



**K S HEGDE
MEDICAL ACADEMY**



ICRB-2023

International Conference on Radiation Biology

Under the auspices of

Indian Society of Radiation Biology

APPLICATIONS OF RADIATION AND RADIO BIOLOGICAL RESEARCH IN PUBLIC HEALTH

PRE-CONFERENCE WORKSHOP ON 23rd NOVEMBER, 2023
16th BIENNIAL MEETING OF INDIAN SOCIETY
FOR RADIATION BIOLOGY (ISRB)

Date : 23rd - 25th November, 2023

Venue : Avishkar Auditorium, 7th Floor, ABSMIDS, Nitte (DU), Deralakatte

Organized by :

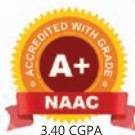
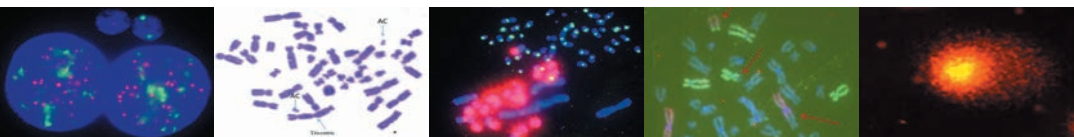
KS Hegde Medical Academy

Nitte (Deemed to be University)

Deralakatte, Mangaluru - 575 018

Email : icrb2023@nitte.edu.in

Website : www.icrb2023.com



ABOUT NITTE (DEEMED TO BE UNIVERSITY)

The Nitte (Deemed to be University) was formed by the Nitte Education Trust. In the last 3 decades, this trust has established 43 institutions, spread over 3 campuses at Nitte, Mangalore and Bangalore. Centres of excellence in education and community service in Karnataka State, Nitte Health Care institutions are duly recognized by the Government of India. The status of Deemed-to-be-University was conferred upon Nitte in June 2008 [vide MHRD Notification No. F.9-13/2007-U.3(A) dated 4th June 2008] by the Ministry of Human Resources Development (Department of Higher Education, Government of India). The University has been accredited by NAAC with 'A+' Grade with 3.40 CGPA and placed under category 'A' by the Ministry of Human Resource Development, Govt. of India. It has the NIRF ranking of 65 among 950 Universities in the country (2023).

The Nitte (Deemed to be University) has a total of thirteen constituent colleges, namely - KS Hegde Medical Academy (established in 1999); A. B. Shetty Memorial Institute of Dental Sciences (1985); N.G.S.M. Institute of Pharmaceutical Sciences (1983), Nitte Usha Institute of Nursing Sciences (1992); Nitte Institute of Physiotherapy (1997); Nitte Institute of Communication (2012); Nitte University Centre for Science Education & Research (2013); Nitte Institute of Architecture (2015); Nitte Institute of Speech & Hearing (2007); Nitte Mahalinga Adyanthaya Memorial Institute of Technology (1986); Justice KS Hegde Institute of Management (1998); Dr. Nitte Shankara Adyanthaya Memorial First Grade College (1988); and Sarosh Institute of Hotel Administration (1992). All these constituent colleges are approved and recognized by the respective Central Statutory Councils. The total number of courses (UG, PG & Ph.D) offered by the University is 118.

The Nitte (Deemed to be University) is progressing towards distinction with a firm belief in its Vision "To build a humane society through education and health-care", and Mission "To further develop Nitte (Deemed to be University) as a centre of excellence; imparting quality education and generating competent, skilled manpower to face the future scientific and social challenges with a high degree of credibility, integrity, ethical standards and social concern".

The institution has firm belief that merely loading students with information is not enough. They should be able to inculcate ethical values, a concern for the less privileged, and the society at large; by the time they come out of the portals of the University.

ABOUT KS HEGDE MEDICAL ACADEMY

KS Hegde Medical Academy was established in 1999 by the Nitte Education Trust. The college is named after its visionary founder; late Justice KS Hegde, former Justice of the Supreme Court of India, and former Speaker of the Lok Sabha. KS Hegde Medical Academy was affiliated with Rajiv Gandhi University of Health Sciences, Bangalore, till 2008. In 2009, it became a constituent institution of the Nitte (Deemed to be University). The college is recognized by the Medical Council of India, Govt. of India / National Medical Commission. The Institute started admitting students to the undergraduate course MBBS from the year 1999-2000 and to postgraduate courses in 2006. Recognized as one of the finest educational institutions in Karnataka, it attracts students from all over India & abroad.

During the period from April 2022 to March 2023, the Institution continued to consolidate its position as an emerging, quality-conscious destination for training in healthcare professions. The institution is led by Prof. (Dr.) P.S. Prakash, Dean, Dr. Amrit M. Mirajkar, Vice-Dean (Academics) and Dr. Jayaprakash Shetty, Vice-Dean (Administration). The institution is engaged in the noble mission of empowering the young generation in higher learning; with a dedicated team of teachers and a conducive learning environment. It has been functioning

with the vision & mission to build a humane society through excellence in education and health care with a high degree of professional credibility, integrity and ethical standards blended with social concerns.

Structured Clinical Skills training is available for the Undergraduate Students at NU-MEDISIM, the Institution's advanced Clinical Skills Training Center; BLS training and a two-day orientation program focus on hands-on training in common clinical skills for the Interns and Postgraduate orientation with ACLS. BLS, ECLS and a Short Course in Research Design and Protocols are conducted every year. The KSHEMA Integrated Training and Education program was continued this year as well. Further, the NU E-learning facility is provided for the students with upgraded state-of-the-art e-class facilities. The online classes through NULearn were effectively conducted during the Covid-19 Pandemic.

A full-fledged 1000-bed hospital is attached to the institute with state-of-the-art facilities, including 18 modern Operation theatres, Ultra-modern Cath lab, MRI Scan, Spiral CT scan, fully computerized C-arm with IITV, Dialysis unit, fully equipped ICU/ ICCU, 24-hour emergency and casualty services and super specialty departments for training the undergraduate & Postgraduate students. It has become a tertiary care hospital with Cardiology, Pulmonary Medicine, Neurology, Cardiothoracic Surgery, Neurosurgery, Nephrology, Urology, Pediatric Surgery, Endocrinology, Oncology, Onco-surgery, Plastic Surgery, Gastroenterology and Craniofacial Surgery Departments. Critical Surgeries such as Valve Replacement Surgery, CABG, Neonatal Surgery, Cancer Surgery, and Paediatric Surgery are regularly performed at the hospital.

Professional Development Programs were organized for the teaching as well as non-teaching staff of the Institution during the year with the help of the Staff Development Centre, Nitte DU. Research continued to receive support at the Institution. Justice KS Hegde Charitable Hospital, attached to the Institution, contributed its finest service for the management of the COVID-19 pandemic. A total of 2,71,758 patients availed the outpatient (OPD) services during the period, and more than 25,999 in-patients were treated at the Justice KS Hegde Charitable Hospital attached to the Institution. Community extension services through the 11 Rural Health Care Centers attached to the Institution are a key aspect of its social commitment and its mission to mould socially sensitive and empathetic health professionals. A total of 113 health camps and public awareness events were organized by the various departments with 7,606 beneficiaries. KS Hegde Medical Academy is ranked among the top medical colleges by Outlook, The Week, and India Today magazines in their latest issues.

The state-of-the-art Artis Zee Cathlab was installed in May 2021, where higher-end interventional cardiology procedures and interventional radiological procedures can be carried out. It also has additional features of dynamic CT and 3D rotational angiogram for neurological interventions, with a low radiation profile. It has special applications for peripheral angioplasty and TAVI (Transcatheter Aortic Valve Implantation). Intravascular Ultrasound, Optical Coherence Tomography and Fractional Flow Reserve estimation can also be performed.

It can be inferred from this overview that the KS Hegde Medical Academy continues to make steady progress towards achieving excellence in its missions of patient care as well as research & development.

ABOUT THE INDIAN SOCIETY FOR RADIATION BIOLOGY (ISRB)

Indian Society for Radiation Biology (ISRB; Registration No. S-19927 dated May 5, 1989), is a vibrant scientific society. It is represented by members from the length and breadth of India and abroad, who are pursuing different aspects of radiation research. The ISRB has been organizing National and International conferences/workshops since its inception; and has also been disseminating new knowledge in radiation research. The broad objectives of ISRB are:

Objectives:

- ❖ Encouragement and support of research activities concerning the interaction of ionizing and non- ionizing radiations with biological systems including molecules of biological importance and applications of the knowledge thus gained for human welfare.
- ❖ Organization of Congresses, Symposia, Workshops and Schools for research and training.
- ❖ Publication of results of research in radiation biology.
- ❖ Preparation and publication of communications, which would be of help in the coordination of research between scientists.
- ❖ Encouragement for establishing all India collection of material, slides and scientific publications for research and training.
- ❖ Assists in collaboration between scientists from different disciplines at National and International levels.
- ❖ Provision of fellowship and prizes to out-standing research workers in the field of radiation biology.
- ❖ Any other legitimate means to further the cause of radiation biology in India. The society shall endeavor to cooperate with other appropriate National and International bodies.

ABOUT ICRB-2023

International Conference on Radiation Biology (ICRB), is being regularly organized by the ISRB, since 1989, every two years. The themes of Scientific sessions, for invited lectures, oral and poster presentations are the chosen ones to address the recent developments in the subject areas. The ISRB proposes to span wide spectrum of topics of radiation research in the prestigious ICRBs, for deliberations and discussions. Often leading researchers from India and other countries participate and share their knowledge.

The scientific committee of ICRB-2023 to be held in KS Hegde Medical Academy, Nitte (Deemed to be University) aims to organize wide ranging discussions on diverse topics of radiation research. It is hoped that leading Radiation Biologists from India and abroad will attend the conference and share their latest research.

The ISRB wishes to especially encourage participation of young scientists and research scholars to present their research work. There are opportunities for the young scholars to apply for various awards and prizes. The entries will be selected for awards and prizes, after due evaluation by panels of subject experts.

INVITATION

Dear Colleagues,

We feel honored to invite you to attend the International Conference on Radiation biology being organized, under the auspices of Indian Society for Radiation Biology, by KS Hegde Medical Academy, Nitte (Deemed to be University), during 23rd -25th November, 2023. The theme of this conference is "Applications of Radiation and Relevance of Radiobiological Studies in Public Health". The Scientific program of the conference will encompass major relevant disciplines of radiation sciences from streams of biology, medicine, chemistry and physics. Invited talks, proffered papers and poster presentations will be made by the renowned radiobiologists as well as young researchers from across the globe. Importance of the knowledge of radiation safety; impacts of radiological advancements among general population; radiation protection studies will be particularly highlighted.

Due to tremendous rise in the use of ionizing radiations in medicine and rapid advances in this field it is important to develop expertise in biodosimetry and spread awareness about radiation safety among the general public. It is also important to constantly monitor the biological consequences of radiation and therefore, epidemiology research must be conducted. Since public health can play an important role in radiation safety, the effectivity of source of ionizing radiation is one of the main components of Good Medical Practice. These topics would also be addressed in this conference.

The organizing committee invites radiation biologists, nuclear medicine researchers and clinicians, radiation oncologists, radiation technologists, radiation safety specialists as well as those who are engaged in pursuits of improving health and quality of life; to attend this conference, present their research work and share their professional experiences. Efforts will be made specially to encourage young investigators and scholars to participate. This is in keeping with the main objective of the conference as to promote further education and research in radiation biology and their applications in diverse fields.

The venue of the conference is KS Hegde Medical Academy, Deralakatte, Mangaluru - an important port city of Karnataka state. The city's landscape is characterized by rolling hills, coconut palms, freshwater streams and hard red-clay tiled-roof buildings. Many classical dance forms such as the Yakshagana, Pilivesha (Tiger dance), Karadi Vesha (bear dance) are integral parts of the city's cultural landscape. The organizing committee would try its best to make "ICRB-2023" a conference rich in scientific content as well as memorable cultural events. We urge you all not to miss the opportunity to participate in the conference the science and enjoy the cultural heritage of this region, along with your near and dear ones.

Looking forward to see you in the beautiful city of Mangaluru.



Dr Madhu Bala
PRESIDENT-ISRB



Dr P S Prakash
CONVENER, ICRB-2023

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Shri N V Hegde
Chancellor, Nitte (DU)

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(Hospital Management), Nitte (DU)



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Nitte (DU)



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Vice Chancellor
Nitte (DU)



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Vice President (ISR & CRL)
Nitte (DU)



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Registrar
Nitte (DU)



Shri M Rajendra
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Nitte (DU)

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Nitte (DU)

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Nitte (DU)

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Co-ordinator - MIT, KSHEMA
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Dept. of Pharmacology

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Lecturer, CRL

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Office Superintendent, CRL

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Scientist Grade-I, CRL

Dr Vishakh R

Lecturer, CRL

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Mr Ramakrishna

Ms Suhasini P C

Mrs Flama M

Mr Sandeep Shetty

Mr Anees

Mr Jayaprakash

Mrs Ashwini

Mr Manish

Mr Rajesh

Broad areas to be covered in scientific sessions

The program will include plenary lectures, invited talks, proffered papers and poster sessions focusing on recent advances in the following areas:

- ◆ Diagnostics and Interventional Radiology
- ◆ Recent Advances in Radioprotector Research
- ◆ Biodosimetry
- ◆ Heavy ion Radiation Biology
- ◆ Bystander and Non-targeted DNA effects
- ◆ Radiation-induced damage and repair mechanisms
- ◆ Preparedness for Radiation Emergencies
- ◆ Radiobiological Research in Radiation Oncology
- ◆ Stem cell therapy for radiation medicine
- ◆ Novel Therapies and Biomarkers for Radiation Injuries
- ◆ Radiation Risks, Management and Radiation protection

The abstracts are invited in the areas covered in the conference. The contents of abstract should include background, objectives, methods, results and conclusions. The title should be in capital and in bold followed by name of authors (with first name first, then middle name followed by family name) and their institutional address with email address of the corresponding author. Do not append degrees, professional designations, etc to names. The name of presenting author should be underlined. The abstract should be typed using Microsoft Word (Times New Roman, font size 12 and 1.5 pt spacing between lines, limit 300 words). Abbreviations used in the body of an abstract should be defined at their first mention in the text.

Abstract will be considered for presentation only if they are accompanied by registration fee of presenting author. Normally only one paper is allowed per author, unless prior permission of organizers is taken. Last due date for the abstract submission is 15th September 2023. All Presenters must fill the online REGISTRATION FORM. If an abstract is accepted and Presenter does not register, the abstract will be withdrawn.

Accepted abstracts will be published with ISBN with your consent.

Guidelines for Oral presentation

Time limit of 7+2 minutes will be strictly adhered to LCD projectors for use of MS Power Point slides in Windows 10 computers will be available. For any other formats/operating systems please discuss with us in advance.

Presenters should be present at the venue at least 15 minutes before the scheduled start of the session and are expected to stay till the end of the session.

Guidelines for poster presentation

Posters size should not exceed 4x3 ft (LxB). Presenters should mount their posters in the assigned area at least 15 minutes before the scheduled start of the session and are expected to be there beside the posters throughout the poster session. Posters should be dismantled immediately after the end of the session. For further details, visit the conference website at www.icrb2023.com

Note: Select the area of the presentation from the list given above.

Awards

Indian Society for Radiation Biology (ISRB) has instituted the following awards.

- **Mrs. & Dr. M. R. Raju Award**
- **Young Scientist Award**
- **Best Poster Presentation Award**

Candidates who desire to participate in the contest for the Young Scientist Award are requested to fill the declaration forms (available at www.icrb2023.com), and send the full-length papers complete in all respects, to the President ISRB (bala44@gmail.com). They should also mail a copy to the Organizing Secretary ICRB-2023 (icrb2023@nitte.edu.in). The last date for submission of full-length papers is latest by 15th October, 2023. The entries for Young Scientist Award and Poster Awards will be judged on the spot.

For **Mrs. & Dr. M. R. Raju Award**, full length papers should reach the President ISRB, Dr Madhu Bala at bala44@gmail.com latest by 30th September, 2023.

REGISTRATION

Registration for the conference opens from 1st July, 2023. You can register only online at the conference website www.icrb2023.com

Registration fees and Deadlines

Category	Early bird registration Before 15 th September, 2023	After 15 th September, 2023	Spot registration
FOR FOREIGN PARTICIPANTS			
Foreign delegates	US\$ 300	US\$ 350	US\$ 400
Foreign students	US\$ 200	US\$ 250	US\$ 300
Accompanying person	US\$ 200	US\$ 250	US\$ 300
Member- trade & industry (Foreign)	US\$ 300	US\$ 400	US\$ 450
FOR INDIAN PARTICIPANTS			
ISRB Member	₹ 2500	₹ 3000	₹ 3500
Non ISRB Member	₹ 3000	₹ 4000	₹ 4500
Indian students	₹ 2000	₹ 2500	₹ 3000
Accompanying Person	₹ 2000	₹ 2500	₹ 3000
Member- Trade & Industry (Indian)	₹ 7,000	₹ 8,000	₹ 8000

Cancellation requests will be considered until 15th September, 2023. If canceled, 50% refund will be processed only after the conference.

PRE-CONFERENCE WORKSHOPS

A Pre-conference workshop will be held on 23rd November, 2023. Workshop details and the Registration fee for the workshop is as follows:

**WORKSHOP DETAILS:
FEE DETAILS**

	Early bird registration Before 15 th September 2023	After 15 th September 2023
Foreign Delegates	US\$ 50	US\$ 100
Indian Delegates	₹ 200	₹ 300

- Registration for the conference is mandatory for participation in the workshop.
- Student delegate should produce a bonafide certificate from their Institute

Registration fee includes participation in all scientific sessions, conference kit, breakfast, tea/coffee, lunch and dinner. On successful submission of the registration form and payment details, participants will receive a confirmatory email. If you do not receive a confirmatory email, please confirm the registration by intimating through Email: icrb2023@nitte.edu.in

SI. No.	TOPIC	Organizing Department/ Venue
1	Update on current and future developments in radiation protection	Department of Medical Imaging Technology, KSHEMA
2	Nutrition for Radiotherapy	Department of Community Medicine, Food and nutrition, KSHEMA
3	Radiation effects - a Physiological perspective	Department of Physiology, KSHEMA
4	New Chemotherapeutic agents	Department of Pharmacology, KSHEMA
5	Radiation and Organ Preservation: Illuminating Insights	Department of Otorhinolaryngology (ENT), KSHEMA
6	Recent Advances in Biodosimetry	Biodosimetry Laboratory, CRL, KSHEMA

MODE OF PAYMENT :

Online transfer through NEFT/RTGS : Name of the account: Nitte Deemed to be University Savings A/c No. : 02452200028169 Canara Bank, ABSMIDS Branch, Mangaluru. IFSC/RTGS Code: CNRB0010245, SWIFT Code: CNRBINBBBFD. The account is exclusively for ICRB-2023.

Young scientists/students need to submit a letter clearly stating their studentship status, forwarded by the Head of the Institution/ Supervisor along with the registration form. Accompanying person will not be entitled to Conference Kit.

LANGUAGE

The language of the conference will be English. No facility for simultaneous translation will be available.

ACCOMMODATION

The details about the accommodation in various categories of hotels and guest houses may be obtained from the website and the request for the desired accommodation may be sent in advance to the Organizing Secretary.

ADVERTISEMENTS, EXHIBITIONS AND SPONSORSHIP

An exhibition of scientific equipment, books, and consumables will be organized. Sponsorship of the Conference is welcome at all levels. The interested delegates may visit (www.icrb2023.com) and contact the Organizers of ICRB-2023 for further details.

NITTE GROUP OF INSTITUTIONS

Health Science Institutions, Hospital and Research Centres

- K S Hegde Medical Academy, Mangaluru
- A B Shetty Memorial Institute of Dental Sciences, Mangaluru
- Nitte Usha Institute of Nursing Sciences, Mangaluru
- Nitte Gulabi Shetty Memorial Institute of Pharmaceutical Sciences, Mangaluru
- Nitte Institute of Physiotherapy, Mangaluru
- Nitte Institute of Communication, Mangaluru
- Nitte University Centre for Science Education & Research, Mangaluru
- Nitte Institute of Speech and Hearing, Mangaluru
- Justice K S Hegde Charitable Hospital, Mangaluru
- Nitte-Gajaria Hospital, Karkala, Udupi
- Nitte Rural Pyschiatry Centre, Karkala, Udupi
- Kowdoor Gopal Hegde & Smt Manorama Hegde Hospital, Bailur
- Nitte Meenakshi Institute of Craniofacial Surgery, Mangaluru
- Leela Narayana Shetty Centre for Neurosciences and Research, Mangaluru
- Leela Narayana Shetty Centre for Cancer Research, Mangaluru
- Central Research Lab, KSHEMA, Mangaluru
- Nitte University Centre for Animal Research & Experimentation (NU-CARE), Mangaluru
- Nitte University Centre for Stem Cell Research & Regenerative Medicine (NUCSEReM), Mangaluru

Engineering Institutions

- Nitte Mahalinga Adyanthaya Memorial Institute of Technology, Nitte, Karkala
- Nitte Institute of Architecture, Mangaluru
- Nitte Meenakshi Institute of Technology, Bengaluru
- Nitte School of Architecture, Bengaluru

Management Institutions

- Justice K S Hegde Institute of Management, Udupi
- Nitte School of Management, Bengaluru
- Sarosh Institute of Hotel Management, Mangaluru
- Nitte Institute of Banking and Finance, Mangaluru

Technical Institutions

- Nitte Rukmini Adyanthaya Memorial Polytechnic, Karkala,
- Mulki Ramakrishna Punja Industrial Training Institute, Thokur

Science and Commerce Colleges

- Dr. Nitte Shankara Adyanthaya Memorial First Grade College, Nitte
- Dr. Nitte Shankara Adyanthaya Memorial First Grade College, Bengaluru
- Dr. Nitte Shankara Adyanthaya Memorial Pre-University College, Nitte
- Dr. Nitte Shankara Adyanthaya Memorial Pre-University College, Mangaluru
- Dr. Nitte Shankara Adyanthaya Memorial Pre-University College, Bengaluru

Schools

- Dr. Nitte Shankara Adyanthaya Memorial Senior Secondary School, Nitte
- Dr. Mundukur Ramanna Shetty Memorial English Medium High School, Thokur
- Nitte International School, Bengaluru
- Dr. Nitte Shankara Adyanthaya Memorial Higher Primary School, Bolakodi

Rural Satellite Health Centres

- | | | | | | |
|-------------|-------------|-------------------|--------------|--------------|---------------|
| ● Bailur | ● Bellikoth | ● Bengre | ● Dabbekatte | ● Farangipet | ● Hejmadikodi |
| ● Kadri | ● Karkala | ● Mangalagangotri | ● Madikeri | ● Mudipu | ● Mukka |
| ● Mundukur | ● Mulki | ● Nada | ● Nitte | ● Sasihitlu | ● Sringeri |
| ● Subrmanya | ● Thalapadi | | | | |