose Radiation Research (PLANET) and promotion for integrated network in Japan. Dr. Yutaka Yamada / Dr. Yoshiya Shimada (QST, PLANET)</p> <p>3M05 JSPS committee "multidisciplinary research on the biological effects of radiation". Dr. Takahiro Wada (JSPS committee)</p> <p>Short talks on each organization / panel discussions</p>
11:30 - 13:00	Lunch break
13:00 - 15:00	<p>Afternoon session I</p> <p>3.2. Radiation Protection in Medicine</p> <p>3.2.1. Radiation induced cancer</p> <p>Chairperson: Dr. Yoshiya Shimada (QST)</p>

3A11	Radiation protection in therapy with radiopharmaceuticals. Dr. Makoto Hosono (Kindai University)
3A12	Experimental evaluation of the carcinogenic effect of carbon ions and neutrons in children. Dr. Tatsuhiko Imaoka (NIRS, QST)
3A13	Second cancer after radiotherapy. Dr. Jean-Marc Cosset (Amethyst Group, former ICRP C3 member)
15:00 - 15:30	Coffee break
15:30 - 17:30	<p>Afternoon session II</p> <p>3.2.2. New medical equipment for less radiation dose</p> <p>Chairperson: Dr. Makoto Hosono (Kindai University)</p> <p>3A21 Cancer risk from paediatric CT scanning. Dr. Elisabeth Cardis (Institut de Salut Global de Barcelona)</p> <p>3A22 Low-dose CT screening for lung cancer. Dr. Takeshi Nawa (Hitachi General Hospital)</p> <p>3A23 Development of low dose diagnostic CT. Dr. Takashi Tanaka (Canon Medical Systems)</p>
17:30 - 17:45	Closing Remarks