

Conference Report and Photograph

The Department of Biotechnology, Jamia Hamdard in collaboration with the Department of Biotechnology and the Department of Science & Technology, Ministry of Science & Technology, Government of India organized a Two-Day National Conference on “Biotechnology for Sustainable Development and Human Welfare” on 23rd & 24th November, 2022. The conference was sponsored by DBT and DST (SERB), Government of India. The Chief Guest, Prof. Asim Ali Khan, Director General of CCRUM, Ministry of AYUSH, Govt. of India graced the event by his presence and enlightened the participants with the need for interdisciplinary research and collaboration between industry and academic as well as research institutions. The presidential speech was delivered by Prof. (Dr.) M. Afshar Alam, Vice-Chancellor, Jamia Hamdard in which he said that hunger, poverty, climatic changes are big challenges which the world is facing, for which a coordinated and dedicated research-based approach and implementation is required. Prof. (Dr.) M. Z. Abdin, the Organizing Secretary of the conference, informed that Department of Biotechnology, Jamia Hamdard is engaged in various biotechnological research projects and has been granted patents.

More than 250 scientists, delegates and researchers working in the field of biotechnology, agriculture, and sustainable development presented their research papers and views on cutting edge technologies and ongoing research in the field of biotechnology to achieve the United Nation’s Sustainable Development Goals. There were 11 Plenary talks and 25 invited talks on a variety of important topics related to sustainable development and contributed to address the global challenges we are facing and what measures we can take to solve the hurdles.

The oral presentations by 17 researchers and poster presentations by more than 60 PhD students illuminated their important and advanced research works carried out in their labs from different backgrounds throughout the India and communicated/ published in peer-reviewed journals.

From first day plenary session, Prof. (Dr.) Deepak Pental, in his Keynote lecture, talked about the past and future of agriculture. He mentioned that the major developments in the 20th century have helped to beat the scarcity of food but as the global population is continuously increasing and under-nutrition is still rampant in many parts of the world. His focus was on the positive role of genetically modified crops to fulfil global food needs. Dr. Sudhanshu Vрати shared his incredible work on development of the Indian rotavirus vaccine. As part of the Indo-US vaccine action program, his team has established the safety and efficacy of the 116E rotavirus vaccine ‘Rotavac’ and launched it for commercial use. The vaccine has since been prequalified by the WHO.

Prof. S.P.S. Khanuja described the importance of organic farming in order to cultivate health and nutrition in farmers’ field. He concentrated on strategic agriculture which opens the possibilities for farmers to enter into ventures of novel nutraceutical products that today the world is crazy about, for the preventive healthcare. This approach of enabling farmers with the scope of nutraceuticals farming offers high value agriculture and better incomes. Dr. Ajit Kumar Shasany and Dr. Viswanathan Chinnusamy highlighted the importance of genetic modifications in crops to get the desired traits for sustainable crop production. They were inclined to develop crops by genome editing technique (CRISPR/Cas9) falling under SDN1 and SDN2 because of exemption from stringent GM rules. Such crops can be released for commercial cultivation for the benefit of farmers and consumers.

Dr. A. K. Panda introduced the concept of cellular engineering for the frontline of medical biotechnology. He discussed the applications of tissue engineering, gene therapy, cell therapy particularly immunotherapy of cancer. Dr. Vibha Ahuja elaborated the series of guidelines that have been issued from time to time by regulatory authorities to provide scientific guidance for R & D and biosafety evaluation of products of modern biotechnology.

From second day plenary session, Dr. Sanjay Kumar talked about the development of Bio-based economy using Himalayan bioresources. He mentioned that there is enough opportunity to utilize Himalayan bioresources for socio and economic development through biological interventions and at the same time, conservation and propagation of these resources is also essential. Dr. Aseem Bhatnagar marked out the relevance of incubation centres to high end research labs and highlighted the uniqueness of Jamia Hamdard incubation centre.

Dr. M. K. Reddy discussed about the improved agronomic performance in rice crop. His team has successfully improved the architecture of rice plants by increasing the tiller number, grain length, panicle branching and spikelet number to enhance the rice yield using Cas9 system. Dr. Niranjan Chakraborty described the mechanism of action of stress-responsive genes in chickpea.

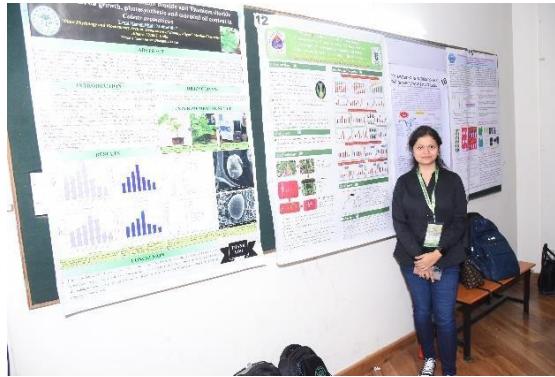
All invited talks from different themes like sustainable agriculture, environment sustainability, pharmaceuticals and nutraceuticals, IPRs, entrepreneurship, infectious diseases, molecular medicine and nano-diagnostics were very lively.

The dignitaries who graced the occasion were Deans, Head of Departments, faculty, scientist, officers. The students of Bachelors, masters and research scholars from Jamia Hamdard and various other universities/ institutions across India were also present. The valedictory session happened after prize distribution to winners from oral and poster presentations. The vote of thanks was given by Dr. Javaid Ahmad Sheikh, convener of the event. The programme ended with 'National Anthem' and hope to meet again in another scientific activities.









Links of the news published in various newspapers:

1. <https://maeeshat.in/department-of-biotechnology-jamia-hamdard-organised-national-conference-on-biotechnology-for-sustainable-development-and-human-welfare/>
2. Jamia Hamdard organizes National Conference on Biotechnology for Sustainable Development and Human Welfare - <http://toi.in/XU9n5Y/a31ga8>
3. Use the TOI app to get Breaking news and headlines. Download now: <https://timesofindia.onelink.me/efRt/ASmwebshare>
4. JAMIA HAMDARD News: Published in timesofindia.com on November 27, 2022*

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Department of Biotechnology, Jamia Hamdard in collaboration with Department of Science & Technology and Department of Biotechnology, Government of India organized a two day

National Conference on Biotechnology for Sustainable Development and Human Welfare

THE INDIAN EXPRESS, November 30,2022



CONFERENCE-JAMIA HAMDARD

Dept. of Biotechnology, Jamia Hamdard in collaboration with Department of Sc. & Tech. and Dept. of Biotechnology, GOI has organized a Two Day National Conference on Biotechnology for Sustainable Development and Human Welfare recently. The Chief Guest, Prof. Asim Ali Khan, Director General of CCRUM, Ministry of AYUSH, Govt. of India emphasized the need for interdisciplinary research and collaboration between industry and academic as well as research institutions. Prof. (Dr.) Deepak Pental, in his Keynote lecture, talked about the future of agriculture and the positive role for genetically modified crops.

JAMIA HAMDARD News:

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Department of Biotechnology, Jamia Hamdard organised National Conference on Biotechnology for Sustainable Development and Human Welfare.



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New Delhi, November, 25: Department of Biotechnology, Jamia Hamdard in collaboration with Department of Science & Technology and Department of Biotechnology, Government of India has organized a Two Day National Conference on Biotechnology for Sustainable Development and Human Welfare on 23rd & 24th November, 2022. More than 150 scientists and delegates working in the fields of biotechnology, agriculture, and sustainable development presented their research papers and views on cutting edge technologies and ongoing research in the field of biotechnology to achieve the United Nation's Sustainable Development Goals. The conference was sponsored by DBT and DST, Gov. of India. Speaking on this occasion, the Chief Guest, Prof. Asim Ali Khan, Director General of CCRUM, Ministry of AYUSH, Govt. of India emphasized the need for interdisciplinary research and collaboration between industry and academic as well as research institutions. Prof. (Dr.) Deepak Pental, in his keynote lecture, talked about the future of agriculture and the positive role for genetically modified crops. The presidential speech was delivered by Prof. (Dr.) M. Afshar Alam, Vice-Chancellor, Jamia Hamdard in which he said that hunger, poverty, climatic changes are big challenges which the world is facing, for which a coordinated and dedicated research based approach and implementation is required. Prof. (Dr.) M. Z. Abidin, the Organizing Secretary of the conference, informed that Department of Biotechnology, Jamia Hamdard is engaged in various biotechnological research projects and has been granted patents. Prof. S.P.S. Khanuja, Prof. Sudhaneshu Vratsi, Dr. Ajit Kumar Sainy, Dr. Vivanathan Chinnusamy and many other leading scientists participated in the conference.

The dignitaries who graced the occasion were Deans, Head of Departments, faculty, scientists, officers and students of Jamia Hamdard.

The programme ended with 'National Anthem' and the vote of thanks was given by Dr. Javaid Ahmad Sheikh.