



A Report  
on  
Discussion Meeting on  
Advances in Cancer  
Radiotherapy and Research  
***October 27, 2017 (Friday)***

**Venue**

**Auditorium (5<sup>th</sup> Floor), Research Building**  
Chittaranjan National Cancer Institute  
**37, S.P. Mukherjee Road, Kolkata-700 026**  
**West Bengal, INDIA**

**Organized under the aegis of**  
**Society for Radiation Research (SRR)**

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The Society of Radiation Research (SRR) organized a half day seminar on "**Advances in Cancer Radiotherapy and Research**" at the **Chittaranjan National Cancer Institute, Kolkata**, on October 27, 2017, under the Public Outreach Program. SRR Life Member Dr Chinmoy Panda, senior scientist & deputy director, CNCRI, Kolkata was instrumental in hosting the meeting at his Institute and Dr Rita Mukhopadhyaya, Treasurer, SRR attended the meeting on behalf of SRR Governing Council. The half day seminar was held between 2-5 pm at the CNCI auditorium located. An audience close to 60 attended the meeting and actively participated in the discussions following deliberations by the 4 speakers.

**Dr C. K. Panda** welcomed the audience and invited **Dr Tapan Maji Director, CNCRI** to address the gathering. Dr Manji emphasized that there is a need to develop knowledge base for basic radiation biology and current research among the faculty, researchers and students of CNCI. Dr Maji also showed his keen desire to host the future activities of SRR at CNCI in terms of school or workshop.

After that Dr Rita Mukhopadhyaya during her introductory speech explained about SRR, its formation, mandates, Governing Council members, journal publication and a road map of public outreach activities undertaken in the short span of 3 years since the inception of SRR.

The scientific deliberations began with invited speaker **Prof. (Dr.) Alope Ghosh Dastidar, IPGMER, Kolkata**, who spoke on '**Radium to Radiosurgery: An Evolution of Radio Oncology**'. He covered the historical events mentioning about the first teletherapy machine operational in Kolkata Medical College Hospital in early 1960s to now 4D treatment planning for radiation technology, gamma knife and stereotactic radiosurgery. The second speaker was **Dr Palas De of CNCRI**. He spoke on the emerging genome based radiotherapy and its impact on personalization & biological adaptability. Importance of LQ model, biological effective dose, whole genome microarray, radio-sensitivity index and expression levels of the panel of 10 selected genes were highlighted in his talk titled '**Genome based modelling for adjusting radiation dose (GARD)- A new dimension towards personalised Radiotherapy**'. Another invited speaker for the day was **Prof. (Dr.) Chandan Dasgupta, RG Kar, Medical College & Hospital, Kolkata**. He spoke on '**Overview of Radiotherapy in our Current Practice**' mentioning how in present days patient

selection and treatment planning 'simulation' places a crucial role for achieving accuracy. He stressed the importance of the pretreatment room and major activities that are done there for external beam planning, CT & MRI image fusion etc. before and after radiation therapy. Final talk was delivered by **Dr Panda, CNCRI, Kolkata**, also the host. He spoke on '**Chemotolerant Cancer Cell**'. His work on small cell lung carcinoma benefitted by collaborations with NIBMG & IICB Kolkata for high throughput genomics wherein they demonstrated that hypomethylation of promoters of selected DNA repair genes showed good correlation with chemo-resistant phenotype of the carcinomas.

The meeting ended with vote of thanks delivered by Dr Dilip Ray, CNCRI, Kolkata.



**Group Photo**



**Group Photo**



**Scientific Session**