



WHAT'S RENDINGIN BIOTECH INDIA?



February 9 - 11, 2016 The Lalit Ashok, Bengaluru



Co-Host

Vision Group on Biotechnology

www.bangaloreindiabio.in

Bangalore INDIA BIO 2016 - PROGRAMME AT A GLANCE

DAY 1 CONFERENCE PROGRAMME - TUESDAY, FEBRUARY 9, 2016

10:00 am - 10:20 am | Inauguration of the Exhibition & Poster (Magadh and Kalinga2)

10:30 am - 12:00 noon | Inauguration of the Event (Kalinga 1)

12:00 noon - 12:30 pm | Tea Break

12:30 pm - 01:15 pm | Keynote Lecture (GBR)

01:15 pm - 02:15 pm | Lunch

02:15 pm - 03:45 pm | Making Tomorrow's Medicine (GBR)

03:45 pm - 04:15 pm | Tea Break

04:15 pm - 05:15 pm | Oncology & Precision Medicine (GBR)

05:15 pm - 06:30 pm | Rare Diseases & Orphan Drugs (GBR)

06.45pm | Global Biotech Conclave (Kalinga 1)

Meet & Greet
 Panel Discussion
 Reception

DAY 2 CONFERENCE PROGRAMME - WEDNESDAY, FEBRUARY 10, 2016

10:00am - 11:00 am | Agribiotechnology Inaugural Session (Kalinga 1)

	11:00am - 11:30	am Tea Break	
11:30 am - 01.00 pm Agribiotechnology for Food, Feed, Fuel & Fiber Security (Lalit 1 & 2)	1 Marca	01.00 pm nteraction BR)	11:30 am - 01:00 pm Regenerative Medicine - from Hope to Reality (Lalit 3 & 4)
01:00 pm - 02:30	pm Lunch & In	teraction with Exhi	ibitors & Posters
02:30 pm - 03.45 pm Agribiotechnology – Panel Discussion (Lalit 1 & 2)	02:00 pm - Biotech Finis HR Wo (Gl	hing Schools rkshop	02:30 pm - 04:00 pm Synthetic Biology (Lalit 3 & 4)
	03.45 pm - 04.30	pm Tea Break	
04.15 pm - 06.00 pm Biofuels as a Viable / Feasible alternative in India (Lalit 1 & 2)	04.30 pm - 06.00 pm Biotech Finishing Schools Convocation (GBR)		04:30 pm - 06.00 pm IoT in Healthcare (Lalit 3 & 4)
07.00 pm	Bioexcellence /	Awards Function (K	alinga 1)
DAY 3 CONFERENCE	PROGRAMME	- THURSDAY,	FEBRUARY 11, 2016
10:00 am - 11: 30 am Proteomics & Bioinformatics		08:00 am - 09:30 am Bio Accelerate & Bio Invest (GBR)	
(Lalit 1 & 2)	N N TEATER ON AND NOT AN A TANK TANK TANK TANK TANK TANK TAN		
11:30 am - 12:00 noon Te	a Break	09:45 am - 11:4	5 am Bio Accelerate & Bio Invest (GBR)
12:00 noon - 01:30 pm		11:45 a	m - 12:00 noon Tea Break
Proteomics & Bioinforma (Lalit 1 & 2)	atics		::00 noon - 01:30 pm celerate & Bio Invest (GBR)
01:30 pm - 02:45	pm Lunch & In	teraction with Exhi	bitors & Posters
0	3.00 pm - 04:30 pr	n Bio Quiz (GBR)

GBR - Grand Ball Room

Programme subject to alteration



BANGALORE INDIA BIO 2016

The 16th edition of Bangalore INDIA BIO 2016 organized by Department of Information Technology, Biotechnology and Science & Technology, Government of Karnataka; Karnataka's Vision Group on Biotechnology and MM Activ Sci-Tech Communications was held from February 09th to 11th, 2016 at Hotel The Lalit Ashok, Bangalore.

The success of Bangalore INDIA BIO demonstrates the commitment by the Government of Karnataka to promote Biotechnology in the state. Karnataka continues to pave the path and be the Biotech Hub of India and the Government wants to make the Biotech sector the IT sector of tomorrow.

What's trending in Biotech India? was the theme of Bangalore INDIA BIO 2016 and Event Highlights consisted of Multi-Track Conference, International Tradeshow, Global Biotech Conclave, Awards Function, Poster- Walkway of Discovery, BioQuiz, Bio-Accelerate, BTFS Programme and InterlinX - Bio Partnering Tool.

INAUGURAL FUNCTION

The Event was inaugurated with the *traditional lighting of lamp* and was graced by National and International personalities from Government and Industry viz. **Dr. Harsh Vardhan**, Hon'ble Minister for Science and Technology and Earth Sciences, Government of India; **Shri Roshan Baig**, Minister for Infrastructure Development, Information and Haj, Government of Karnataka; **Mr. Dominic McAllister**, British Deputy High Commissioner, Bengaluru; **Prof. K. VijayRaghavan** Secretary, Department of Biotechnology, Ministry of Science & Technology, Government of India; **Dr. Kiran Mazumdar Shaw**, Chairperson, Karnataka Vision Group on Biotechnology, CMD, Biocon Limited; **Dr. P.M. Murali**, President ABLE; Also present from Government of Karnataka were personalities like **Ms. V. Manjula**, IAS, Principal Secretary, Department of IT, BT, S&T, Government of Karnataka and **Ms. Tanusree Deb Barma**, IAS, Managing Director Karnataka Biotechnology and Information Technology Services (KBITS).

The Inaugural Function of **Agribiotech Day** was graced by **Shri Krishna Byre Gowda**, Hon'ble Minister for Agriculture, Government of Karnataka; **Ms. Matia Chowdhury**, Hon'ble Minister of Agriculture, Peoples Republic of Bangladesh; **Ms. Latha Krishna Rao**, IAS, Additional Chief Secretary and Development Commissioner, Government of Karnataka and **Ms. V. Manjula**, IAS, Principal Secretary, Department of IT, BT, S&T, Government of Karnataka.





KEY EVENT HIGHLIGHTS

- Release of 'Bangalore INDIA BIO 2016 Event Compendium'.
- Inaugural Address by Dr. Harsh Vardhan, Hon'ble Minister for Science and Technology and Earth Sciences, Government of India
- The Global Biotech Conclave with its theme 'What's trending in Biotech India?' witnessed Global Biotech Experts from the Life Sciences Sector deliberating on India's future as a Biotech Nation. The participating companies were Thermo Fisher Scientific, UK Trade and Investment, Smart Avenue Inc Korea, Evolva Biotech, Quintiles and K&S Partners.
- 16th Edition had special focus on AgriBiotechnology dedicating an entire day witnessing deliberations on various topics related to Food Agriculture and Biofuels. Smt. Matia Chowdhury, Hon'ble Minister of Agriculture, Peoples Republic of Bangladesh graced this day
- Biotech Finishing Schools HRD Session was held as a part of Bangalore INDIA BIO followed by the Convocation Function.
- Bio Accelerate & Bio Invest focused on both Investors Business in the Biotech business and early research ventures and entrepreneurs in Life Sciences. The Session also highlighted Biotech innovations for social causes.
- This edition, a major thrust was on Start-Ups across Bio-IT, Medical Devices, BioAgri & BioPharma sector
- The Conference consisted of **25 Sessions** with **116 Speakers**, over **800 Delegates** participated.
- **92 Poster Presenters** presented their Research Ideas in **Poster Session Walkway of Discovery.**
- About 80 Exhibitors from various verticals of Life Sciences Industry like biopharmaceuticals, biosuppliers, bio-informatics, bio-medical devices and Start-ups participated in the Exhibition which attracted over 3000 business visitors.
- International Representation this year was from over 12 countries with major delegations from UK, Spain, Korea and delegates from leading countries like USA, Canada, Australia, France, Germany, Poland, Belgium, Taiwan, and Malaysia.
- The event also witnessed participation from various States like Gujarat, Uttar Pradesh, Madhya Pradesh and Andhra Pradesh.
- Bangalore INDIA BIO 2016 facilitated over 300 B2B meetings through the B2B Partnering tool InterlinX out of which over 25% meetings were between Indian and International Companies.



INTERNATIONAL CONFERENCE

This year's Multi-Track Conference brought together Top Technology Experts, Policy Makers, Research Heads, Consultants and Industry Captains. Eminent Personalities focused on thought leadership while Expert Speakers gave insights into the latest Industry trends and Innovators presented path-breaking ideas.

In all, 25 Sessions were held and were addressed by 116 Eminent Speakers / Panelists from across the globe, deliberating on issues of pressing interest to the Biotech sector including Internet of things in Healthcare, Making Tomorrow's Medicine, Regenerative Medicine, Rare Diseases and Orphan Drugs, Proteomics and Bioinformatics, Synthetic Biology, Precision Medicine & Oncology. The Agri-Biotech Day in the Conference focused on Agri-Biotechnology for Feed, Food, Fuel and Fiber Security and the highlight was a lively interaction of Experts with farmers from various parts of Karnataka.

CONFERENCE KEY SESSIONS:

- Oncology & Precision Medicine: Discussions on Clinical Perspectives, Disease Characteristics, Drug Repertoire and Personalized Medicine in Cancer set the guidelines for the future in Oncology & Precision Medicine. This dominant and powerful session was the one of the primary highlight of the Conference which featured specialists' speaker Dr. Alben Sigamani (Lond. school Hygiene & Tropical Medicine) Group Head - Clinical Research, International Faculty, Euclid (Academics)
- Regenerative Medicine: The Session witnessed participation from National and International Speakers. Dr. C. Randal Mills, President and Chief Executive Officer, California Institute for Regenerative Medicine (CIRM), one of key Speaker in this session focused on how to accelerate stem cell treatments to patients with unmet medical needs. Dr. S.R. Subrammaniyan, Professor of Vascular Surgery, Madras Medical College, Chennai shared his views on the Therapeutic Potential of Bone Marrow-derived, Allogeneic Mesenchymal Stromal Cells for Patients with Critical Limb Ischemia due to Buerger's disease.
- Rare Diseases and Orphan Drugs: This high impact Panel Discussion had Speakers reporting
 work on solutions on challenges faced in clinical context. Dr. Vijay Chandru, CEO of Strand
 Life Sciences, Bengaluru moderated this Panel Discussion effectively and with much needed
 enthusiasm. Ethical Dimensions of Management with Rare Diseases and Orphan Drugs and
 Research and Gene Therapy: Progress, Prospects and Challenges in Rare Genetic Diseases
 were some of the topics that were discussed in this session.
- Internet of Things (IoT) in Healthcare: Prof. Gundu Rao whose is associated with the University of Minnesota Chaired the Session and pondered on the Integration of Technologies for Affordable Healthcare. Dr. Anand Madangopal, Founder and CEO, Cardiac Design Labs Pvt. Ltd., Bengaluru also addressed the Topic of Affordable, Connected and Intelligent Healthcare Delivery.









- Proteomics and Bioinformatics: This high quality session was amalgamating of a broad range of topics in proteomics and bioinformatics sector and witnessed a blend of speakers from Industry and the Academicians. Metabolomics in Anti-parasitic drug discovery, Simulation technology using big data for Precision Medicine, Infectious Diseases etc were some of the important topics talked about. Prof. Utpal Tatu, Professor, Indian Institute of Science, Bangalore chaired and shared his views at this Session.
- Synthetic Biology: This exciting and action packed session was chaired by Dr. P.M. Murali, President, ABLE and Managing Director, Evolva Biotech, Chennai. The Speakers medicated and expressed their views on concepts, opportunities, and challenges in Synthetic Biology. Trends and the future of Biofuels, Engineering Enzymes and Microbes for Biofuel Production, Waste management and Industrial production improvement of microbial metabolites by Synthetic Biology were the other fundamental subjects presented during this session.





GLOBAL BIOTECH CONCLAVE

The Global Biotech Conclave - an exclusive gathering of CEOs, R&D Heads, Policy Makers, Venture Capitalists, and Investment Bankers held an interesting Panel Discussion on **"What's Trending in Biotech India?...Will the biopharma industry seek an innovation path of growth?**' The Global Biotech Conclave turned out to be a power-packed evening witnessing participation of Leading Industry Captains who involved in thought provoking discussions to throw light on the challenges ahead, uncover potential opportunities and discussed the means to achieve exponential growth.

Moderator: Dr. Goutam Das, Secretary, Association of Biotechnology Led Enterprises (ABLE)

<u>Panelists:</u> Mr. Amit Chopra, Chairman & Managing Director, Thermo Fisher Scientific, Mumbai,
 Ms. Heajin Jung, President, Smart Avenue, Inc., Seoul, Korea, Dr. P.M. Murali, President,
 Association of Biotechnology Led Enterprises(ABLE);Managing Director, Evolva Biotech, Chennai,
 Ms. Suneela Thatte, VP, Global Operations, Quintiles India - Asia alliances, Mr. Jon Mowles, Life
 Science Specialist, UKTI, Mr. Durgesh Mukharya, Partner, K&S Partners.



INTERNATIONAL TRADESHOW

About 80 Exhibitors from various verticals of Life Sciences Industry like **BioPharmaceuticals, BioSuppliers, BioInformatics, BioMedical Devices** participated in the Exhibition and attracted over 3000+ plus business visitors. The Tradeshow turned out to be an excellent platform to showcase technologies, solutions, products, services and innovations providing ample opportunity to gain ultimate business exposure within the Life Science Fraternity. The interactive arm of the event, offered an appropriate platform for new business, tie-ups & collaborations and attract investments.

The tradeshow had over **20 Companies from UK** to showcase their products and technology.

One of the major highlights of Bangalore INDIA BIO was focus on **Start-Ups** encouraging innovation & entrepreneurship from across **Bio-IT**, **Medical Devices**, **BioAgri and BioPharma sector**. Also **86 applications** received for Bio-Accelerate Programme out of which **5 companies** were selected in the final round of **Business Plan Competition**. **20 Start-Up companies** participated in the Exhibition as well.

PARTICIPATION ANALYSIS

International Representation- from over **12 Countries** with major delegations from **UK**, **Spain**, **Korea** and delegates from leading countries like **USA**, **Canada**, **Australia**, **France**, **Germany**, **Poland**, **Belgium**, **Taiwan**, **Malaysia**.

Delegates	800
Speakers	116
Sponsors / Exhibitors	80
Countries	12
Posters	92

INTERLINX - The B2B Partnering Tool

BIB 2016 proved to be a success with over 300+ meetings held during the 3 days. The meetings were held amongst **Corporate, R&D and Academic organizations** from **India and overseas**. In addition to the meetings scheduled at the Business Conclave, several offline meetings were scheduled as well with the delegates using the messaging feature of the partnering tool.

Key statistics of the meetings are as mentioned below:

India - India Meetings	71
India - International Meetings	61
International - International Meetings	19
Total Messages Exchanged / contact shared	323











BIO-EXCELLENCE AWARD

Bangalore INDIA BIO 2016 recognized the contribution of eminent Biotech Leaders for their outstanding achievements for the financial year (2014-2015) and felicitated them during the Awards Function. The following Categories of Awards were presented during the Function:

Bio-Excellence & Emerging Company of the year Awards were presented to the Industry. For the selection of the Award, a Jury was constituted by ABLE comprising of Members from Industry, Academia, Media and Government.

Category	Bio-Excellence Award Winner	Emerging Company of the Year
BioPharma & Healthcare	Biocon	Pandorum Technologies
BioAgri	Ajeet Seeds	Criyagen Agri & Biotech Pvt Ltd
BioServices	Ecron Acunova	Affigenix Biosolutions
BioIndustrial	Novozymes South Asia Pvt. Ltd.	Cellzyme Biotech
BioInformatics & Systems Biology	Mitra Biotech	MedGenome

Exhibitors Awards were also given under various categories as per below:

Category	Winners	
Bio Content and Information	Merck Life Science Pvt. Ltd	
	Department of Science and Technology, Government of UP	
	ABLE-Ag	
Design and Innovation	Biocon	
	UK Trade and Investment	
	SV Scientific	
Interactive and Best Managed	Gujarat State Biotechnology Mission	
	Omega Scientific Instruments Pvt. Ltd	
	IBAB	
Start-Up Pavilion	Azooka Life Sciences	
	Gujarat Eco Microbial Technologies	
	Axio Biosciences	









POSTER SESSION

Young minds were given an opportunity to showcase their innovative ideas. Over 105 entries were received, of them 92 posters were selected. The winners are as follows:

Presenter	Organisation	Title of Paper	Prize amount in Rs.
Badri S. Rajagopal	Proteinix	A Novel Approach to Bridge Academic and Industrial Research	30,000
Naini Bhadri	Al Ameen College of Pharmacy	Phloroglucinol A Neuroprotective Nutraceutical for Diabetic Neuropathy: In Silico, In Vitro and In Vivo Studies.	20,000
Abhinav Raina	Phytotron Research Center	Improved synthesis and better understanding the regulatory roles for Brassinosteroids	15,000
Kaushani Banerjee	PES University	Study of Murayya Koenigii for the Removal of Cr (VI) From Aqueous Solutions	10,000
Akhilesh Kumar Bajpai	Shodhaka Life Sciences Pvt. Ltd.	Meta-analysis Of Gene Expression Data Discovers Novel Potential Cancer Candidates	10,000

BIO QUIZ 2016

The **8**th **Edition** of the annual **State Bio Quiz** at Bangalore INDIA BIO conducted along with Bangalore INDIA BIO witnessed a keen contest amongst the finalists from IISc, Bangalore; UAS, Dharwad; St. Aloysius Mangalore; College of Agriculture, Vijayapur; National College of Pharmacy, Shimoga ; SJCE, Mysore. Preliminaries of state level 'BioQuiz 2016' were conducted across Karnataka where-in over 800 teams participated.

Colleges / Institutions	Participants	Result	Prize amount in Rs.
IISc, Bangalore	Subhajit Dasgupta Siddarth Kankaria	Winner	75,000
University of Agriculture Sciences, Dharwad	Akarsh R Basangowda Gopal	1st Runners Up	50,000
St. Aloysius, Mangalore	Megan Dsouza Ninaad Lasrado	2nd Runners Up	25,000
College of Agriculture, Vijayapur	Suraj Melavanki Sachin Wali	3 rd Runners Up	10,000
National College of Pharmacy, Shimoga	Chetan N Srinidhi B.R	4 th Runner Up	5,000
SJCE, Mysore	Devasnapathi Deepak S. Torgal	5 th Runner Up	5,000









TESTIMONIALS

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"It is a matter of pride that we are in the 16th edition of this event. To start a movement is easy, the sustenance is difficult."- Dr. Harsh Vardhan, Hon'ble Union Minster for Science & Technology and Earth Sciences, Government of India

"Pleased to know that this event has attracted attention and awareness both nationally and internationally. Biotechnology will be 'Beautiful Tomorrow'"- Shri Roshan Baig, Hon'ble Minister for Information Technology, Biotechnology and Science & Technology; Planning & Statistics, Government of Karnataka

""We are proud to have sustained our dominance in Biotechnology sector. It is a matter of pride that we are in the 16th edition of this event. Human capital will shape India's prowess in science & technology. The quality of science & scientists in India is increasing by leaps & bounds, we have to leverage that."- Dr. Kiran Mazumdar Shaw, Chairperson, Karnataka's Vision Group on Biotechnology, Bengaluru, Chairman & Managing Director, Biocon Limited

"This Conference promises to be stimulating and we are very proud to be a part of it each year." - Mr. Dominic McAllister, British Deputy High Commissioner, Bengaluru

"It was a great networking event. BIB has always been the Benchmark for scientific events in India." - Dr. Pawan Dhar, Professor & Head, Synthetic Biology Program, School of Biotechnology, Jawarharlal Nehru University

"I enjoyed being a part of the Bangalore India Bio 2016 and appreciate all your support in making the Proteomics and Bioinformatics session a great success. Thank you for this opportunity."-**Prof. Utpal Tatu, Indian Institute of Science, Bangalore**

"It has been a great chance to me and the Spanish delegation to meet interesting people for different industries and the biotechnological sector. In addition, Bangalore was also a surprise to me as city and place to do research. From my point of view, it has been a very positive experience."-**Dr. Carlos Barreiro, INBIOTEC, Proteomics, Parque Científico de LeónIt, Spain**

"Let me take this opportunity of thanking the organisers for the Panel discussion and the Interactive session that provided an opportunity for the Biotech industry leaders, the NBA and the academia to come together to deliberate over issues of common interest."- Dr. M. K. Ramesh, Professor of Law, NLSIU, Bengaluru and Non-Official Expert Member, NBA

"The Overall Experience was good in terms of brand promotion, few enquiries generated but I am happy and satisfied with the kind of awareness spread in the minds of visitors and got appreciated by them all finally."- Mr. Lenin Babu, Managing Director, Omega Scientific Instruments Pvt. Ltd.

"It was overall a great experience in terms of Brand promotion and leads." - Mr.V.S.Ravindran, CEO, Caprienzymes

"Overall experience was good. Due to this event Bio smart was known to many people. Good Footfall of visitors also. "-**Dr.Sharmila Barve, Director, Bio smart Biologicals Pvt. Ltd.**

"It was a wonderful experience. We made good contacts which will be beneficial for start up to grow."- Dr.Rina Gokani, CRO, Accuprec Research Labs Pvt. Ltd.



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PRESS COVERAGE

Bangalore Bio 2016 Medicine of the future is the focus

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Consortium of public institutes to focus on non-GM biotechnology research

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\$5b to make biotech a \$100b sector

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