

37th

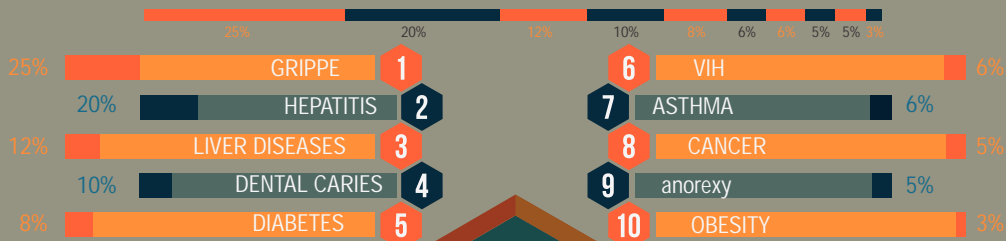
National Annual Conference of Indian Association of Biomedical Scientist on
 “Current Advances in Integrated Biomedicine for Healthcare”

November 3-6, 2016

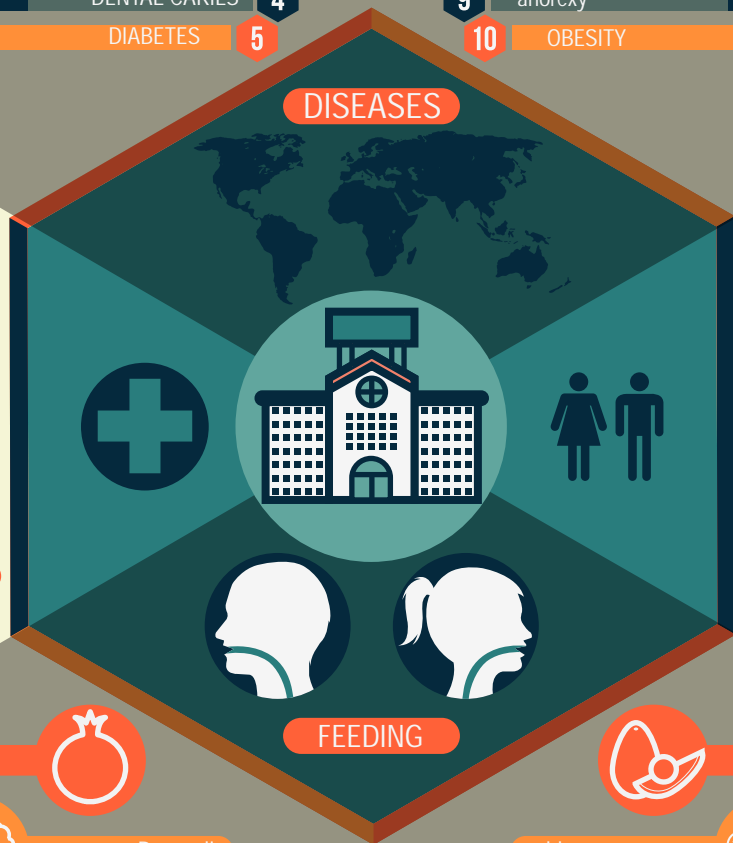
CAIBH-2016

Medical Healthcare

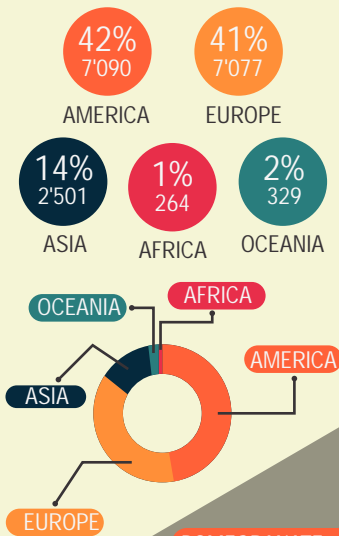
STATISTICS



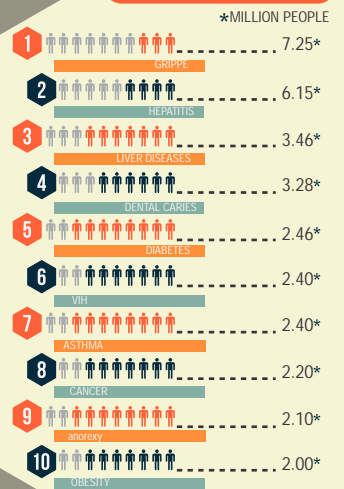
DISEASES



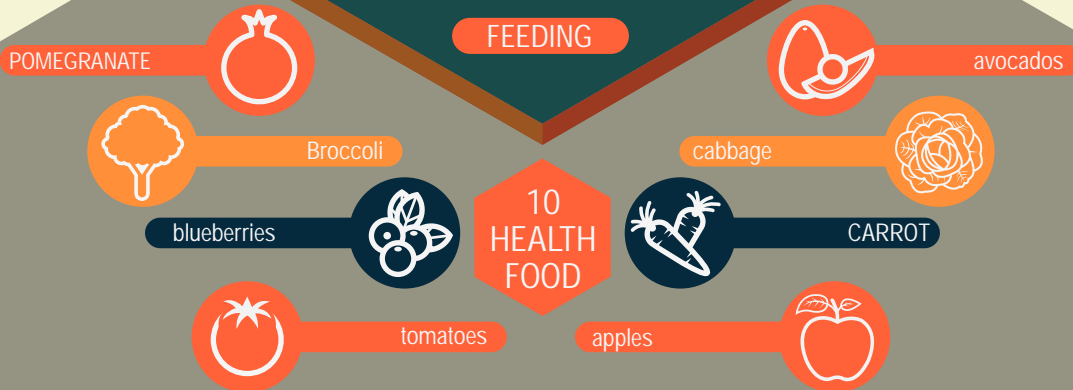
Hospitals worldwide



AFFECTED PEOPLE



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ABOUT THE UNIVERSITY

The journey to empower the nation through education, particularly rural India has its origins from a remote village Gangoh followed by another village Dulhera in North India. It was in the year 1989, under the aegis of NICE Society, envisioned by Babu Vijendra Kumar Ji, an eminent agriculturist and social worker who had a dream to turn intellect into empowerment particularly for the downtrodden that the idea took shape. In the next few years his dream was nurtured by a team of eminent professionals, technocrats, educationists and social workers.

The University offers a wide range of programmes in Biomedical Engineering, Biotechnology, Bio-Informatics, Agri-Informatics, Computer Engineering and IT, Electronics Engineering, Law, Library, Science, Education etc. The University is complemented by a highly distinguished and eminent faculty along with strong research facilities at its smart campus. Shobhit University offers graduate, postgraduate and professional programmes to the student community adopting best national and international practices.

Shobhit University is a NAAC Accredited-intensive, multi-disciplinary university that shares the values of high-quality teaching within an environment of internationally competitive research. The University

retains its coveted position in the list of country's most Industry emerging universities and ranked among top 50 universities by various survey agencies. This institution is ranked amongst India's Top 20 Multi-disciplinary Non-Government Universities by The Week - Hansa Survey - 2016 and has been Awarded National Best Institution for Promoting Industry-Academia Interface Award by ASSOCHAM. Shobhit University has recently established the Technology Business Incubator (TBI) with Mo-MSME support grant to encourage the entrepreneur. It has a strong record of collaborative research with number of projects involving many reputed laboratories of national and international importance which enriches the university to bring laurels. The University campus is cosmopolitan having a diverse pool of students from all parts of the subcontinents and other countries. Microsoft Innovation Center (MIC) at Shobhit University is Microsoft's only tie-up in the Northern region. The MIC operates as an innovation hub providing incubation and expert hands-on support on Microsoft technology innovation, research and software solutions, aiming to create a pool of student technology experts in the state.

ABOUT THE SCHOOL OF BIOLOGICAL ENGINEERING & SCIENCES

School of Biological Engineering and Sciences encompasses four Departments: Department of Biomedical Engineering, Department of Biotechnology, Department of Agri informatics & Department of Bioinformatics.

Department of Biomedical Engineering : Shobhit University is among the pioneer universities to offer Degree courses in the field of Biomedical Engineering and Sciences in Northern India and has numerous affiliated research centres and laboratories engaged in an array of interdisciplinary biomedical innovations. Biomedical engineering is advancing rapidly and producing significant research outcomes that improve our quality of life. From understanding the human genome to pioneering surgical tools, Shobhit University Biomedical Engineering department is committed to the advancement of research and education in the domains of Medical Physics, Nanomedicine, Biomechanics, Radiation Physics, Biomedical Instrumentation, Biomechanics and Biomaterials.

Department of Biotechnology : Department of Biotechnology is a premier Department of School of Biological Engineering and Sciences, working upon to develop successful biotechnology professionals as well as entrepreneurs. Enriched with advanced research infrastructure, this Department offers an opportunity to move from "bench to lab" to its students and scholars so that they can meet the demands of competitive world. As the applications of Biotechnology are evolving infinitely, this department tracks extra focus on the adaptation and technology transfer of the key developments to its students through invited lectures, workshops and conferences. The students are continually involved in the research and development in areas such as Microbiology, Cell biology, Genetics, Molecular Biology etc.

Department of Agri-informatics : Department of Agri informatics, the first of its kind in India was started with an objective to merge conceptual, theoretical and technical applications of ICT, Management and Informatics in the field of Agriculture Science and Technology for the overall upgradation of farmer's quality of life. Being an agriculture based nation, it is the need of an hour to implement technical advancements in agricultural sciences with global perspective. This Department is focused to develop skilled agriculture scientists which will be capable of applying IT Tools and Techniques for improvement of Agriculture, Soil Crop Management system and Natural Resource Management.

Department of Bioinformatics : Department of Bioinformatics is another offshoot of School of Biological Engineering and Sciences which emphasizes cutting edge research in Computational Biology and Databases of Genomics and Proteomics. This department is functioning on the mandate to establish a most up to date Bioinformatics division which can identify and predict the genes with high precision before they are extended for advanced high throughput laboratory screening which is highly cost effective. This Department keeps its students and scholars informed about the state-of-the-art techniques for genomic and proteomic research through invited lectures of renowned national and International scientists.

WELCOME TO MEERUT FOR THE 37th ANNUAL CONFERENCE OF IABMS

The Sports' Capital of India, Meerut, is a "Historian Paradise", which stands at a strategic standpoint both geographically and culturally. City has played a pivotal role in the first spark of Indian Independence. The long established Meerut Cantonment by the British East India Company in 1803 is still functional in its fundamental form. Owing to its inimitable geographical locations, the inhabitants of the city are not only privileged to experience all the four seasons but also in having some of the most rejuvenating weekend getaways and tourist destinations at their ease such as Hastinapur, Prakashgarh, Haridwar, Rishikesh, Shukrataal. It serves as a hub for trading activities, agricultural products, industry including manufacturing, smelting, as well as the milling of sugar, cotton, flour, and oilseeds. The city is one of the largest producer of sports goods as well as musical instruments in India. The city has a well-developed tourism sector within western Uttar Pradesh with its imminent history and luxurious picturesque backdrop. The eminent landmarks of Meerut include Agharnath Temple, Gandhi Bagh and National sanctuaries for wildlife sight-seeing lovers. Overall, the city caters the needs of souls of every hue and provides a plethora of historical chronicles for people having an interest in history.

Climate

Meerut experiences pleasant climate during the month of November. The temperature varies from 32°C highest to 14°C lowest recorded temperature

How to reach

Meerut is well connected via road to major cities like Delhi, Noida, Faridabad, Ghaziabad, Haridwar, etc. The aerial distance from New Delhi to Meerut is 62 km while the road distance between New Delhi to Meerut is 70 km. Three national highways (NH-58, NH-119 and NH-235) pass through Meerut. There are 2 main bus terminals namely Bhainsali bus terminal and Sohrab Gate bus terminal from where Uttar Pradesh State Road Transport Corporation (UPSRTC) ply within the city, the near by cities and even all over the state of U.P. Meerut lies on the Delhi-Saharanpur electrified railway line and it has four railway stations namely Meerut City, Meerut Cantt., Partapur and Pablikhas. The nearest Air Port is the Indira Gandhi International Airport, which is in New Delhi and it is around 100 km away from Meerut.

ABOUT THE CONFERENCE THEME: ADVANCES IN INTEGRATED BIOMEDICINE FOR HEALTH CARE

In the present human civilization, each individual, irrespective of age, gender, social and economic strata, is equally exposed to the demands of the modern society at different levels on a daily basis. Radical and far-reaching changes in lifestyle away from the conservative and conventional way of living along with massive work load has not only given birth to diverse modern illnesses but also made each individual prone to a unique set of maladies that is personalized, depending upon unique conditions, needs and circumstances. This has caused severe detrimental effects on the overall well being of a person. In such a scenario it has become imperative to target the overall health of the person and not just the remedial measures of the particular disease. The World Health Organization (WHO) also defines health as "a state of

complete physical, mental and social well being" and not merely the absence of disease or infirmity. Integrated Biomedicine is one such approach that puts the patient at the center and addresses the full range of physical, emotional, mental, social, spiritual and environmental influences that affect the person's health. It targets to restore and sustain the well being and health of the persons over the complete lifespan rather than focusing on the treatment of a specific disease condition. Such ambitious objectives can be fulfilled by employing one or more of medical interventions from an array of scientific disciplines to heal illness, diseases and help people to regain and maintain optimum health.

37TH ANNUAL CONFERENCE ON "CURRENT ADVANCES IN INTEGRATED BIOMEDICINE FOR HEALTHCARE"

The Conference theme is dedicated exclusively to discuss and to deliberate on various issues pertinent to the on-going research activities in different biomedical fields and their potential role towards enhancement of traditional systems of medicine in order to provide an integrated therapy for welfare of humans. The deliberations will focus on various Indian systems of traditional medicinal systems such as Ayurveda, Yoga, Unani, Siddha, Homeopathy and Naturopathy for effective treatment strategies.

Emphasis shall be given on the identification of novel biomarkers that may aid in the development of advanced and effective therapeutic agents. Recent researches and discoveries in the field of biological markers that is helpful in the diagnostics and therapeutics of conventional as well as contemporary diseases shall be in the spotlight. The conference shall address the diverse roles of biomedical engineering and its outcomes that are providing a helping hands to those in need. Several biomedical engineered products are constantly being developed that are aimed to bestow a normal lifestyle to the especially abled individuals. However due to dearth of awareness among the general mass about such biomedical products, the people in need are compelled to live a secluded and deprived life and are excluded from the mainstream of the society. On a different note, different biomedical instruments are being developed that are bringing the

diagnostics and therapeutics at our doorsteps, bridging the gap between patients and healthcare providers. The conference shall try to bring forth the awareness regarding majority of such biomedical devices and instruments to lime-lights.

Further, a session shall be dedicated towards elucidation of various methods that are deployed for monitoring the efficacy and safety of traditional and natural systems of medicine as well as for the validation and standardization of instruments used in traditional medicines. Such scrutiny of consistency in the performance is imperative and should be a routine affair in medical establishments. Finally discussions will be held upon the challenges and future prospects of biomedicine and healthcare that may pave the path for future researches in healthcare sectors. In the nutshell, this conference will provide ample opportunities to various renowned practitioners, students, researchers working in different sectors of healthcare and to discuss materials-related strategies for betterment of health and disease remediation. Further, this conference will offer an innovative, solution-driven platform for physicians and healthcare practitioners, researchers, students, policy maker and patients to collectively exchange as well as discuss research and their findings in the field of integrated biomedicine and nutrition and collectively on the vision of science, economics and education for optimal healthcare.

PRECONFERENCE WORKSHOP

Research papers are invited in the following thrust areas of Biomedical Research from all sections of research community in relevance to the theme of the conference:

- Integrated Biomedicine & its Developments
- Traditional Systems of Medicine and its Uniqueness
- Yoga for Health care
- Evaluation of Safety and Efficacy in Health Care
- Biomarkers in Health Care
- Drug Development from Traditional Systems of Medicine
- Biomedical Engineering for Health Care
- Traditional Medicine Validation and Standardization
- AYUSH for Biomedical Engineering and Health Care
- Prospects and Challenges in Biomedicine & Health Care
- Integration and Challenges of Ayurveda and Biomedicine

Dr. SARADHA SUBRAMANIAM PRE-CONFERENCE WORKSHOP

A pre-conference workshop will be held on 3rd November, 2016 in the memory of (Late.) Dr. Saradha Subramaniam. The theme of the workshop will be "Hands on Skills in Biomedical Techniques". The idea of the workshop is to provide an insight about an assortment of tools and techniques used in biomedical sector and allied medical streams, such as biomedical instrumentation, biomedical signal processing, biomedical image processing, nanomedicine development and uses, biomarker identification and applications, analytical tools for disease diagnosis. The registration fee for the workshop is as follows::

	Till 31 st Oct. 2016	After 31 st Oct 2016
IABMS Members	Rs. 400	Rs. 500
Non Members	Rs. 500	Rs. 600
PG Students	Rs. 300	Rs. 400

About Indian Association of Biomedical Scientists (IABMS)

IABMS was formulated with a vision to encourage, promote and advance interdisciplinary co-operation amongst biomedical scientists in the year 1979 in Dr. ALM P.G.IBMS, University of Madras, Taramani Campus, Chennai. Several renowned Professors like Dr. Saradha Subramaniam, Dr. A.Krishnamurti and famous neuro surgeon Prof. Dr. B. Ramamurthy nurtured the growth of IABMS in their capacity as Past and Founder Presidents of this Association. IABMS serves as a common platform for all biomedical departments including the medical faculties and other fields of medical sciences and provides the necessary exposure to the biomedical scientists and professionals throughout the nation. IABMS was started only with a handful of members in 1979, but today, it has more than a thousand members distributed widely across different geographical locations of India and abroad. IABMS now has a commendable history of contribution to various frontiers of biomedical sciences for the past 37 years and it would continue to grow stronger.

IABMS have been conducting its Executive Committee Meetings regularly at an interval of every 2 or 3 months in every calendar year over the past 37 years and all the E.C. members are given prior intimation about date, time, venue and agenda of the meeting.

IABMS hosts an Annual Conference to facilitate the dissemination of information pertaining to the Biomedical Research and Developments ever since its inception in 1979. The first Annual Conference of IABMS was held at Madras Medical College, Chennai in 1980 under the guidance of Dr. Saradha Subramaniam. 36 National Conferences have been organized since then at various universities and institutions of the Indian subcontinent. The 37th Annual Conference of IABMS is presently going to be held at Shobhit University, Meerut on November 3-6, 2016.

Biomedicine: An International Journal of Biomedical Sciences

Biomedicine: An International Journal of Biomedical Sciences is the official publication of IABMS, published quarterly in the month of March, June, September and December. The journal publishes research papers, reviews, special articles, case reports, book reviews and letters to the editor related to Anatomy, Physiology, Biochemistry, Microbiology, Toxicology, Endocrinology, Reproductive Biology, Pharmacology and Alternative Systems of Medicines like Siddha, Unani, Ayurveda, Homeopathy and Naturopathy. The journal is indexed in Excerpta Medica, Scopus, Elsevier Indian Citation Index and Ind. Med.



37th Annual Conference of IABMS In Perspective of Shobhit University and the Organizing Committee

The present era of modern medicine has expanded its arena to include therapeutic approaches and healthcare disciplines that not only focuses on the treatment of the malady but also on the overall well being of the patients. Such a shift in the basic therapeutic goal has off late give a vent to diverse alternative branches of healthcare sectors to come together and work towards the inclusive healing of the convalescents. In view of the above the School of Biological Sciences, Shobhit University Meerut, in association with IABMS, is organizing the 37th Annual Conference of IABMS for 3 days from 4-6th November, 2016 at Shobhit University, Meerut-250110, U.P. and Dr. Sarada Subramaniam Memorial Pre Conference Workshop on 3rd November, 2016 in the same campus. The organizing committee takes pleasure to extend a warm and cordial invitation to Faculty members, Scientists, Students, Healthcare professionals and Industrialists from various Universities, Research Institutes and Organizations to participate in the deliberations of the conference proceedings, seminars, lectures and scientific discussions and exchange their relevant experiences pertinent to the conference theme "Current Advances in Integrated Biomedicine for Health Care". The conference will present a new forum for presentation and dissemination of information on the integrated medicine under various themes which is rapidly gaining popularity off late.

CALL FOR PAPERS

Call for Abstract

Abstracts (oral/poster) relevant to the theme of the conference should be submitted to the Organizing Secretary on or before 20th October, 2016. The abstract should be restricted to a maximum of 250 words with Title, Name and Address of the authors and affiliations, Background, Objectives, Materials and Methods, Results, Discussion and Conclusion. The Title of the abstract, Name and affiliations and the running texts of the abstract should be typed in Times New Roman font at 16, 14 and 12 pitch size respectively. Kindly send 3 copies of the abstract along with the duly filled in registration form, accommodation form, soft copy of abstract (in CD) and DD for registration fee to the Dr. Jayanand, Organizing Secretary, IABMS Conference-2016, NH-58 Shobhit University, Modipuram, Meerut. Abstracts may also be sent through email at iabmsconference@shobhituniversity.ac.in on or before 20th October, 2016. Model of abstract is enclosed separately. Acceptance of the abstract will be communicated to the corresponding author separately and it will be printed in the Conference Proceedings.

Call for Full Length Papers for Biomedicine Journal of IABMS

The Editor-in-Chief, Biomedicine, An International (ISSN: 0970-2067) Official journal of IABMS, take this opportunity to invite the delegates of IABMS to submit full length papers/reviews/case reports, for consideration of its publication after its peer review. Purchase of this Journal in your respective research/academic institutions are more welcome to increase the visibility and circulation of the journal. Full length research papers/reviews/case reports may be submitted online

through the email address throughout the year in strict adherence to the guidelines prescribed under "Instruction to Authors" of the Journal. Kindly refer to <http://www.biomedicineonline.org/manujscrip.php> for further information. Please contact Dr. E. Padmini, Editor-in-Chief of Biomedicine for further clarifications towards purchase of journal or submission of manuscript.

Guidelines for Presentation

Oral Presentation: The time duration for Oral Presentation is 15 min. including 10 min. for presentation and 5 min. for discussions. The participants are requested to prepare their presentation in MS Power Point.

Poster Presentation:

The poster size should not exceed 106 cm (width) X 122 cm (height). The top section of the poster should indicate title, author and affiliation. The content of the poster should be under the headings of Background, Objectives, Materials and Methods, Result and Discussion and Conclusion.

Important Dates

The deadline for submission of abstract for oral and poster presentations is 20th October 2016. The winners of Oral and Poster Presentation sessions shall be felicitated in the Valedictory Ceremony of the conference.

IMPORTANT DEADLINES

Last Date for Submission of Abstracts/ Papers for various IABMS awards	:	30 th September, 2016
Last Date for Submission of Abstract(s) for conference	:	20 th October, 2016
Intimation of Selected Abstract for Oral / Poster Presentation	:	25 th October, 2016
Registration Deadline (Early Bird)	:	31 st October 2016

REGISTRATION

Participation in the conference is restricted for the registered delegates only. The registration fees include the scientific sessions, printed conference materials and working lunch.

Following registration fees shall be applied for the different categories of participation.

Categories	Till 31 st Oct 2016	After 31 st Oct 2016
IABMS (Members)	Rs. 3000	Rs. 4000
IABMS (Non-Member)	Rs. 4000	Rs. 5000
PG Students/ Research Scholars	Rs. 2000	Rs. 3000
Foreign Delegates	USD 250	USD 350
Accompanying Delegates	Rs. 2000	Rs. 2500

VARIOUS AWARDS OF IABMS

Call for Submission of Nominations / Research Papers for Various Awards of IABMS

As a customary and tradition, the Executive Committee of IABMS invites nominations/ research papers for the following awards instituted by IABMS:

- M.K. Nambiar Memorial Oration Award
- Dr. E. Balakrishnan Memorial Award
- Mrs. Thangam Vasudevan Award
- Indira Vasudevan Award
- SIRI Research Award
- Dr. Yellapragada Subbarow Memorial Award *
- The PGIBMS Award

Interested candidates should submit their nominations/ original research papers for various awards to Dr. S. Karthikeyan, General Secretary, IABMS, Dept. of Pharmacology and Environmental Toxicology, University of Madras, Taramani, Chennai-600113, Email- sivanesanarkarthikeyan@gmail.com on or before 30th September, 2016. The candidates are requested to visit the official website of IABMS i.e., www.iabms.org to get information regarding eligibility criteria and the general terms and conditions to apply for the awards. All the research papers submitted for various awards must be in strict adherence to the "Instruction to Authors" as specified in the Official. Kindly refer to <http://www.biomedicineonline.org/manuscript.php> for the Journal of IABMS i.e., "BIOMEDICINE" for complete Author's Guidelines.

Note: Awards 2,3,4 and 5 are based on the original research work conducted preferably in India and should not have been published or considered for publication in any journal at the time of submission for IABMS Awards.

Nominations for MABMS/FABMS Titles

The Life members of IABMS are requested to send separate letters to the General Secretary, IABMS, to receive the application forms for MABMS/FABMS titles.

ACCOMMODATION

The accommodation facility for the delegates will be provided as per the different category preferred by them on the first come first serve basis. Arrangements for accommodation would be made in Hotels / guest houses/ university hostels in Meerut or prior request basis only, if tariff is paid, in advance. The tariff is liable to change and the actual tariff, prevalent at the time of conference, will be charged. Mostly, accommodation will be on twin sharing basis. Requisition for accommodation can also be done online at www.shobhituniversity.ac.in

REGISTRATION

Participation in the conference is restricted for the registered delegates only. The registration fees include the scientific sessions, printed conference materials and working lunch. The non-refundable registration fees may be remitted to "Organizing Secretary IABMS Conference 2016 Shobhit University" payable at Union Bank of India, Shastri Nagar, Meerut. The duly filled registration form along with a copy of payment slip/ Demand Draft should be sent to the Organizing Secretary, 37th Conference of IABMS, School of Biological Engineering and Sciences, Shobhit University, Meerut-250110, U.P. Registration can also be done online on www.shobhituniversity.ac.in

Following registration fees shall be applied for the different categories of participation.

Category	Charges/ Day
University Hostel	350/-
University Guest House	1000/-
Hotels	3000-5000/-

EXHIBITION STALL

Organization and agencies related to Medical, Agriculture, Food, Environment, Bioinformatics, Pharmacology, Biotechnology, Naturopathy, Ayurveda, and Biomedical Engineering and Sciences are invited to exhibit gamut of activities, products and equipment during the conference. Exhibitors are requested to seize the opportunities to demonstrate the coveted information to the galaxy of academic,

- Prof. N. Padmanabhan Memorial Award
- Dr. P.S. Lalitha Award
- Dr. Leela Krishnamurthi Memorial Award
- Dr. Bramaiah Sastri Memorial Award
- Agastiyar Award
- Dr. C.R. Krishnamurthy Memorial Award
- Mr. V.V. Swaminathan Diamond Jubilee Research Endowment Award
- Dr. A. Namasivayam Award
- Dr. M.S. Krishnamoorthy Award
- Prof. Sundaram Subramanian Oration Award
- Prof. S.P. Thyagarajan - Prof. S. Rajarajan Endowment Award
- Jaya Group of Institutions Award

scientific, professional and industrial audience, who urge to obtain the equipment or seek at industrial, institutional and government location in India. The exhibition stalls of various firm during the conference will be provided a 3mX2m area with the booking charge of Rs. 3000/-
SOUVENIR ADVERTISEMENT TARIFF

The prescribed tariffs for the advertisements in the souvenir are as following:

Particulars of Advertisement	Size of Advt.	Tariff (Rs.)
Back Cover (Color)	26X21 Cm	Rs. 2500/-
Inside Front & Back Cover (Color)	26X21 Cm	Rs. 2000/-
Full Page (Color)	26X21 Cm	Rs. 1000/-
Full Page (B/W)	26X21 Cm	RS. 700/-
Half Page (Color)	13X10 Cm	Rs. 800/-
Half Page (B/W)	13X10 Cm	Rs. 500/-

Mode of Payment for Registration of Pre-Conference Workshop/ Conference/ Accommodation/ Exhibition/ Souvenir Advertisement

1. For Internet Banking Users.

Candidates may register themselves by paying the registration fee through internet banking using the following particulars:

Bank Name : Union Bank of India
Branch Name : Shastri Nagar, Meerut
IFSC Code : UBIN0549665
Account Name : Organizing Secretary IABMS Conference 2016, Shobhit University
Account Number : 496602010028602
Account Type : Savings

2. For Non-Internet Banking Users:

Alternatively, candidates may also register themselves by sending the duly filled registration form along with the registration fee in the form of Demand Draft (DD) drawn in favor of "ORGANIZING SECRETARY IABMS CONFERENCE 2016, SHOBHIT UNIVERSITY" payable at "Meerut".

All the communications must be sent to the following address:

Dr. Jayanand
Organizing Secretary
IABMS Conference-2016
Shobhit University, NH-58 Modipuram, Meerut, U.P. Pin Code: 250 110
Email-ID: iabmsconference@shobhituniversity.ac.in
Fax: 0121-2575724 Mobile: +91-9557577754, + 91-8267018004

PATRONS

Dr. Shobhit Kumar, Hon'ble Chairman, Shobhit University
Kunwar Shekhar Vijendra, Hon'ble Chancellor, Shobhit University

CHAIRPERSON

Prof. (Dr.) D.V. Rai, Vice Chancellor, Shobhit University

ORGANIZING COMMITTEE

Dr. Jayanand, Associate Professor & Registrar, Shobhit University, Meerut

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Dr. L. M. Sharma
Mr. Mridul Vaish
Ms. Vandana Kanyal
Mr. Jitendra Jadon
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