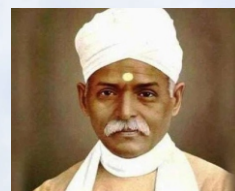


काशी हिन्दू
विश्वविद्यालय



BANARAS HINDU
UNIVERSITY



UNITED NATIONS DECADE ON
**ECOSYSTEM
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International Conference on Advancements in Basic Science, Environmental Studies, and Traditional Medicine for Translational Drug Discovery and Development (TMT3D-2024)

21-23 November 2024

Jointly Organised by



Department of Dravyaguna
Faculty of Ayurveda, Institute of Medical Sciences
Banaras Hindu University, Varanasi



National Environmental Science Academy
New Delhi

In Association with

Deendayal Upadhyay Gorakhpur University, Gorakhpur
Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior, India
Major S.D.Singh Postgraduate Ayurvedic Medical College & Hospital, Farrukhabad
Indira Gandhi National Tribal University, Amarkantak
Rajiv Gandhi University of Knowledge Technologies, Nuzvid
Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu
Udai Pratap Autonomous College, Varanasi
Chitkara University, Patiala, Punjab
Cotton University, Guwahati, Assam

International Conference on Advancements in Basic Science, Environmental Studies, and Traditional Medicine for Translational Drug Discovery and Development (TMT3D-2024)

About the Conference

The pursuit of scientific knowledge and the relentless quest for breakthroughs in medical research have been driving forces behind the ever-evolving landscape of global health. As we stand on the precipice of a new era, the intersections of Basic Science, Environmental Studies, Traditional Medicine, and Translational Drug Discovery hold the promise of revolutionary advancements that can reshape the foundations of healthcare. It is with this vision in mind that we are delighted to announce the "International Conference on Advancements in Basic Science, Environmental Studies, and Traditional Medicine for Translational Drug Discovery and Development (TMT3D-2024)." The TMT3D-2024 conference is poised to be a beacon of collaboration and innovation, bringing together esteemed researchers, scientists, clinicians, and industry experts from around the globe. Scheduled to unfold on 21-23 November, 2024, this event aims to create a dynamic platform for the exchange of ideas, the presentation of cutting-edge research, and the fostering of partnerships that transcend geographical boundaries. With a focus on the pivotal realms of Basic Science, Environmental Studies, Traditional Medicine, and Translational Drug Discovery, the conference aspires to catalyse transformative progress in the field of healthcare.

Basic Science, as the cornerstone of scientific inquiry, continues to unravel the mysteries of the natural world at the molecular and cellular levels. The TMT3D-2024 conference will showcase recent advancements in fundamental scientific principles, from elucidating the intricacies of biological pathways to understanding the genetic underpinnings of diseases. Delegates will have the opportunity to engage in discussions on the latest breakthroughs in genetics, biochemistry, and other fundamental sciences, with a keen eye on their implications for translational medicine. Environmental Studies are now more critical than ever, given the escalating challenges posed by climate change, pollution, and the depletion of natural resources. Researchers participating in TMT3D-2024 will explore the intricate relationship between the environment and human health. Discussions will span topics ranging from the impact of environmental factors on disease prevalence to the development of sustainable practices that can mitigate the adverse effects of human activity on the planet. Traditional Medicine, with its rich history spanning centuries and diverse cultures, continues to offer unique insights into holistic approaches to health and healing. At TMT3D-2024, experts in traditional medicine will share their knowledge, presenting research on the efficacy of traditional therapies and their integration into modern healthcare practices. This interdisciplinary dialogue aims to bridge the gap between ancient wisdom and contemporary scientific methodologies, paving the way for innovative approaches to patient care. Translational Drug Discovery and Development form the nexus between laboratory discoveries and tangible improvements in patient outcomes. The TMT3D-2024 conference will delve into the latest strategies and technologies driving drug development, from novel therapeutic targets to innovative delivery systems. Participants will gain insights into the challenges and triumphs of translating scientific discoveries into clinically effective treatments, with an emphasis on expediting the development and delivery of life-changing drugs.

TMT3D-2024 is not merely a conference; it is a convergence of intellects with the shared goal of advancing human health. The international nature of this gathering ensures a diverse array of perspectives, fostering a rich tapestry of ideas and approaches. Attendees can anticipate stimulating discussions, interactive workshops, and networking opportunities that transcend cultural and disciplinary boundaries. This collective synergy is poised to spark collaborations that can transcend borders and propel the field towards unprecedented heights. In brief, the "International Conference on Advancements in Basic Science, Environmental Studies, and

Traditional Medicine for Translational Drug Discovery and Development (TMT3D-2024)" is poised to be a transformative event that propels the realms of science and medicine into uncharted territories. We extend a warm invitation to researchers, practitioners, and enthusiasts alike to join us in this intellectual odyssey, where the exchange of knowledge and the forging of collaborations will pave the way for a healthier and more sustainable future. Together, let us embark on a journey that transcends the ordinary and shapes the extraordinary. Theme of the conference is "Uniting Expertise from diverse field to promote the translational drug discovery and development" highlights the importance of collaboration and innovation in addressing global challenges.

The TMT3D-2024 invites abstracts/papers from the following themes:

1. Agriculture and Cultivation of Medicinal Plants
2. Animal Science, Pre-Clinical Models, and Veterinary Sciences
3. Biotechnology and Bioinformatics
4. Chemical and Physical Sciences
5. Environment Science and Earth Science
6. Health and Traditional System of Medicine (AYUSH)
7. Innovation, Engineering & Technology, Allied Interdisciplinary and Others
8. Pharmacology and Medicinal Chemistry
9. Plant Science
10. Climate Change and Natural Hazards

Each section will select best presentation for awards separately in both mode, poster and oral presentation.

About Organizers

Department of Dravyaguna, Institute of Medical Sciences, BHU, Varanasi



Medical education in Varanasi, the oldest living city of the world, dates from the days of Sushruta 500 BC. Infact this is also the history of Medical education in India. The great treatise - 'Sushruta Samhita' is a living testimony of contributions to Medical education that originated in Varanasi, Sushruta was the first to perform cadaver dissections and described a number of operating instruments and surgical operations. Perhaps it is a continuation of this historical perspective that Medical education in Banaras Hindu University took roots in 1920 with the establishment of Department of Ayurveda under Faculty of Oriental Learning and Theology (1922-1927). Under the influence of Pandit Madan Mohan Malviyaji, Seth Mathuradas Vissanji Khimji of Bombay donated a large sum of Rs.1.5 Lacs for the Ayurvedic College. This was further augmented by donations from Shri Daya Shankar Dev Shankar Dave of Kathiawar and Bombay. Department of Dravyaguna is one of the oldest department of Ayurveda Faculty, Institute of Medical Sciences, Banaras Hindu University, established in 1927. Teaching and Research are the essential component of the Department. This Department deals with Medicinal plants of Ayurvedic Classics, their identification, properties, action and therapeutic uses in accordance with fundamental Principles of Ayurveda.

In Ayurveda more than 600 medicinal plants are included as drugs and they are used either alone or in combination with each other to alleviate the disorders. In fact, they are grown in various agro-climatic zones (Jangala, Anupa and Sadharana Desa) of our country. In recent years, Global awareness on use of medicinal plants as "Natural Medicine" has drawn the attention of State and National Institutions and Government also to look back into ancient heritage of India - Ayurveda. Use of herbs as medicine by the sizeable number of population has drawn the attention of Health planners of developed and developing countries around the

World and also of World Health Organization (WHO) to address issues related to "safe, standard and quality" products based on medicinal plants.

National Environmental Science Academy, New Delhi



National Environmental Science Academy (NESA) was founded by Late Prof. TRC Sinha, the then Head of Zoology Department, MJK PG College, Bihar University to create awareness, promote and protect the environment. Conceptualised and initiated in 1984, it was registered as a Society in 1988 under the Societies Act XXI of 1860 at Patna. The main objective of the Academy is to bring awareness about environmental issues among the masses by arranging lectures, workshops, training programmes, seminars, symposia, conferences, publishing journals, etc.

Aims Objectives and Functions of the Academy

1. To enhance and promote the study of the environmental sciences by encouraging students, scientists, researchers, academicians and members of the Academy for pursuing research on environment and allied areas.
2. To set up Regional/State Chapters for dissemination of information on environment.
3. To motivate and prepare young minds on environmental management.
4. To hold Annual Conference of the Academy.
5. To organise national/international level conferences, symposia, seminars, meetings and workshops on themes of environmental concerns.
6. To publish policy papers, synthesis volumes, proceedings, journals, newsletter, transactions and other publications for the promotion of Environmental Sciences.

Various eminent personalities have graced the Academy as President. The first President of the Academy was Dr. K.C. Bose, Vice-Chancellor of Ranchi University; then Dr. B.S. Attri, Advisor, Ministry of Environment and Forest. Most recently, Padmabhushan Dr. S.Z. Qasim was the President of the Academy till June 2015, who is a renowned marine scientist known for his Antarctica mission in 1981-82, he also served as the Secretary at the Deptt. of Ocean Development (now Ministry of Earth Sciences); Member, Planning Commission and Vice-Chancellor, Jamia Millia Islamia, New Delhi. Currently Prof. Javed Ahmad, (Former Dean, Faculty of Science), Jamia Hamdard, New Delhi, is the President of the Academy.

NESA Annual Award

(Given in the Annual Function)

The Academy recognizes the merit and achievements of individuals who have contributed to the field of environmental science, education and societal values by conferring **(1) NESA FELLOWSHIP AWARD (2) NESA EMINENT SCIENTIST AWARD (3) NESA SCIENTIST OF THE YEAR AWARD (4) NESA ENVIRONMENTALIST AWARD (5) NESA GREEN TECHNOLOGY INNOVATIVE AWARD (6) NESA DISTINGUISHED SCIENTIST AWARD (7) WOMEN EXCELLENCE AWARD (8) NESA YOUNG SCIENTIST AWARD (9) NESA JUNIOR SCIENTIST AWARD.**

Any life member of the Academy can apply for the awards. For more information please, log on to our website: <http://nesa-india.org/award-form-submission/>

Publications

The Academy is publishing the following Journals (Biannual):

- 1) **INTERNATIONAL JOURNAL ON AGRICULTURAL SCIENCES**
- 2) **INTERNATIONAL JOURNAL ON ENVIRONMENTAL SCIENCES**
- 3) **INTERNATIONAL JOURNAL ON BIOLOGICAL SCIENCES**

- 4) **INDIAN JOURNAL OF UNANI MEDICINE**
<http://nesa-india.org/nesa-journal/>
- 5) **E-NESA Newsletter (Monthly)** <http://nesa-india.org/newsletter/>

Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, Uttar Pradesh



Deen Dayal Upadhyaya Gorakhpur University, established in 1957 in Uttar Pradesh, marks a significant post-independence educational development. It has been awarded an A++ accreditation by NAAC, reflecting its commitment to embracing diverse intellectual, cultural, and ethical perspectives, encapsulated in its motto, "Let the noble thoughts come to us from all directions." Named after Pandit Deen Dayal Upadhyaya, the university is located in Gorakhpur and draws inspiration from historical figures such as Gautam Buddha, Sant Kabir, and Guru Gorakshnath, among others. Spread across 190.96 acres, the university includes eight faculties and forty departments, serving as a crucial educational hub for Eastern Uttar Pradesh, Western Bihar, and Nepal. It functions as a residential and affiliating State University with jurisdiction over three districts, offering a rich academic legacy, a diverse and committed faculty, and a transparent administrative system.

Currently, the university caters to over 12,000 students, with more than half being women, highlighting its commitment to gender inclusivity. It prides itself on its comprehensive education system, high-quality research, and significant contributions to sports and student placements. The university features top-notch facilities including an automated Central Library, ICT-enabled classrooms, modern laboratories, an Incubation centre, and separate hostels for men and women. The campus is noted for its environmental friendliness, gender-sensitive environment, and strict anti-ragging policies. With a vision to evolve into a 'University of Excellence', Deen Dayal Upadhyaya Gorakhpur University aims to integrate value-based education with modern scientific learning to foster regional development in various sectors. This vision is supported by its NAAC A++ rating, underscoring its ongoing dedication to academic and educational excellence.

Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior, India



Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya (RVSKVV), located in Gwalior, Madhya Pradesh, is a prominent agricultural university dedicated to advancing agricultural sciences and allied sectors. Named after the esteemed Rajmata Vijayaraje Scindia, the university reflects her commitment to the agricultural development and prosperity of the region. Established in 2008, RVSKVV serves as a hub for agricultural education, research, and extension activities aimed at enhancing the productivity and sustainability of agriculture in the central region of India. The university offers a diverse array of programs at the undergraduate, postgraduate, and doctoral levels, covering various aspects of agriculture, horticulture, forestry, and animal husbandry. These programs are designed to equip students with modern agricultural practices, innovative technologies, and research methodologies. RVSKVV is equipped with state-of-the-art facilities, including advanced laboratories, research farms, and libraries, fostering a rich educational environment for students and researchers.

RVSKVV's faculty comprises distinguished academics and researchers who bring deep expertise and a passion for agricultural advancement. Their research focuses on developing sustainable farming techniques, improving crop yields, and addressing the challenges posed by climate change and resource scarcity. The university also emphasizes the importance of extension services, working closely with local farming communities to transfer knowledge and technologies that boost productivity and ensure food security. Through its commitment to excellence in agricultural education and research, Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya plays a critical role in shaping the future of agriculture in India, promoting sustainable practices and supporting the livelihoods of millions in the agrarian sector.

Major S.D. Singh Postgraduate Ayurvedic Medical College & Hospital, Farrukhabad



Major S. D. Singh P.G. Ayurvedic Medical College, installed in 2006, is a beacon of first-rate schooling in Ayurveda, owing its inception to the collective efforts of Dr. Jitendra Singh, Dr. Anita Ranjan, and the guiding have an impact on of Shri Babu Singh Yadav, called "Daddu Ji." Rooted within the noble beliefs of accessibility and inclusivity, the college affords a complete gaining knowledge of revel in transcending barriers of location, faith, and gender. Under the visionary leadership of Dr. Jitendra Singh and Dr. Anita Ranjan, the college has flourished, advancing clinical, technical, and expert know-how in Ayurveda even as emphasizing realistic training. Accredited via diverse government our bodies, together with AYUSH and NCISM, the university guarantees adherence to rigorous standards and guidelines, supported by way of its brand new facilities.

In addition to its center values of transparency, reliability, and truthfulness, the college actively fosters academic and expert boom through country wide and global seminars, Continuing Medical Education (CME) programs, and collaborations with recognized institutions. Research plays a pivotal function, with school and college students engaged in pioneering initiatives geared toward advancing Ayurvedic knowledge and programs. In conclusion, Major S. D. Singh P.G. Ayurvedic Medical College stands as a image of excellence in Ayurvedic training, dedicated to offering inclusive, wonderful education and shaping the destiny of Ayurveda even as contributing to societal betterment.

Department of Chemistry Indira Gandhi National Tribal University, Amarkantak



The Department of Chemistry at Indira Gandhi National Tribal University (IGNTU), located in the serene and lush surroundings of Amarkantak, Madhya Pradesh, stands as a beacon of academic and research excellence. Established to foster a deep understanding of chemical sciences among students, the department offers a range of programs including undergraduate, postgraduate, and doctoral studies, each designed to equip students with comprehensive knowledge and practical skills in chemistry. Emphasizing both theoretical foundations and experimental approaches, the department is committed to advancing the frontiers of chemical research with special attention to areas that intersect with tribal and environmental concerns. This unique focus not only distinguishes IGNTU from other institutions but also aligns with its mission to address and support the development of tribal communities through higher education. Equipped with modern laboratories and state-of-the-art facilities, the Department of Chemistry at IGNTU provides an enriching environment for students and researchers to explore various dimensions of chemical sciences. The faculty comprises experienced and dedicated scholars who are deeply committed to teaching and research, guiding students through their academic journey and mentoring them in projects that have both local and global relevance.

As a hub of intellectual activity, the department regularly organizes seminars, workshops, and conferences, bringing together academicians, researchers, and industry professionals. These events serve as platforms for dialogue, collaboration, and dissemination of new knowledge, further enhancing the learning experience and research capabilities of students. The Department of Chemistry at IGNTU, Amarkantak is thus a vital part of the university's vision, contributing significantly to academic excellence and research in chemical sciences with a profound commitment to societal development, particularly for the tribal populations of India.



Rajiv Gandhi University of Knowledge Technologies- Nuzvid A. P.

Rajiv Gandhi University of Knowledge Technologies (RGUKT) Nuzvid, Andhra Pradesh is a premier educational institution established by the Government of Andhra Pradesh in 2008. The university was founded with the vision of providing

high-quality education and empowering rural youth with knowledge and skills in information technology and other fields. The university aims to honor his legacy by promoting technological advancement and education accessibility. RGUKT Situated across multiple campuses (Nuzvid, RK Valley, Srikakulam and Ongole) in Andhra Pradesh, RGUKT offers six-year integrated programs that combine intermediate education (10+2) with specialized undergraduate studies in engineering and technology. The university follows a unique curriculum designed to foster innovation, critical thinking, and problem-solving abilities among its students. Through its rigorous academic structure, RGUKT strives to produce competent professionals who can contribute to the socio-economic development of the state and the nation at large. One of the distinguishing features of RGUKT is its emphasis on rural outreach and inclusivity. By establishing campuses in rural areas and providing opportunities for students from underprivileged backgrounds, the university promotes equitable access to education. Additionally, RGUKT implements various outreach programs, workshops, and initiatives to encourage rural youth to pursue higher education and explore career opportunities in emerging fields. Furthermore, RGUKT is actively involved in research and innovation endeavors aimed at addressing societal challenges and fostering technological advancements. Through collaborative projects with industry partners and research institutions, the university contributes to knowledge creation and technology transfer, thereby fostering regional development and competitiveness. Overall, Rajiv Gandhi University of Knowledge Technologies, Andhra Pradesh, stands as a beacon of educational excellence and social empowerment, striving to transform lives and communities through education, research, and innovation. With its commitment to academic rigor, inclusivity, and societal impact, RGUKT continues to play a pivotal role in shaping the future of Andhra Pradesh and beyond.

Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu



Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu came into existence on 20 th September, 1999. The University was established with a mission to cater to the region-specific needs of agricultural and its allied sectors of Jammu division. SKUAST-J is a multi-campus University with headquarter located at Chatha, Jammu. The University address the basic, strategic and applied research related to enhanced production in agriculture and allied sectors (livestock health improvement and quality-based products). SKUAST-Jammu is striving to achieve high standards of excellence in education, research and extension for the betterment of farming community of the region. The University comprises distinct faculties, including the Faculty of Agriculture, Faculty of Veterinary Sciences & Animal Husbandry, Faculty of Horticulture and Forestry, Faculty of Dairy Technology, Faculty of Agricultural Engineering and the School of Biotechnology. SKUAST of Jammu inherited meager assets and very little staff that was deployed at various Research stations and sub stations of erstwhile SKUAST to carry on the mission of agriculture research and development. To meet the demand of trained manpower of development departments and face the challenges in agriculture under the clout of liberalization, privatization and globalization, the pursuance of academic excellence and production of need based trained graduates has been given due priority. The substations and KVKs in the University which are located different agro-climatic zones of Jammu region for catering to the location specific needs to the farming community. The University pursues high standard research through research projects funded by various central and state agencies.



Department of Zoology, Uday Pratap Autonomous College, Varanasi

Uday Pratap College, Varanasi was founded in the year 1909 as a High School. It owes its existence to the philanthropy and benevolence of Late Rajarshi Uday Pratap Singh JuDeo, Raja of Bhinaga (District -Baharaich, U.P.) with the aim of

promoting education to enrich society with value system of the region. It is situated in the north-western part of Varanasi, India and is spread over a 100 acres of fertile land with an academic atmosphere. The Department of Zoology was established in 1949 under the headship of Dr. S.S. Khanna a renowned Fish Biologist. The Department started initially with teaching facility for the students at Under Graduate level and was upgraded to Post Graduate level in 1970. The Department also runs a vocational course in Fisheries, a minor elective course in Applied Zoology and a Co-curricular course in Food, Nutrition and Hygiene as per NEP-2020 guidelines. The Department is running efficiently with high class, bilingual and blended methods of teaching and research. The faculty members are also engaged in conducting various research projects. Thus, the department is a potential place for good quality researches in life sciences as evident by research publications as well as review articles/papers in reputed, peer-reviewed and refereed International and National Journals. Faculty members have also contributed several chapters in the Edited books published by reputed National and International publishers (Elsevier, Springer, Nature etc.).

The Department also organizes a number of academic activities such as popular lectures by esteemed scientists, debates, quizzes and visits to various institutions. The Department has received funds under UGC-CPE, DST-FIST and also receives grants under DBT Star College Scheme. Departmental laboratories are enriched with advanced instruments, digital and virtual lab, e-museum, image projection system for demonstration of dissection, histological sections and cell biology slides. The department also has an animal house which runs under the guidelines of IAEC. Several web portals are used for online teaching. Department has its own YouTube channel which is used for teaching and conducting seminars and workshops.

Chitkara University, Rajpura, Punjab



Chitkara University, established in 2010 in Punjab by the Punjab State Legislature, is located 30 kilometers from Chandigarh on the Chandigarh-Patiala National Highway. Recognized under Sections 2(f) and 22(1) of the UGC Act, 1956, the university is renowned as one of the top private institutions in North India. It offers a broad spectrum of multidisciplinary, industry-relevant programs ranging from business management to healthcare and engineering. The university's expansive campus is strategically placed near several major cities including Chandigarh, Mohali, Panchkula, Ambala, and Patiala. Its educational facilities include modern amphitheater-style classrooms equipped with the latest ICT tools and advanced laboratories. Chitkara University emphasizes a dynamic educational environment that encourages co-curricular and extra-curricular involvement through various clubs and societies. Chitkara University is known for its robust academic infrastructure, strong national and international collaborations, and effective placement programs with frequent recruitment from top-tier companies. The university also hosts a significant number of international students, enhancing its cultural diversity and offering valuable global exposure through international exchange programs.

Chitkara College of Pharmacy, established within the university in 2005, has emerged as a leading pharmaceutical education and research center under Dean Dr. Thakur Gurjeet Singh. It provides advanced educational programs in pharmaceutical sciences and is recognized for its research excellence, ranking 16th in the NIRF India 2023 rankings among over 1000 institutions. The college is noted for its significant research outputs, including publications, patents, and collaborations, establishing it as a hub of pharmaceutical innovation and education in India.

Cotton University, Guwahati, Assam

Cotton University (formerly was Cotton College), located in the heart of the city, Guwahati, Assam, was established in 1901 by Sir Henry Stedman Cotton, Chief Commissioner of the



former British province of Assam. It is one of the pioneer institutes of learning in higher education in North East India . It was upgraded to university in 2017 by the provisions of an Act from the Assam Legislative Assembly which merged Cotton College State University and Cotton College.

The University has progressed to become one of the top 200 institutions of the country (appearing on the list of 150–200 in the National Institutional Ranking Framework rank list in May 2020).It has been accredited A++ grade three times by NAAC. There are 23 departments in the University offering graduation, post graduation and PhD courses along with higher secondary education.

From politics to literature, science to arts, cultural to sports, Cotton University students have displayed their excellence in all fields . Students are present in different corners of the world. The institution's commitment to academic excellence and holistic development has produced leaders, thinkers, and innovators who continue to shape the cultural, social, and political landscape of Assam, cementing Cotton University's legacy as a cradle of greatness.

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About Varanasi

Varanasi, one of the oldest continuously inhabited cities in the world, holds a profound historical legacy that dates back over 3,000 years. Nestled on the banks of the sacred River Ganges in the northern Indian state of Uttar Pradesh, Varanasi has been a cradle of civilization and a witness to the rise and fall of empires. Originally known as Kashi, the city finds mention in ancient Hindu scriptures, establishing its cultural and spiritual importance. Throughout its history, Varanasi has been a center of learning, attracting scholars, philosophers, and theologians from across the Indian subcontinent. It has weathered the ebb and flow of time, surviving invasions and the march of empires, leaving behind a mosaic of architectural wonders that speak of its enduring legacy. The city's narrow alleys, ancient temples, and ghats (steps leading to the river) bear witness to the myriad stories etched into its stone walls. Varanasi is revered by Hindus as the spiritual heart of India, and it is considered a sacred pilgrimage site. The city is believed to be the abode of Lord Shiva, the deity associated with destruction and transformation, and millions of devotees flock to Varanasi to seek spiritual solace and liberation from the cycle of birth and death.



The city's ghats, particularly the Dashashwamedh Ghat and the Manikarnika Ghat, are central to the religious and cultural fabric of Varanasi. Pilgrims and visitors alike participate in the mesmerizing Ganga Aarti, a daily ritual where priests offer prayers to the river, accompanied by the rhythmic clang of bells and the glow of myriad oil lamps. The belief in the purifying properties of the Ganges River draws people from all walks of life to take a dip in its sacred waters, seeking spiritual purification. Varanasi's cultural significance extends beyond religion. It has been a hub for traditional arts, music, and dance, fostering the development of classical Indian art forms. The city's numerous festivals, such as Diwali and Holi, are celebrated with fervor, adding vibrant colors to the ancient stone structures. Varanasi's tourism is not solely driven by its spiritual allure but also by its historical and cultural treasures. The city is a living museum, with architectural marvels like the Kashi Vishwanath Temple, the Sarnath Stupa, and the Ramnagar Fort. The narrow winding lanes of the old city offer a glimpse into a bygone era,

with bustling markets and vibrant street life. Tourists can embark on boat rides along the Ganges, providing a unique perspective of the city's ghats and the continuous flow of life along the riverbanks. The bazaars of Varanasi offer an array of handicrafts, silk products, and traditional Banarasi sarees, enticing visitors with the rich tapestry of Indian craftsmanship.

In recent years, Varanasi has also become a hub for cultural and spiritual tourism, attracting international visitors seeking an authentic experience of India's diverse traditions. The city's unique blend of history, spirituality, and cultural richness make it an enchanting destination for those eager to explore the roots of Indian civilization. The temperature in Varanasi in November is comfortable with low of 25°C and high up to 35°C. If you enjoy looking at a blue sky and love the sun then this is a great time to visit Varanasi.

How to reach BHU Varanasi

By Air: Lal Bahadur Shastri International Airport of Varanasi (VNS) located at Babatpur is approximately 30 km away from BHU. One can easily book a taxi from the airport to reach the BHU campus in around 90 minutes of ride.

By Train:

Two major railway stations that connect Varanasi with almost all other major cities in India are Varanasi Junction (BSB), also popularly called as Cantt. Rly. Station and Pandit Deen Dayal Upadhyay Rly. Station (DDU), previously known as Mughalsarai station.

From Varanasi Railway Station (BSB) to BHU: BHU campus is about 10 km. from Varanasi Cantt. Railway Station. Round the clock auto-rickshaw and taxi services are available From Varanasi Cantt. Station to BHU (Lanka). The approximate journey time is 45 minutes.

From Pt. Deen Dayal Upadhyay Railway Station (DDU) to BHU : BHU campus is about 20 km. from DDU Railway Station. Round the clock auto-rickshaw and taxi services are available from DDU Rly. Station to BHU (Lanka). The approximate journey time is 75 minutes.

Call for Abstracts

The participants are invited to submit their abstracts on the theme and sub themes of the Conference. The abstract should be within 300-350 words in English font 'Times New Roman' with size of '12' in proper format. The abstracts will be released in 'Souvenir and Abstract Book' in the Inaugural Session of the Conference. The participants may send their abstracts by **31st October, 2024** by e-mail to tmt3d2024@gmail.com. All participant with selected abstract will have to pay the relevant registration fee, without payment the abstract will not process further. The selected abstract/paper will be published in SCI indexed journals.

The participants may present their papers in the Conference by oral/poster whereas UG and PG students of basic sciences are encouraged to demonstrate their innovative ideas through flow chart or models.

Guidelines for Abstract

Abstract must be submitted with following format:

1. Title of the paper.
2. Author's Name.
3. Affiliation.
4. Body (Background, Aim of the study, Methodology, Results, Conclusion).
5. Word limit 300 to 350 words.
6. 5-6 Keywords.
7. Corresponding author's contact and E-mail Id.

Poster Presentation

Papers are invited for poster presentation. The poster should be related with the topic and sub themes of the Conference. The poster size should be 3x4 feet.

Conference Award

The Organizing Committee of SASE -2022 will confer the following awards during the conference in each section:

1. Best Oral Presentation Award
2. Best Poster Presentation Award
3. Best Innovation Award (B.Sc./M.Sc. students only for Innovative Ideas or Models)

Important Dates

Conference Dates	21-23 November 2024
Registration and Abstract Submission Starts	1 st May, 2024
Last Date of Registration without late payment	31 st October, 2024
Abstract submission Deadline:	31 st October, 2024
The above dates are mandatory and strictly followed by Organizing and Publication Committee.	

Registration*	Upto 30 th Sept 2024	From 1 st Oct 2024 to 15 th Nov. 2024
Faculties/ Scientists/ Academicians Scientists/ Senior Resident/Postdoc	Rs. 3000.00	Rs. 3500.00
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*NESA Members will get Rs. 500.00 discount for the registration on the above mentioned each category.

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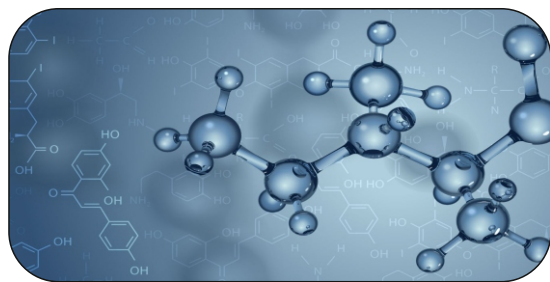
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On

**ADVANCEMENTS IN BASIC SCIENCE, ENVIRONMENTAL
STUDIES AND TRADITIONAL MEDICINE FOR TRANSLATIONAL
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21-23 November, 2024 • Banaras Hindu University, Varanasi, Uttar Pradesh

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| 3. Biotechnology and Bioinformatics | 4. Chemical and Physical Sciences |
| 5. Environment Science and Earth Science | 6. Health and Traditional System of Medicine (AYUSH) |
| 7. Innovation, Engineering & Technology,
Allied Interdisciplinary and Others | 8. Pharmacology and Medicinal Chemistry |
| 9. Plant Science | 10. Climate Change and Natural Hazards |

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21st-23rd November, 2024 (Thursday-Saturday)

Time: 08:30 AM to 06.00 PM

Venue: KN Udupa Auditorium, IMS, BHU, Varanasi

Inaugural Session	
Chief Guest	Prof. (Mrs.) N. Kalaiselvi, Director General, CSIR & Secretary DSIR, Govt. of India, New Delhi
Special Guest	Communicated
Guest of Honor	Prof. Vikash Kumar Dubey, Dean, Research and Development, IIT-BHU, Varanasi
Technical Session	
Theme	Invited Speaker
Agriculture and Cultivation of Medicinal Plants	Dr. Sumya Pathak, CSIR- Central Institute of Medicinal and Aromatic Plants, Lucknow Dr. Nandani Sarkar, NIT Raurkela Dr. Kasturi Dutta, NIT Raurkela Prof. Biswanath Mahanty, Karunya Institute of Technology and Sciences, Tamilnadu
Animal Science and Pre-Clinical Models	Dr. Badri N. Dubey, Centre for Structural Systems Biology (CSSB), German Electron Synchrotron, (DESY), Notkestraße 85, D-22607 Hamburg, Germany Prof. Rajnikant Mishra, Dept. of Zoology, Institute of Science, BHU, Varanasi Prof. Ajaikumar B Kunnumakkara, Dept. of Biosciences and Bioengineering, IIT Guwahati
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Environment Science	Dr. Mithilesh Singh, Scientist-D, G.B Pant National Institute of Himalayan Environment and Sustainable Development, Almora, Uttarakhand Dr. Rajesh PP, CUSAT, Kochi, Kerala
Health and Allied Sciences	Dr. Nidhi Sunhare, Department of Anatomy, AIIMS, Patna Dr. Swapnil Patel, MPMMMCC (Tata Memorial Cancer), Varanasi Dr. Mayank Tripathi, MPMMMCC (Tata Memorial Cancer), Varanasi

	Dr. Kasturi Dutta , National Institute of Technology Rourkela, Odisha, India
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Veterinary Sciences	Prof. Y. B. Rajeshwari , Dept. of LPM, Veterinary College, KVAFSU, Bengaluru, Karnataka Prof. Shambulingappa BE , Dept of Veterinary Microbiology, Veterinary College, Shivamogga, Karnataka
Climate Change and Earth Science	Dr. Soora Naresh Kumar , Centre for Environment Science and Climate Resilient Agriculture, Indian Agricultural Research Institute (IARI) New Delhi
Valedictory Session	
Chairman	Prof. Panjab Singh , Ex-Secretary, DARE & DG(ICAR) and Ex-VC, Chancellor, Rani Lakshmi Bai Central Agricultural University, Jhansi
Chief Guest	Prof. Rabinarayan Acharya , Director General, Central Council for Research in Ayurvedic Sciences (CCRAS), Govt. of India, New Delhi
Special Guest	Prof. A.S. Raghubanshi , Director, Institute of Environmental & Sustainable Development, Banaras Hindu University, Varanasi
Guest of Honor	Prof. Praveen Kumar Verma , Director, Research and Development, JNU, New Delhi

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