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South Asia Biosafety Program

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About the Conference

The South Asia Biosafety Conference is an opportunity to hear from leading scientists representing regulatory agencies, public sector research institutions, and the private sector in South Asia and internationally. The conference will be held at the Taj Krishna, Road Number 1, Banjara Hills, Hyderabad, Telangana 500034, India on September 19-21, 2016.

Program Highlights

The conference program will cover several topics, including:

- Regulation of Biotechnology in South Asia
- Research and Development in South Asia
- Research Efforts to Address Climate Change
- New Technologies in GE Development
- **Facility Visits**
- Meeting Regulatory Challenges and Approaches to Regulatory Support
- Dossier Preparation: Planning and Generation of Regulatory Data

Who Should Attend

The conference is open to all scientists, academics, researchers and officials from industry, research institutions, universities, government departments and ministries.

Poster Competition

The Poster Program is an opportunity for individuals to share their research, findings and achievements with colleagues at the conference. All poster must convey relevance to biosafety research, environmental risk assessment of genetically modified organisms (GMOs), or the regulation of GMOs – plants, animals, arthropods, or micro-organisms. First and second place prizes will be awarded for the most outstanding posters.

Social Media

Follow along to @CERA_ILSI on Twitter for updates and to see



live tweets during the conference! #SABC2016

Organizers and Partners



















Registration Details

Registration is open! For more information, please see pages 5-8 or visit the conference website at http://sabc.biotech.co.in

Stakeholder Consultation Held to Finalize Biosafety Documents

Dr. M. Imdadul Hoque, Dean, Faculty of Biological Sciences, University of Dhaka and Country Coordinator, South Asia Biosafety Program, Dhaka





On June 14-15, 2016, the Department of Environment (DOE) organized a two-day stakeholder consultation on the finalization of the biosafety documents under the Implementation of National Biosafety Framework (INBF) Project supported by UNEP-GEF. The main purpose of the consultation was to gather inputs on the draft Biosafety Policy of Bangladesh and Biosafety Monitoring and Enforcement Manual.

The meeting was held at the LGED-RDEC Auditorium, Agargaon, Dhaka and was attended by approximately 80 participants representing various National Agricultural Research Systems (NARS) Institutes, ministries, departments, non-governmental organizations, as well as public and private universities.

Dr. Kamal Uddin Ahmed, Secretary, Ministry of Environment and Forests, Government of the People's Republic of Bangladesh inaugurated the meeting as the Chief Guest. Mr. Md. Nurul Karim, Additional Secretary, Ministry of Environment and Forests (MOEF), Government of the People's Republic of Bangladesh graced the inaugural ceremony as the Special Guest. Mr. Md. Raisul Alam Mondal, Director General, DOE was the Chair.

Dr. Ahmed stated that Bangladesh is a small country with a huge population that is steadily increasing. Moreover, the agricultural land is also decreasing every year for different practical reasons. To fulfill the

demands for food and nutritional security, the Government of Bangladesh is supporting the application of modern biotechnology. However, Bangladesh must address the concerns of potential adverse effects of biotechnology related to humans, animal health and biodiversity. He also suggested to urgently address all issues mentioned in the Biosafety Policy.

Mr. Mohammed Solaiman Haider, Director (Planning) & Project Director, INBF Project, gave a detailed outline of the activities performed through the INBF Project and highlighted the salient features of the Biosafety Policy and Biosafety Monitoring and Enforcement Manual. He urged the participating scientists and policymakers to give their valuable suggestions on the drafted document so that it can be finalized and accepted by the MOEF.

Mr. Mondal urged participants to be considerate of similar biosafety documents prepared by neighboring countries as well as by international bodies while providing comments on the draft.

A considerable amount of suggestions were received during the consultation. Relevant suggestions will be incorporated in the documents and will be distributed among the participating scientists and relevant experts before their finalization for the MOEF.

Special Issue Published on EFSA's 2nd Scientific Conference Shaping the Future of Food Safety, Together

A special issue of the European Food Safety Authority (EFSA) Journal has been published summarizing the main outcomes of EFSA's 2nd Scientific Conference Shaping the Future of Food Safety, Together which was held in Milan, Italy on 14–16 October 2015 during the EXPO 2015 exhibition. The conference was structured around two major themes: the Future of Assessment Science; and Science, Innovation and Society, organized in three plenary and eight breakout sessions. What followed over the 3 days was a stimulating and insightful debate on the most critical issues that are engaging scientists, risk assessment bodies and food policy makers globally.

To view this open access journal, please visit http://bit.ly/29bJ83R

Spotlight on the Institutional Biosafety Officer Dr. Jagesh Kumar Tiwari



Currently, over 30 Indian Council of Agricultural Research (ICAR) institutes have active research programs using genetically engineered (GE) plants, covering over 80 species. Because ICAR is committed to compliance with biosafety regulations concerned with GE organisms, it has partnered with the South Asia Biosafety Program to initiate a series of biosafety capacity building activities across the institutions for research programs engaged in the development of GE plants.

The first major activity has been a pilot program in ten ICAR institutions actively working to develop new GE plants. Two individuals were selected from each of the ICAR institutions to become Institutional Biosafety Officers (IBOs). After their initial training, the IBOs will be working together to create all the materials necessary for a functioning institutional biosafety program, including standard operating procedures, staff training materials, and processes for facility biosafety audits.

In this month's SABP newsletter, we will be featuring Institutional Biosafety Officer Dr. Jagesh Kumar Tiwari. Read about his perspective on being involved in the IBO program.



INSTITUTIONAL BIOSAFETY OFFICER: Dr. Jagesh Kumar Tiwari

JOB TITLE: Scientist (Senior Scale)

ORGANIZATION: Central Potato Research Institute (CPRI), Shimla

BIOGRAPHY: Dr. Tiwari received his Ph.D. in Horticulture from IARI. New Delhi, India in 2007. He has more than eight years of research experience in potato genetic enhancement through cellular, molecular and genomics tools. Dr. Tiwari has developed three interspecific potato somatic hybrids via symmetric protoplasts fusion to widen the cultivated potato gene pool for breeding uses. He has identified genes controlling late blight resistance and tuberization in the potato somatic hybrids by microarray transcriptome analysis. He has contributed to isolation of late blight resistance genes from wild species, QTLs mapping, molecular diversity for marker-assisted potato breeding, and applied genomics (RNA-Seq) approaches for improving nitrogen use efficiency in potato and whole genome sequencing of dihaploid potato. He has acquired his molecular skills from CIP, Lima, Peru and Post-Doctoral Research (Australian Endeavour Research Fellow-2015) at ACPFG (Australian Centre for Plant Functional Genomics), University of Adelaide, Australia. Dr. Tiwari has published nearly 40 research papers in peer-reviewed journals at the national and international level.

THE VALUE OF THE IBO PROGRAM: "This program has been very helpful in terms of application of biosafety guidelines for transgenics plants. Currently, CPRI handles genetically modified organisms related to economically important traits like resistance to late blight and potato viruses, and reduced cold-induced sweetening for chipping. The knowledge gained is being used at various levels like laboratory and glass house trials especially in terms of problem formulation, handling and disposal of transgenic materials. The IBO training on environmental risk assessment, problem formulation, practical exercises and dossier preparation has been beneficial to apply at the institute level."

National Symposium on Transgenic Crops in India: Progress and Challenges

Dr. R.C. Yadav, Organizing Secretary, Professor, Head, Department of Molecular Biology, Biotechnology & Bioinformatics, Chaudhary Charan Singh Haryana Agricultural University, Hisar



The Chaudhary Charan Singh Haryana Agricultural University (CCS HAU) Hisar and the Society for Plant Biochemistry and Biotechnology (SPBB) organized a "National Symposium on Transgenic Crops in India: Progress and Challenges" on March 16-17, 2016. CCS HAU is one of Asia's biggest agricultural universities located at Hisar in the state of Haryana and has contributed significantly to the Green Revolution and White Revolution in the 1970s and 1980s.

The symposium was inaugurated by the Vice Chancellor Dr. K.S. Khokhar and presided over by Dr. S.L. Mehta, President, SPBB. The symposium was attended by more than one hundred participants and included seven technical sessions including a poster session and a brainstorming session. The brainstorming session was attended by sixty participants including scientists, young researchers and students. The event was coordinated by Dr. R.C. Yadav, Head, Department of Molecular Biology, Biotechnology & Bioinformatics and the brainstorming session was chaired by Dr. G.K. Garg.

During the brainstorming session, Dr. Garg discussed the success of genetically modified (GM) crops at the national and international levels. He noted that Bt cotton has occupied more than 95% of the cotton area and India is now the second biggest producer and exporter of cotton in the world. On the other hand, Bt brinjal could not be released despite the fact that all regulatory processes were successfully cleared. There are several other transgenic products in the pipeline, such as GM mustard, waiting for release.

Discussions focused on the contribution of GM crops to enhanced productivity by avoiding yield losses due to adverse growing conditions including abiotic and biotic stresses. As evident from the success of Bt cotton in India, an increase in the productivity of crops in turn helps lead to an increase in farmers' incomes. There has been a 33% reduction in

the use of pesticides in Bt crops. When approved, GM crops for improved nutritional and processing quality are expected to be readily accepted by farmers and consumers.

Regarding the food and feed safety of GM crops, participants noted that GM foods also undergo the same level of safety assessments as non-GM foods. Current regulations are very stringent for allergenicity and toxicity assessments. The concerns regarding loss of biodiversity due to GM crops were also discussed, wherein, the scientists opined that the loss of crop diversity has occurred even with the monoculture of high yielding varieties and hybrids during the Green Revolution because farmers discontinued cultivation of traditional varieties with low productivity. As new varieties are released for farmers, depending upon its performance and yield benefits, old varieties should be phased out. However, the germplasm of these old varieties should be kept safely in gene banks for future needs. The recommendations of the meeting have been adopted by the Society of Plant Biochemistry and Biotechnology.



Genetically Engineered Plants in the Product Development Pipeline in India

The GM Crops & Food: Biotechnology in Agriculture and the Food Chain Journal published a new article titled "Genetically Engineered Plants in the Product Development Pipeline in India". In India, the regulation of genetically engineered (GE) organisms is prescribed in rules notified by Ministry of Environment and Forests (now the Ministry of Environment, Forests and Climate Change; MoEF&CC), Government of India on December 5, 1989 under the Environment (Protection) Act 1986. These rules, commonly referred to as Rules 1989, cover the manufacture, import, use, research and release of GE organisms and derived products in India. (Rules for the Manufacture, 1989) The key regulatory bodies responsible for implementation of the Rules 1989 are the Genetic Engineering Appraisal Committee (GEAC) in MoEF&CC, and the Review Committee on Genetic Manipulation (RCGM) in the Department of Biotechnology (DBT).

Regulatory systems cannot remain static; technological innovation is a dynamic driver of how biotechnology is being applied to develop new products and processes internationally. Since these are regulated activities in India, it is important for GEAC and RCGM to remain apprised of these changes so that risk assessment guidance, supporting resources, and outreach and training of stakeholders can be appropriately modified. In order to proactively identify emerging issues that may impact the risk assessment and risk management functions of the Indian biosafety regulatory system, MoEF&CC conducted a survey to understand the nature and diversity of genetically engineered crops (also referred to as transgenic crops herein) that may move to product commercialization within the next 10 years. This is the first comprehensive overview of the R&D pipeline for GE crops in India. To view this publication, please visit http://bit.ly/29bLrUz



The Prime Minister of India, Hon'ble Shri Narendra Modi and the President of Kenya, Mr. Uhuru Kenyatta interact with a select group of entrepreneurs and innovators, including Dr. Purnima Sharma, Managing Director, Biotech Consortium India Limited (BCIL). Dr. Sharma informs Hon'ble Modi and President Kenyatta about BCIL activities during their interaction with the Indian Business Delegation in Nairobi, Kenya on July 11, 2016.



Call for Abstracts

The ILSI Southeast Asia Region and the Southeast Asia Association for Food Protection are organizing the 4th Asia-Pacific International Food Safety Conference and the 7th Asian Conference on Food and Nutrition Safety on October 11-13, 2016 in Malaysia. Researchers are invited to submit conference abstracts of up to 300 words to be considered for poster and oral presentation. Abstracts should be in line with the conference theme and session topics, and specify introduction, purpose, methods, results and significance of the findings to food safety and/or public health. Prizes will be awarded for the most outstanding poster and oral presentations. The submission deadline is August 15, 2016.

For more information, please visit the conference website: www.apacfoodsafety2016.com

EVENT	ORGANIZED BY	DATE	WEBSITE
INDIA			
Awareness Workshop on Guidelines for Access to Biological Resources under the Biological Diversity Act, 2002	Department of Biotechnology, Biotech Consortium India Limited and National Biodiversity Authority	July 15, 2016, Hyderabad July 28, 2016, Bangalore	www.bcil.nic.in/
International Conference on Agriculture, Food Science, Natural Resource Management and Environmental Dynamics: The Technology, People and Sustainable Development	Bidhan Chandra Krishi Viswavidyalaya, Nadia	August 13-14, 2016 Nadia, West Bengal	http://bit.ly/29blp2M
International Conference on Food, Water, Energy Nexus in Arena of Climate Change	Anand Agricultural University and National Council for Climate Change Sustainable Development and Public Leadership (NCCSD)	October 14-16, 2016 Anand, Gujarat	http://bit.ly/1qpcp1y
1st International Agrobiodiversity Congress (IAC 2016)	Indian Society of Plant Genetic Resources (ISPGR) and Bioversity International	November 6-9, 2016 New Delhi	www.iac2016.in/
International Conference on "Pulses for Nutritional Security and Agricultural Sustainability"	Indian Society of Pulse Research and Development in association with Indian Institute of Pulses Research, Kanpur	November 12-14, 2016 New Delhi	www.iipr.res.in/pdf/ events_201115.pdf
International Conferences on Nutraceuticals and Functional Foods – The Challenges and Opportunities along with The XIII Convention of the Indian Society of Agricultural Biochemists	Indian Society of Agricultural Biochemists, C.S. Azad University of Agriculture and Technology, Kanpur and Anand Agricultural University, Anand, Gujarat	December 6-8, 2016 Anand, Gujarat	http://bit.ly/1qpcq5H
INTERNATIONAL			
4 th Annual South Asia Biosafety Conference	SABP, Center for Environmental Risk Assessment (CERA), ILSI Research Foundation, Biotech Consortium India Limited (BCIL)	September 19-21, 2016 Hyderabad, India	http://sabc.biotech.co.in/
4 th Asia Pacific International Food Safety Conference & 7 th Asian Conference on Food and Nutrition Safety	ILSI Southeast Asia Region and Southeast Asia Association for Food Production	October 11-13, 2016 Penang, Malaysia	www.apacfoodsafety2016.com
8 th International Plant Tissue Culture & Biotechnology Conference	Bangladesh Association for Plant Tissue Culture & Biotechnology (BAPTC&B) and University of Dhaka	December 3-5, 2016 Dhaka, Bangladesh	www.baptcb.org/



The South Asia Biosafety Program (SABP) is an international developmental program implemented in India, Bangladesh and Pakistan with support from the United States Agency for International Development. SABP aims to work with national governmental agencies and other public sector partners to facilitate the implementation of transparent, efficient and responsive regulatory frameworks for products of modern biotechnology that meet national goals as regards the safety of novel foods and feeds, and environmental protection.







BANGLADESH Prof. Dr. M. Imdadul Hoque **Department of Botany** University of Dhaka Dhaka - 1000 Bangladesh Email: mimdadul07@yahoo.com **INDIA** Dr. Vibha Ahuja Chief General Manager Biotech Consortium India Limited Anuvrat Bhawan, 5th Floor 210, Deendayal Upadhyaya Marq New Delhi 110 002 India Email: vibhaahuja.bcil@nic.in

UNITED STATES Mrs. Libby Williams **Communications Manager ILSI Research Foundation** 1156 Fifteenth Street N.W., Suite 200 Washington, D.C. 20005-1743 USA

Email: lwilliams@ilsi.org Twitter: @CERA_ILSI and @ILSIRF

To receive an electronic copy of this newsletter send your name, institutional information and e-mail address to: vibhaahuja.bcil@nic.in

4th Annual South Asia Biosafety Conference

September 19-21, 2016 Taj Krishna, Hyderabad, India





















The South Asia Biosafety Conference is an opportunity to hear from leading scientists representing regulatory agencies, public sector research institutions, and the private sector in South Asia and internationally. The conference will be held at the Taj Krishna, Road Number 1, Banjara Hills, Hyderabad, Telangana 500034, India.

September 19, 2016

Delegate Registration and Inaugural Ceremony

Plenary Session I: Regulation of Biotechnology in South Asia

Parallel Session I: Research and Development in South Asia

Parallel Session II: Research Efforts to Address Climate Change

Poster Session

Conference participants are encouraged to share their work with colleagues by preparing a poster for this session. Poster abstracts should be submitted at the time of registration and no later than September 1, 2016.

September 20, 2016

Plenary Session II: New Technologies in GE Development **Facility Visits**

September 21, 2016

Plenary Session III: Meeting Regulatory Challenges and Approaches to Regulatory Support

Poster Session Awards

Plenary Session IV: Dossier Preparation: Planning and Generation of Regulatory Data

For more details and registration information, please visit http://sabc.biotech.co.in Follow along to @CERA_ILSI on Twitter to see live tweets during the conference! #SABC2016



Registration Form

4th Annual South Asia Biosafety Conference

September 19-21, 2016 Taj Krishna, Hyderabad, India



Registrations are limited to 100 for the conference. Registrants that cannot be accommodated will be added to a waitlist, and notified if space becomes available. Attach mailing label from brochure, or your business card. Name Preferred on Badge _____ Complete the following if the information on the mailing label is incorrect or no label is provided. Registrant is: Gender Male Female Title Mr. Mrs. Ms. Dr. First Name Middle Initial Last/Surname Job Title Employer/Company/Institution _____ Address Street City State/Province _____ Zip/Postal Code _____ Country Telephone Facsimile _ E-mail

Registration*

Category	Fee		
	INR	US\$	
Industry	Rs. 6,500/-	\$100	
Research Institution, Universities, Individual Experts	Rs. 3,500/-	\$50	
Students	Rs. 2,700/-	\$40	
BCIL Biotech Club Members	25% discount		
Additional delegates from same organization (except students)	25% discount		
Government Departments and Ministries	No fee up to two nominations and Rs. 2,000/- each for additional nomination. Registration must be submitted through email to vibhaahuja.bcil@nic.in and confirmed by organizers. No online registration.		

^{*}No free on-the-spot registrations.

In case you face difficulty in online registration, please download the registration form and send it to us along with payment through bank transfer. The details for Bank Transfer are as follows:

Beneficiary Name: Biotech Consortium India Limited

Account Number: 00032320008527

IFSC Code: HDFC0000003 (HDFC Bank Limited)

Cancellation/Refund Policy

Registration cancellations must be made in writing and received by BCIL no later than September 1, 2016. Cancellations received by this date are subject to a 20% processing fee. Registration and ticketed event cancellations received after September 1, 2016, are NOT subject to a refund.

Registration forms should be sent to:

Dr. Vibha Ahuja, Chief General Manager

Biotech Consortium India Limited (BCIL)

Anuvrat Bhawan, 5th Floor

210, Deen Dayal Upadhyaya Marg

New Delhi - 110 002

Telephone Number +91-11-23219064-67 (Ext. 204; 205);

23219059(D)

Fax Number +91-11-23219063

Email: vibhaahuja@biotech.co.in; vibhaahuja.bcil@nic.in

Poster Program Abstract Submission Form 4th Annual South Asia Biosafety Conference

September 19-21, 2016 Taj Krishna, Hyderabad, India



THE 4TH ANNUAL SOUTH ASIA BIOSAFETY CONFERENCE POSTER PROGRAM is an opportunity for individuals to share their research, findings and achievements with colleagues at the conference. Presenting a poster is a noteworthy way to share expertise or accomplishment, and poster presenters will have a dedicated time to present and discuss their work with the diverse group of attendees.

All poster abstracts must convey relevance to biosafety research, environmental risk assessment of genetically modified organisms (GMOs), or the regulation of GMOs – plants, animals, arthropods, or micro-organisms. Examples of topics include:

- · Laboratory or field research that describes novel findings that can be used to inform ERA of GMOs.
- Research that advances understanding of how GMOs may potentially affect agro-ecosystems e.g., new approaches for early tier testing of non-target organisms.
- Studies that will lead to improved stewardship of GMOs
- Studies on management of secondary pests and/or volunteer weeds in GM plant agriculture.
- Studies related to the use of GMOs in public health e.g., vector control of pathogens.
- Studies related to the use of GMOs for environmental remediation.
- New approaches to ensuring reproductive isolation of experimental GMOs in field situations.
- Results from studies that integrate GMOs into sustainable, agricultural production systems.
- Substantive programs used to improve biosafety capacity and knowledge generation where these are supported by data demonstrating impact (descriptions of single workshops or seminars are not eligible).
- Substantial discussion of biosafety considerations or needs associated with ongoing research or product development

Posters describing basic research e.g., construct development, gene discovery, transformation methods etc. will not be considered. Authors of select abstracts may be given an opportunity to present their research during the Lighting Round session on September 19. This session is comprised of short, oral presentations of 5-7 minute duration.

ABSTRACT SUBMISSION FORM FOR POSTER PROGRAM

PLEASE COMPLETE THE FORM BELOW AND E-MAIL IT TO lwilliams@ilsi.org AND COPIED TO vibhaahuja.bcil@nic.in.

You will receive a return email acknowledging receipt of your abstract and subsequently a second email informing you if your poster has been accepted for the conference poster program.

l.	Lead Presenter
1.	
	First Name:
	Last Name:
	Institution and Address:
	E-mail:
	Telephone Number:
	(NOTE: Poster Presenters must register for the 4th Annual South Asia Biosafety Conference. If an abstract is received from a
	author who is not registered, the abstract will NOT be included in the review process).
II.	· ·
II.	author who is not registered, the abstract will NOT be included in the review process).
II.	author who is not registered, the abstract will NOT be included in the review process). Poster Title: Poster Authors:

Accomodations and Travel 4th Annual South Asia Biosafety Conference

September 19-21, 2016 Taj Krishna, Hyderabad, India



CONFERENCE LOCATION

The 4th Annual South Asia Biosafety Conference will be held at the Taj Krishna, Road Number 1, Banjara Hills, Hyderabad, Telangana 500034, India.

ACCOMMODATIONS

NAME OF THE HOTEL	ADDRESS	PRICE SINGLE OCCUPANCY	PRICE DOUBLE OCCUPANCY	CONTACT
Taj Krishna	Road No. 1, Banjara Hills, Hyderabad-500034 Telangana	Rs. 10000/- Price includes taxes, breakfast, airport pick up/drop off and Wi-Fi.	Rs. 11000/- Price includes taxes, breakfast, airport pick up/drop off and Wi-Fi.	tkhresv.hyd@tajhotels.com
Taj Deccan	Road No. 1, Banjara Hills, Hyderabad-500034 Telangana	Rs. 6000/- Price includes taxes, breakfast and Wi-Fi.	Rs. 7000/- Price includes taxes, breakfast and Wi-Fi.	tdhresv.hyd@tajhotels.com
Taj Banjara	Road No. 1, Banjara Hills, Hyderabad-500034 Telangana	Rs. 5750/- Price includes taxes, breakfast and Wi-Fi.	Rs. 6750/- Price includes taxes, breakfast and Wi-Fi.	tdhresv.hyd@tajhotels.com
Hotel NKM's Grand	6-3-563/31/1, Off Taj Deccan Road, Erramanzil, Somajiguda Hyderabad-500082 Telangana	Rs. 3,200/- Price includes taxes, breakfast and Wi-Fi.	Rs. 4,000/- Price includes taxes, breakfast and Wi-Fi.	reservation@nkmsgrand.com

For assistance with your accommodations, please contact Dr. Vibha Ahuja at vibhaahuja.bcil@nic.in.

VISAS

For assistance with obtaining your visa, please contact Dr. Vibha Ahuja at vibhaahuja.bcil@nic.in.

SOCIAL MEDIA

Join the conversation on social media with @CERA_ILSI. #SABC2016 is the preferred hashtag for the 4th Annual South Asia Biosafety Conference.