



**Uttar Pradesh University of Medical Sciences,
Saifai, Etawah**

1ST RESEARCH SHOWCASE 2025



UPUMS



“Celebrating Research, Igniting Minds”



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20 RESEARCH 25 REPORT

Uttar Pradesh University of Medical Sciences, Saifai, Etawah



सर्वे भवन्तु सुखिनः
सर्वे सन्तु निरामयाः

“Celebrating Research, Igniting Minds”

Preface



It is with immense pride and enthusiasm that we present the "Souvenir of Research Showcase 2025" for UP University of Medical Sciences, a celebration of the relentless pursuit of knowledge and innovation by our vibrant academic community. The vision of our revered Vice Chancellor Prof.(Dr.) Ajai Singh is reflected in this event and the compilation of the souvenir. It reflects the university's commitment to advancing medical science through cutting-edge research and collaboration. Each page of this souvenir captures the spirit of inquiry and the determination to overcome challenges in the pursuit of better health outcomes.

Our faculty, researchers, and students have dedicated countless hours to exploring new frontiers in medicine, addressing pressing healthcare issues, and contributing to the body of knowledge that drives medical advancements. We are honored to share these research milestones and invite you to explore the diverse and groundbreaking work. This souvenir also stands as an inspiration for young investigators, reminding them that every idea, no matter how small, has the potential to create meaningful impact.

As you delve into this collection, we hope you will appreciate the depth of inquiry and the impact of our research initiatives. We extend our gratitude to all contributors and supporters who have made this showcase possible and look forward to continued excellence and innovation in the years to come.

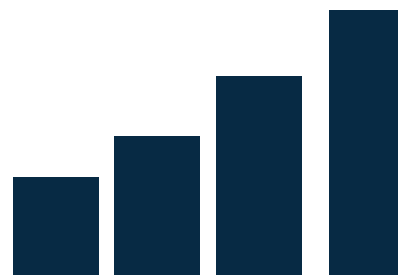
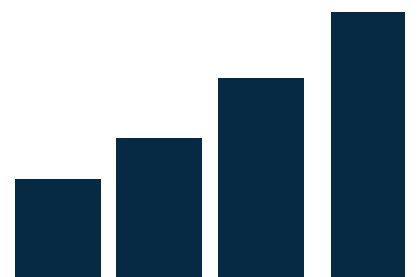


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FROM HON'BLE CHANCELLOR'S DESK



I am delighted that Uttar Pradesh University of Medical Sciences, Saifai, Etawah is organising 'Research Showcase-2025' on 4th December, 2025. A souvenir is also being published to mark the occasion. Uttar Pradesh University of Medical Sciences is contributing significantly to the enhancement of healthcare services and research capabilities within the State.

In a period marked by rapid developments in the field of medical sciences and growing need for evidence-based practices, it is encouraging to note that this institution continues to foster a research oriented environment. Such initiatives not only strengthen academic foundation of medical education but also contribute meaningfully to the broader objective of improving public health.

I extend my best wishes for the continued progress of the institution and for the success of its future endeavours.



Shri Yogi Adityanath
Chief Minister & Chancellor

FROM HON'BLE VICE CHANCELLOR'S DESK



Research forms the backbone of academic excellence. It not only deepens our understanding of the world but also equips us to address emerging challenges in healthcare, science, technology, and society at large. The Research Showcase and Oration – 2025 stands as a proud reflection of our university's pursuit of excellence. It brings together bright minds, encourages critical thinking, and highlights significant advancements made across diverse disciplines.

Such platforms are essential in nurturing a robust academic environment where scientific inquiry, creativity, and evidence-based knowledge flourish. I hope this event inspires students and researchers to continue contributing to meaningful scientific progress. By creating opportunities such as this showcase, we reaffirm our belief that meaningful progress can only be achieved when research and new ideas are encouraged at every level.

The Research Showcase and Oration – 2025 provides an invaluable platform for our scholars to present their findings, exchange perspectives, and explore new avenues of collaboration.

This is the very first event of such nature at the University. The vision is not only to conduct such programs now, but to continue to strive for more such events in the future. I congratulate all the contributors for their hard work, enthusiasm, and dedication in bringing this program to life. I wish the event great success and encourage each participant to continue striving for excellence in research and scholarship.

Prof. (Dr.) Ajai Singh
Vice Chancellor

FROM CHIEF GUEST'S DESK



It is a matter of great honour for me to be associated with the Research Showcase -2025 organized by the Uttar Pradesh University of Medical Sciences (UPUMS) and to contribute a message for the Souvenir being released on this notable occasion. This initiative reflects the university's steadfast commitment to promoting high-quality research, academic excellence, and meaningful innovation in the field of medical sciences.

UPUMS has consistently demonstrated an exemplary vision in nurturing scientific inquiry, encouraging interdisciplinary collaboration, and creating an environment where scholars can explore new ideas for the advancement of healthcare. The research contributions highlighted in this Souvenir are an impressive testament to the dedication, perseverance, and intellectual capability of the faculty, researchers, and students.

In today's rapidly evolving world, research stands at the core of progress, especially in medical and health sciences. I am confident that the outcomes showcased through this event will not only enrich academic understanding but also contribute to the betterment of society by addressing contemporary healthcare challenges with evidence-based solutions. It is good to see a young University growing at a good pace. I extend my sincere appreciation to the leadership of UPUMS for organizing this significant academic initiative and congratulate all contributors for their commendable efforts. It is my hope that this Research Showcase continues to inspire future scholars and serves as a platform for impactful discoveries.

With best wishes for the success of the Souvenir release and all future endeavours of the University.

Prof. Vinay Kumar Pathak
Vice Chancellor CSJMU, Kanpur

FROM GUEST OF HONOUR 'S DESK



I am delighted to extend my warm greetings to all the readers of this souvenir which is being released on the event of Research Showcase-2025 organized by Uttar Pradesh University of Medical Sciences (UPUMS). It is of great pleasure to write a message for the souvenir that stands as a testament of the event reflecting the dedication, curiosity, vision and commitment to excellence demonstrated by our researchers, faculty, and students.

Medical research is the cornerstone of progress in healthcare and requires collective responsibility to advance knowledge, to question assumptions, and to translate discoveries into meaningful improvements in human health which can be shared by these kind of events.

So, I congratulate the organizing committee for creating an inspiring platform that encourages innovation, nurtures young talent, and promotes meaningful academic exchange. Such initiatives are essential for shaping the next generation of scientists and clinicians who will lead us toward a healthier future.

I appreciate all the participants and hope that this showcase serves as a milestone in your research journey and motivate you to pursue your scientific endeavours with enthusiasm, integrity, and purpose.

I applaud the university to encourage such kind of events to empower the young minds to explore ideas.

I congratulate each contributor and extend my best wishes for continued success in your research journey. Your efforts today pave the way for a healthier and more resilient tomorrow.

s. Nityanand

Prof. (Dr.) Soniya Nityanand
Vice Chancellor KGMU

About Research Cell, UPUMS



Vision

- To cultivate a vibrant research culture that inspires scientific inquiry fosters collaboration, and advances healthcare knowledge for societal benefit.

Highlights

1. Oversees University intramural research projects.
2. Ensures ethical compliance with the Ethics Committee.
3. Supports extramural research and grant proposals.
4. Conducts research methodology workshops.
5. Promotes innovation and quality research.
6. Recognizes outstanding research contributions

The Research Cell (RC) of UPUMS, Saifai, was established in August 2023 in accordance with Section 9.3 of the Standard Operating Procedures (SOPs) for Research Cell, as detailed in the Guidelines, SOPs and Proformas for Research Activities of UPUMS, Saifai (2023). Since its inception, the Research Cell has emerged as the nerve centre of scholarly pursuits within the University dedicated to nurturing curiosity, strengthening institutional research capability, and elevating the academic environment.

As the University's central coordinating body for research, the RC plays a transformative role in promoting high-quality scientific inquiry among faculty, researchers, and students. It ensures an enabling environment where innovation is encouraged, ethical standards are upheld, and academic excellence is continuously pursued.

About Research Cell, UPUMS

S. No	AREA OF RESPONSIBILITY	DESCRIPTION	ROLES & KEY FUNCTIONS
1	Management of Intramural Research Projects	Oversees the complete life cycle of University-funded intramural projects and fosters a progressive research culture.	• Inviting proposals. • Transparent review & selection. • Monitoring progress. • Ensuring proper fund use & research quality.
2	Ethics Committee Coordination	Ensures all research complies with national and international ethical standards.	• Facilitating ethical approvals. • Guiding ethical proposal preparation.
3	Extramural Research Projects	Supports investigators in securing external grants and building strong research collaborations.	• Assisting in grant proposal development. • Coordinating with funding agencies. • Managing MoUs, funds & documentation.
4	Postgraduate Thesis Presentation	Manages structured thesis presentations to promote academic rigor.	• Organizing thesis presentation forums. • Ensuring guideline adherence. • Providing an academic platform for refinement.
5	Research Methodology Workshops	Conducts training sessions that build research competence and promote evidence-based practice.	• Study design & protocol training. • Data collection & analysis. • Biostatistics & software skills. • Scientific writing & publication ethics.
6	Research Showcase	A flagship platform celebrating scholarly contributions across the University.	• Poster and oral presentations. • Expert interactive sessions. • Awards for outstanding research.

“The Research Cell remains committed to empowering our academic community with resources, guidance, and opportunities that nurture innovation and drive impactful research at UPUMS.”

Overview of the Research Showcase

The **Research Showcase 2025** is a celebration of innovation, curiosity, and scientific excellence that brings together **students, clinicians, researchers, and healthcare professionals** to highlight the diverse and impactful research conducted across the institution. It is being conducted in UP University of Medical Sciences, Saifai, Etawah, Uttar Pradesh for the very first time.

S.no.	Aims of Research showcase 2025
1.	Knowledge Dissemination and Exchange
2.	Increase Visibility and Recognition of research and researchers of UPUMS
3.	Inspire and Motivate faculty and students
4.	Receive Constructive Feedback
5.	Professional Development and Career Advancement

Organizing the Research Showcase

Organizing the Research Showcase is not merely about hosting an academic program; it is an investment in the future of research in healthcare.

This year our university is organizing the first research showcase under the guidance of our H'able Vice Chancellor Prof. (Dr.) Ajai Singh Sir. His vision, leadership, and unwavering support have been instrumental in the successful organization of this event which reflects our institution's commitment to foster a culture of scientific and academic excellence.

The planning for the showcase began months in advance, involving careful coordination between academic departments, research units, and clinical teams for the shared goal of creating an academic platform for all. A number of meetings have been held under the chairmanship of honourable Vice chancellor and Pro- Vice chancellor over the past few weeks.

The Chief Guest



Dr Vinay kumar Pathak (Vice chancellor, Chhatrapati Shahu Ji Maharaj University) has been invited as the chief guest for the event. He is a highly respected administrator of excellence and an exemplary scholar. A computer scientist by training, Prof. Pathak has a career ranging over twenty-six years of visionary leadership as faculty of Computer Science, Professor & Dean of the School of Computer Sciences, Harcourt Butler Technical University, Kanpur, and the Vice Chancellor of eight different Universities in Uttar Pradesh, Rajasthan and Uttarakhand. He recently, in 2024, was unanimously elected as the President of the Association of Indian Universities, Delhi, after serving there as the Vice President for a year.

His administrative philosophy is guided by the unwavering belief in the amalgamation of traditions with futuristic progressions to confide the pace and direction of growth and development on the giant shoulders of our ancestral epistemology and axiology. Prof. Pathak has had a long career as vice chancellor of eight universities nationwide. He excellently has managed multiple Universities for three full terms, namely Uttarakhand Open University, Haldwani, VMOU, Kota with an additional charge of Rajasthan Technical University, Kota; Dr. APJ Abdul Kalam Technical University with an additional charge of HBTU, Kanpur, Khawaja Moinuddin Chishti Language University, Lucknow and Chhatrapati Shahu Ji Maharaj University with an additional charge of Dr. Bhimrao Ambedkar University, Agra. This remarkable feat of inspiring multitasking speaks of his outstanding leadership qualities

The Guest of honour



Dr. Soniya Nityanand, the esteemed Vice Chancellor of King George's Medical University (KGMU), Lucknow, has been invited to the event as the Guest of Honour. She held a prominent role in the proceedings, having been specially invited to deliver a formal oration to the assembled audience. Her presence and address underscored the significance of the occasion and brought considerable prestige to the event.

Invitees for the event

The dignitaries of the medical education department(Lucknow), Principals of all the medical and dental colleges of Uttar Pradesh, dignitaries of district administration of Etawah, previous Vice chancellor/Directors of UPUMS, retired alumni of UPUMS and dignitaries of Indian medical association of Etawah are invited for inspiring and encouraging our researchers.

Submission of research

The submission of research work was invited by the research cell under nine categories from Faculty members, Post Graduate and Under Graduate students of the University for consideration of poster presentation, various awards and recognitions promoting a vibrant research culture, recognize scientific excellence and encourage multidisciplinary participation.

More than 100 entries were received for various categories which were then subjected for evaluation by the esteemed selection committee members according to the predefined approved guidelines/SOP .

Awardees under various categories are selected and have been honoured in the event of Research Showcase.



Showcase of selected research **(Poster presentation)**

The selected research studies have been showcased to the public and university community in both physical poster and e-poster (electronic poster) formats within the gallery of the UPUMS auditorium.

Poster presentations are a common method for disseminating research findings in academic and medical environments, allowing for visual display and discussion of the studies. The use of both physical and e-poster formats suggests a modern and accessible approach to showcasing the research.

The committees

Seventeen committees were formed for the research showcase event. They have worked together tirelessly for the smooth conduct of the program. Every aspect was thoughtfully crafted to ensure a meaningful and engaging experience for participants.

Research Cell team

1. Dr. Savita Agarwal
Officiating Associate Dean Research & Faculty In Charge Research Cell
2. Dr. Vedant Kulshrestha
Co-faculty In Charge Research Cell
3. Dr. Sana Fatima
Scientist Grade B, Member

The Oration at the Research Showcase event



About the speaker(Our GUEST OF HONOUR)-

UP University of Medical Sciences is deeply honored to welcome our distinguished Orator Prof. Dr. Soniya Nityanand a stalwart of Medical Sciences, a transformative leader in academic healthcare, and an inspiring force in research and innovation.

Our Orator is currently serving as the Hon'ble Vice Chancellor of King George medical university since 09 August 2023 prestigious medical institutions of India with exemplary vision and excellence. Prior to this, she led the transformation of Dr. Ram Manohar Lohia Institute of Medical Sciences, Lucknow as its Director (2021-2024) and also served in key leadership roles at SGPGIMS, Lucknow as Chief Medical Superintendent, Executive Registrar, Professor & Head, Department of Hematology, and Head of the Stem Cell Research Centre. A pioneer in advanced hematology in India, she established Uttar Pradesh's first Bone Marrow Transplant Program in 1999 and later built globally recognized Hematology and Stem Cell research facilities. Respected Orator is the recipient of the Padma Shree Award, Government of India (2025), she has also been honored with the Lucknow Management Association Creativity & Innovation Award (2025) and the 10th FICCI FLO U.P. Women's Award (2025) and earned repeated national acclaim under her leadership, including the FICCI Health Care Excellence Awards in 2023 and 2024 and full NABH accreditation for Dr. RMLIMS, Lucknow.

She have been entrusted with several prestigious national responsibilities, serving on multiple high level expert committees of the Department of Biotechnology (DBT), SERB-DST, CSIR, and NASI, and currently contributes to the Inter-Ministerial Committee for the Indian Genome Initiative (IGENI). A pioneer in medical innovation, she established the first Bone Marrow Transplant Program of Uttar Pradesh in 1999, the Department of Haematology in 2003, and a world-class Stem Cell Research Centre in 2018 at SGPGI, Lucknow. With 155 research publications, research funding worth ₹13 crores across 24 projects, and internationally recognised work in Aplastic Anemia, Fetal Stem Cells, and Infections in Neutropenic Patients, she stands as one of India's most inspiring physician-scientists.

The Oration at the Research Showcase event



An award winning researcher right from her student years, she has been honoured with the INSA Young Scientist Award, DBT National Biosciences Career Award, Prof S.R. Naik Outstanding Research Investigator Award, and several memorial orations. A role model for excellence, innovation, and nation-building in healthcare, she continues to shape the future of medical science in India.

About the oration-

Prof Dr Soniya Nityanand has delivered the prestigious Oration Titled: "STEM CELL RESEARCH: Potential and Promises". She is known for establishing one of the earliest Bone Marrow/ Hematopoietic Stem Cell Transplant programs in India. In 2005, she founded a stem cell research centre. She has always said that stem cell research has huge potential in clinical management of patients .

What are Stem cells? All cells/tissues of our body are derived from a few primitive and unspecialized cells called "STEM CELLS". They are pluripotent and can produce more differentiated or specialised cells of the body. Thus "STEM CELLS" are mother cells that can make any cell or tissue of our body.

She has always highlighted the fact that stem cell research is at the cutting edge of medical research. It promises the treatment of several diseases for which no treatment exists till date like creating organs for transplantation.

Currently the clinical utility is primarily in the management of hematological disorders and in bone marrow failure and application of stem cells in other diseases is in the experimental stage. Though we have miles to go, we should not lose hope and continue our efforts in investigating the therapeutic potential of stem cells.

Organizing Committees and Teams



Reception Committee

Members:

1. Dr. Sandip Kumar (Chairman)
2. Dr. Kirti Jaiswal
3. Dr. Sanjeev Kumar
4. Dr. Siddharth kumar

Volunteers

1. Dr Nitesh Verma, Junior Resident
2. Dr Yamini Nagar, Junior Resident
3. Mihir Kumar MBBS Batch 2021
4. Bharati Patel, MBBS Batch 2022
5. Alpna Singh, MBBS Batch 2022
6. Anamika Verma, MBBS Batch 2022
7. Suyash Mishra MBBS Batch 2023
8. Anmol Mahajan MBBS Batch 2024
9. Tushar Saini MBBS Batch 2024
10. Aditya Singh MBBS Batch 2024

Stage Management and auditorium decoration Committee

Members:

1. Dr. Somendra Pal Singh (Chairman)
2. Dr. Soniya Vishwakarma
3. Dr. Nisha Yadav
4. Dr. Himanshu Prince
5. Dr. Jyotsna Singh
6. Mrs. Soni Verma

Volunteers

1. Pranay Tewari, MBBS Batch 2021
2. Shelja Seth , MBBS Batch 2021
3. Garima Chaudhary, MBBS Batch 2021
4. Shivendra Singh, MBBS Batch 2022
5. Prince Singh, MBBS Batch 2022
6. Parul Chaudhary, MBBS Batch 2022
7. Neha, MBBS Batch 2022
8. Aditya Agrahari, MBBS Batch 2023
9. Ritesh, MBBS Batch 2023

Hall Management Committee

Members:

1. Dr. Naresh Pal Singh (Chairman)
2. Dr. Nand Kishor Gupta
3. Mr. Pramod Sikarwar
4. Mr. Pankaj Singhal
5. Mr. Sandeep Arya

Volunteers

1. Dr. Siddhant Sarin
2. Hradesh Singh
3. Tanishq Gupta
4. Devendra Singh
5. Divya Prakash
6. Abhishek
7. Lokendra
8. Aman Kumar
9. Anshul Yadav
10. Vivek Yadav
11. Shikha Yadav
12. Kirti Patel
13. Samarth
14. Sanskar
15. Chandan
16. Shruti Varshney

Souvenir Committee

Members:

1. Dr. Reena Sharma (Chairman)
2. Dr. Nupur Mittal
3. Dr. Rashmi Bhujade
4. Dr. Neha Dubey

Volunteers

1. Abhishek Kumar, MBBS Batch 2021

Organizing Committees and Teams

External Evaluation Committee

Members:

1. Dr. Rishi Pal Singh, Professor, Deptt. of Pharmacology, KGMU, Lucknow.
2. Dr. Avijit K. Awasthi, Consultant Microbiologist, Intermediate Reference Laboratory, State TB Demonstration and Training Centre, S. N. M. C Campus, Agra.
3. Dr. Rajeev Garg, Professor, Department of Pulmonary Medicine, KGMU.
4. Dr. A.K. Verma, Professor, Department of Pulmonary Medicine, RMLIMS.

Travel and Accommodation Committee

Members:

1. Dr. Atit Kumar (Chairman)
2. Dr. Amit Singh
3. Dr. Atul Saxena
4. Dr. Shuchi Nigam
5. Dr. Sameer Gupta
6. Dr. Sandeep Yadav
7. Mr. Aashish

Memento and Award distribution committee

Members:

1. Dr. Urvashi Yadav (Chairman)
2. Dr. Shweta S. Kumar
3. Dr. Gagandeep Kaur
4. Dr. Shabana Azmat

Volunteers

1. Dr. Parul Roy
2. Dr. Supriya
3. Dr. Seema
4. Dr. Ekta

Internal Evaluation Committee

Members:

1. Dr. Sushil Kumar Shukla
2. Dr. Naresh Pal Singh
3. Dr. Vaibhav Kanti
4. Dr. Reena Sharma

Technical Team

Members:

1. Dr. Savita Agrawal (Chairman)
2. Dr. Vedant Kulshrestha
3. Dr. Gaurav Mishra
4. Dr. Vivek Anand Ojha
5. Dr. Azmat Ansari
6. Dr. Ankur Vaidya

Volunteers

1. Suyash Mishra MBBS Batch 2023

Hospitality and Catering Committee

Members:

1. Dr. Vaibhav Kanti (Chairman)
2. Dr. Pragati Divedi
3. Dr. Rajmangal Yadav
4. Dr. Ajai Gupta
5. Dr. Sugandhi Sharma
6. Dr. Gaurav Jain
7. Dr. Abhigyan Manas
8. Dr. Vaibhav Anand
9. Dr. Radhika
10. Dr. Amita Singh
11. Dr. Najmul
12. Dr. Kaustav Kundu

Organizing Committees and Teams

AV Committee

Members:

1. Dr. Shushil Kumar Shukla (Chairman)
2. Dr. Rafey A. Rahman (Chairman)
3. Mr. Sambian N
4. Dr. Vivek Kumar Verma
5. Dr. Kush Mehrotra

Sanitation Committee

Members:

1. Dr. Ajay Kumar Rajput (Chairman)
2. Dr. Tanmay Khurana
3. Mr. Sulekh Chand
4. Mr. Govind
5. Mr. Ajit
6. Mr. Sudesh Pal
7. Mr. Jitendra Kumar Arya
8. Mr. Gaurav Kumar Maurya

Media Committee

Members:

1. Dr. Amit Singh (Chairman)
2. Dr. Vinay Gupta
3. Ms. Priti Pandey
4. Mr. Shivam Jha

Finance and Audit Committee

Members:

1. Mr. Vipin Kumar, Chief Account Officer (Chairman)
2. Mr. Rakesh Agarwal

Security Committee

Members:

1. Dr. Sunil Kumar (Chairman)
2. Dr. Harish Kumar
3. Dr. Vijay Mishra (Proctor)
4. Dr. Azmat Kamal Ansari
5. Mr. Prem Pal Singh (ASO)
6. Mr. Ram Braj Singh (ASO)
7. Mr. Roopesh Kumar (ASO)
8. Mr. Arvind Kumar (ASO UPPKNL)

Volunteers

1. Dr. Sandeep Singh
2. Dr. Divine Mathur

Poster and Banner Committee

Members:

1. Dr. Rajesh Thakur (Chairman)
2. Dr. Pravesh Kumar
3. Dr. Namrata (Pulmonary medicine)

Volunteers

1. Dr. Raghvendra Gupta
2. Dr. Anamika Tyagi

Civil, Electricity, and Horticulture Committee

Members:

1. J E Electrical Mr. Shobhit
2. J E Civil & Horticulture Mr. Dhairya

General Administration Committee

Members:

1. Mr. K B Agarwal (Chairman)
2. Mr. Mithilesh Dixit

Award and Recognition Section

Category: Faculty (Faculty of Medicine) Basic Sciences



DR. PINKI PANDEY

DEPARTMENT OF PATHOLOGY

Spectrum and Prevalence of Infections Detected in Liquid-based Cytology of Cervical Smears



DR. NAND KISHOR GUPTA

DEPARTMENT OF ANATOMY

Variation in the Formation and Branching Pattern of Brachial Plexus in the Human Foetuses: A Morphometric Cross-sectional Study



DR. AMIT SINGH

DEPARTMENT OF MICROBIOLOGY

Phenotypic and Genotypic Characterization of Clinical Isolates of Carbapenem-Resistant *Acinetobacter baumannii*: A Cross-Sectional study

Award and Recognition Section

Category: Faculty (Faculty of Medicine) Clinical



DR. RAKESH BAHADUR SINGH

DEPARTMENT OF ANAESTHESIA

Comparative Study of Cold Sensation Pinprick, and Perfusion Index in Anaesthesia Evaluating the Quality of Ultrasound-Guided Supraclavicular Brachial Plexus Block: An Observational Study



DR. ATUL MISHRA

DEPARTMENT OF RADIOTHERAPY

Evaluation of tumor control probability and normal tissue complication probability in IMRT and VMAT: A comparative study for assessment of efficacy of radiotherapy plans in tumors of the thorax



DR. DEEPIKA DONERIA

DEPARTMENT OF ANAESTHESIA

A Comparison of the Efficacy of High-Dose Vitamin C Infusion and Thiamine (Vitamin B1) Infusion in Patients With Sepsis: A Prospective Randomized Controlled Trial



Award and Recognition Section

Category: Faculty (Faculty of Dental Sciences)



DR. BIPIN KUMAR YADAV

DEPARTMENT OF DENTAL

Assessment of the Efficacy of Subgingivally Delivered Liquorice Gel on Clinical Parameters and Prostaglandin E2 Levels in Chronic



DR. VIJAY MISHRA

DEPARTMENT OF DENTAL

Comparative Evaluation Of The Crestal Bone Level Around Dental Implants Placed In One Stage And Two Stage Surgical Approaches: A Clinico-Radiographic Study



DR. RAHUL MISHRA'

DEPARTMENT OF DENTAL

Evaluation of the Periodontal Inflammatory Effect on Erythrocyte Sedimentation Rate: A Clinical Study

Award and Recognition Section

Category: Faculty (Faculty of Pharmacy)



DR. YOGESH CHAND YADAV

Hesperitin loaded mesoporous silica Nanoparticles:
Assessment of bioavailability and neuroprotective
effect



DR. PRAVEEN KUMAR

Potent anticonvulsant compounds with anti
hyperalgesic activity in mouse formalin test of
hyperalgesia

Award and Recognition Section

Category: Faculty (Faculty of Nursing)



DR. SANDEEP ARYA

Positive Mental Health and Psychological Well-Being Among Undergraduate Students in Etawah District, Uttar Pradesh.



DR. VIKAS BHASKAR

Knowledge and Attitude regarding Antara (DMPA) Scheme among the Reproductive Age Women in Selected Rural Areas of Uttar Pradesh

Award and Recognition Section

Category: Faculty (Faculty of Paramedical Sciences)



DR. JYOTSANA SINGH

Healthcare Worker's Satisfaction Assessment for a Healthcare Adverse Event Reporting Framework and the Management Approach for Such Reporting in the Emergency Department of Rural Government Hospitals



DR. MAHENDRA SINGH

Assessment of Basic Life Support Knowledge among Allied Health Professionals: A Cross-Sectional Study in India.



Award and Recognition Section

Category: Post Graduate Students (Faculty of Medicine)



DR. ATIF KHAN

DEPARTMENT OF GENRAL SURGERY

Predicting Conversion From Laparoscopic to Open Cholecystectomy: A Prospective Risk Factor Analysis and Scoring Model Formulation



DR. HARISH CHANDRA MAURYA

DEPARTMENT OF BIOCHEMISTRY

Effect of adjunct Vitamin D treatment in vitamin D deficient Pulmonary Tuberculosis patient :A randomized double blinded active controlled trial.



DR. SHRESHTA SINGH

DEPARTMENT OF OBSTETRICS AND GYAECOLOGY

Comparative Study Of Use Of Carbetocin Versus Oxytocin For Prevention Of Postpartum hemorrhage In Cesarean Section: Randomised Controlled Trial At Rural Tertiary Care Centre

Award and Recognition Section

Category: Post Graduate Students (Faculty of Dentistry)



DR. NITIGYA KUMAR

Evaluation of efficacy of 1-PRF in the management of grade II furcation defect: A randomized controlled trial.



DR. DIWAKAR K.

A randomized controlled trial to compare the efficacy of curcumin gel and tetracycline gel as an adjunct to scaling and root planning by Azurocidin level in gingival crevicular fluid.



DR. MOHIT BANSAL

A randomized controlled trial to evaluate the efficacy of A-PRF on crestal bone level around immediate implant

Award and Recognition Section

Category: Under Graduate students(Faculty of Medicine)



MS. MARYAM ZAHRA

GUIDE: DR. SAVITA AGRAWAL
DEPARTMENT OF PATHOLOGY

Assessing Neutrophil-to-Lymphocyte Ratio (NLR) and Platelet-to-Lymphocyte Ratio (PLR) as Predictive Indicators for Acute Ischemic Stroke Prognosis



MR. SANKALP GUPTA

GUIDE: DR. GARGI UPADHYAY
DEPARTMENT OF MICROBIOLOGY

Detection Of Candida Auris Colonization Among Patients Admitted to Intensive Care Units, Their Immediate Environment, And Associated Health Care Workers in A Multi-Specialty Tertiary Care Center In Uttar Pradesh.



MR. ABHISHEK KUMAR

GUIDE: DR. REENA SHARMA
DEPARTMENT OF OPHTHALMOLOGY

A comparison of Ultrasonic Pachymetry and Anterior Segment Optical Coherence Tomography for measurement of Central Corneal thickness among glaucoma patients at Tertiary Care Hospital.

Category: Under Graduate Students(Faculty of Nursing)



MR. SHASHI PRAKASH

Comparison in Stress among Working Women and non-Working Women

Recognition Section

RECOGNITION ICMR - STS

S. No.	Name and batch	Year of award	Department	Guide	Project Title	Amount
1	Bhoomi Rajbhar 2024	2025	Biochemistry	Dr. Rajesh Kumar Thakur	Impact of Intermittent fasting on lipid profile and insulin sensitivity biomarkers.	60000
2	Samiya Hameed 2024	2025	Physiology	Dr. Anamika Singh	Caffeine Consumption and its Impact on sleep Quality, Daytime sleepiness and Academic Performance of Undergraduate First year Medical Students: A Cross Sectional Study.	60000
3	Shashikant Singh 2024	2025	Pathology	Dr. Savita Agarwal	Awareness, exposure Practices, and Self-reported Health effects Potentially Related to Microplastics among Undergraduate Medical Students: A Questionnaire-based Study.	60000
4	Khushboo Yadav 2024	2025	Physiology	Dr. Kirti Jaiswal	Assessment of Micronutrient Deficiency and its association with self Neglecting Behaviour among Biabetic women in rural Field Practice Area of tertiary Care Teaching Hospital in North India: A Mixed Methods Study.	60000
5	Tanisha Agrawal 2024	2025	Physiology	Dr. Amita singh	Prevalence of digital Eye Strain and its association with near and Distance Vision among School Students of rural Areas- A Cross Sectional Study.	60000
6	Ananya Singh 2023	2025	Pathology	Dr. Shabana Andleeb Ansari	Assessment of vitamin D status in Patients with Iron Deficiency Anemia: A Cross Sectional case Control Study at a Tertiary Care Rural Hospital in Uttar Pradesh.	60000
7	Shadan Chaudhary 2022	2024	Pathology	Dr. Himanshu Joshi	FNAC Diagnosed cases of necrotizing lymphadenitis and its correlation with haematological parameters	60000
8	Sankalp Gupta 2021	2024	Microbiology	Dr. Gargi Upadhyaya	Detection of Chandida auris colonization among patients admitted to intensive care units, their immediate environment and associated health care workers in a multi-specialty tertiary care center in Uttar Pradesh.	60000
9	Garima Goel 2023	2024	Biochemistry	Dr Shrishtidhar Prasad	Evaluating whether Vitamin C supplementation improves resilience against oxidative stress insult in type II diabetes mellitus and healthy individuals.	60000

ICMR- PG Thesis Support

S. NO.	Name	Batch	Department	Guide	Project Title	Amount
1	Dr. Anupriya Singh	2024	Pathology	Dr. Pinki Pandey	Molecular classification of Urothelial Carcinoma of Urinary Bladder Using immunohistochemical and Fish Based biomarkers: A study in a Tertiary Care Centre.	100000
2	Dr. Sharif Ur Rahaman Chowdhury	2024	Pathology	Dr. Pinki Pandey	Histopathological and Integrated Molecular Classification of CNS tumors as per WHO CNS 2021 Guidelines and its correlation with intraoperative Squash Cytology.	100000

Extra Mural Grant with Maximum Funding

S.N O.	Name	Designation	Department	Guide	Project Title	Amount
1	Dr. Sushil Kumar Shukla	Professor	DHR ICMR	Dr. Sushil Kumar Shukla	Evaluation of Salivary Metabolites as a Potential Prognostic Biomarker for Oral Squamous Cell Carcinoma using a High Performance Liquid Chromatography Technique [P25/Lrac-5	5550000

Inclusion in Stanford University's World Top 2%

S. No.	Name of Faculty	Department	Title	Issuing Agency	Year of Award	Duration
1	Dr. Ankur Vaidya	Faculty of Pharmacy	Stanford University World Top 2%	Stanford University	2024, 2025	One year

Patent (2023,2024, 2025)

S.NO.	Name	Department	Year of Patent	Patent Title
1.	Dr. Praveen Kumar	Faculty of Pharmacy	2024	1. Formulation of transdermal patch from nano suspended cefazolin sodium for wound management. 2. Laboratory equipment for drying of compounds 3. Smart laboratory equipment for parallel reflux Setup. 4. Centrifuge tube and cup stand. 5. Chemical reagent bottle. 6. Duo-access multi-purpose centrifuge tubes.
2.	Dr. Pushpendra Kumar	Faculty of Pharmacy	2023, 2024, 2025	1. Device for the detection of neurological Disorders from blood Plasma proteins. 2. Digital and Portable rota rod apparatus. 3. Laboratory Apparatus for Detection of Locomotor Activity in Rodents. 4. Tablet Dissolution Apparatus. 5. Device for Blood Sample Analysis. 6. Anutal Shampoo Powder composition
3.	Dr. Gaurav Dubey	Optometry	2023-2024	1. Portable Obstacle Altering System in Indoor Environment for the Visually Impaired. 2. Fatigue Analyzing Device. 3. AI-based smart glasses for determining retinal stress. 4. AR-Based Eye glasses. 5. ITO-based spectacles for detecting Ocular Strain.
4.	Dr. Vinay Gupta	Pharmacology	2023-2025	1. Thermal Camera For Detecting Rheumatoid Arthritis. 2. Digital Serum Protein Analyzer with Printing Technology 3. Mouth Cancer Detection Equipment. 4. Laboratory convulsimeter to predict convulsion Activity.
5.	Dr Vidya Sagar Ram	Medicine	2024, 2025	1. Portable lipid-thyroid diagnostic device 2. DNA polymorphism detection device 3. Digital Pad For Patient Data Entry
6.	Dr. Ajay Kumar Rajput	Orthopaedics	2024	1. AI-based clinical data Analysis. 2. Artificial Intelligence-enabled Non-invasive device for early detection of Osteoarthritis
7.	Dr. Ankur Vaidya	Faculty of Pharmacy	2023	1. Device for blood sample analysis 2. Tablet dissolution Apparatus.
8.	Dr Usha Shukla	Anaesthesia	2024	Artificial intelligence-based skin disease detection medical device
9.	Dr. Sandip Kumar	Community Medicine	2025	Environmental Air Pollution Detection Device
10.	Dr. Kirti Jaiswal	Physiology		Environmental Air Pollution Detection Device
11.	Dr. Ramesh Chand	Pediatrics	2024	Smart Biomedical Waste Container Thermal Camera
12.	Dr. Sunil Kumar	Orthopaedics	2023	for detecting rheumatoid Arthritis. Analgesimeter to
13.	Dr Urvashi Yadav	Anaesthesia	2025	predict analgesic activity
14.	Dr. Sanjay Kumar Kannaujia	Pathology	2025	Medical Apparatus for DNA Fingerprinting and Profiling
15.	Dr. Neha Dubey	Physiotherapy	2023-2024	AI-based Device for Migraine Detection.
16.	Dr. Rafey Abdul Rahman	Pediatric Surgery	2025	Neonatal Prolapse Treating Device Set.
17.	Dr. Abhigyan Manas	Oral & Maxillofacial Surgery	2025	Temporomandibular Joint Disorder scanning device
18.	Dr Shuchi Nigam	Anaesthesia	2024	Medicine Expiry Detector
19.	Dr Shipra Verma	Anaesthesia	2024	Medical waste disposal container lid.
20.	Dr. Yogesh Chand Yadav	Faculty of Pharmacy	2023	Digital actophotometer to evaluate the effect o drugs on the central nervous system.

Research Highlights of UPUMS (2024–2025)



UPUMS Saifai has demonstrated exceptional research performance in the years 2024 and 2025, with significant contributions across publications, funded research, student research, and clinical innovation.

Publications (last 2 years)

- The faculty published a total of 519+368 publications in national and international indexed journals, reflecting strong academic productivity.
- 46 books have been authored/edited by faculty.
- 101 book chapters have been contributed across diverse domains.

Research Projects

- 30 Intramural funded projects
- 36 Extramural funded projects
 - MRU-funded: 32
 - Other agencies: 04
- 09 Clinical Trials
- 92 Non-funded research projects were undertaken in various departments of the University.

Postgraduate & Undergraduate Research

- 252 PG theses completed
 - Medical students: 213
 - Paramedical students: 39
- 64 Undergraduate research projects completed, including:
 - 9 ICMR-STs projects
 - 55 other UG projects across various disciplines

1. Grants, Funding & Infrastructure

UPUMS continues to strengthen its research ecosystem through increased funding and infrastructural development.

Major Grants Received

- ₹1.723 Crore received through MRU for strengthening institutional research.
- ₹7,23,667 received in extramural grants from various agencies.
- The institution has conducted 12 registered clinical trials encompassing novel therapies, advanced diagnostics, and therapeutic interventions, in addition to undertaking 6 multicentric research projects in collaboration with reputed national and international institutions

Research Highlights of UPUMS (2024–2025)



Collaborations & MoUs

UPUMS has established partnerships with notable national and international bodies, including:

ShodhChakra (INFLIBNET) Centre
ShodhShudhhi
ShodhGanga
DrillBit plagiarism detection software- INFLIBNET-UGC
IIT Kanpur
Other reputed academic & research institutions(multicentric studies)

These collaborations enhance resource sharing, training, research quality, and innovation between two or more institutes.

2. Innovation & Intellectual Property

UPUMS encourages creative research translation through innovation and patent culture.

- More than 35 Patents have been filed/granted by faculty and researchers during the last 2 years. All these patents are available on search engine.

3. Awards & Recognition

Faculty Achievements

- 2 faculty members featured in **Stanford University's Top 2% Scientists List**, highlighting UPUMS' growing global research impact.
- 15 faculty members received awards from national and international academic bodies, professional associations, and research forums.

Student Achievements

- 11 PG students received awards for research excellence and conference presentations.
- 13 UG students received awards from various academic and scientific agencies.



4. Capacity Building & Skill Enhancement

UPUMS prioritizes strengthening research competency among students and faculty.

Workshops & Training

- Nine workshops and training programs were conducted to enhance research methodology, scientific writing, data analysis, ethics, and laboratory skills.

Sessions covered:

- Research design & biostatistics
- Good Clinical Practices (GCP)
- Plagiarism & publication ethics
- Grant writing & innovation
- Advanced laboratory techniques

These programs significantly contributed to improving institutional research capacity.

5. University Strengths in Research

UPUMS Saifai is emerging as a key academic–research hub with the following strengths:

- Growing publication output and innovation culture
- Strong MRU-supported infrastructure
- Expanding national/international collaborations
- Active clinical trial portfolio
- Increasing participation of UG and PG students in research
- Dedicated faculty involvement in funded and high-impact research

6. Our Limitations

A. Limited Dedicated Research Infrastructure

- Insufficient advanced research laboratories, high-end equipment, and specialized facilities (e.g., genomics, molecular biology, biostatistics units).
- Limited centralized facilities such as data analysis cores, or bio-repositories.



B. Limited Interdisciplinary & Industry Collaboration

- Few structured partnerships with engineering, biotechnology, or data science institutions.

C. Digital & Data Management Limitations

- Insufficient digital platforms for electronic data capture, research databases, and analytics.

D. Constraints in Publication Quality

- High reliance on quantity rather than high-impact journals and limited mentoring for improving publication quality, writing skills, and targeting indexed journals.

E. Commercialization & Intellectual Property Challenges

- Limited infrastructure for supporting patent drafting, filing, and technology transfer.

7. Envisioning the future

UPUMS aims to further strengthen its research ecosystem through enhanced collaborations, increased grant acquisition, development of research infrastructure, and greater focus on impactful, community-centric, and translational research.

The University needs to improve the quality of faculty publications. We also can work on motivating our faculty and students for more extramural projects from National research funding agencies (like ICMR, DST, DBT and UGC). We can focus more on community and public health research. Data-driven research is an area of work beyond current boundaries.

Atul Mishra honored with prestigious Medical Physicist Award



The Abdus Salam
International Centre
for Theoretical Physics



6 ICTP
1964-2024

Joint ICTP-IAEA Workshop on Radiation Protection in Image-Guided Radiotherapy (IGRT)



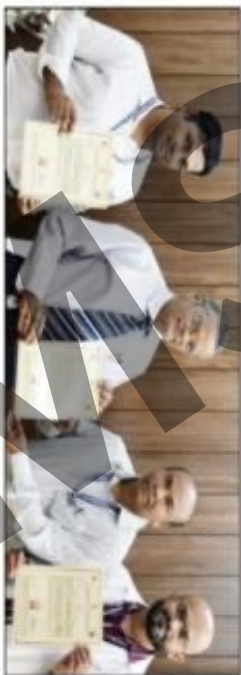
डीएनए फिजियोलॉजी एवं प्रोफाइलिंग उपकरण

के लिए भारत सरकार ने दिया पेटेंट

(माधव संदेश) सैफई

(इटावा)। उत्तर प्रदेश आयुर्विज्ञान विश्वविद्यालय (यूपीयूएमएस), के लिए यह गौरव भरा मौका है कि विश्वविद्यालय के संकाय सदस्यों के नाम , जिनमें डॉ. संजय कुमार कर्जोजिया, डॉ. अजय कर्माकर अंसारी, डॉ. मंजीला सावले, डॉ. गोला मौर्या, डॉ. सज्जन कुमार गुप्ता एवं संकाय सदस्य शामिल हैं, को डीएनए फिजियोलॉजी एवं प्रोफाइलिंग

अत्यधिक उपयोगी सिद्ध होंगे। सटीक जैवैतिक परीक्षण में उपयोग करने के लिए विश्वास जताया है कि यह होगा। योग क्षेत्र में - उत्तर प्रदेश





Congratulations!

ON BEING SELECTED IN THE
ICMR STS-2025 PROGRAM

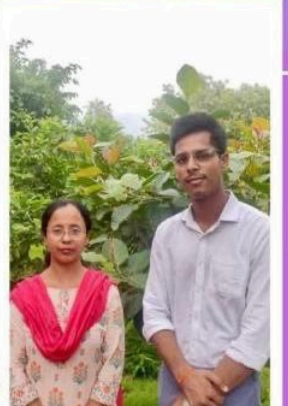
- ➔ Miss Tanisha Agarwal (MBBS Batch 2024)
- ➔ Mentor: Dr. Amita Singh, Assistant Professor, Department of Physiology
- ➔ Project Title: Prevalence of Digital Eye Strain and Its Association with Near and Distance Vision Among School Students of Rural Areas
- ➔ STS Reference ID: STS2025-20196




Congratulations!

ON BEING SELECTED IN THE
ICMR STS-2025 PROGRAM

- ➔ Mr. Shashikant Singh (MBBS Batch 2024)
- ➔ Mentor: Dr. Savita Agrawal, Professor, Department of Pathology
- ➔ Project Title: Awareness, Exposure Practices, and Self-reported Health Effects Potentially Related to Microplastics among Undergraduate Medical Students: A Questionnaire-based Study
- ➔ STS Reference ID: STS2025-22578




on being selected in the ICMR STS-2025 Program

- ➔ Miss Khushboo Yadav (MBBS student, Batch 2024)
- ➔ Mentor: Prof. Kirti Jaiswal, Dept. of Physiology)
- ➔ Project Title: Assessment of Micronutrient Deficiency and Its Association with Self-Neglecting Behaviour Among Diabetic Women in Rural Areas: A Mixed-Methods Study
- ➔ Project Code: STS2025-20994)



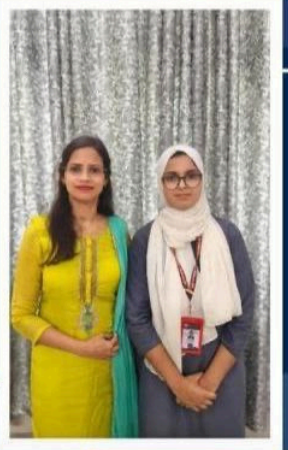
Prof. (Dr.) Ajai Singh, Vice Chancellor
Uttar Pradesh University of Medical Sciences, Saifai



Congratulations!

ON BEING SELECTED IN THE
ICMR STS-2025 PROGRAM

- ➔ Miss Samiya Hameed (MBBS Student, Batch 2024)
- ➔ Mentor: Dr. Anamika Singh, Department of Physiology
- ➔ Project Title: Caffeine Consumption and its Impact on Sleep Quality, Daytime Sleepiness and Academic Performance of Undergraduate First Year Medical Students: Across-Sectional Study
- ➔ STS Reference ID: STS2025-22463




“Celebrating Research, Igniting Minds”



UPUMS 2025 1st RESEARCH REPORT



DATE :

4 th December 2025

ORGANISED BY :

Research cell, UPUMS



05688-276563



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Saifai, Etawah, Uttar Pradesh