

Detailed Program Schedule
International Conference on Bio and Nano Technologies for Sustainable
Agriculture, Food, Health, Energy and Industry
(21-23 February, 2018)

Invited speakers Talk /Plenary sessions

Venue: CRS Auditorium, HALL-I

Date & Venue	Technical session and Time	Name & Add. of the invited speaker	Title of the talk
Day 1 21st Feb. 2018	Inaugural Session (10AM – 11:30AM)	Prof. Arthur Riedacker (Nobel Laureate) President, Oikos Food Security, France Emeritus, Director Research, INRA, France	From the 1992 Climate Convention to the 2015 Paris agreement: Evolution of scientific knowledge and consequences for National Commitments and Policies and Measures, in particular for Agriculture
	Session Chair : Dr Menfred Kern Session Co-Chair: Prof. Hossam Rushdi Rapporteur: -----		
	Plenary Session-I (12 Noon- 1:30 PM)	Prof. Ravindra N. Chibbar Department of Plant Sciences University of Saskatchewan, Saskatoon, Canada	Genomics strategies to improve grain quality for improved human health and diversification of cereal crops utilization
		Prof. R.S. Sangwan Director / Vice Chancellor, Academy of Scientific and Innovative Research (AcSIR), Gaziabad, (UP)	Novelties of Enzymes of Secondary Metabolism
Day 2 22nd Feb. 2018	Session Chair : Prof. Arthur Riedacker Session Co-Chair: Prof. Mohammad Ebrahim Kazman Rapporteur: Prof. Rajesh Dabar		
	Plenary Session-II 9.30AM- 11:15AM	Dr Menfred Kern Senior Fellow, Centre for Development Research (ZEF) Rheinische Friedrich-Wilhelms-University of Bonn, Germany	Strategic Necessity of Biotechnology, Nanobiotechnology, Gene Editing, and Gene-Drive in Future Crop Production - Vision 2050
		Prof. Mohammad Ebrahim Kazman, Syngenta Seeds GmbH Kroppenstedter Str. 439387, Oschersleben Germany	Meeting the world's demand: Wheat and Wheat Breeding – Global Food Security

		Prof David Mark Olson Department of Physiology, College of Medicine, University of Alberta, Edmonton, Alberta, Canada	Novel Technologies for Preterm Birth Diagnosis and Therapeutics
		Dr. Ramesh V .V. Business Development Manager, Life Sciences Solutions	Lecture Genome editing tools from Thermo Fisher for Agbio applications
Day 3 23rd Feb. 2018	Session Chair : Prof. Ravindra N. Chibbar Session Co-Chair: Prof. Ratan Yadav Rapporteur: Prof. Kiran Nehra		
	Plenary Session-III 9.30AM- 11:30 AM	Prof K.C. Bansal Former Director, NBPGR (ICAR) and Senior Fellow, TERI-Deakin Nano- Biotechnology Centre, Gurugram	Genetic and Genomic Resources and their Utilisation for Sustainable Agriculture
		Prof. P.K. Gupta Hony. Emeritus Professor & INSA Hony. Scientist Meerut University, Meerut 250004, India	Biotech Crops and Gene Targeting: Issues, Problems & Opportunities

Poster Session

International Conference on Bio and Nano Technologies for Sustainable
Agriculture, Food, Health, Energy and Industry
(21-23 February, 2018)

Venue: Front of CRS Auditorium

Poster Session	Date and Time.	Theme	Abstract Code No.
I.	21 st Feb.,2018 2:00 PM to 3:30 PM	Sustainable Animal Production (SAP) + Sustainable Agriculture (SA)	SAP-1 To 13 SA-1 To 51
II.	21 st Feb.,2018 3:45 PM to 5:15 PM	Functional food, Nutraceutical and Food processing (FFN) + Sustainable Agriculture (SA)	FFN-1 to 57 SA-52-104
III.	22 nd Feb.,2018 11:30 AM to 1:00 PM	Molecular Biology, Functional Genomics & Proteomics (MBF)	MBF-1 To 49
IV.	22 nd Feb.,2018 2:00 PM to 3:30 PM	Nano Technology, Health and Pharmaceutical Sciences (NTP)	NTP-1 To 49
V.	22 nd Feb.,2018 3:45 PM to 5:15 PM	Nano Technology, Health and Pharmaceutical Sciences (NTP)	NTP-49 To 101
VI.	23 rd Feb., 2018 9:00 AM to 10:00 AM	Environment sustainability in Agriculture & Energy (ESA)	ESA-1 To 50
VII.	23 rd Feb., 2018 10:15 AM to 11:15 AM	Environment sustainability in Agriculture & Energy (ESA)	ESA-51 To 85

Detailed Technical Program Schedule
International Conference on Bio and Nano Technologies for Sustainable
Agriculture, Food, Health, Energy and Industry
(21-23 February, 2018)

Day -1, 21st February, 2018	
Technical Session-I(a); 2:00 PM – 3:30 PM	
Venue : HALL-I, CRS Auditorium, GJUS&T, Hisar	
Session Chair :Prof. R.S. Sangwan Session Co-Chair: Prof. B.S. Khatkar Rapporteur: Dr. Jyoti Rana	
Lead Lecture	TITLE & AUTHORS
1	Prof Ashok Dhawan Former Technical Director, Centre for Plant Biotechnology, CCS HAU Campus, Hisar Title: Sucrose Storage Systems of Sugarcane
2	Prof. Ratan Yadav Aberystwyth University, Aberystwyth, Wales, UK Title: Leveraging plant genetics for better and healthier food - an example from work in pearl millet
Oral Presentation	
1	Mr. Mywish Anand Structure and Dynamics of Water Confined in Cationic Reverse Micelles
2	Dr. Anita Mann Effect of salinity on the antioxidant system of salt tolerant grasses
3	Ms. Pummy Kumari Study of anti-nutritional factors in Forage Sorghum Hybrids
4	Ms. Summy Screening and validation of QTLs for drought tolerance in chickpea (<i>Cicer arietinum</i> L.)
5	Mr. Amit Mass multiplication of stevia <i>rebaudiana bertonii</i> under in vitro condition.
6	Mr. Veerbhan Analysis of biomarkers of oxidative stress and fitness parameters in <i>drosophila melanogaster</i>
Technical Session-I(b); 2:00 PM – 3:30 PM	
Venue : HALL-II, CRS Auditorium, GJUS&T, Hisar	
Session Chair : Prof. David Mark Olson Session Co-Chair. Prof. R.K. Behl Rapporteur: Dr. Anil Kumar Chhilar	
Lead lecture	TITLE & AUTHORS

1	Prof. Hossam E. Rushdi, Department of Animal Production Faculty of Agriculture, Cairo University Al-Gamaa Street, 12613 Giza, Egypt Title: Effect of climate change on livestock production
2	Prof Meenakshi Prasad Department of Animal Biotechnology Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar Title: Outbreaks to Vaccine Outcome: A success story to control arthropod borne viral infection
Oral Presentation	
1.	Dr. Dinesh Krofa Quality characteristics and fatty acid retention of docosahexaenoic acid fortified chevon patties.
2.	Ms. Annu Development of <i>ex-situ</i> and <i>in-situ</i> silver impregnated bio-nanocomposite with improved biomedical property
3.	Ms. Apoorva Goel Synthesis of nano-hydrogel composites containing carrageenan and silver nanoparticles for biomedical applications
4.	Ms. Ramanpreet kaur Frequency of pathogenic germline alterations in breast cancer susceptibility genes
5.	DR.Vishal Mudgal Sources and levels of dietary Zn, Cu and Mn affecting growth performance, feed efficiency and excretion of minerals in growing murrh buffalo (<i>bubalis bubalis</i>) calves
6.	Ms. Parsanta, Sustainable Treatment of Emulsion Effluents from Steel-rolling Mills Using Magnetite (Fe ₃ O ₄) Nanoparticles
7.	Dr. Seema Sangwan, Process Parameters for Biosurfactant Production by Bacteria and Yeast
22nd February 2018	
Technical Session-II(a); 11:30 AM –1:30 PM	
Venue : HALL-I, CRS Auditorium, GJUS&T, Hisar	
Session Chair : Prof. R.C. Yadav	
Session Co-Chair: Prof. Jitender Sharma	
Rapporteur: Dr. Joginder Singh Duhan	
Lead lecture	TITLE & AUTHORS
1	Prof Ashok K Sarial Vice Chancellor, Himachal Pradesh Agricultural University, Palampur, Title: Mapping QTLs for grain attributes in Wheat under heat stress under the theme – Plant Breeding for High Yielding Varieties
2	Dr. Rajnikant Dixit. National Institute of Malaria Research Sector 8, Dwarka, Delhi-110077, India

	Title: Decoding the molecular secrets of mosquito-microbe-parasite interactions and malaria transmission in Indian malarial vectors
3	Dr. Parveen Bansal University Centre of Excellence in Research, Baba Farid University of Health Sciences, Title: Emergence of traditionally used foods as today's probiotics- long journey
Oral presentation	
1.	Dr Sunita Kataria Magnetopriming mitigates the adverse effect of salt stress on growth, photosynthetic efficiency and yield in maize seeds
2.	Dr. O.P. Yadav Harvesting Solar Energy for Photo-catalytic Removal of Pollutants from Wastewater Using Semiconductor Nanoparticles
3.	Mr. Umesh Goutam Comparative analysis of biochemical and molecular studies for polyphenol oxidase activity in different indian wheat cultivars
4.	Ms. Savita Induction of salt tolerance in chickpea (<i>cicer arietinum</i> L.) By acetylsalicylic acid
5.	Ms. Perna Nath Effect of Freeze-Thaw Treatment on Texture of Aonla (<i>Emblica officinalis</i>) Candies
Technical Session-II(b); 11:30 AM –1:30 PM	
Venue : HALL-II, CRS Auditorium, GJUS&T, Hisar	
Session Chair : Prof. S.K. Pahuja	
Session Co-Chair: Prof. Asha Gupta	
Rapporteur: Prof. Rajesh Lohchab	
Lead lecture	TITLE & AUTHORS
1	Prof. C.P. Kaushik Amity School of Earth and Environmental Sciences, Amity University Haryana, Gurgaon Title: Food Security for Sustainable Development under Changing Climate
2	Prof Anubha Kaushik Dean, University School of Environment Management, GGs Indraprastha University, New Delhi Title: Microbe Mediated Bioenergy and Climate Change Mitigation
3.	Prof. V.K. Garg Central University of Punjab, Bhatinda
Oral presentation	
1.	Mr. Amit Singh Consequences of excessive use of arsenic contaminated ground water and pesticides on molecular repository of cell: a computational study
2.	Ms. Ruchi sharma Rhizobacterial-plant interactions: strategies to ensure increased crop productivity under stressed conditions

3.	Ms. Akanksha Bhardwaj Adsorptive removal of methylene blue using 'biochar' - a renewable, low cost adsorbent produced from agriculture waste
4.	Ms. Kamla Malik Optimization of conditions for enzymatic hydrolysis of waste potatoes for bioethanol production
5.	Ms. Savita Rani Dissipation kinetics of different pesticides in pea
6.	Ms. Gursharan Kaur Cellulolytic Potential of Bacterial Consortium from Vegetable Peel Compost using Waste Cotton Bandage
7.	Ms. Reena Chauhan Dissipation pattern of spiromesifen in different crops in Hisar region
8.	Naseer Ahmad Land Use Change Mapping and Analysis Using Remote Sensing and GIS Approach: A Case Study of Upper Harike Watershed, Punjab, India,
Technical Session-III(a); 2:00 PM – 3:30 PM	
Venue : HALL-I, CRS Auditorium, GJUS&T, Hisar	
Session Chair : Prof. Alka Sharma	
Session Co-Chair: Prof. R.K. Salar	
Rapporteur: Prof. Aradhita Rai	
Lead lecture	TITLE & AUTHORS
1.	Prof. Manab Bandhu Bera Professor & Dean (SFW) Department of Food Engineering & Technology, Sant Longowal Institute of Engineering & Technology, Longowal , Punjab Title: Designing New Food Products for Health & Diet: Challenges for the Industries
2.	Dr P.S Panesar Department of Food Engineering & Technology, Sant Longowal Institute of Engineering & Technology, Longowal , Punjab Title: Bio-Processing of Whey into Lactic Acid Production
3.	Prof. S.K. Gehlawat Department of Biotechnology, CDLU, Sirsa Title: What Are Alternative Methods Of PCR for Nucleic Acid Amplification?
Oral presentation	
1.	Dr. Pradyuman Barnwal Evaporators: engineering aspects and applications for dairy and food processing
2.	Mr. Ankit deep Microcontroller based temperature and humidity measurement systems for dairy and food engineering applications
3.	Ms. Mamta Thakur Non-dairy probiotic products: potential and challenges
4.	Dr. Pradyuman Barnwal Development of a vertical double pipe heat exchanger prototype as an evaporator for dairy processing

5.	Ms. Kiran Nain Influence of storage on total flavonoid content of phalsa jam
6.	Mr. P. Barnwal Evaporators: Engineering Aspects and Applications for Dairy and Food Processing
7.	Mr. Dinesh Kumar Bhardwaj Characterization of bacterial biofilms in dairy and meat products and their prevention by natural compounds
8.	Ms. Richa Mehra In vitro evaluation of anti-cancer and anti-oxidant activity of caulerpa species
9.	Ms. Vadde Anoosha Insect pollinator diversity and abundance in sarpagandha, <i>Rauvolfia serpentina</i> ecosystem
Technical Session-III(b); 2:00 PM – 3:30 PM	
Venue : HALL-II, CRS Auditorium, GJUS&T, Hisar	
Session Chair : Prof. Mohammad Ebrahim Kazman	
Session Co-Chair: Prof. S.S. Dahiya	
Rapporteur: Prof. Narender Sheoran	
Lead lecture	TITLE & AUTHORS
1	Prof. Shashi Kumar Rhode International Centre for Genetic Engineering and Biotechnology Aruna Asaf Ali Marg , 110 067 New Delhi, India Title: Synthetic Biology of Plant for Malarial Drug Artemisinin in Biosynthesis
2	Prof. Sukesh Chander Sharma Department of Biochemistry Panjab University, Chandigarh 160014, India- Bharat Title: Using yeast as a model to improve halo-tolerance in Plants
3	Dr Sudesh Kumar Yadav Centre of Innovative and Applied Bioprocessing (CIAB), Sector-81, Knowledge City, Mohali-140306, Punjab, India Title: Impact of bio- and Nano-Technology in development of sustainable value added products from secondary agriculture
Oral presentation	
1	Dr. Jyoti Punia Isolation, characterization and biological potential of compounds from flowers of <i>Moringa oleifera</i>
2	Mandeep Kaur Agricultural based materials for Nanocellulose production
3	Mr. UMESH GOUTAM Bio-fabrication of silver nanoparticles using aqueous extracts of some medicinal plants for application as antimicrobial agent against phyto-pathogens in agriculture
4	Mr. Mywish Anand Structure and dynamics of water confined in cationic reverse micelles
5	Ms. Geetanjali P Cysticercosis: A Major Health Problem

6	Mr. Rajeev Kumar Preparation and characterization of edible nano emulsion matrix by using catastrophic phase inversion (low-energy approach) method
7.	Dr. Dinesh Kumar Nanoencapsulation of Bioactive Cinnamon essential Oil for the Extension of Storage Quality of Chevron Nuggets
8	Sandeep Kumar Piperlongumine: A Promising Chemo preventive Agent for Colon Cancer
9	<u>Dr. Sunil Kumar Khatkar</u>¹ Development and quality evaluation of β -glucan enriched low fat functional dahi
Technical Session-IV(a); 3:45 PM – 5:15 PM	
Venue : HALL-I, CRS Auditorium, GJUS&T, Hisar	
Session Chair : Prof. Pushpa Kharb	
Session Co-Chair Prof. Hossam Rushdi	
Rapporteur: Dr. Rakesh Yadav	
Lead lecture	TITLE & AUTHORS
1	Prof. Satbir Ghosal, Former Director Research, Punjab Agricultural University, Ludhiana Title: Plant Tissue Culture and Transformation in Relation to Crop Improvement
2	Dr. Jyoti Rana School of Veterinary and Life Sciences Western Australian State Agricultural Biotechnology Centre Murdoch University, Perth, Australia Title: Nematodes and their impact on food security
Oral Presentation	
1	Mr. Vinod Kumar Phytases: key sequence features and food applications for improving micronutrient bioavailability
2	Dr. Muhammad Mubashar Hussain Drought phenotyping of sunflower progenies derived from (<i>Helianthus annuus</i> L. X <i>Helianthus argophyllus</i> L.)
3	Ms. Ishan Saini Synergistic effect of microbes including endo-mycorrhizal fungi, as bio-inoculants on growth and floral response of zinnia <i>elegans jacq.</i> Under open field condition
4	Ms. Geetika Sirhindi 28-homobrassinolide dependent oxidative interface to extreme temperature stress in <i>Brassica juncea</i> l. <i>Rlc-1</i> seedlings
5	Ms. Pummy Kumari Study of anti-nutritional factors in forage sorghum hybrids
6	Dr. Praveen Kumar Mehta

	<p>Volatile Constituents of Jenipapo (<i>Genipa americana</i> L.) Fruits at Three Maturation Stages and Optimization of HS-SPME GC-MS Method Using a Central Composite Design</p>
<p>Technical Session-IV(b); 3:45 PM – 5:15 PM</p>	
<p>Venue : HALL-II, CRS Auditorium, GJUS&T, Hisar</p>	
<p>Session Chair : Prof. L. K. Chugh Session Co-Chair: Dr. Rajnikant Dixit Rapporteur: Dr. Punita Sharma</p>	
Lead lecture	TITLE & AUTHORS
1	<p>Dr Mahesh Kulaharia, Department of Computational Sciences, School of Basic and Applied Sciences Central University of Punjab, Bathinda 151 001 Title of lecture : Molecular Recognition: Recent Advances</p>
2	<p>Dr. A.K. Mishra Head & Coordinator (Bioinformatics) Agricultural Knowledge Management Unit ICAR -Indian Agricultural Research Institute, Pusa Campus, New Delhi Title of Lecture: Big Data and Cloud Computing in Bioinformatics</p>
Oral presentation	
1	<p>Mr. Anupam Kumar An evaluation of phytochemical constituents, antioxidant and antibacterial potential of extracts derived from seeds of <i>Nigella sativa</i> and it's silver nanoparticles</p>
2	<p>Dr. Bidhan Ch. Bera Codon usage preference and evolution of haemagglutinin genes of equine influenza (<i>h3n8</i>) virus</p>
3	<p>Dr. Punita Sharma An Early Infection of <i>Plasmodium vivax</i> suppresses the mosquito gut microbiome in <i>Anopheles stephensi</i>: A Smart of <i>Plasmodium</i> survival and transmission</p>
4	<p>Dr. Samriti Efficacy of ready –mix formulation 505ec (chlorpyrifos 50% + cypermethrin 5%), cypermethrin and chlorpyrifos individually against spider mites, soil acarine fauna and honeybees on okra crop</p>
5	<p>Mr. Gurpreet Singh Organic amendments for the management of rice root-knot nematode, <i>Meloidogyne graminicola</i> under screen house conditions</p>
6	<p>Ms. Shilpa Sharma Effect of monoterpenes on the growth and physiological parameters of <i>Phalaris minor</i></p>
7	<p>Mr. Alok Tripathi Hypertension could be Managed by the Modulation of Gut Fermentation</p>