



# INTERNATIONAL CONFERENCE

ON

## Scientific Research in Unani Medicine: Current Trends and Approaches



MINISTRY OF  
**AYUSH**

AYURSWASTHYA YOJANA SCHEME  
GOVT OF INDIA



**Centre of Excellence in Unani Medicine**  
(Pharmacognosy and Pharmacology)



# INTERNATIONAL CONFERENCE

## 2024

on

**Scientific Research in Unani Medicine:  
Current Trends and Approaches**

21-22 February, 2024  
Jamia Hamdard, New Delhi



**Theme of Event:** International Conference on “Scientific research in unani medicine: current trends and approaches”

**Name:** Inauguration, registration and keynote addresses

**Date of Event:** 21<sup>st</sup> February, 2024

**Location of Event:** HAH Archives Auditorium, Jamia Hamdard

**Attendees:** 900+

### **Introduction**

International Conference 2024 was organized by Centre of Excellence in Unani Medicine (Pharmacognosy and Pharmacology), Bioactive Natural Product Laboratory, Jamia Hamdard in association with CCRUM, UDMA and SFE on 21<sup>st</sup>-22<sup>nd</sup> February 2024, at New Delhi, India under Ayurshwasthya Yojana of Ministry of Ayush, Govt of India at HAH Archives Auditorium, Jamia Hamdard, New Delhi, India.

The Conference and workshop reviewed, discussed, and explored the theme *Scientific research in Unani medicine: current trends and approaches* and *Capacity building of AYUSH professionals*. The conference focused on Current Trends and approaches in research on Unani Medicine with emphasis on development of synergy-based products with scientific validation of traditional claims. The first day of the conference featured registration, an inaugural ceremony, and keynote addresses. Following this, the second day comprised plenary sessions/panel discussions covering topics on management of chronic diseases (esp. liver and kidney) in Unani medicine: opportunities and challenges, and modernization of Unani dosage forms: current need and Unani principles. Additionally, there were short lectures by young faculty members, accompanied by scientific poster/oral presentations. The valedictory session marked the conclusion of the conference, where recipients of the Hakeem Abdul Hameed Young Researcher Awards, along with the best poster and oral presenters, were acknowledged and felicitated. Additionally, sponsors were recognized and appreciated for their valuable contributions to the success of the event. The workshop mainly focused on skill development with demonstration in the emerging areas of research in Unani Medicine especially *In silico* Network Pharmacology, AI in data analytics, Zebrafish as a Screening model and *In vitro* Cytotoxicity of herbal drugs.

Over 900 participants, including delegates, volunteers, students, and guests, registered for the conference from both national and international backgrounds. Distinguished speakers from India and abroad, including Italy and Saudi Arabia, shared their expertise in the traditional system of medicine with the audience. Additionally, Unani manufacturers such as Limra Remedies and Nasreena (New Royal Products) set up stalls to exhibit their top-selling products.

Jamia Hamdard is a prestigious institution renowned for its academic excellence, and has been recognized as an Institution of Eminence by Govt. of India. The School of Pharmaceutical Education and Research at Jamia Hamdard one of the oldest and most reputed Pharmacy Institutes of India, has been consistently *ranked #1* amongst the Pharmacy Schools of the country (*NIRF 2017, 2019, 2020, & 2021, Ministry of HRD, Govt. of India*). The Bioactive Natural Product Laboratory, is a well-equipped laboratory in the Department of Pharmacognosy and Phytochemistry recognized as a Centre of Excellence in Unani Medicine by the Ministry of Ayush, Government of India, is engaged in significant researches on traditional medicines and herbal drugs, with several academic and industrial collaborations both Nationally and Internationally.

The inauguration ceremony of the conference was widely covered by several media outlets, including **Avadhnama, Sadaewaqt.com, Adbi Miras, Sahafat, and Hindustan Express**, highlighting the event's significant success and impact.

## **Summary**

The conference began with a warm welcome extended to all esteemed dignitaries, participants, and guests. Dignitaries were greeted with traditional tokens of appreciation, including a planter, shawl, and momento. The minute-to-minute program is provided in **table 1**. The event commenced with a soulful recitation of the Holy Quran, symbolizing the spiritual commencement of the proceedings and invoking blessings for its success. The atmosphere was further enriched by the melodious rendition of the Hamdard Tarana, echoing the cultural richness of the institution. **Prof (Dr) Sayeed Ahmad**, Director of the Centre of Excellence in Unani Medicine, Jamia Hamdard, delivered a heartfelt welcome note, setting the tone for the conference. Organizing Chairman, **Prof (Dr) Asim Ali Khan**, Dean of SUMER, Jamia Hamdard, provided insights into the objectives and vision of the Centre of Excellence. Organizing Co-Chairman, **Prof (Dr) Farhan Jalees Ahmad**, Dean of SPER, Jamia Hamdard, introduced the theme of the conference,

highlighting its significance and relevance in current times. The release of the Abstract Book by dignitaries on the dais and the Coordinator Scientific Committee, **Dr Rabea Parveen & Dr Bushra Parveen**, marked a significant milestone in the conference proceedings, showcasing the breadth and depth of research contributions. Esteemed Guest of Honor and Special Guests graced the occasion with their insightful addresses, sharing their expertise and perspectives on the conference theme. Notable speakers included **Prof (Dr) Pulok K Mukherjee**, **(Dr) Abdul Wadud**, **Prof (Dr) Marco Leonti**, and **Dr CK Katiyar**. Their speeches provided valuable insights and set the stage for enriching discussions. The Presidential remarks by Vice Chancellor, Jamia Hamdard, **Prof (Dr) M Afshar Alam**, underscored the institution's commitment to academic excellence and research advancement. **Prof. Pulok K. Mukherjee** and **Prof. Marco Leonti** provided enlightening keynote addresses, offering valuable insights into various facets of medicinal research and the utilization of botanical drugs. Prof. Mukherjee's presentation, titled "Metabolomic and ethnopharmacology: exploring ancestral medicine," delved into the intersection of traditional medicine and modern scientific approaches and explain the concept of synergy as the combined therapeutic effects achieved when multiple plant compounds interact synergistically within the body to produce enhanced health benefits. On the other hand, Prof. Leonti's address, "How taste shaped the use of botanical drugs," explored the influence of sensory perception on the application of medicinal plants. These addresses significantly enriched our understanding of these subjects. Following these engaging presentations, **Dr. Mohammad Ahmad Khan**, Department of Pharmacology at SPER, Jamia Hamdard, extended a vote of thanks. His acknowledgment concluded the inaugural program on a high note, highlighting the seamless coordination and the resounding success of the event.

**Table 1: Inaugural program**

02:30 - 02:35 PM	Welcome to the Dignitaries
02:35 - 02:40 PM	Recitation of Holy Quran
02:40 - 02:45 PM	Hamdard Tarana
02:45 - 02:50 PM	Welcome note by <b>Prof (Dr) Sayeed Ahmad</b> , <i>Director, Centre of Excellence in Unani Medicine, Jamia Hamdard</i>
02:50 - 02:55 PM	Introduction to CoE by Organizing Chairman, <b>Prof (Dr) Asim Ali Khan</b> , <i>Dean, SUMER, Jamia Hamdard</i>

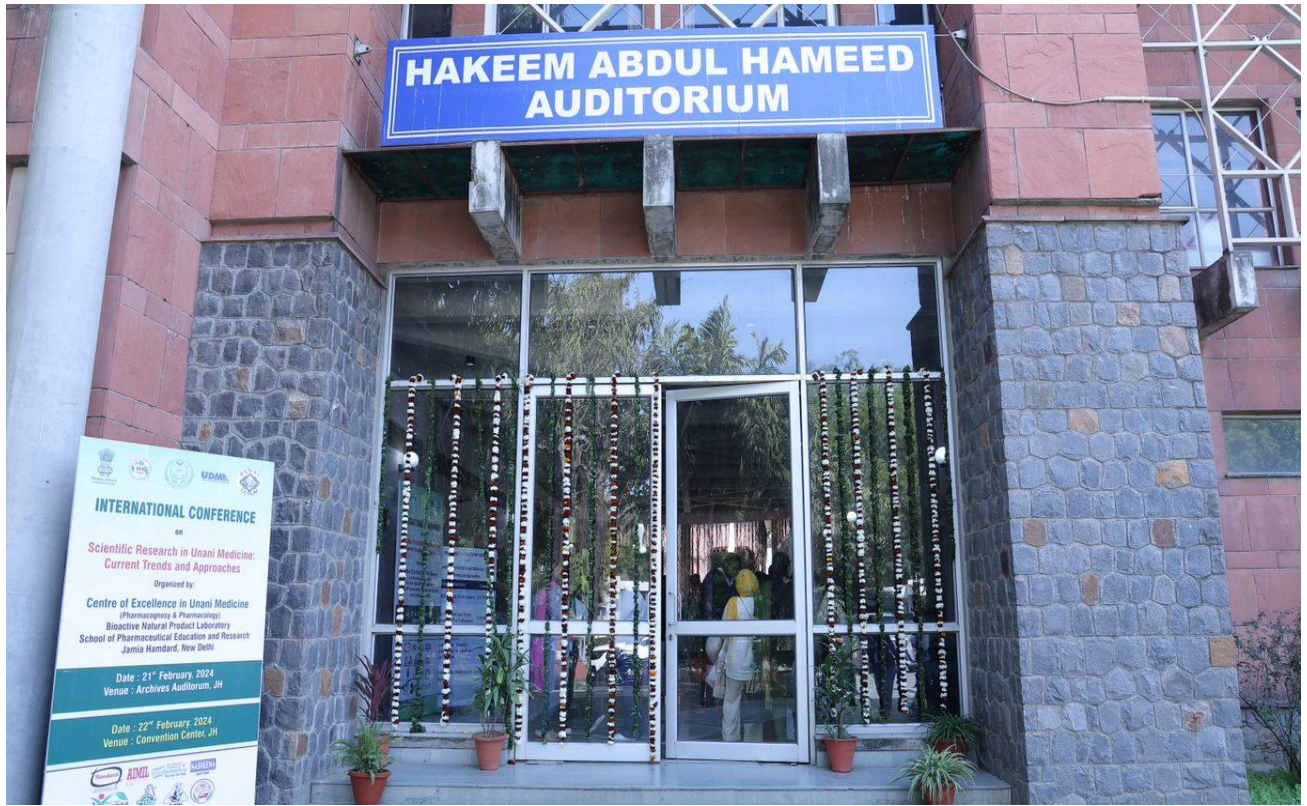
02:55 - 03:00 PM	Introduction to Theme of conference by Organizing Co-Chairman, <b>Prof (Dr) Farhan Jalees Ahmad</b> , <i>Dean, SPER, Jamia Hamdard</i>
03:00 - 03:05 PM	Release of Abstract book by dignitaries on dais and <i>Coordinator Scientific Committee</i> , <b>Dr Rabea Parveen &amp; Dr Bushra Parveen</b>
03:05 - 03:10 PM	Address by Guest of Honor, <b>Prof (Dr) Pulok K Mukherjee</b> , <i>Director, IBSD, Imphal</i>
03:10 - 03:15 PM	Address by Guest of Honor, <b>Dr Raman Mohan Singh</b> , <i>Director, PCIM&amp;H</i>
03:15 - 03:20 PM	Address by Guest of Honor, <b>Prof (Dr) Abdul Wadud</b> , <i>Director, NIUM, Bengaluru</i>
03:20 - 03:25 PM	Address by Guest of Honor, <b>Prof (Dr) Marco Leonti</b> , <i>University of Cagliari, Italy</i>
03:25 - 03:30 PM	Address by Guest of Honor, <b>Dr CK Katiyar</b> , <i>Advisor, Emami</i>
03:30 - 03:35 PM	Address by Guest of Honor, <b>Prof (Dr) Mohammad Fahad Alajmi</b> , <i>King Saud University</i>
03:35 - 03:40 PM	Address by Special Guest of Honor, <b>Janab Sajid Ahmed</b> , <i>CEO, Treasurer/Secretary, HNF</i>
03:40 - 03:50 PM	Address by Chief Guest, <b>Dr N Zaheer Ahmed</b> , <i>DG, CCRUM</i>
03:50 - 04:00 PM	Presidential remarks by Vice Chancellor, Jamia Hamdard, <b>Prof (Dr) M Afshar Alam</b>
04:00 - 04:10 PM	Felicitation of Dignitaries
04:10 - 04:20 PM	Keynote address by <b>Prof (Dr) Pulok K Mukherjee</b> , <i>Director, IBSD, Imphal</i>
04:20 - 04:30 PM	Keynote address by <b>Prof (Dr) Marco Leonti</b> , <i>University of Cagliari, Italy</i>
04:30 - 04:35 PM	Vote of thanks by Coordinator, <b>Prof (Dr) Anwar Hussain</b> , <i>SUMER, JH</i>
04:35 - 04:40 PM	National Anthem

**Photos of International Conference on Scientific research in Unani medicine: current trends and approaches, organized on 21<sup>st</sup> February 2024, organized by Centre of Excellence in Unani medicine (Pharmacognosy and Pharmacology) BNPL, Jamia Hamdard, New Delhi in association with SFE, UDMA, and CCRUM**

**Registration**



INTERNATIONAL CONFERENCE on Scientific Research in Unani Medicine: Current Trends and Approaches	
Participant Category	Counter
SUMER and SPER Faculty Members	COUNTER NO. 1
Oral Presenters and Poster Presenters (Non-Volunteers)	COUNTER NO. 2
Resource Persons Session Chair / Panelist / Poster Evaluator /Speakers / Short Lectures	COUNTER NO. 3
Participants Registered only as Delegates	COUNTER NO. 4
Volunteers	COUNTER NO. 5



Inauguration

















## Keynote address













### کسان تحریک: پیرامن طریقہ سے وہلی جانے دیا جائے جسکو حکومت بخون کی پیاسی تہ سے



کسان تحریک کے قائدوں نے کہا ہے کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

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### سپریم کورٹ کا فیصلہ برہمتی تانا شاہی کو سخت پیغام



سپریم کورٹ کے فیصلے کے بعد تانا شاہی کو سخت پیغام دیا گیا ہے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

### خاموشی کی چٹائی پر ہے۔ لیڈنگ کی چٹائی پر ہے۔

خاموشی کی چٹائی پر ہے۔ لیڈنگ کی چٹائی پر ہے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

### ہلدیوں میں تانہ ترین بی بی جی ریلیف تقسیم 6 مہینوں کے کال خانہ دوولڈنگ کا ٹیکہ دیا گیا



ہلدیوں میں تانہ ترین بی بی جی ریلیف تقسیم 6 مہینوں کے کال خانہ دوولڈنگ کا ٹیکہ دیا گیا۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

### امارت کی سٹی کے پانچویں ای ایم کے خلاف احتجاج

امارت کی سٹی کے پانچویں ای ایم کے خلاف احتجاج کیا گیا ہے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

### لوگ بلا خوف ووٹ دینے کے لیے جاسیں: بی جے پی کارکن

لوگ بلا خوف ووٹ دینے کے لیے جاسیں: بی جے پی کارکن۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

### فرقہ پرکھ اور بے کام پروٹ مائل کا نالہ کی صورت کیلئے مسائل

فرقہ پرکھ اور بے کام پروٹ مائل کا نالہ کی صورت کیلئے مسائل۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

## 8 صحت و سہولیات وزیر اعلیٰ یا تارک اسکیم کے تحت 91 ویں ٹرین دوار کا وحیش کے لیے روانہ ہوئی

وزیر اعلیٰ یا تارک اسکیم کے تحت 91 ویں ٹرین دوار کا وحیش کے لیے روانہ ہوئی۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

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### چندی گڑھ ستر کتاب میں سپریم کورٹ کا فیصلہ مل گیا: بی جے پی کارکن

چندی گڑھ ستر کتاب میں سپریم کورٹ کا فیصلہ مل گیا: بی جے پی کارکن۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

### بی جے پی کو سکوں کی تاریخ پر ہمتی جائے: جرنیل عثم

بی جے پی کو سکوں کی تاریخ پر ہمتی جائے: جرنیل عثم۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

### چوٹی منزل سے گرنے سے مزدوری موت ہوتی تھی

چوٹی منزل سے گرنے سے مزدوری موت ہوتی تھی۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

### 1600 کروڑ سے ایک ہفتے کے لیے سٹی جینتین کے موجودہ محتانات

1600 کروڑ سے ایک ہفتے کے لیے سٹی جینتین کے موجودہ محتانات۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

### ہم نصابی و نصابی کے سرگرمیاں طلبہ کی ہمہ گیر شخصیت کے ارتقا میں محدود معاون: جے جے ایم

ہم نصابی و نصابی کے سرگرمیاں طلبہ کی ہمہ گیر شخصیت کے ارتقا میں محدود معاون: جے جے ایم۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔ انہوں نے کہا کہ حکومت کو کسانوں کی پیاسی تہ سے وہلی جانے دیا جائے۔

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**مصلحتی عجیب**

شہینہ، مصلحتی ڈور بھگتانی، ہر طرح کی مصلحتی مصلحتی

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## DAY 2

### HALL 1

It comprised a series of keynote addresses and panel discussions on various aspects and challenges of scientific research in Unani medicine. The keynote speakers were renowned experts and professionals from national and international institutions and organizations, who shared their knowledge and experience on topics such as the evaluation of efficacy and safety of Unani formulations and their constituents, identification and quality control of medicinal plants and other traditional resources.

### KEYNOTE ADDRESS

**Keynote address by Dr M Rashid, University of Dhaka, Bangladesh**



In his presentation titled "Bioactive Compounds from Medicinal Plants," Dr M. Rashid from the University of Dhaka, Bangladesh highlighted the remarkable potential of natural sources in providing therapeutic compounds, emphasizing the significance of traditional medicines in global healthcare. Dr Rashid underscored the pressing concern of antimicrobial resistance and the emergence of superbugs, emphasizing the urgent need for novel antimicrobial agents. Drawing

from both scientific research and traditional wisdom, he noted the growing scientific interest in exploring natural sources for antimicrobial products. He referenced a Hadith regarding the healing properties of Black Cumin, exemplifying the longstanding recognition of medicinal plants in various cultures. Specific compounds like Usnic acid, found in False Ashoka and Red Jasmine, were discussed for their potential medicinal benefits, including antibacterial, anti-cancer, anti-diabetic, and analgesic properties. Dr Rashid advocated for further research into promising candidates such as *Nigella sativa*, particularly for isolating constituents effective against multi-drug-resistant microbes. Additionally, he stressed the importance of exploring compounds like Usnic acid and constituents of *Eclipta protista* for their therapeutic potential. Dr Rashid's presentation provided valuable insights into the rich pharmacological reservoir offered by medicinal plants, underscoring the need for continued exploration and research to harness their healing properties effectively.

#### **Keynote address by Dr C.K Katiyar, Emami**

In his presentation, Dr. C.K. Katiyar discussed the opportunities and challenges in the AYUSH industry, highlighting several key points. India holds a significant 2.8% share of the global market in AYUSH products and stands as one of the leading exporters alongside China. Despite challenges such as the lack of standardized evaluation models and parameters for herbal raw materials, the industry has shown remarkable growth, surpassing even India's niche industries. However, issues like the rejection of raw materials due to poor cultivation practices and discrepancies in product composition pose significant hurdles.



Dr. Katiyar emphasized the need for phytochemical marker-based standardization, with a focus on water-based extracts and complete chemical profiling. To address gaps in product consistency, revisiting marker compounds and improving chemistry methods were proposed. Furthermore, the role of bioassay and validation was stressed for both classical and proprietary AYUSH medicines. Looking ahead, Dr. Katiyar suggested integrating herb-drug interaction protocols, developing natural additives, identifying biological activity markers, and enhancing measures for microbial quality assurance. Overall, the presentation outlined a comprehensive strategy to overcome challenges and capitalize on the immense potential of the AYUSH industry.

Keynote sessions were followed by high tea.

## PANEL DISCUSSIONS



The panel discussions were focused on specific themes and issues related to the management of chronic diseases (especially liver and kidney diseases) in Unani medicine, the role and scope of Unani medicine in public health, the integration of Unani medicine with modern medicine, and the future prospects and opportunities of Unani medicine. The panelists were representatives from different sectors and stakeholders of Unani medicine, such as regulatory authorities, industry associations, academic institutions (both modern and Unani), and research organizations. They engaged in lively and constructive debates and discussions with the moderators and the audience,

and offered their suggestions and recommendations for the improvement and growth of Unani medicine.

## **PANEL 1: Management of Chronic Diseases (esp. Liver and Kidney) in Unani Medicine: Opportunities and Challenges**

The panel discussion on the management of chronic kidney disease (CKD) addressed key issues related to the regulation of traditional medicine and steps to improve its efficacy and safety.



### **Lacunas in Regulation of Traditional Medicine:**

**Lack of Standardization:** Ensuring batch-to-batch consistency of herbal products remains a major challenge.

**Authentication of Drugs:** Identification and authentication of herbal drugs are crucial but often overlooked aspects.

**Compliance with Guidelines:** While guidelines for safety and efficacy parameters exist, adherence to them needs improvement.

**Understanding Regulation:** Merely following regulations without understanding their implications poses a significant issue.



### **Steps for Improvement:**

Collaboration Between Academia and Industry: Dr. Arun Gupta emphasized the importance of collaborative efforts between academia and industry for enhanced research and development.



Formulation Adherence to GMP Guidelines: Dr. Deepika Gunawaht stressed the need for formulations to adhere strictly to Good Manufacturing Practice (GMP) guidelines for efficacy and safety.



Research in Accordance with Regulations: **Dr. Surender Singh** highlighted the necessity of conducting research in line with regulatory requirements, ensuring efficacy and safety.

**Focus on Basic Principles:** Emphasizing the practical application of basic principles in research and development processes.



**Synergistic Study in Traditional Medicines:** Exploring synergistic effects between different traditional medicine systems like Unani and Ayurveda for improved efficacy.

**Mechanistic Study for Drug Evaluation:** Conducting mechanistic studies to better understand the mode of action and effects of traditional medicines.

**Enhanced Identification and Authentication:** Dr. Surender Singh pointed out the need for improved identification and authentication processes, particularly in Unani medicine.

**Pre-clinical and Clinical Trials:** Conducting robust pre-clinical and clinical trials to validate the safety and efficacy of traditional medicines. Overall, the panel highlighted the importance of regulatory compliance, collaborative research efforts, and adherence to standardization and authentication processes to ensure the effectiveness and safety of traditional medicines in managing chronic kidney disease and other health conditions.



The discussion highlighted several lacunas in the regulation of traditional medicine, including issues with batch-to-batch consistency of herbal products, lack of understanding and implementation of regulations, and the need for better identification and authentication of drugs. Despite these challenges, panelists emphasized the safety and efficacy of AYUSH medicines, advocating for adherence to GMP guidelines, rigorous research studies, and collaboration between academia and industry. Dr. Arun Gupta stressed the importance of collaboration and in vivo research studies, while Dr. Deepika Gunawaht emphasized the need for effective formulations that comply with GMP guidelines. Dr. Surender Singh highlighted the progression of chronic liver diseases and underscored the importance of following ICMR and OECD guidelines. He emphasized the necessity of understanding and implementing regulations, conducting mechanistic studies, and focusing on the selection of effective drugs. Overall, the panel discussion emphasized the importance of addressing regulatory lacunas, conducting robust research, and enhancing collaboration to ensure the safety and efficacy of traditional medicines for chronic diseases.

### **PANEL 2: Modernization of Unani dosage forms: Current need and Unani principles**

The panel discussion on the modernization of Unani dosage forms delved into the current needs and principles of Unani medicine, aiming to strike a balance between preserving traditional wisdom and integrating contemporary scientific advancements to enhance the efficacy and accessibility of Unani treatments.

Dr. Khalid set the stage by providing an insightful overview of Unani medicine, highlighting its historical significance and core principles. He elucidated the classification of Herbal drug BCS class and expounded on Rule 158-B of drug rules, laying a solid foundation for the subsequent discussions.



**Importance of Modernization:**

Dr. Sayeed expanded on the necessity of modernization within the Unani system. He underscored the importance of embracing modern advancements while retaining the essence of traditional knowledge. Dr. Sayeed delineated dos and don'ts in the modernization process, emphasizing the need for a delicate balance to ensure the preservation of traditional wisdom.



### **Insights and Recommendations:**

Insights from Dr. Srikant focused on optimizing dosage form delivery systems in Unani medicine. He stressed the importance of understanding bioavailability and retention time to enhance efficacy, advocating for the incorporation of complex scientific approaches in refining Unani formulations.



**Dr. Abid** highlighted advances in Unani formulation to address existing shortcomings. He emphasized the significance of reducing formulation size and developing sugar-free alternatives, signaling a departure from traditional practices to meet contemporary standards.

Professor Asgar Ali defined key parameters critical for effective Unani formulations, particularly tablets. He emphasized bioavailability, disintegration time, identification of markers, and the improvement of pharmacokinetic parameters, stressing the need for precision in dosage delivery.



**Dr. Sanjay** contributed insights on innovation in Unani dosage delivery, emphasizing the importance of delivering medications conveniently and effectively. He highlighted the potential for maintaining composition while innovating in the delivery process, aiming to enhance patient experience and compliance.



**Regulatory Considerations and Concluding Remarks:**

**Dr. Rachna Paliwaal** emphasized the importance of adapting regulations to meet the evolving needs of the AYUSH system. She highlighted the significance of state regulations in enforcing AYUSH systems, underscoring the potential impact of regulatory modifications.



In concluding remarks, Chairpersons emphasized the importance of scientific validation, extensive research initiatives, and user-friendly formulations to fortify the foundations of the AYUSH system. They advocated for regulatory adaptability and robust research frameworks to ensure the continued evolution and credibility of Unani medicine.

Overall, the panel discussion underscored the imperative of modernizing Unani dosage forms while upholding its fundamental principles, aiming to enhance efficacy, accessibility, and acceptance in contemporary healthcare practices. The panel discussion on the modernization of Unani dosage forms focused on the current needs and principles of Unani medicine, highlighting various perspectives and approaches to enhance its effectiveness and accessibility. **Dr. M Khalid** provided an introduction to Unani medicine, discussing its categories as per Schedule T and explaining Rule 158-B of drug rules. He also discussed the classification of the Herbal drug BCS class.



**Prof. Sayeed Ahmad** addressed the limitations of converting all Unani medicines into nanomedicine due to inherent constraints. **Dr. M Aqil** emphasized the development of novel drug delivery systems such as NLC and Vesicle, along with the transformation of Unani formulations into nano size to improve efficacy and address issues like sugar content in traditional formulations.

**Prof. Dr. Farhan** advocated for modernizing old formulations and leveraging compounds formulated in the Unani pharmacopeia to enhance potency, particularly in diseases like cancer and hepatitis.



**Prof. Asgar Ali** discussed enhancing bioavailability and developing sustained release formulations using techniques like solid dispersion and layered tablets. Dr. Sanjay highlighted the importance of innovation in traditional medicine, emphasizing the need for hygienic routes of administration and exploring food technology for formulation development. The panel stressed the significance of compliance, convenience, and precise drug delivery mechanisms in modernizing Unani drugs, proposing approaches such as freeze-dried herbal formulations and layered tablets to address these challenges. Overall, the discussion underscored the importance of adapting traditional medicine to contemporary needs while preserving its fundamental principles.

The panel discussion was followed by lunch.





## Plenary Session

**Chairpersons:** Dr Ubaidullah Khan AMU, Aligarh  
Dr TK Mukherjee Former Editor, IJTK  
Dr Mahmooduz Zafar SCLS, JH

**Speakers:** Dr Ranjan Mitra Dabur India  
Dr Saif Ahmad JHMC, Pheonix, AZ, USA  
Dr M Rizwanul Haque Central University of South Bihar

Dr. Ranjan Mitra delivered a comprehensive presentation on "Integrated Approach Towards Botanical Authenticity and Adulteration Management." During his talk, he covered various aspects related to ensuring the authenticity of botanical products and managing adulteration. These included discussions on different methods for assessing botanical authenticity, such as morphological and genetic identity tests, as well as targeted versus untargeted analysis approaches. Dr. Mitra also delved into the use of NMR-based metabolomic screening for botanicals, emphasizing the importance of fingerprints and quality control measures, using *Euphorbia fischeriana* as a case study.

Furthermore, he shed light on the standards and characterization of honey, particularly focusing on adulterated and polyfloral honey types. Dr. Mitra elaborated on various examples of authentication using turmeric extract, showcasing the diverse applications of authentication methods in botanical products. Overall, his presentation provided valuable insights into the

complexities of ensuring botanical authenticity and effectively managing adulteration in the industry.

Next lecture was delivered by **Dr M Rizwanul Haque** on “Modulation of Apoptosis in Liver Cancer Cell Lines by Herbal Compound”. He discussed the combined effects of three compounds on inducing apoptosis-mediated cell death in Hepatocellular Carcinoma (HCC). It was observed that this combination possibly led to downregulation of telomerase and inhibition induced, contributing to the observed apoptotic cell death in HCC. The research findings suggest that arsenic trioxide in combination with herbal compounds, at their optimized doses, hold promise as both chemopreventive and therapeutic agents for the treatment of liver cancer. Additionally, the study underscores the importance of further investigations to explore the potential relationship between natural products and the regulation of telomerase binding proteins. Specifically, there was a need to elucidate how these natural compounds may influence the inhibition of telomere/telomerase in advanced stages of cancer. Such studies could involve the use of animal models to provide valuable insights into the mechanisms underlying the therapeutic effects of these compounds in liver cancer treatment. The session concluded with felicitation of speakers by distinguished chairpersons followed by felicitation of chairpersons.

### **Short lecture session by young faculty members**

**Chairpersons: Dr M A Jafri, JH, New Delhi**

**Dr Zahid Ashraf, JMI, New Delhi**

**Dr S Raisuddin, JH, New Delhi**

**Dr Uma Bhandari, SPER, JH, New Delhi**

**Dr Kshipra Misra, DRDO, Delhi**

**Dr Mohammad Hussain, JMI, New Delhi**

**Dr Pradeep Kumar, IBSD Imphal**

**Dr Shibli Jamil Ahmad, SPER, JH, New Delhi**

This session witnessed and appreciated the research work of young faculty members from different pharmaceutical colleges working on traditional medicine. They were provided with a platform to present their work, with each presentation allocated a total of 7 minute (5+2) for their presentation and questions and answers.





## HALL 2

### ORAL PRESENTATION SESSION (for Hakeem Abdul Hameed Oral Presentation Awards)

The oral presentation sessions for the Hakeem Abdul Hameed Oral Presentation Awards were conducted across four sessions, each covering a diverse range of topics in the field of Unani medicine.

#### Session 1



**1. MD. FAISAL KHAN-** discussed about the hijama therapy, it's view on Unani system, the different types of hijama, epidemiology, previous studies about the hijama's and its efficacy. The questions discuss where about the dry and wet cup method and which one is better how to maintain the aseptic condition and what is the duration of hijama therapy.

**2. DR. IRAM KHAN-** discussed about the effect of e-spring variable on PLGA based nanofibres for delivery of Sustainable released drug in this topic she covered about the delivery approach of drug and the use of nano fibre as it is economical effective and produce control and targeted release

of drug. She discussed about the spring setup Nanofibres and its ranges. The question discussed was about the percentage of those for sustain release and what are the oral Nano fibres.

**3. DR. ATOOFA**– from Bhopal discussed her review paper on the topic Unani drug and pharmacological action of their phytochemical constituent in the management of Acne Vulgaris which is an inflammatory disorder. She presented us the view point of Unani medicine on acne vulgaris, adverse effect of conventional medicine, drug use and its limitations. She also discussed about the treatment using Herbs and Minerals which poses bioactive compounds and anti-acne property.

## Session 2



**1.Yash Kalra** talked about the Implementing Network Pharmacology and Molecular Docking Studies to Investigate the Therapeutic Potential of different phytoconstituents isolated from Natural sources for the treatment of Seborrheic Dermatitis.

**2. Amaan Rehman** discussed about the challenges associated with globalization of Unani medicine, raising awareness of Unani medicine and so on. He also pointed out the impact of Unani formulations when its interaction with allopathic medicines.

**3. Dr. Quba Naaz** discussed about the role of Unani drugs in the management of Pharyngitis. In her presentation she explained about the risk factors and the prevalence of pharyngitis and how to differentiate between viral and bacterial pharyngitis. She further explained use of different Unani drugs in treatment of the above-mentioned diseases.

**4. Dr. Gulnaz Azmi** discussed about Non-alcoholic fatty liver disease (NAFLD) the most ubiquitous Disease, its risk factors and possible solutions.

5. **Divyanshu Srivastava** talked about different Unani-Based Herbal Remedies for Alzheimer's Disease. In his presentation he explained the uses of different herbs like Jal brahmi, Turmeric and Aswagandha for treatment of Alzheimer.



6. **Pearl Sharma** talked about the use of different Unani Herbal Remedies like safoof e rasha and Majoon e falsafa for the management of Parkinson's disease.

7. **Rupali Verma** have shown her presentation on how to Design experiment, develop and optimize dual drug-loaded Nano emulsion gel of herbal drugs for the treatment of Psoriasis.



**8. Dr. Gulistan Khanam** discussed on Physiological validation of Quwā Mudrika. She presented her review of literature on the above-mentioned topic.

**9. Abdul Rafeh Wani** also presented his literature review on the the Role of Miswak (*Salvadora persica*) in preventing Dental Caries. He explained the historical facts, prevention with unani medicine and pharmacological properties of different unani herbs.

**10. Gauri Goyal** showed molecular docking results of *Woodfordia fruticosa* Bioactive Compounds with Human Protein Kinase ZAK, a protein which has a role in Signalling cascade of cardiomyopathy via MAPK signaling pathway.



**10. Parakh Basist** presented her work on analysis of metabolites and synergistic nephroprotective effects of *Cinnamomum zeylanicum* and *Piper cubeba* in counteracting Cisplatin-Induced Kidney toxicity. She showed different in vitro and in vivo studies.

**11. Masheera Akhtar** discussed about the importance of oral hygiene, why it is important and use of different unani formulation and the evaluation of Herbal Tooth Powder for the Treatment of Plaque.

**12. Richi Goel** discussed about the role of phytoconstituents in treatment of multi drug resistance - tuberculosis. In her presentation she explained about the mechanism of antimicrobial resistance and how phytoconstituents can act synergistically with the antibiotics to overcome this resistance.

**13. Varda Naaz** presented case report study on the role of Unani composition in Menorrhagia.

**14. Tanzeela Khan** talked about the concept of maternal health care through Asbab -e-Sitta zarooriya, which is an important concept in Unani medicine.

**15. Ruhi Singh** explained about QBD based fabrication of herbal loaded nanoemulsion drug delivery system. She further discussed about the Selection of optimized formulation and its Characterisation.





### Session 3

**1- Varisha Khan** talked about the improvement of nutrition, flavonoids, pharmacological uses of flavonoids and concluded her presentation in around 6-7 minutes then chairpersons asked some related questions about her topic

**2- Mariya Khan** talked about novel lipid nanocarriers for intranasal delivery of anticancer drug combined with phytoconstituent for therapeutic intervention of glioblastoma in that she talked about objective of study ,rationale of disease, rationale for selecting lipid polymer hybrid nano particle ,plan of work experimental work done and preparation of dual drug lphnps for intranasal delivery and factors.



**3- Ayub Ahmad Khan** talked about liposomal intranasal delivery of tyrosine kinase inhibitor and phytoconstituent: Approach for parkinson's disease management in that he covered – introduction of parkinson's disease, rational of disease, causes of disease, objectives of study, his experimental work done, preparation of drug and phytoconstituent also he told about the validation method and optimisation.

**4- Tehzeeb Fatima** talked about the role of Vitamin D in alleviating primary dysmenorrhea: a comprehensive review, she enlighten broadly on dysmenorrhea and its need of study, also the procedure and literature review and lastly concluded her presentation.

**5- Gufishan Fatima** discussed about Dysmenorrhea and its meaning in unani literature and its treatment using unani drugs, like Babuna, Camomile, azoline, its antiinflammatory and antiseptic properties and anti prostaglandins and its collection and preparation and also explained the assesment criteria and also represented the related case study and lastly concluded her presentation with a statement that dysmenorrhea ,presently has no cure but this unani treatment can be given for temporary pain relief and then the chairpersons asked her related question like this drug can be

used in some other diseases? and is any recurrence of pain recorded? And she replied the questions nicely.



**6- Samra** talked about effects of plant based collagen and animal based collagen in knee osteoarthritis patients in that she told about osteoarthritis, its prevalence rate, collagen used for arthritis and also tells that animal based are directly originated from animal sources undenatured collagen and different type shows effectiveness of collagen, and plant based collagen are from plant derived ingredients and also plant based do not contain complete collagen and lastly concluded her presentation with answering the chairperson's question.



## Session 4

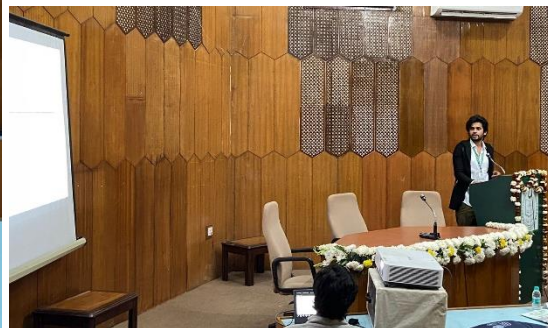
- 1- **Ramsha Anwar** talked about the concept of antenatal care in Unani system of medicine a review in this topic she covered about the introduction the systematic care of women during pregnancy objective of antenatal care and its definition. She also talked about the antenatal advice dietary advice minor element in the pregnancy its management and the single drugs and compound drugs used. Discussions were held about the use of papaya either ripe or raw during the pregnancy and what is its effect on pregnancy
- 2- **Shubhangi Chauhan** talked about the bio sensors for herbal medicine quality control she introduced biosensor and the element of biosensor and its elements. She also introduced about biosensors for antioxidant detection, biosensors for detection of bioactive compounds and toxins. She explained about the current trends and perspective in biosensors for herbal medicine quality control specific biosensors used for herbal medicine quality control such as electrochemical, optical and enzymatic.



- 3- **Chahat Tyagi** discussed integration of herbal medicine with wearable devices, introduced off to the wearable devices, its advantages and challenges. She also talked about the bioactive compound detection by close loop method personalized therapy she shows us the case studies and its result where she monitors the efficacy of a traditional Chinese herbal medicine for treatment of rheumatoid arthritis. The discussion was on the working of these devices.
- 4- **Dr. Farheen Khanam** explained the effect of Unani drugs in WAZA-UL-MAFASIL (Rheumatoid Arthritis) A case study.
- 5- **Swapnesh Bhaduri** talked on the topic of evaluation of the antioxidant and anti-cancer activities of *Abutilon indicum* basically known as Indian mallow. He presented about the

extraction process partition of extract using the separating funnel by ethanolic extract, thin layer chromatography and his future objectives.

- 6- **Ayesha Parveen** discussed evaluation of oral hygiene habits exploring herbal remedies among undergraduate medical studies. she talked about the world oral health day. She concluded it saying oral disease as communicable diseases and about the common risk factor associated with it.
- 7- **Dr. Mohammad Junaid** discussed about assessing the prevalence of chronic neck pain among the student at AMU a cross sectional online survey. He introduced about the neck paint and explained about the epidemiology of chronic neck pain in Unani system of medicine risk factors and the prevention of neck pain he also showed us the reports of demographic data collected through the online survey.
- 8- **Ruqaiya Saifi** presented on topic on Unani concept of Multazima Baad Sinneya's - a review. She talks about the expulsion power symptoms of menopause, hormonal changes and the management of it through various process such as Ilaaj bid Dava (treatment by drug), Ilaaj bid Giza (treatment by diet). She presented it beautifully.
- 9- **Anam Habib** talked about the effect of Unani Polyherbal formulation on Sala-e-Reham a case report. She talked about the aetiology, symptoms & sign and its management through medical, surgical and non- surgical method, historical background in Unani and the classification of Sala-e- Reham, general principle of treatment, diagnostic assessment, intervention-follow up and result and its observation.
- 10- **Riyaz Alam** , a research scholar from jamia hamdard talked about the unveiling Solanesol's neuroprotection in a tramadol induced Parkinson's zebrafish model- behavioural and Molecular insights. He talked about the experimental designs, effect of tramadol.



**11- Uzma Farooq** presented on the topic intravaginal myoinositol-metformin loaded mucus penetrating particles- based gel (MPPs gel) for PCOS Amelioration: an in- Vivo assessment on rat model. She covered graphical abstract formulation, about the confocal microscopy of coat vaginal tissue, it's treatment and post treatment effect on insulin. She also talked about the morphological condition of ovarian tissue and her studies.



Overall, the sessions provided insights into a wide array of Unani medicine topics, showcasing ongoing research and advancements in the field.



## POSTER PRESENTATIONS

Considering the current trends and approaches in Unani Medicine, papers were called, and accordingly, speakers were invited. Therefore, the following larger topics were set for more specific and in-depth academic discourse.

- Evaluation of efficacy and safety of herbs and their formulations
- Identification and quality control of medicinal plants and other traditional resources
- Chromatographic analysis including HPTLC, metabolomics, network pharmacology, pharmacokinetics, and stability studies of raw materials and formulations
- Interdisciplinary and integrative approaches for the promotion and development of traditional medicines including detoxification and modification of dosage forms
- Multitargeted synergy-based approaches in drug development and phytopharmaceuticals
- National and international regulatory challenges of the current global market, IP rights, and patents
- Clinical evaluation and pharmacovigilance studies of traditional medicines
- Studies on dietary supplements, nutraceuticals, and functional foods

Under these broader themes, 200 posters were selected for presentations.





Largely the presenters discussed, and explored the current Quality and Regulatory aspects of Unani medicine in India and abroad, management of chronic diseases (Liver, Kidney etc.), Ayush Aahar as well as modernization of dosage forms will be discussed at large.

The scientific work of the scholars was evaluated by the galaxy of evaluators.

## Felicitation of Evaluators





## VALEDICTORY SESSION

The valedictory session marked the culmination of a successful event, celebrating excellence and innovation in Unani medicine. Under the esteemed presence of dignitaries and scholars from various prestigious institutions and organizations, the ceremony honored outstanding contributions to the field of Unani medicine and provided a platform for scholarly exchanges and discussions.



### Highlights of the Event:

**Chief Patron's Address:** Janab Hammad Ahmed, Chancellor of Jamia Hamdard, delivered the opening remarks, emphasizing the importance of promoting traditional medicine and fostering collaborative research initiatives.



**Keynote Speech by chief guest:** Dr Mukhtar A Qasmi, Advisor (Unani) at the Ministry of Ayush, shared insights into the government's initiatives and policies to support and promote Unani medicine across the country.



**Welcoming of Guests of Honor:** Eminent scholars and experts, including Prof Pulk K Mukherjee, Prof Abdul Wadud, Prof Marco Leonti, Dr CK Katiyar, and Prof Mohammad F Alajmi, were welcomed with a planter.



**Acknowledgment of Organizing Committee:** The efforts of the organizing committee, led by Prof Asim Ali Khan, Prof Farhan Jalees Ahmad, and Prof Sayeed Ahmad, were acknowledged for their meticulous planning and execution of the event.



**Award Ceremony:** The presentations were evaluated by a panel of judges, who awarded the best oral and poster presentations in each session. The prestigious **Hakeem Abdul Hameed Awards** were presented to deserving individuals and organizations for their outstanding contributions to the field of Unani medicine along with the distribution of the best 3 poster awards, best 3 oral presentations and best 3 short lecture awards.



**Closing Remarks:** The session concluded with expressions of gratitude to all participants, sponsors, and supporters for their invaluable contributions towards the success of the event.

The valedictory session of the Hakeem Abdul Hameed Awards & Felicitations served as a platform for scholarly discourse, knowledge dissemination, and recognition of excellence in Unani medicine. At the end, the session closed with a vote of thanks. As the event concluded, participants departed with renewed enthusiasm and a strengthened commitment to furthering the advancements and promotion of Unani medicine in the contemporary healthcare landscape.



The conference was a landmark event in the history of Unani medicine, as it showcased the scientific potential and achievements of Unani medicine, and provided a platform for interaction and collaboration among researchers, academicians, and industry professionals. The presenters were awarded with a certificate of appreciation. The conference also generated new ideas and insights for the future research and development of Unani medicine and highlighted the challenges and opportunities for Unani medicine in the global scenario. The conference also inspired and motivated the young researchers and scholars of Unani medicine to pursue research and innovation in this field, and to contribute to the advancement of science and society.

