



16th International Workshop

Ion Beams in Biology and Medicine

(IBIBAM 2016)

Translational Aspects of Physics, Biology and Clinical Perspectives

Clinical and Treatment Planning
Challenges In Disease Sites

12th & 13th, November 2016

Organized by



Department of Radiology

SRM Medical College Hospital & Research Centre
SRM University, Potheri





Centre for Environmental Nuclear Research

SRM University

In Association with





The workshop is addressed to scientists interested in the effects of heavy ions in biological systems. An improved understanding of the mechanisms involved is of highest priority for interplanetary manned missions as well as for the application of heavy ions in cancer therapy. The workshop will include invited talks, plenary talks, and poster sessions with moderated discussion on the following topics:

November 12th 2016	November 13 th 2016	
Translational aspects of Physics, Biology and Clinical Perspectives	Clinical and Treatment Planning Challenges in Disease Sites	
Physics and biology research for particle therapy	Clinical challenges	
 Challenges of proton therapy physics Protons vs. Heavier ions: physical aspects Beam delivery Image-guided particle therapy 	 Cost/benifit in particle therapy The most promising sites for proton therapy The most promising sites for carbon ions Protons vs. C-ions +Site-specific lectures (H&N, GI etc.) 	
Particle Radiobiology	Visions	
 Basics Molecular Mechanisms in Particle Radiobiology Relative Biological Effectiveness Normal Tissue Particle Radiobiology Lessons from Space Radiobiology 	 Hypofractionation New diseases NCI view on Proton Therapy Protons in USA Heavy ions in USA Clinical protocols in Shanghai Indian Scenario of Proton Therapy 	
Translational Radiobiology		
 The "Best" ion for therapy Biomarkers Combined Therapies 		

FOR INTERNATIONAL PARTICIPANTS

Foreign delegates	Up to 30 th September 2016 (US\$)	After 30 th September 2016 (US\$)
Foreign delegates	300	400
Accompanying person*	200	250
Foreign students#	200	250
Member- trade & industry	800	1000

FOR NATIONAL PARTICIPANTS

National Delegates	Up to 30 th September 2016 (in Rs.)	After 30 th September 2016 (in Rs.)
Delegates	2000	3000
Research Scholar	1500	2000
Students (UG & PG)#	1000	1500
Accompanying Person*	2000	2500
Member-Trade & Industry	20000	30000

Registration Fee Includes Participation in all scientific sessions, tea, lunch, dinner and conference kit.

All participants are required to register ONLINE on Conference web page (http://mysrm.srmuniv.ac.in/ibibam) by creating an individual login account and the registration fee can be paid online in the online portal within the specified date. If the participants wish to register in offline mode, contact the Conference Secretariat. For further enquiries contact registrationibibam@srmuniv.edu.in

LANGUAGE OF THE WORKSHOP

The official language of the IBIBAM 2016 is English. No simultaneous translation will be provided.

[&]quot;entitled to participation in all scientific sessions, tea and lunch; need to submit a letter clearly stating their studentship status, forwarded by the Head of the Institution / Supervisor along with the Registration Form.

^{*}Not entitled for the conference kit

ACCOMMODATION

To encourage the participation of students and young researchers, the accommodation will be provided in SRM University Hostels at no extra cost. For other participants, various categories of hotels and guest house are negotiated at special price by organizers. We strongly advise to send the desirable accommodation form and contact the conference secretariat to confirm your participation. For further enquiries contact ibibam2016@srmuniv.edu.in

Preferred Lodging

SRM Hotel - http://srmhotels.com/new/booking
Fortune Select Grand- http://www.fortunehotels.in/hotel/
ChennaiFortune_Select_Grand.aspx

Chief Patrons

SRM University

Dr. Paarivendhar, Chancellor, SRM University, Chennai Mr. Ravi Pachamoothoo, Chairman, SRM University, Chennai Dr. P. Sathyanarayanan, President, SRM University, Chennai Dr. R. Shiva Kumar, Vice President, SRM University, Chennai

Government of India

Dr. R. Chidambram, Principal Scientific Advisor, Govt. of India, New Delhi **Dr. S. Christopher,** Secretary-

Department of Defence R&D and Director General, DRDO, New Delhi

Patrons

Dr. Ashutosh Sharma, Secretary, DST, New Delhi

Dr. Soumya Swaminathan, Secreatory DHR & Director General ICMR, New Delhi

Dr. Girish Sahni, Director General CSIR & Secreatory, DSIR, New Delhi

Dr. Manas K Mandal, DG - LS, DRDO, New Delhi

Shri. Kamlesh Nilkanth Vyas, Director, BARC, Mumbai

Conveners

Dr. Balubai Karpagam, Professor & Head, Department of Radiology, SRM Medical College Hospital & Research Centre, SRM University, Chennai

Dr. Raju Sivasamy, Vice President (Medical and Finance), SRM Institutes for Medical Science, Chennai

Organizing Secretary

Prof. Kantha Deivi Arunachalam, Dean, Centre for Environmental Nuclear Research, SRM University, Chennai

Treasurer

Dr. Sathesh Kumar Annamalai, CENR, SRM University, Chennai

Advisory Committee

Dr. Prabir K. Bagchi, Vice Chancellor, SRM University, Chennai

Dr. T.P. Ganesan, Pro-VC (P&D), SRM University, Chennai

Dr. K. Sridhar, Pro- VC (Medical), SRM University, Chennai

Dr. N. Sethuraman, Registrar, SRM University, Chennai

Dr. S. Ponnusamy, C.O.E, SRM University, Chennai

Dr. N. Chandraprabha, Director (Health Sciences), SRM University, Chennai

Dr. James Pandian, Director (Medical Planning), SRM University, Chennai

Dr. D. Narayana Rao, Director (Research), SRM University, Chennai

Dr. C. Muthamizhchelvan, Director (E&T), SRM University, Chennai

Dr. Katar Singh, Director-International Relations, SRM University, Chennai

Dr. D. Antony Ashok Kumar, Director and Principal, SRM IHM, SRM University, Chennai

National Advisory Board

Dr. Debanik Roy, Board of Research in Nuclear Sciences, Mumbai

Dr. H. S. Kushwaha, Bhabha Atomic Research Centre, Mumbai

Dr. B. Venkatraman, Indira Gandhi Centre for Atomic Research, Kalpakkam

Dr. Ramesh Rajan, Medical college Hospital, Trivandrum

Dr. Rajendra Achyut Badwe, Tata Memorial Hospital, Maharashtra

Dr. Saprakash Roy, Saha Nuclear Institute, Kolkatta

Dr. V. Shantha, Chairman, Adyar Cancer Institute, Chennai

Dr. M.R. Raju, Mahatama Gandhi Memorial Medical Trust, Andhra Pradesh

Dr. P. K. Julka, All India Institute of Medical Sciences, Delhi

Dr. G. K. Rath, All India Institute of Medical Sciences, New Delhi

Dr. John Chandy, Apollo Proton Treatment Centre, Chennai

Dr. Preetha Reddy, Apollo Hospitals Enterprise Ltd, Chennai

- Dr. Siddarth Laskar, Tata Memorial Hospital, Mumbai
- Dr. Sarbani Ghosh Laskar, Tata Memorial Hospital, DAE, Mumbai
- Dr. Ganesh Balasubramaniam, Tata Memorial Hospital, DAE, Mumbai
- Dr. Ranjan K. Mahapatra, SRM Institutes for Medical Science, Vadapalani
- Dr. Raju Sundaram, SRM Institutes for Medical Science, Vadapalani
- Dr. D. Karthikeyan, SRM Institutes for Medical Science, Vadapalani
- Dr. S. P. Thyagarajan, Sri Ramachandra University, Chennai
- Dr. B. S. Dwarakanath, Sri Ramachandra University, Chennai
- Dr. K. D'Cruz Anil, Tata Memorial Hospital, Mumbai
- Dr. Selvalaxmi, Adyar Cancer Institute, Chennai
- Dr. Rajan, Radiation Medicine Centre, DAE, Mumbai

International Advisory Board

- Dr. Marco Durante, Trento Institute for Fundamental Physics & Applications
- Dr. Mansoor M. Ahmed, National Cancer Institute, USA
- Dr. C. Norman Coleman, National Cancer Institute, USA
- Dr. Rao VL Papineni, University of Kansas Medical Center & PXI Precision X-Ray, USA
- Dr. Hak Choy, UT South Western, Dallas, TX, USA
- Dr. Francis Cucinotto, University of Nevada, Las Vegas, NV. USA
- Dr. Chandan Guha, Albert Einstein College of Medicine, USA
- Dr. Ramesh Rengan, Seattle Cancer Care Alliance Proton Therapy, USA
- Dr. Pataje Prasanna, National Cancer Institute, USA
- Dr. Michael F. Moyers, Shanghai Proton & Heavy Ion Center, China
- Dr. Xiaodong Wu, Shanghai Proton & Heavy Ion Center, China
- Dr. Oliver Jaekel, Heidelberg Ion-Beam Therapy Center, Germany
- Dr. Ugo Amaldi, European Organization for Nuclear Research, CERN, Switzerland
- Dr. Gerhard Kraft, GSI Helmholtz Centre, Germany
- Dr. Hirohiko Tsujii, National Institute of Radiological Sciences, Japan
- Dr. Tadashi Kamada, National Institute of Radiological Sciences, Japan
- Dr. Manjit Dosanjh, CERN, Switzerland
- Dr. Jocques Burnier, CERN, Switzerland
- Dr. Guo-Liang Jiang, Shanghai Proton & Heavy Ion Center, China

Dr. Roberto Orecchia, Centro Nazionale di Adroterapia Oncologica, Italy

Dr. Radhe Mohan, MD Anderson Cancer Center, Houston, TX, USA

Dr. Harald Paganetti, Massachusetts General Hospital, Boston, MA, USA

Dr. Eleanor Blakely, Lawrance Barkeley National Laboratory, TX, USA

Dr. Stephen Hahn, MD Anderson Cancer Center, Houston, TX, USA

Dr. Minesh Mehta, University of Maryland School of Medicine, Baltimore

Dr. Esthafio Jason, Massachusetts General Hospital, Boston, USA

Dr. Amir Abdollahi, German Cancer Research Center, Germany

Dr. Matsumoto Yoshihisa, Tokyo Institute of Technology, Japan

Dr. Sung-kee-Jo, Korea Atomic Energy Research Institute, Korea

Organizing Committee

Dr. Senthil Kumar, Dept of Radiology, SRMMCH, SRM University, Chennai

Dr. Prem Kumar, Dept of Radiology, SRMMCH, SRM University, Chennai

Mrs. M. Ananathi, Dept of Radiology, SRMMCH, SRM University, Chennai

Dr. Banupriya, Radiation Onccology, SRM Institute for Medical Sciences, Chennai

Mrs. Prabavathi, SRM Institute for Medical Sciences, Chennai

Dr. P. Sivaperumal, CENR, SRM University, Chennai

Dr. A. Murad Basha, CENR, SRM University, Chennai

Dr. N. Yasovardhan, CENR, SRM University, Chennai

Advertisements and Sponsorship

IBIBAM 2016 welcomes your participation and invites you to partner with us to take advantage of our many sponsorship opportunities. This events would also be a wonderful opportunity for your organization to have some visibility in front of an audience who could benefit and value from your participation at this conference and workshop by sponsoring or exhibiting. Let us be your gateway to increase exposure and heighten awareness of your organization. An exhibition of scientific equipment's, books, and consumable will be organized. Sponsorship to the Conference is welcome at all levels. The interested delegates may visit (www.mysrm.srmuniv.ac.in/ibibam) and may contact the organizers, IBIBAM 2016 for further details.

For further information please contact:

Dr. Balubai Karpagam

Professor & Head
Department of Radiology,
SRM Medical College Hospital & Research Centre,
SRM University, Potheri,
Chennai - 603203, India
Dean
Centre for Environment
Directorate of Research
New Administrative Blo

Prof. Kantha D.Arunachalam

Dean
Centre for Environmental Nuclear Research
Directorate of Research
New Administrative Block 4th Floor,
SRM University, Potheri
Chennai - 603203, India
Ph.: +94 44 27417144 / 27417146
Mob.:+91 9443577041,9962211166



For Conference Enquiry (9.00am to 6.00pm IST) +91 44 27417144; +91 44 27417146 +91 9962211166; 9943392555



Venue

November 12th 2016



Dr. T. P. Ganesan Mini Hall Auditorium SRM University, Potheri, Chennai

November 13th 2016



SRM HotelRace Course Road, Guindy, Chennai