

**International Conference on Radiation Research: Impact on
Human Health and Environment (ICRR-HHE 2024)**

and

4th Biennial Meeting of Society for Radiation Research (SRR)

Nov. 22-24, 2024

All India Institute of Medical Sciences (AIIMS), Patna

SCIENTIFIC PROGRAM

NOV. 21, 2024, THURSDAY PRE-CONFERENCE SESSION (VENUE: Royal Bihar Hotel, Patna)	
18:00-19:00	: REGISTRATION AND MEET & GREET
19:00-20:00	: SPECIAL EVENING LECTURE The role of the Armed Forces Radiobiology Research Institute in Global Health Protection and Security CAPT Gerald Burke, AFRI, USA CHAIRPERSON: George Iliakis, University of Duisburg-Essen, Germany
20:00	: DINNER
NOV. 22, 2024, FRIDAY (DAY-1) (VENUE: AIIMS Auditorium, Patna)	
8:00-9:00	: REGISTRATION
9:00-9:30	: SRR A.R. GOPAL AYENGAR MEMORIAL ORATION LECTURE Logic and Necessities in the repair of IR-induced DSBs: Defining parameters George Iliakis, University of Duisburg-Essen, Germany CHAIRPERSON: K. P. Mishra, Founder President, SRR, Former-Head, RB&HSD, BARC, Mumbai, Former-VC, NGBU, Prayagraj
9:30-10:00	: SRR SPECIAL PLENARY LECTURE Swift Heavy-ion-based Radiation Biology Research at IUAC Avinash Pandey, IUAC, Delhi CHAIRPERSON: J. K. Singh, SS Hospital, Patna
10:00-11:40	: SESSION-I (Presidential Session): Radiation Oncology and Hyperthermia Chairperson: R. Bilimagga, President, SRR, HCG, Bangalore IL1: Clinical and preclinical evidence for the efficacy of concurrent hyperthermia and radiotherapy Hans Crezee, University of Amsterdam, The Netherlands

		<p>IL2: HIFU-Based Thermal Ablation and Histotripsy: Potential for Solid Tumor Therapy Ashish Ranjan, UT Southwestern Medical Center, USA</p> <p>IL3: Low dose radiation in Covid-19 pneumonia: A resurgent science Pritanjali Singh, AIIMS, Patna</p> <p>IL4: Exploring Lattice Radiotherapy: Clinical Benefits and Modern Applications Gautam Sarma, AIIMS, Guwahati</p> <p>IL5: Recent Developments and Updates in FLASH Radiotherapy S. D. Sharma, BARC, Mumbai</p>
11:40-13:00	:	INAUGURATION SESSION
13:00-14:00	:	LUNCH
14:00-15:10	:	SRR YOUNG SCIENTIST AWARD PRESENTATION
15:10-16:10	:	POSTER SESSION I
16:10-16:30		TEA
16:30-18:30	:	<p>SESSION-II: Radiation Protection and Radiation Countermeasure Approaches</p> <p>CHAIRPERSON: Sudhir Chandana, INMAS, Delhi</p> <p>PL1: Specific Biomarkers at Preterminal Stage of Acute Radiation Syndrome in Nonhuman Primate Model V.K. Singh, AFRRI, USA</p> <p>IL6: Modification of metabolic cell signaling to gain radio-resistance and obviating Radio-protection Anant Narayan Bhatt, INMAS, Delhi</p> <p>IL7: Radioprotective Effect of a New Herbal Composition, MH-30, and Its Supplementary Effect for Cancer Radiotherapy and Chemotherapy Sung Kee Jo, KAERI, South Korea</p> <p>IL8: Nuclear Radiobiology Research: Mechanism Guided Decorporation and Mitigation Approaches Amit Kumar, BARC, Mumbai</p> <p>IL9: Is there a genetic component of individual response to radiation? Andrzej Wojcik, Stockholm University, Sweden</p>
19:30	:	DINNER

NOV. 23, 2024, SATURDAY (DAY-2)

(VENUE: AIIMS Auditorium, Patna)

9:00-9:30	:	<p>PL2: Pan-FGFR inhibition induces EMT-based resistance and associates with clinical outcome in HNSCC Nils Cordes, OncoRay-National Center for Radiation Research in Oncology, Germany CHAIRPERSON: Satoshi Tashiro, Hiroshima University, Japan</p>
9:30-11:10	:	<p>SESSION-III: Tumor Radiosensitization by Targeted agents CHAIRPERSON: Avinash Pandey, IUAC, Delhi PL3: Targeted Therapies: The New Era of Personalized Medicine Ashwani Sood, PGIMER, Chandigarh IL10: Talazoparib exerts robust radiosensitization through differential regulation of distinct alternative end-joining pathways Aashish Soni, University of Duisburg-Essen Medical School, Germany IL11: High LET carbon ion (¹²C) combined with PARP inhibitor olaparib could be a promising approach of cancer therapy against highly aggressive human non-small lung cancer cells Utpal Ghosh, University of Kalyani, Kolkatta IL12: Proteomic insights in the chemo-radiation therapy resistant cervical cancer patients Richa Chauhan, Mahavir Cancer Sansthan and Research Centre, Patna IL13: ROS-Driven HIF1α/AURKA Signalling Axis triggers Acquirement of Radioresistance in Cervical Cancer Sutapa Mukherjee, CNCI, Kolkata</p>
11:10-11:30	:	<p>TEA BREAK</p>
11:30-13:10	:	<p>SESSION IV: Nanomedicine and Nuclear Medicine for Cancer radiotherapy CHAIRPERSON: Hans Crezee, University of Amsterdam, The Netherlands PL4: Radiation Research and Green Nanotechnology in the Discovery of a New Medical Modality: “Nano-Ayurvedic Medicine” Preclinical and Clinical Investigations Kattesh V. Katti, University of Missouri, USA IL14: Tumor microenvironment (TME) targeting radiopharmaceuticals: A significant change from conventional approaches for management of cancer Madhava B. Mallia, BARC, Mumbai IL15: Approach to improve therapeutic efficacy, difficulties, and outlook for radionuclide therapy Chandan Kumar, BARC, Mumbai IL16: Tumor Targeted Nanoparticles for Magnetic Hyperthermia mediated enhancement of Cancer Chemo-Radiotherapy</p>

		<p>Neena Shetake, BARC, Mumbai Technical Presentation: Automated Alpha Particle Irradiator: BioAlpha Supreme Manikandan Selvaraj, M/s General Datum Product Design Pvt Ltd, Hyderabad</p>
13:10-14:00	:	LUNCH BREAK
14:00-15:10	:	<p>SESSION V: Radiation Technologies in Human Health and Environment CHAIRPERSON: P. Venkatachlam, SRIHER, Chennai IL17: Food preservation vs Food Safety: A paradigm shift needed towards greener alternative S. Gautam, BARC, Mumbai IL18: Hypofractionation in breast cancer radiotherapy: Journey from conventional fractionation to Fast Forward Teerthraj Verma, KGMU, Lucknow IL19: Assessment of PTV variations with and without shoulder retractor in Head and Neck Radiotherapy: hospital-based retrospective study Amrita Rakesh, Savera Cancer and Multi-Speciality Hospital, Patna</p>
15:10-16:10	:	Poster Session II
16:10-16:30	:	TEA BREAK
16:30-18:30	:	ORAL PRESENTATION SESSION
18:30-19:30	:	SRR GBM
19:30	:	DINNER

NOV. 24, 2024, SUNDAY (DAY-3)
(VENUE: AIIMS Auditorium, Patna)

9:00-9:30	:	<p>SRR B. B. SINGH MEMORIAL ORATION LECTURE Radiation and Chromosome Satoshi Tashiro, Hiroshima University, Japan CHAIRPERSON: Nagraj Huilgol, Fomer President, SRR, Nanavati Hospital, Mumbai</p>
9:30-11:00	:	<p>SESSION-VI Radiation Biodosimetry and Biomarker CHAIRPERSON: V.K. Singh, AFRRRI, USA Special Lecture: Gaganyan Mission Anurag Sinha, Human Spaceflight Centre, ISRO, Bangalore IL20: Degree of intra-, and inter-individual variability in radiotherapy-induced translocation frequency as biomarker of risk for second malignant neoplasms Prabodha Kumar Meher, Stockholm University, Sweden IL21: Targeting radioresistance by novel treatment strategies in different advanced pancreatic tumor models Sophie Dobiasch, Technical University of Munich, Germany IL22: Mitochondrial integrity and dynamics in radiation responses Damodar Gupta, INMAS, Delhi</p>
11:00-11:15	:	<p>TEA BREAK</p>
11:15-13:20	:	<p>SESSION-VII Bystander Effects and Low Dose Radiation Biology CHAIRPERSON: Sung Kee Jo, KAERI, South Korea IL23: Emerging Concepts of Cellular Communication in Radiation Biology: From Basic Biology to Tumor Control Badri N. Pandey, BARC, Mumbai IL24: Epigenetic basis of radiation health effects: Tissue regenerative capacities modulated by low dose ionizing radiation Soji Sebastian, CNL, Canada IL25: Diagnostic radiation biology: Radiation Exposure from medical imaging and its biological significance P. Venkatachlam, SRIHER, Chennai IL26: Biological and health effects of chronic high level natural radiation in humans from southwest coastal areas of Kerala, India Vivek Kumar, BARC, Mumbai IL27: Cognitive Rigidity, Aberrant Energy Metabolism, and Accelerated Brain Aging Following Cranial Irradiation: Gene to Behavior Vipan Kumar Parihar, NIEPER, Hajipur IL28: Evolution of International Radiation Dose Limits Recommendations: From Safety to Precision Vyom Saxena, BARC, Mumbai</p>

		<p>IL29: Individual Monitoring Setup for Radiation Workers in Nepal: An Overview Buddha Ram Shah, Nepal Academy of Science and Technology, Nepal</p>
13:20-14:00	:	AWARD SESSION AND VALEDICTORY FUNCTION
14:00	:	LUNCH

