

IUAC-SRR Workshop on Recent Advances in Biological Effects of Ionizing Radiation and Its Implications in Health and Medicine

April 27-29, 2023

Inter-University Accelerator Centre, New Delhi-110067

Overview

Studying the effects of Ionizing Radiation on biological systems has gained attention of radiation biologists globally since the discovery of X-rays in 1895. In recent few decades, it has gained momentum due to the wider acceptability of radiation/radiation techniques in diagnosis and therapy of various diseases including cancer. These studies not only have implication in therapy and medicines, but they are essential for radiation protection planning and radiation risk assessment. Various groups are working around the world to increase the therapeutic efficacy of radiotherapy at the same time to minimize the side-effects. The field is inter-disciplinary with researchers involved from biology, chemistry and physics putting their concerted efforts in this direction.

The workshop is being organized to provide platform for bringing the experts to give an overview of the latest development in these research areas. It will feature lectures by eminent experts on topics including status on experimental and theoretical understanding on effects of ionizing radiation, use of accelerated ions for these studies in the research labs, latest technologies utilizing ionizing radiation in health sector, and research being conducted to use medicine in conjunction with ionizing radiation. The lectures shall be complemented by visit to facilities at IUAC for molecular radiation biology research and interactive sessions for participants with faculties. **The participants can make poster presentation (optional) and are eligible for award(s).**

Major Topics

- Biological Effects of Radiation
- Heavy Ions in Cancer Therapy
- Low Dose radiation effects
- Charged Particles in Space
- High LET Radiation Biology
- Cancer and Radio-resistance
- Radionuclides Therapy
- Advances in Cancer Radiotherapy

Important Dates

- Request for participation opens on 10th March 2023
- Request for participation ends on 5th April 2023
- Intimation to the selected participants: 10th April 2023

Registration

Registration Fee: Rs. 2000

The registration fee covers the cost of registration kit and meals.

(Limited Participation. The preference will be given to younger applicants and to those working in the field related to the theme of the workshop).

[Please click here for registration.](#)

In case of any issue with registration through the above form, please email to rabeir2023@gmail.com

Invited Speakers*

- **K. P. Mishra** (Ex-BARC, Mumbai)
- **Roger Howell** (Rutgers Univ, USA)
- **T. Konishi** (NIQST-NIRS, Japan)
- **Ashish Ranjan** (Oklahoma Uni, USA)
- **Damodar Gupta** (INMAS, Delhi)
- **D. Ramotar** (HBKU, Qatar)
- **Nagesh Bhat** (BARC, Mumbai)
- **Utpal Ghosh** (Kalyani Univ, Kolkata)
- **N. R. Praasad** (Annamalai Univ.)
- **R. Billimappa** (HCG, Bangalore)
- **S. Laskar** (TMH, Mumbai)
- **S. Baatout** (BNRC, Belgium)
- **S. Girdhani** (IBA, USA)
- **B. S. Satish Rao** (Manipal Univ)
- **Rajesh Sharan** (IUAC, New Delhi)
- **B. N. Pandey** (BARC, Mumbai)
- **D. N. Sharma** (AIIMS, Delhi)
- **S. Mukherjee** (CNCI, Kolkata)

*This list is tentative

Contact Persons

- Dr. B N Pandey, Secy, SRR (srrindia1415@gmail.com)
- Dr. A Tripathi, IUAC, New Delhi (ambujtripathi@gmail.com)

Workshop Email: rabeir2023@gmail.com

Workshop Website: <https://sites.google.com/view/rabeir2023>

Organizers:

