



International Conference on Radiation Research:
Impact on Human Health and Environment
(ICRR-HHE 2018)
and Second Biennial Meeting of SRR
Feb 1-4, 2018



School of Medical Sciences
University of Hyderabad, Hyderabad

SCIENTIFIC PROGRAM

INAUGURATION SESSION AND DR AR GOPAL AYENGAR MEMORIAL ORATION LECTURE FEBRUARY 1, 2018, THURSDAY	
Venue:	
17:30-18:20	: INAUGURAL SESSION
18-20:19:30	: DR A.R. GOPAL AYENGAR MEMORIAL ORATION LECTURE SESSION Chairperson: <i>K. P. Mishra, Former VC, Nehru Ggram Bharati Univ., Allahabad and Former Head, Radiation Biology & Health Sciences Div., Bhabha Atomic Research Centre, Mumbai</i>
18:20-18:30	: A BRIEF INTRODUCTION ABOUT DR A.R. GOPAL AYENGAR
18:30-19:30	: GLOBAL HEALTH SECURITY: RADIATION COUNTERMEASURES FOR ACUTE RADIATION SYNDROME L. Andrew Huff, MD, MPH, Director, Armed Forces Radiobiology Research Institute, Uniformed Services University of the Health Sciences, Bethesda, USA (ABSTRACT ID 0098)
19:30-onwards	: Dinner

ICRR-HHE 2018

FEBRUARY 2, 2018, FRIDAY

Venue:

9:00-11:05	:	SCIENTIFIC SESSION I Radiation Protection and Radiation Countermeasure Approaches Chairpersons: A. K. Singh, <i>Institute of Nuclear Medicine and Allied Sciences, Delhi</i> Nagraj Huilgol, <i>Nanavati Hospital, Mumbai</i>
9:00-9:25 (IL-1)	:	GAMMA-TOCOTRIENOLAS APROMISINGRADIATION COUNTERMEASURE FOR ACUTE RADIATION SYNDROME: EFFICACY AND BIOMARKERS <i>Vijay K Singh, Armed Forces Radiobiology Research Institute, USA (ABSTRACT ID 0004)</i>
9:25-9:50 (IL-2)	:	A PROMISING MOLECULE PROTECTING BIOLOGICAL TISSUES AGAINST RADIATION: AN UPDATE ON A DECADE RESEARCH WORK <i>Manju Gupta, Institute of Nuclear Medicine and Allied Sciences, Delhi (ABSTRACT ID.: 0069)</i>
9:50-10:15 (IL-3)	:	ROLE OF NEUTRACEUTICAL COMPOUNDS FROM THE HERBAL SOURCES IN AMELIORATING THE RADIATION INDUCED OXIDATIVE DAMAGE <i>Sucheta Kumari, Nitte University, Mangalore (ABSTRACT NO.: 0005)</i>
10:15-10:40 (IL-4)	:	DIETARY ADMINISTRATION OF "TULSI" LEAVES PROTECTS AGAINST THROMBOCYTOPENIA <i>NK JACOB, The Ohio State University Columbus, Ohio, USA (ABSTRACT NO.: 0090)</i>
10:40-11:05 (IL-5)	:	AN OVERVIEW OF MEDICINALLY IMPORTANT AROMATIC PLANTS WITH SPECIAL REFERENCE TO RADIOPROTECTIVE ACTIVITY: MENTHA PIPERITA LINN. <i>Ravindra M. Samarth, Bhopal Memorial Hospital & Research Centre, Bhopal (ABSTRACT NO.: 0065)</i>
11:05-11:15	:	TEA BREAK
11:15-12:55	:	SCIENTIFIC SESSION II Radiation Oncology and Radiotherapy: Biology to Clinics Chairpersons: Vijay Singh, <i>Armed Forces Radiobiology Research Institute, USA</i> Krishnam Raju, <i>Indo-American Cancer Hospitals, Hyderabad</i>
11:15-11:40 (IL-6)	:	BASIC RADIATION BIOLOGY RESEARCH WITH RELEVANCE TO CANCER RADIOTHERAPY <i>K. P. Mishra, Ex-Bhbaha Atomic Research Centre, Mumbai (ABSTRACT NO.: 0099)</i>
11:40-12:05 (IL-7)	:	MOLECULAR BIOMARKERS FOR RADIATION THERAPY INDUCED NORMAL TISSUE TOXICITY AND THEIR PREDICTIVE POTENTIAL <i>B. S. Satish Rao, Manipal University, Manipal (ABSTRACT NO.: 0007)</i>
12:05-12:30 (IL-8)	:	MODULATION OF RADIATION INDUCED PULMONARY TISSUE RESPONSE OF PNEUMONITIS BY A ORAL SELENOCYSTINE FORMULATION IN A MICE MODEL : A PRECLINICAL STUDY THAT MAY HAVE POTENTIAL CLINICAL APPLICATION <i>J. Sastry Goda, Tata Memorial Hospital, Mumbai (ABSTRACT NO.: 0107)</i>

12:30-12:55 (IL-9)	:	A REVIEW OF THE NEW HERBAL COMPOSITION (HEMOHIM): AS A RADIOPROTECTIVE AGENT, IMMUNOMODULATORY FUNCTIONAL FOOD, AND SUPPLEMENTARY DRUG FOR CANCER RADIOTHERAPY AND CHEMOTHERAPY <i>S.K. Jo, Korea Atomic Energy Research Institute, Jeongeup, Republic of Korea</i> (ABSTRACT NO.: 0051)
13:00-14:00	:	LUNCH BREAK
14:00-15:30	:	POSTER SESSION I
15:30-15:40	:	TEA BREAK
15:40-17:40	:	SCIENTIFIC SESSION III Radiation Research and Oncology Chairpersons: <i>Kalluri Subramaniyam, Omega Hospitals, Hyderabad</i> <i>Tej Pandita, Weill Cornell Medical College, USA</i>
15:40-16:05 (IL-10)	:	EVALUATING THE ROLE OF MCL-1 AND ITS INTERACTING PARTNERS IN RADIORESISTANCE OF ORAL CANCER CELLS <i>T. Teni, Advanced Centre for Treatment, Research and Education in Cancer, Navi Mumbai</i> (ABSTRACT NO.: 0108)
16:05-16:30 (IL-11)	:	ULTRA-HIGH DOSE RATE IRRADIATION MINIMIZES NEUROCOGNITIVE COMPLICATIONS WHILE KEEPING GLIOBLASTOMA CONTROL RATE <i>C. Yakkala, Center Hospitalier Universitaire Vaudois, Lausanne, Switzerland</i> (ABSTRACT NO.: 0027)
16:30-16:55 (IL-12)	:	CANCER STEM CELL RESISTANCE IN BONE MARROW <i>P. Rameshwar, New Jersey Medical School, USA</i> (ABSTRACT NO.: 0035)
16:55-17:20 (IL-13)	:	MOLECULAR PROFILE OF CHEMO-TOLERANT ORAL AND BREAST CANCER CELLS <i>CK Panda, Chittaranjan National Cancer Institute, Kolkata</i> (ABSTRACT NO.: 0110)
17:20-17:45 (IL-14)	:	GAMMA RADIATION-INDUCED EMT-LIKE CHANGES IN HUMAN BREAST CARCINOMA CELLS AND ITS RELEVANCE FOR POST-IRRADIATION CELLULAR ADHESION, MIGRATION AND SURVIVAL <i>Amit Kumar, Bhabha Atomic Research Centre, Mumbai</i> (ABSTRACT NO.: 0011)
17:45-18:30	:	SRR GENERAL BODY MEETING
18:30-onwards	:	DINNER

ICRR-HHE 2018

FEBRUARY 3, 2018, SATURDAY

Venue:

9:00-11:05	:	SCIENTIFIC SESSION IV Non-Targeted Radiation Effects and Radio-resistance In Cancer Therapy Chairpersons: Manju Gupta, <i>Institute of Nuclear Medicine and Allied Sciences, Delhi</i> Prathap Reddy, <i>KIMS Hospitals, Hyderabad</i>
9:00-9:25 (IL-15)	:	THE HUMAN REDOX AND DNA REPAIR ENZYME APE1 CONTROL THE OUTCOME OF CANCER CELLS TOWARDS RADIATION AND CHEMOTHERAPEUTIC AGENTS D. Ramotar, University of Montréal, Canada (ABSTRACT NO.: 0017)
9:25-9:50 (IL-16)	:	INHIBITION OF DNA REPAIR AS A STRATEGY TO TREAT CANCER Sateesh Raghvan, Indian Institute of Science, Bangalore (ABSTRACT NO.: 0092)
9:50-10:15 (IL-17)	:	EXOSOMES AND THEIR ROLE IN THE BIOLOGICAL RESPONSE TO IONIZING RADIATION K.K. Jella, Emory University, USA (ABSTRACT NO.: 008)
10:15-10:40 (IL-18)	:	γ-ACTININ-4 CONFERS RADIORESISTANCE COUPLED INVASIVENESS IN BREAST CANCER CELLS THROUGH AKT PATHWAY Shamik Sen, Indian Institute of Technology, Mumbai (ABSTRACT NO.: 0006)
10:40-11:05 (IL-19)	:	NON-TARGETED RADIATION EFFECTS STUDIES IN MOUSE FIBROSARCOMA MODEL RELEVANT FOR CANCER RADIOTHERAPY B. N. Pandey, Bhabha Atomic Research Centre, Mumbai (ABSTRACT NO.: 0022)
11:05-11:15	:	TEA BREAK
11:15-12:55	:	SCIENTIFIC SESSION V Novel Approaches for Improvement of Cancer Radiotherapy Chairpersons: R.P. Coppes, <i>University of Groningen, The Netherlands</i> Babaiah, <i>American Oncology Institute, Hyderabad</i>
11:15-11:40 (IL-20)	:	IMPROVING RADIOTHERAPY OUTCOMES: ARE NEWER TECHNOLOGY ACHIEVING THE GOAL? Shyam Srivastava, Apollo Hospital, Navi Mumbai (ABSTRACT NO.: 0125)
11:40-12:05 (IL-21)	:	CELL CYCLE PHASE-SPECIFIC IONIZING RADIATION INDUCED DNA DAMAGE REVEALS PHASE-SPECIFIC DIFFERENCES IN CELL SENSITIVITY AND HISTONE MODIFICATIONS Sanjay Gupta, Advanced Centre for Treatment, Research and Education in Cancer, Navi Mumbai (ABSTRACT NO.: 0117)
12:05-12:30 (IL-22)	:	KINASE INHIBITORS FOR CANCER THERAPY: A POLYPHARMACOLOGICAL APPROACH Prem Reddy, Mount Sinai School of Medicine, USA (ABSTRACT NO.: 0123)

12:30-12:55 (IL-23)	:	STUDY ON THE RADIO-MODULATING EFFECTS OF A PROGESTIN STEROID, ANTHRACENEDIONES AND PROCHLORPERAZINE IN CANCER RADIOTHERAPY Vibha Tonodn, <i>Jawahar Lal Nehru University, Delhi</i> (ABSTRACT NO.: 0116)
Venue:		
11:15-12:55	:	SCIENTIFIC SESSION VI Radiopharmaceuticals and Radiation Technologies Chairpersons: A. Aono, <i>National Institute of Radiological sciences, Japan</i> Sudhir Chandana, <i>Institute of Nuclear Medicine and Allied Sciences, Delhi</i>
11:15-11:40 (IL-24)	:	RADIOPHARMACEUTICAL ACTIVATED PRECISION PHOTOTHERAPY OF DISSEMINATED CANCERS N. Kotagiri, <i>University of Cincinnati, USA</i> (ABSTRACT NO.: 0015)
11:40-12:05 (IL-25)	:	MODULATION OF ANTIOXIDANT STATUS AND CELL SIGNALING FOR RADIOPROTECTION BY NARINGENIN: A PHYTOCHEMICAL FROM CITRUS FRUITS A. B. Tiku, <i>Jawahar Lal Nehru University, Delhi</i> (ABSTRACT NO.: 0095)
12:05-12:30 (IL-26)	:	RADIOIMMUNOTHERAPY OF B-CELL LYMPHOMA: APPROACH TO ENHANCE APOPTOTIC CELL DEATH Chandan Kumar, <i>Bhabha Atomic Research Centre, Mumbai</i> (ABSTRACT NO.: 0013)
12:30-12:55 (IL-27)	:	RADIATION PROCESSED POLYMERS FOR ENVIRONMENTAL REMEDIATION Virendra Kumar, <i>Bhabha Atomic Research Centre, Mumbai</i> (ABSTRACT NO.: 0030)
12:55-13:50	:	LUNCH BREAK
13:50-15:00	:	POSTER SESSION II
15:00-15:10	:	TEA BREAK
15:10-16:50	:	SRR YOUNG SCIENTIST AWARD PRESENTATION SESSION Chairperson: Shyam Shrivastava, <i>Appollo Hospital, Navi Mumbai</i>
16:50-18:30	:	SCIENTIFIC SESSION VII Radiation Oncology and Radiotherapy: Biology to Clinics-III Chairpersons: S.K. Jo, <i>Korea Atomic Energy Res. Institute, Jeongeup, Republic of Korea</i> B. S. Satish Rao, <i>Manipal University, Manipal</i>
16:50-17:15 (IL-28)	:	A PRELIMINARY STUDY TO ASSESS THE IMPACT OF STEM CELL SPARING RADIATION THERAPY ON THE OUTCOMES OF THE TREATMENT OF GLIOBLASTOMA MULTIFORMAE Nagraj Huilgol, <i>Nanavati Hospital, Mumbai</i> (ABSTRACT NO.: 0119)
17:15-17:40 (IL-29)	:	STEM CELLS CONTAINING ORGANOID CULTURES IN THE STUDY OF RADIATION RESPONSE AND REGENERATIVE THERAPIES R P Coppes, <i>University of Groningen, The Netherlands</i> (ABSTRACT NO.: 0028)

17:40-18:05 (IL-30)	:	DIFFERENTIATION OF HUMAN INDUCED PLURIPOTENT OR EMBRYONIC STEM CELLS IMPACT THE DNA DAMAGE REPAIR BY HOMOLOGOUS RECOMBINATION Tej Pandita, <i>Weill Cornell Medical College, USA</i> (ABSTRACT NO. 0122)
19:30- Onwards	:	DINNER

ICRR-HHE 2018

FEBRUARY 4, 2018, SUNDAY

Venue:

9:00-11:05	:	SCIENTIFIC SESSION VIII Low dose and Environmental Radiation Biology Chairpersons: S. Bhattacharya, <i>National Aeronautics and Space Administration, USA</i> Senthil Rajappa, <i>Indo-American Cancer Hospitals, Hyderabad</i>
9:00-9:25 (IL-31)	:	EFFECTS OF LOW DOSES OF RADIATION ON HUMAN CELLS: TIME FOR FRESH PERSPECTIVE Anu Ghosh, <i>Bhabha Atomic Research Centre, Mumbai</i> (ABSTRACT NO.: 0023)
9:25-9:50 (IL-32)	:	ENHANCED BIOMARKERS AFTER MEDICAL RADIATION EXPOSURE: WILL THEY INCREASES RISK OF STOCHASTIC EFFECTS? P. Venkatachalam, <i>Sri Rama Chandra University, Chennai</i> (ABSTRACT NO.: 0057)
9:50-10:15 (IL-33)	:	RADIOACTIVE MATERIAL CONTAMINATION IN FOOD AFTER THE FUKUSHIMA NUCLEAR POWER STATION ACCIDENT A. Aono, <i>National Institute of Radiological sciences, Japan</i> (ABSTRACT NO.: 0066)
10:15-10:40 (IL-34)	:	INTERNAL DOSIMETRY: CHALLENGES IN BIOKINETIC MODELLING & DECORPORATION OF RADIONUCLIDES Pramila Sawant, <i>Bhabha Atomic Research Centre, Mumbai</i> (ABSTRACT NO.: 0111)
10:40-11:05 (IL-35)	:	RADIOCAESIUM AND RADIOSTRONTIUM DISTRIBUTION AROUND FUKUSHIMA (JAPAN) AFTER NUCLEAR POWER PLANT ACCIDENT S. K. Sahoo, <i>National Institute of Radiological sciences, Japan</i> (ABSTRACT NO.: 0054)
11:05-11:15	:	TEA BREAK
11:15-12:55	:	SRR Oral Presentation Award Session Chairperson: Sateesh Raghvan, <i>Indian Institute of Science, Bangalore</i>
12:55-14:00	:	LUNCH BREAK
14:00-15:00	:	SRR Best Thesis Award PRESENTATION Session Chairperson: P. Rameshwar, <i>New Jersey Medical School, USA</i>
15:00-15:10	:	TEA BREAK
15:10-1:55	:	SCIENTIFIC SESSION IX Space and Non-Human Biota Radiation Biology

		<p>Chairpersons: <i>Dattatreya, Omega Hospitals, Hyderabad</i> <i>C.K. Panda, Chittaranjan National Cancer Institute, Kolkata</i></p>
15:10-15:35 (IL-36)	:	<p>Non-Ionizing/Non-Human Biota Radiation Biology STUDYING THE EFFECT OF RADIATION IN THE CONTEXT OF DEEP SPACE TRAVEL</p> <p><i>S. Bhattacharya, National Aeronautics and Space Administration, USA (ABSTRACT NO.: 0053)</i></p>
15:35-16:00 (IL-37)	:	<p>UNDERSTANDING EXTENSIVE RADIORESISTANCE DISPLAYED BY LEPIDOPTERAN INSECT CELLS: PREVENTING DNA DAMAGE TO DODGING CELL DEATH INDUCTION</p> <p><i>Sudhir Chandana, Institute of Nuclear Medicine and Allied Sciences, Delhi (ABSTRACT NO.: 0056)</i></p>
16:00-16:25 (IL-38)	:	<p>ULTRAVIOLET RADIATION AND THE SKIN: PHOTOBIOLOGY AND NATURAL PHOTOPROTECTORS</p> <p><i>Rajendra Prasad, Annamalai University, Chidambaram (ABSTRACT NO.: 0010)</i></p>
16:25-16:50 (IL-39)	:	<p>TRANSCRIPTOME DYNAMICS OF TWO RADIATION TOLERANT MODEL ORGANISMS: RNA SEQ APPROACH</p> <p><i>R. Mukhopadhyaya, Bhabha Atomic Research Centre, Mumbai (ABSTRACT NO.: 0088)</i></p>
16:50-17:30	:	<p>AWARD SESSION AND VALIDICTORY FUNCTION</p>