

SFRR-INDIA-17 Conference on
“Basic and Applied Aspects of Health Management Using Radiation, Antioxidants and Nutraceuticals”
&
One Day School on “Radiation and Redox Process in Health”
At Multipurpose Hall, Training School Hostel & Guest House, Anushaktinagar, Mumbai India
09-12 January, 2017

Scientific Program

January 09, 2017, Monday

One Day School on **“Radiation and Redox Process in Health”**

Registration: 08.30-09.30

Hall A	
9.45-9.50	Welcome by President, SFRR-India
9.50-10.00	Introductory Remarks by Chairperson: J. P Mittal
10.00-11.00	Michael Davies: Free radical chemistry and biology
11.00-11.30	Tea
11.30-12.15	Nagaraj Huilgol: Radiation Biology of newer fractionation schedules
12.15-12.45	B. S. Rao: Low-dose radiation biology
12.45-13.00	Lecture by SPONSOR
13.00-14.30	Lunch
	Chairperson: T P A Devasagayam
14.30-15.30	Juan Sastre: Redox signaling through disulfide stress in inflammation
15.30-16.30	Corinne Spickett: Oxidatively-modified phospholipids as bioactive compounds and biomarkers
16.30-18.00	Tea & Registration
18.00-19.00	Inauguration function of SFRR-India-2017
19.30-22.00	Dinner (BARC Training School Hostel – Conference Venue Ground Floor)

January 10, 2017, Tuesday

Conference: Basic and Applied Aspects of Health Management Using Radiation, Antioxidants and Nutraceuticals

Registration: 08.30-09.30

8.45-9.30	(Chairperson: S Chattopadhyay)	
	Plenary Lecture: Shinya Toyokuni Chemical reaction mechanism in non-thermal plasma from the viewpoint of oxidative stress toward biological applications	
	Hall A Chair persons: Michael N Gould & H. S. Misra Role of Redox Signalling and DNA damage in health	
9.30-9.55	IL-1 Sathees Raghavan: Repair of DNA double-strand breaks in mitochondria: implications in mitochondrial genome maintenance	
9.55-10.20	IL-2 Michael J Davies: Thiols, disulfides and selenium species as targets and protective species during oxidative damage	
10.20-10.45	IL-3 Corinne Michelle Spickett: Oxidation of the tumour suppressor PTEN and its redox protein interactions	
10.45-11.10	IL-4 Gautam Ghosh-Choudhury: Hyperglycemia launches early expression of nox4 to activate PDGFR β and MTORC1 signaling for diabetic renal fibrosis	
11.10-11.30	Tea	
	Hall A Chair persons: A. Y. Abramov & D. Sharma Redox physiology, Pathology & Toxicology	Hall B Chair persons: K. B. Sainis & C. Rajnikant Human Health & Diseases
11.30-11.55	IL-5 Roland Stocker : Singlet oxygen formed by indoleamine 2,3-dioxygenase contributes to the regulation of vascular tone and blood pressure	IL-9 Mitali Chatterjee: Oxidative stress plays an immunomodulatory role in vitiligo
11.55-12.20	IL-6 Juan Sastre: Role of p38 alpha in the regulation of the cell cycle in the liver	IL-10 Sandip Basu: Recent Advances in Clinical Application of unsealed radioisotopes in Human Diseases and Health
12.20-12.45	IL-7 Yuji Naito: Multiple targets of carbon monoxide gas in the intestinal inflammation	IL-11 Urmi Chatterjee : Arsenic induces uterine toxicity and immunomodulatory effects by disorienting the redox equilibrium: a role of antioxidants as redeemers
12.45-13.10	IL-8 Nandini Ghosh-Choudhury: BMP-2 increases PHD1 to restrict HIF1 α for osteoblast differentiation	IL-12 Ravi Jammihal: Medical management of radiation emergencies
13.10-14.10	Lunch	

14.10-15.40	Poster session I (Posters P1-P50)	
15.40-15.55	Tea	
	Hall A Chair persons: Tetsuya Konishi & S. Adhikari Redox modulation in disease aetiology and treatment	Hall B Chair persons: K. I. Priyadarsini & A. Dash Nano-toxicology & Cytogenetics
15.55-16.20	IL-13 Surendra K Trigun: Multimodal action of fisetin in restricting hepatocellular carcinoma growth	IL-17 S M Vidya: Treatment of infection by functionalized gold nanoparticles prepared by lactic acid bacterial exopolysaccharides
16.20-16.45	IL-14 Daniel Tsun-Yee Chiu: G6PD-deficiency, a redox imbalanced model, to elucidate the cyto-regulatory roles of ROS	IL-18 B N Pandey: Role of HSP90 signalling in functionalized iron oxide nanoparticles induced killing of cancer cells in combination with magnetic hyperthermia and radiation
16.45-17.10	IL-15 Manas Kumar Santra: F-box protein FBXO31 is a dedicated checkpoint protein to facilitate cell cycle arrest through activation of regulators in radiation-induced DNA damage	IL-19 Indupal Kaur: Nano-couture to improve therapeutic potential of antioxidant phytochemicals
17.10-17.35	IL-16 Hari S Sharma: Tumor Necrosis Factor-alpha induced Cytoprotective Mechanisms in Cardiomyocytes	IL-20 Nagesh Bhat: Efficacy of low energy protons in causing cytogenetic endpoints in mammalian cells
	Hall A Chair persons: Santasree Mazumdar & S P Kale	Hall B Chair persons: Sandip K. Bandyopadhyay & Poonam Kakkar
17.35-17.45	OP-1 N. Brooks: Effects of buriti oil supplementation on oxidative stress parameters and hormonal concentrations in male rats	OP-7 Senthil Arun Kumar : Inulin oligofructose attenuates metabolic syndrome in high-carbohydrate, high-fat diet fed rats
17.45-17.55	OP-2 S. Jayakumar: Role of Nrf2 in DNA repair through its influence on homologous recombination repair pathway	OP- 8 Subir K Das: Grape extract protects against g-radiation-induced membrane damage of human erythrocytes
17.55-18.05	OP-3 P. Niranjan: Purification and in-silico analysis of chbp gene from the mid gut of the silkworm (<i>Bombyx mori l</i>)	OP-9 Bandita Panda: Proteome analysis reveals distinct uranium stress response in two strains of cyanobacteria native to indian paddy fields
18.05-18.15	OP-4 Prerna Bansal: Philicity of radicals in antioxidant action of trans-resveratrol and their respective mechanism of action in gas and	OP-10 Bhaskar Sanyal: Epr spectroscopy as a potential approach to identify irradiated food and radiation

	aqueous phase	dosimetry – an overview
18.15-18.25	OP-5 Vadlapudi Kumar: 'catmint' anisomeles india kuntze: need to be explored for industrial applications like other 'mints'	OP-11 Amit Kunwar: Diselenonicotinamide (DSNA) Protects Cells From Radiation Induced DNA Damage And Cell Death By Involving Glutathione Peroxidase And NRF2
18.25-18.35	OP-6 P. G. Biju: Investigations of antioxidant/nutraceutical potential of <i>Plectranthus rotundifolius</i> tubers	OP-12 Sadaf Jahan: Resveratrol ameliorates Monocrotophos induced cellular damage in Human Cord Blood Mesenchymal stem cells derived neuronal cells
18.45-19.15	General Body Meeting of SFRR-INDIA	
19.30-22.00	Banquet Dinner	

January 11, 2017, Wednesday

	Hall A Chair persons: Michael J. Davies & S. K. Apte Discovery science to translational research	
9.00-9.25	IL-21 Tetsuya Konishi: Possible use of antioxidant food factors as adjuvant in cancer chemotherapy	
9.25-9.50	IL-22 Michael N Gould: Mammary carcinoma susceptibility locus: from discovery in the rat to translation for breast cancer prevention	
9.50-10.15	IL-23 Lindsay Brown: Tropical macro- and micro-algae as potential treatments for metabolic syndrome	
10.15-10.40	IL-24 Vikram Gota: Development of phytopharmaceuticals: what is lacking?	
10.40-11.05	IL-25 Caporossi Daniela: The role of physical exercise to counteract oxidative stress-related genomic instability in diabetic patients	
11.05-11.30	Tea	
	Hall A Chair persons: Y. Naito & S. Jayakumar Radiosensitizers and radioprotectors	Hall B Chair persons: C. M. Spickett & Pooja Gupta Antioxidants in development and metabolism
11.30-11.55	IL-26 Rana P Singh: Phytochemicals radiosensitize cancer cells by inhibiting DNA repair	IL-29 E Padmini: Elevation of sirt7 and hif1 α contribute to endothelial function in pre-eclamptic placenta
11.55-12.20	IL-27 Deepak Sharma: A journey from target identification to clinical translation of radio-modifier	IL-30 Snehasikta Swarnakar: Underlying mechanism of endometriosis in the light of matrix metalloproteinases: antioxidants on rescue
12.20-12.45	IL-28 Vibha Tandon: Ser/thr Akt1 kinase activation by a small molecule dma confers selective radioprotection to intestinal epithelium in xenograft model	IL-31 Pritha Ray: Loss and gain of transcriptional regulation of PIK3CA gene during acquirement of Cisplatin resistance in Epithelial Ovarian Cancer Cells
12.45-13.10	Lectures by SPONSOR	
13.10-14:15	Lunch	
14.15-15.45	Poster session II (Posters P51-P100)	

15.45-16.00	Tea
16.00-18.05	Hall A Thesis Presentations
16.00-16.25	TP-1 D. Sivaraman: Ameliorating effect of ipomoea aquatica forsk on β -amyloid induced cognitive dysfunction in mice
16.25-16.50	TP-2 Vivek Jain: Investigations on the potential of <i>Momordica charantia</i> I and <i>Punica granatum</i> I in rat models of neuropathic pain
16.50-17.15	TP-3 R. S. Patwardhan: Amelioration of ionizing radiation induced cell death in lymphocytes by Baicalein
17.15-17.40	TP-4 Pavitra V. Kumar: Redox reactions and antioxidant activity of organoselenium compounds: distinction between cyclic and linear form
17.40-18.05	TP-5 Mrityunjay Tyagi: Mechanistic insight into Malabaricone C induced cancer cell death
19.30-22.00	Cultural program and family dinner (Shakuntalam, Anushaktinagar)

January 12, 2017, Thursday

	Hall A Chair persons: Lindsay Brown & Vinay Kumar Nutraceuticals for new drug development	
9.05-9.30	IL-32 Abha Chauhan: Beneficial effects of a diet with walnuts in alzheimer's disease	
9.30-9.55	IL-33 Anne Negre-Salvayre: Dual effect of oxidized LDL on angiogenesis	
9.55-10.20	IL-34 Vijay Kumar Kutala: Effect of oxidative stress on carotid artery intima-media thickness: an early predictor of coronary artery disease in high risk subjects	
10.20-10.45	IL-35 Andrey Y. Abramov: The role and mechanisms of reactive oxygen species production in neurodegeneration of Parkinson's disease	
10.45-11.05	IL-36 Poonam Kakkar: Reinforcement of nrf2 mediated survival pathways through phlpp2-akt-gsk3 β axis by morin prevents oxidative stress induced hepatotoxicity	
11.05-11.20	Tea	
	Hall A Chair persons: V. K. Kutala & S. K. Ghosh Targets for new drug development	Hall B Chair persons: A. A. Mahdi & S. K. Nayak Detection and management of redox perturbations
11.20-11.45	IL-37 Shyam Prakash: Translational prospective of growth differentiation factor- 15 as a target molecule in changing of lifestyle diseases: an approach for metabolic syndrome	IL-41 Hema Rajaram: Superoxide radicals: how cyanobacteria cope up with them
11:45-12:10	IL-38 Ankona Dutta: Chemical tools for sensing manganese	IL-42 Bimlendu B Nath: Trehalose acts as a redox

		regulator in drosophila during desiccation stress
12:10-12:35	IL-39 Shyamalva Mazumdar: Substrate specificity and peroxidase activity of an orphan thermostable cytochrome	IL-43 M. Goswami: p450Whole genome expression analysis reveals induction of multifaceted stress responses in <i>Escherichia coli</i> on exposure to exogenous glutathione and ciprofloxacin
12:35-13:00	IL-40 Abhijit Chakrabarti: Redox regulators in hemoglobin diseases	IL-44 Subhash Bihani: drFrnE is a hitherto unknown eubacterial cytoplasmic disulphide oxido-reductase
13:00-13:10	Lecture by sponsor	
13:10-14:10	Lunch	
	Hall A Chair persons: S. F. D'Souza & M. Tyagi Best poster session I	Hall B Chair persons: V. Venugopalan & R. S. Patwardhan Best poster session II
14:10-14:20	BP-1	BP-5
14:20-14:30	BP-2	BP-6
14:30-14:40	BP-3	BP-7
14:40-14:50	BP-4	BP-8
14:50-16:15	Valedictory Function and Awards Session	
16:15-17:00	Tea	