

## IMPORTANT DATES

Abstract Submission	20 <sup>th</sup> February, 2017
Notification of Accepted Abstracts	24 <sup>th</sup> February, 2017
Last date for Registration	06 <sup>th</sup> March, 2017
Seminar Dates	18 <sup>th</sup> -19 <sup>th</sup> March, 2017

## ACCOMMODATION

Participants are requested to make their own arrangement for accommodation, travel, boarding and lodging. However, few accommodations on first come first serve basis will be provided in the Campus Guest House (Scholar's House) on request.

## THEME AREAS

- Genomics and Proteomics based biomarkers for diagnosis of diseases
- Recombinant vaccines for disease prevention
- Bio-therapeutics for disease treatment
- Biotechnology in pharmaceuticals and nutraceuticals
- Genome based biomarkers for quality assurance of herbal medicines.

## SUBMISSION OF ABSTRACTS

The organizing committee invites abstract (maximum 300 words) related to theme areas of the seminar, typed in double spacing using MS word (Times New Roman, Font size 12) including title, name of authors (Presenting author must be underlined) and address with email ID. The abstract is to be submitted online (mzabdin@jamiahamdard.ac.in, swajid@jamiahamdard.ac.in, acherian@jamiahamdard.ac.in) preferably to all three email id's on or before 20th February, 2017. PowerPoint presentation facility will be made available for the invited lecture/ paper presentation. Selected abstracts will be published as full papers in the form of a book of international standard.

## REGISTRATION FEE

Registration fee for ₹500 (PG students) and ₹1000 (Research scholars/Scientists/Academicians) through Bank Draft drawn in favour of Registrar, JamiaHamdard, payable at New Delhi, may be sent to Professor M.Z.Abdin, Organizing Secretary. Limited "ON THE SPOT" registration (fee for ₹1800) would be available on first come first serve basis.

## SPONSORSHIP

Industries/ NGOs/ Dealers are invited to sponsor the Seminar. The equipment, glassware, plasticware suppliers can exhibit their products during the two day seminar.

## AWARDS

Posters will be evaluated by the team of eminent scientists and the selected posters will be awarded.

## ADDRESS FOR ALL COMMUNICATIONS

### Organizing Secretary

Professor M.Z. Abdin  
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### Co-Conveners

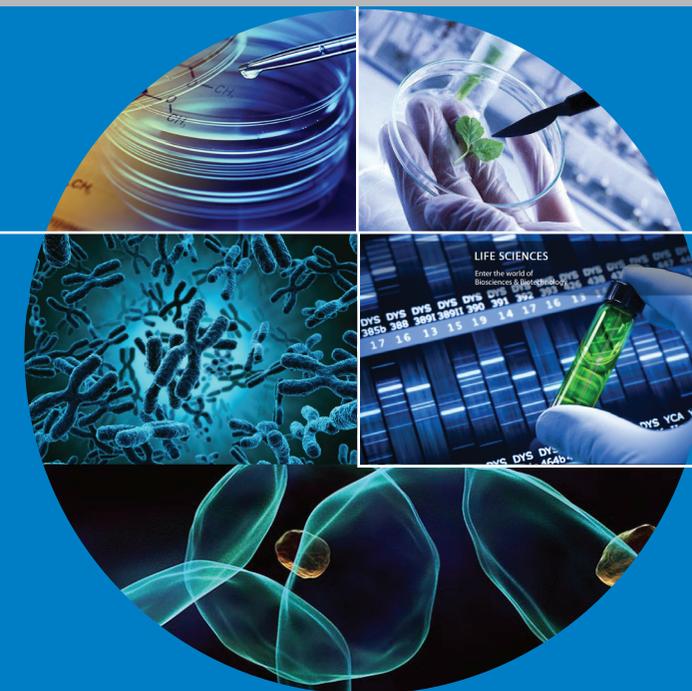
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# UGC-SAP (DRS-I) Sponsored National Seminar on

## BIOTECHNOLOGY IN HEALTH CARE: CHALLENGES AND OPPORTUNITIES

March 18th & 19th, 2017



Organized By

**DEPARTMENT OF BIOTECHNOLOGY**  
Faculty of Science, Jamia Hamdard, Hamdard Nagar,  
New Delhi-110062

Venue:

Convention Centre, Jamia Hamdard (Hamdard University), New Delhi 110062.

Web: [www.jamiahamdard.ac.in](http://www.jamiahamdard.ac.in) / [www.jamiahamdard.edu](http://www.jamiahamdard.edu)

## DEPARTMENT OF BIOTECHNOLOGY

The Department of Biotechnology was established in 1997. It offers two formal programmes of study, two year post-graduate course leading to M.Sc. in Biotechnology and doctoral research leading to Ph.D degree. Besides, it also offers opportunity for post-doctoral research. The faculty members of the Department have been able to attract a large number of extramurally funded research projects. At present the department has eleven ongoing research projects sponsored by DBT, DST, CSIR, ICAR, DRDO, UGC, DOE, ISM&H, CCRUM, AYUSH, and World Bank.

The current research interests of the faculty members include: development of biomolecules by r-DNA technology, regulation of gene expression, vaccine development, enhancement of secondary metabolites in medicinal plants, molecular biology of non- infectious diseases, biotransformation of medicinal plants for better yield of medicinal compounds and transgenics of vegetable, floriculture and oil crops.

The Department has inter-institutional collaboration with ICGEB (New Delhi), AIIMS (New Delhi), NII (New Delhi), Dabur Research Foundation (Ghaziabad), National Institute of Communicable Diseases (New Delhi), National Center for Biological Sciences (Bangalore), CDRI (Lucknow), TERI (New Delhi), IARI (New Delhi), JNU (New Delhi), University of Delhi South Campus (New Delhi), Institute of Genomics and Interactive Biology (New Delhi) and CDFD (Hyderabad). IIIM (Jammu), ITRC (Lucknow), DRDO (New Delhi), University of Calcutta, Kolkata, Kalyani University, Kolkata.

The students of Biotechnology have high rate of success in NET/ICMR/DBT test for JRF. They have been selected in reputed institutions such as CCMB, CDFD, AIIMS, IISc, ICGEB, NII, NCCS, NCBS, etc., besides placements abroad.

## CENTRE FOR TRANSGENIC PLANT DEVELOPMENT

The Centre is a unit of Department of Biotechnology. It is equipped with the state of the art facilities to train the Ph.D and post doctoral students and to carry out research in various disciplines of plant and microbial biotechnology. The major R & D activities pursued includes cloning and characterization of novel genes linked with tolerance to biotic and abiotic stresses and quality traits of medicinal and crop plants; authentication and standardization of crude components of herbal formulations; nano vehicle assisted gene delivery and expression in medicinal and crop plants. The thrust areas of centre also include improving the quality of medicinal crops through genetic engineering of metabolic pathways; in vivo and in vitro conservation of medicinal plants; proteomics of host-pathogen interactions; development of easy, rapid, sensitive, cost effective method for aflatoxigenic mould detection in the groundnut kernels and soil; and identification and quantification of aflatoxins in the food and feed. The centre has received grants from government agencies such as DST, DBT, Department of AYUSH, CCRUM, CSIR, ICMR, DRDO etc. for R & D projects carried out at the centre.

## AREA OF FOCUS

The world has witnessed extraordinary advances in science over the last few decades. Biotechnology - one such area of growth - is an umbrella term covering a broad spectrum of scientific applications, such as health and agriculture. It involves the use of living organisms, biologicals processes or systems to provide new methods of production and make new products. From new vaccines for prevention of disease to genetically modified plants with resistance to pests; from replacement heart valves that are better accepted by the body to treatments for human infertility; and from bacteria capable of cleaning up oil spills to environmentally friendly biofuels - biotechnology (sometimes also referred to as life sciences, genetic modification, or genomics), like any new technology, offers us potential benefits and potential risks.

Biotechnology in health care represents the complex of modern biological approaches in the field of healthcare research and industry. Healthcare Biotechnology has enabled the development and manufacturing of therapies for a number of rare diseases with genetic involvement. Although individually rare, collectively these diseases affect some 20-30 million individuals and their families with 70-80% having a genetic component requiring biotechnological intervention as part of the solution.

Biotech healthcare is going through the challenge of defining its ethical boundaries. Research, costs, and privacy issues spawn concerns that third-party payers, employers, providers, and policy makers will face for years to come. In an age when medical technology improves with increasing rapidity, the availability of new treatments increases almost as quickly. With advances, however, come dilemmas — scientific, financial, and especially moral. These conundrums are likely to multiply as groups with vastly different viewpoints and resources battle over the direction of health policy. The biggest threat to biotechnology is not competition, but rather benefit design and managed care processes, especially for costly medications, the health insurance industry is rapidly shifting costs to individual consumers. Consumer-driven healthcare is an experiment that is going to create a tremendous change in the environment for biotechnology-derived products, in particular because of their incredible cost, but also for all of medicine.

This seminar aims to congregate the researchers associated with different areas of healthcare biotechnology, so that a platform may be provided for deliberations and sharing of information.

## ORGANIZING COMMITTEE

### Patron

Professor Seyed E. Hasnain  
Vice Chancellor, Jamia Hamdard, New Delhi.

### Co-Patron

Professor M.Sarwar Alam  
Dean, Faculty of Science, Jamia Hamdard, New Delhi.

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