



International Symposium

**Academic-Industry-Government Partnerships to Accelerate
Radiation Research and Clinical Translation**

(AIG-2018)



**Dates: 8-9 October 2018
Venue: Goa University, Goa**



A two-day international symposium is planned in Goa University, Goa in association with BITS-Pilani, Goa on “Academic-Industry-Government Partnerships to Accelerate Radiation Research and Clinical Translation” during October 8-9, 2018, in coordination with the International Conference on Radiation Biology, under the auspices of Indian Society for Radiation Biology (ISRB), held at the K.S. Hegde Medical Academy, Nitte (Deemed to be University), Mangalore, India.

Goa University

Goa University was established under the Goa University Act of 1984 (Act No. 7 of 1984) and commenced operations on 1 June 1985. The university provides higher education in the Indian state of Goa. It is located on Taleigao Plateau overlooking Zuari estuary on a picturesque campus spread over 427.49 acres with state-of-the-art infrastructure such as faculty blocks, administrative building, library, sports facilities, student hostels, bank, post-office, staff quarters, etc. A campus-wide Internet connectivity with strong bandwidth is available for all 24 hours a day.

The University took over the enhanced role of Centre of Post-Graduate Instruction and Research (CPIR) which was set after the liberation of Goa by India in December 1961, by the University of Bombay (now Mumbai), in June 1962. Since 1985 Goa University offers graduate and post-graduate studies and research programs. It is currently (2014-19) accredited to the National Assessment and Accreditation Council (NAAC) in India with A Grade. The National Institutional Ranking Facility (NIRF) (an organ of Ministry of Human Resources and Development, Govt. of India) in its second cycle of ranking Indian Higher Educational Institutions in the year 2017, ranked Goa University at 64th rank among 3000+ institutions that participated from India.

BITS Pilani, KK Birla Goa Campus

BITS Pilani KK Birla Goa Campus, is about 10 kms south of Vasco-da-Gama, 20 kms north of Margaon and 7 kms east of Goa Airport, along national highway – 17B, bypass road. In the midst of idyllic, sylvan beauty, the campus houses the main building, having academic and administrative offices, student activity centre, faculty and staff quarters, medical centre, playground and shopping complex. The campus, in keeping with the tradition of innovation and creativity, has given a state-of-the-art touch to the infrastructure of the entire institute without diminishing in the least, the natural beauty of Goa, surrounding its campus.

The Department of Biological Sciences presents learning by means of an interdisciplinary and multifaceted approach. Research is multidisciplinary with topics of exploration burgeon from plants, animals and microorganisms with perspectives from nano, micro and macro level. Efforts towards understanding biological objects and their working, has experimental and computational directions.

Birla Institute of Technology and Science (BITS), Pilani is an all-India Institution declared as deemed to be university established under Section 3 of the UGC act. It is privately supported, fully residential and admits both male and female students. The primary objectives of the Institute are "to provide for and otherwise promote education and research in the fields of Technology, Science, Humanities, Industry, Business, Public Administration and to collate and disseminate in such fields effective ideas, methods, techniques and information as are likely to promote the material and industrial welfare of India" and to "train young men and women able and eager to create and put into action such ideas, methods, techniques and information".

The Institute was initially registered as a Society under the Rajasthan Societies Registration Act of 1958 on the 13th May, 1964. Subsequently, by notification published in the Gazette of India dated the 27th June, 1964, the Ministry of Education, Government of India, declared that the Institute being an institution for higher education shall be "deemed to be a University". The Institute started functioning with effect from 1st July, 1964 with late Shri G.D. Birla as its Founder Chairman.

Patrons:

Dr. Varun Sahni, Vice-Chancellor, Goa University

Dr. Satheesh Kumar Bhandary B., Vice-Chancellor, Nitte-Deemed to be University

Executives:

Dr. Madhu Bala, President, ISRB

Dr. G. M. Naik, Dean, Faculty of Natural Sciences, Goa University

Dr. M.K. Janarthanam, Dean, Faculty of Lifesciences and Environment, Goa University

Dr. Wisemen Pinto, Dean, Faculty of Medicine, Goa University

Dr. Srikanth Mutnuri HOD, Biol Sciences BITS-Pilani, Goa

Organizers:

Dr. S.K. Shyama, Goa University

Dr. Rao V. L. Papineni,

Founder, convener **AIG Program**.

University of Kansas Medical Center (adjunct), USA

Local Organizing Committee:

Dr. Bhagat Singh, Goa Medical College, India, **Coordinator**

Dr. Vijayashree Nayak, BITS-Pilani, Goa, India, **Co-Coordinator**

Dr. Nitin Sawant, Goa University, Goa, India,

Organizing Secretary

ICRB Committee:

Dr. P.S.Prakash, Dean, KSHEMA,

Dr. Jayaram Shetty, KSHEMA,

Dr. Suchetha Kumari N., KSHEMA,

Scientific Committee:

Dr. Pataje Prasanna, NCI, USA

Dr. BS Ajai Kumar, HCG, India (Tentative)

Dr. Mansoor Ahmed, NCI, USA

Dr. Madhubala, DRDO, India

Dr. K. Satyamoorthy, Manipal Univ. (tentative)
Dr. Vijay A Reddy, President, AROI (Tentative)
Dr. Sunil Krishnan, MD Anderson, USA
Dr. Michael Kaytor, Humanetics Corporation
Ms. Deepa Narayanan, NCI, USA (Tentative)
Dr. Rao V. L. Papineni, USA
Dr. Pradeep Naik, Dean, Goa Medical College

Dr. Tangsali, Dept. of Physics, Goa University
Dr. Kerri Bressenhan, GE (Tentative)
Dr. Paul Okunieff, University of Florida, FL, USA
Dr. Jaide Lu, Shanghai Proton (tentative)
DBT India (Tentative)
ICMR (tentative)
Dr. Mahesh Sardesai, Radiation Oncologist, GMC

A strong partnership is essential among academia, industry, and government to accelerate progress in radiation sciences, including radiation oncology and medical countermeasures against accidental radiation exposures. Traditional interactions among academia, industry, and government were limited to institutional collaborations, joint symposia, development of funding opportunities and memoranda of understandings. Notwithstanding this frequent cross-talk, there is still enormous room for enhancing these interactions to accelerate scientific progress, its translation to improve healthcare related to radiation sciences including radiation oncology and medical countermeasures and close the disparity between research and its translation. While scientific innovation and information are drivers of progress among stakeholders in industry, academia, and government, differences in approach, mission, priorities, and timelines can pose challenges to free flow of ideas. In turn, these impediments can stymie clinical translation of promising preclinical concepts. Radiation sciences are no different than other disciplines concerning bench-to-bedside translation. We envision a unifying focused effort to bring all entities together and make a well concerted effort to advance radiation sciences in improving healthcare by organizing this symposium in Goa University, Panaji, India. This symposium provides a platform to vigorously promote recent advances in academia, review, and explore ways to address critical barriers to their successful translation, and government-public thrusts to improve the translation.

This symposium is one-of-a kind in that it is both educational to students in radiation sciences (radiation oncology, radiation biology, medical physics, biotechnology, information technology, commerce, healthcare, etc.) and interactive among faculties, experts, and entrepreneurs in various facets of radiation sciences. A special emphasis on bringing the atmosphere for peer-to-peer learning will be aimed at. Also, Continuing Medical Education credit is planned to be made available to participants.

The symposium will be held in the Goa University, which is located on Taleigao Plateau overlooking Zurai estuary with state-of-the-art infrastructure. The University has made a significant impact at the national level in various areas of education and science and is emerging as an important resource center for research and serves as an ideal venue for this symposium

This two day symposium will cover mainly the following five critical areas in radiation sciences:

- **Radiation Physics**
- **Tumor Biology (Sensitizers, Biomarkers and Immune modulators)**
- **Normal Tissue Injury**
- **Radiation Countermeasures**
- **IT, AI & Machine Learning in Cancer Therapy**

The faculty will include national and international experts in the fields of radiation oncology, radiobiology, biomedical engineering, hospital management, small business & large industry management, industry-based innovation centres, and government policymakers. Poster presentation for

young researchers and a permanent documentation of a two-minute elevator pitch for scientist-entrepreneurs are included in the program.

The academic speakers include: Dr. Chandan Guha, USA, Dr. Marc Medonca, USA, Dr. Paul Okunieff, USA, Dr. Rao V L Papineni, USA, Dr. Charles Limoli, USA, Dr. Prakash Hande, Singapore, Dr. Mohan Natarajan, USA, Dr. Sunil Krishnan, USA, Dr. Nagaraj Huilgol, Nanvati Hospitals (tentative), Dr. Sidharth Laskar, Tata Memorial (Tentative), and many other distinguished faculty from India.

Industry participants (tentative) include: Varian, Panacea, HCG, PACT & Health, PXI, Chrysalis, Kidwai Cancer Institute, Meso Scale Diagnostics, GE, NATCO, RxBioinc, Apojee Biotech Corp, Buffalo Biolabs, Colby Pharmaceuticals, Biomimetix JV, Terapio, 21stCentury, Humanetics. Luna Innovations, Apollo Hospitals, Nanavati Hospitals, Tata Memorial, Shanghai Proton Therapy Center, Shanghai, China, Dr. Gurunatha Killara HCG, India, Dr. Ramesh Bilimaga, HCG, India.

Government Participants include: Dr. Mansoor Ahmed, USA, Dr. PatajePrasanna, USA, Dr. Jacek Capala, USA, (Tentative), Deepa Narayanan USA (Tentative), DBT, DST(Tentative), ICMR (tentative), Goa Incubator (tentative).

Contacts:

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 Dr. Rao V. L. Papineni: docpapineni@gmail.com; 09177532584 (from October 2018)
 Dr. Bhagat Singh: drsonaye30@gmail.com; 9225902843
 Dr. Nitin Sawant: nitin.sawant@unigoa.ac.in; 9822483535

Registration Fees and Deadlines:

Category	On or Before 5 th Sept 2018	After 5 th Sept, 2018	Spot Registration
FOR FOREIGN PARTICIPANTS			
Foreign delegates	USD 150	USD 200	USD 250
Foreign students	USD 100	USD 150	USD 200
Accompanying person	USD 100	USD 150	USD 200
Member-Trade & Industry	USD 150	USD 200	USD 250
Government Officials	USD 150	USD 250	USD 300
FOR INDIAN PARTICIPANTS			
ISRB & AMPI [#] Members	₹ 2,000	₹ 2,500	₹ 3,000
Non-ISRB & Non- AMPI Members	₹ 2,000	₹ 3,500	₹ 4,000
Indian students	₹ 1,500	₹ 2,000	₹ 2,500
Accompanying Person	₹ 1,500	₹ 2,000	₹ 2,500
Member-Trade & Industry	₹ 8,000	₹ 10,000	₹ 12,000
Government Officials	₹ 2,500	₹ 3,500	₹ 4,000

: Association of Medical Physicists of India

Mode of payment: Demand draft drawn on any Indian Nationalized Banks in favour of “Nitte University” payable at Mangalore may be sent to the Organizing secretary, ICRB 2018, K. S. Hegde Medical Academy, Deralekatte, Mangaluru-575018, India.





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Organizers:

Dr. Rao V. L. Papineni, Founder, Convener, **AIG Program**, University of Kansas Medical Center (adjunct), USA &

Prof. S.K. Shyama, Goa University

Dear Colleague:

Greetings from AIG-2018.

On behalf of the **Goa University**, **NITTE University**, and **BITS-Pilani** Institutions, we would like to invite you to the first two-day AIG- International symposium on “**Academic-Industry-Government Partnerships to Accelerate Radiation Research and Clinical Translation**” during **October 8-9, 2018**. This is in coordination with the International Conference on Radiation Biology under the auspices of Indian Society for Radiation Biology (ISRB), being held at the K.S. Hegde Medical Academy, Nitte (Deemed to be University), Mangalore, India.

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- **Radiation Countermeasures**
- **IT , Artificial Intelligence & Machine Learning in Cancer Therapy**

We would be delighted to have you present at this conference and hear your expert views on the subject of your specialty. Kindly respond to this invitation along with the topic of your talk, latest by August 15, 2018. We would also like to hear your younger colleagues and/or students, whom you may encourage to participate in young scientist poster sessions, peer-to-peer learning, and documented elevator pitch program.

We would be extremely pleased to have you join the meeting. Look forward to hear from you soon.

Best Regards

Dr. Rao V. L. Papineni

Dr. Shyama S.K

(Organizers AIG-Goa 2018)

Local Organizing Committee:

Dr. S. K. Shyama: shyam@unigoa.ac.in; 9405921123/ 805699590

Dr. Rao V. L. Papineni: docpapineni@gmail.com; 09177532584 (From October 2018)

Dr. Bhagat Singh: drsonaye30@gmail.com; 922590284; **Coordinator**

Dr. Vijayashree Nayak: vijayashree.nayak@gmail.com; 9657295320; **Co- Coordinator**

Dr. Nitin Sawant: nitin.sawant@unigoa.ac.in; 9822483535; **Organizing Secretary**

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Day-1 8th-October 2018

8.00 am - 9.00 am

Registration (to be continued all day)

9.00 am - 9.20 am

Welcome Address & AIG Update

Dr. Rao Papineni (USA) & Dr. Shyama SK (India)

9.20 am – 10.00 am

Sunriser - Dr. Ramesh Bilimagga, HCG, India

Cost-effective radiation treatment in the modern era of conformal radiation – affordable to Indian Population.

10.00 am – 10.40 am

Dr. Charles Limoli, UC Irvine, USA

Resolving Cancer Treatment-related cognitive impairment through stem cell and extracellular vesicle based transplantation strategies.

10.40 am – 10.50 am

BREAK

10.50 am – 11.30 am

Dr. Mansoor Ahmed NCI, USA

Unconventional Radiotherapy and Immuno-Modulation.

11.30 am – 12.00pm

Dr. Madhu Bala DRDO, India

12.00 pm – 12.30pm

Dr. Chandan Guha, Albert Einstein, USA

Can Radiotherapy be Standard of Care for Hepato Cellular Carcinoma/

12.30 pm – 2.30 pm

Elevator Pitch (Dr. Arun Chouguleet.al.)

Young Scientists, Physicians, Technologists and Entrepreneurs.

2.30 pm – 3.10pm	Dr. Pat Prasanna, NCI USA Radiation Effect Modulators to Improve Radiation Therapy
3.10pm – 3.40pm	Dr. Shalom Kalnick, USA Developing NextGen Radiation Oncologists in USA
3.40pm – 4.10pm	Dr. G. Raghurama BITSPilani India
4.10pm – 4.40pm	Dr. Vidyasagar S, Florida, USA Radiation Mitigation: A concept for the bench-to-the bedside.
4.40pm – 5.30 pm	Dr. Madhur Garg, India Innovations in Head Neck Cancer Treatment: Advances in Science and Technology.

Dinner and Technology Talk

Dr. Ramesh Bilimagga : AI & Machine Learning- Enhancing Productivity in radiation Oncology

Varian Sponsored Event (not CME)

Day-2 9th-October 2018

9.15 am – 9.55 am	Sunriser - Dr. NagrajHuilgol Retrospective Analysis of Chemo-radiation & Hyperthermia with Radiation in Locally Head & Neck Cancer : Comparison of Outcomes.
9.55 am – 10.35 am	Dr. Marc Mendonca, USA Dual Gene Knockdown in Pancreatic Cancer radiation Sensitivity.
10.35 am – 11.15am	Dr. Sunil Krishnan, USA Technological Advances in Radiation Therapy
11.15 am – 11.30 am	BREAK
11.15 am – 11.30 am	Mr. KrishSuthanthiram, USA

ART – Advances in Radiation Therapy Towards 21stCentury
Healthcare Delivery

11.30 am – 11.45 pm

Mr. Manyam Subramaniam, Panacea, India

11.45 am – 12.00 Noon

Dr. Sapna Nangia, MD, Indraprastha Apollo hospital, India

12.30 pm – 1.30 pm

Lunch & Posters (Dr. Paul Solomon *et al.*).

1.30 pm – 3.00 pm

Peer to Peer Learning: Strategies in Rapid Translation

(Drs. Rao Papineni, Vidyasagar, Krish and NCI and BITS Pilani Panel)

3.00 pm – 3.30 pm

Closing Remarks

Dr. Bhagat Singh & Dr. Vijayashree Nayak
