

**SCHOOL OF
AGRICULTURAL
SCIENCES**

Collaborators



**Call for Abstracts
and Registration**

*International
Virtual Conference on*

**ADVANCES IN
AGRICULTURAL &
FOOD SCIENCES TO
FACE THE CHALLENGES
TO ENVIRONMENT AND
BIOSECURITY**

16-20 January, 2021



Announcing...

We are pleased to announce that Sharda University, Greater Noida, Uttar Pradesh, India is organizing an International Virtual Conference **Advances in Agricultural and Food Sciences to Face the Challenges to Environment and Biosecurity** from 16 to 20 January 2021 to commemorate the establishment of a state-of-the-art School of Agricultural Sciences. The mission of the new school is to serve the needs of researchers, students, farmers, policy planners and industries in the field of agriculture and food sciences including food processing. National Institute of Disaster Management, Government of India & Harley Butler Institute, Murdoch University, Western Australia are co-organizers of this conference.

Humans have come a long way since the advent of agriculture and made unbelievable progress. This remarkable progress is unfortunately accompanied by widespread and ongoing destruction through over-exploitation of natural resources and pollution of all kinds that are impacting on the climate of this planet and accentuating natural as well as anthropogenic disasters. Consequently, land and water resources needed to produce more food are overstretched. Freshwater and marine food-stocks are as challenged as land-based food production systems. Hunger epidemic is still widespread with about two billion food insecure people starving and suffering from malnutrition. In about 80 years there will be five billion additional mouths to feed. Making plans and arrangements to provide safe and nutritious food to all should be the number one and most important global priority of the century. It will not be just a simple matter of opening more land, growing more crops and breeding more livestock. Deserts are extending and new pests are emerging and spreading uncontrollably thereby putting more pressure on food production systems.

The recent locust swarms, rust diseases, various viruses affecting crops, livestock and humans, and even the current COVID-19 pandemic are serious biosecurity risks. These are relevant to all nations of the world, more so to the underdeveloped and developing countries who are economically and technologically weaker to manage such risks. Agriculture and food value chain are most important to not only feed people but also of key significance to the management of biosecurity risks. Agriculture not only provides food, clothes, wood and raw materials to industry, but also provides various medicines to improve health or save life. Every country must be capable of sustaining its economy and safeguarding its human, livestock and plant resources from biosecurity risks of varied kinds. There is urgent need to optimise the efficiency of global food system. Food is lost all along the value chain from farm to fork. About 33% of the current global investment into food production is wasted, while at the same time billions of people suffer from hunger and malnutrition. Development of food loss minimisation and effective food waste utilisation plans are needed for all countries including cultural shift towards prevention of food waste at consumer level. It is necessary to review at this stage how well prepared agricultural and food science & technology are in facing the challenges of hunger, malnutrition and the recurrent serious challenges to biosecurity.

The theme of this International Conference is **Advances in Agricultural and Food Sciences to Face the Emerging Global Food Security and Biosecurity Challenges**. This also includes environmental hazards, climate change and related impacts on pests and diseases of crops, livestock and humans.

We want to take this opportunity to look forward with strength and optimism to view how will globalisation, information technology, new theoretical approaches, biotechnology, pharmacy, biosecurity and interdisciplinary interactions shape agricultural and food science technologies in future. It is expected that researchers will provide suggestions to policymakers about handling the post-COVID-19 challenges through efficient and sustainable solutions. This conference will explore the availability of relatively new scientific developments across all disciplines that could accelerate progress toward these goals.

This International Conference will be held in virtual mode to enable large number of participants to attend without the bother to travel long distances and huge expenses of a normal conference. The conference will feature regular sessions, listed below. Each invited/selected key-note and presentations of selected papers in the respective fields, will papers for presentation in the who will also be in charge of publication in the proceedings, and **Scopus** indexed reputed scientific



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TENTATIVE SCHEME: JANUARY 16-20, 2021

There will be daily about 5 hours in plenary and concurrent sessions.

SYMPOSIUM THEME 1: Advances in Agricultural Production Systems

- Protected cultivation and precision farming
- Increasing nutrient use efficiency in crop production systems
- Reducing soil loss and degradation
- Optimizing water use in agriculture
- Mobilizing genetic diversity for crop improvement
- Mechanization in agriculture
- Medicinal, aromatic and under-utilized crops production
- Organic farming-Scope and Challenges
- Use of Artificial intelligence in modern agriculture

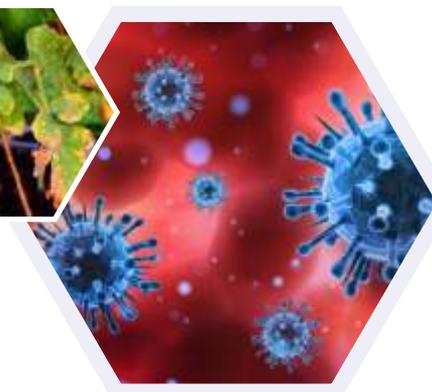


SYMPOSIUM THEME 2: Advances in Pests and Disease Forecasting and Management Systems

- Climate change impacts on pests and disease intensity and spread
- Zoonotic diseases, threats and its management in agricultural system
- Soil-borne pests and pathogens, diagnosis and management
- Virus diseases of plants, humans and livestock: Diagnosis and management
- Production, formulations and application of bio-pesticides in modern agriculture
- Human and plant pathogens: Role of scientists, society and Governments

SYMPOSIUM THEME 3: Managing Disasters and Global Biosecurity Risks

- Artificial intelligence and other techniques for early and rapid detection and prevention of plant diseases
- Adaptations to climate change and disasters in agriculture and health sciences
- Early and rapid detection of foodborne pathogens
- Reducing food loss and waste throughout the supply chain
- Transgenic crops
- Transboundary pests and disease movement
- Prevention and management of epidemics and pandemics
- Integrated risk, resilience and sustainable development in agriculture
- Disaster management and risk reduction in agriculture



SYMPOSIUM THEME 4: Advances in Functional Food and Phytopharmaceuticals

- Identification, production and use of Medicinal and aromatic plants
- Functional evaluation system of food and bioactive compounds
- The role and function mechanism of functional food and bioactive compounds in health promotion and chronic diseases prevention
- Analysis and detection methods and separation and purification technologies of bioactive compounds
- Practical application of nutrigenomics, proteomics and metabolomics in functional food
- Research and development of functional food and dietary supplements
- Safety and risk assessment of functional food and bioactive compounds
- Industrial supervision, labeling and marking, laws, regulations and standards of functional food industry
- Food for health and immunity to pathogens
- Futuristic foods

SYMPOSIUM THEME 5: Advances in Food Quality and Safety Control Technology

- Safety and sanitation of raw food material and processed food
- Quality and safety control of food additives
- Detection technologies of food quality and safety
- Regulatory hurdle and product development
- Food safety risk assessment and risk communication
- Early-warning system of food quality and safety and its management mechanism
- Food safety tracking and management systems



CALL FOR PAPERS, POSTERS AND SPECIAL PANELS...

Sharda University invites individual papers to be presented in one of the above regular sections. We are also calling for proposals for special talks. Interested scholars are welcome to submit an abstract for an individual paper to a regular section. The deadline for individual paper abstracts is 20th December 2020. Subsequent information will be announced in the Second Circular.

Keynote addresses will be normally of 30 minutes and Lead-papers will be 20 minutes.

Except for Key Note and Lead papers, each speakers for oral presentation will be allotted a time of 10 minutes, with an additional 5 minutes for discussion. Poster presenters will be given about 5 minute each. (Some changes in duration may be made in view of the number of presentations).

GUIDELINES FOR THE ABSTRACT STRUCTURE

The acceptable word range for the abstract is 175 – 275 words. Please follow the format carefully and send the abstract at email id: AAFS.IC2021@gmail.com. If the abstract template is not followed as it is, you may be asked for revisions. Your submission should be in English. We request you to send informative abstract (complete abstract) which is a summary of a paper's substance, purpose, methodology, results, and conclusion.

Please send a brief biography along with coloured photograph of the presenting author (in JPEG format with ~ size 3.0x3.5 cm) together with the Abstract.

ABSTRACT TEMPLATE

Title of Paper

Presenting Author's Name (Surname with Initials)

Co-Author's Name/s (Surname with Initials)

University / Institute, Country

E Mail / Mobile #

Category – (Student / Delegate)

Abstract

The abstract should be in a single paragraph, without indentation, compendious summary of a paper's substance including research question, purpose, methodology, results, and conclusion in 175 to 275 words.

Keywords: Single, maximum 6 words

Themes: (Related Theme)

Fonts: Times New Roman; Font size 12 for text but for title 14. Paper size A4 with 2.5 cm margins on each side

LAYOUT OF THE POSTER

The Poster should be in Landscape Format measuring 1.05 m (3.5 ft) x 0.9 m (3 ft).

KEY DATES AND DEADLINES...

Individual speakers and titles of papers accepted for presentation will be announced through the conference website by 20th December, 2020.

First circular and call for papers	10th November, 2020
Registration deadline (Early Bird)	10th December 2020
Individual paper abstract deadline	20th December 2020
Second circular and acceptance of papers for oral/ poster presentation	27th December, 2020
Final Circular and Technical Programme	2nd January, 2021
Conference opens	16th January 2021
Conference ends	20th January 2021

REGISTRATION

Registration link:

<https://forms.gle/ZCguEWvAftX3GKvz5>

A nominal registration fee, as follows, will be charged to be able to fund awards to outstanding presenters among scientists and students and technical costs.

The invited key-note and Lead speakers will be exempted from payment of registration fee.

Registration Fees (Early Bird) up to 10th December, 2020: Indian: Scientists: Rs.1000/-, Students: Rs.500/-
International: Scientists: USD 100/-, Students: USD 50/-, or equivalent other currency

Registration Fees after 15th December 2020: Indian: Scientists: Rs.1200/-, Students: Rs.600/-
International: Scientists: USD 120/-, Students: USD 60/-, or equivalent other currency

FRESHIPS: A limited number of free registrations may be considered for deserving delegates unable to pay registration fee. An application explaining circumstances may be sent along with abstract to the Organizing Secretary.

Patrons: Platinum: Rs. 100,000/-, Gold: 50,000/- Silver: Rs. 25,000/- (Logos and Information about patrons will be displayed in the Conference) and Souvenir.

In the spirit of the conference theme and spurred by our shared desire to encourage and support emerging scholars in whose hands the future lies, PRIZES WILL BE AWARDED FOR THE MOST OUTSTANDING ORAL AND POSTER PRESENTATIONS by young scientists and currently enrolled Masters or Ph.D. students, selected by high level selection Committees for each theme.

MODE OF PAYMENT OF REGISTRATION FEE AND SPONSORSHIPS

It can be deposited in the bank account directly through core/online banking with the details as given below:

A/C NAME: **Sharda University-Seminar**

ICICI bank A/c: **025405005815**

KRISHNA APRA ROYAL PLAZA, D-2, E(ACB), ALPHA-1, GREATER NOIDA, GAUTAM BUDH NAGAR, UP- 201306

IFSC Code: **ICIC0000254**

SWIFT Code: **ICICINBBCTS**

The payment for the Conference can also be made using Paytm using the following QR code



However, a scanned PDF copy of Demand Draft or Deposit/Transfer slip must be sent through e-mail to the Organizing Secretary.

Awards: Oral presentations: 15 (three in each Symposium);
Poster Sessions: 15 (Three per session)

Student Prizes: Oral presentations: 5

(The amount of cash prizes/medals etc. will be decided by the Organizing Committee after assessing the collection from registrations and patrons etc.)

PATRONS



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Sharda University



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Sharda University



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Executive Director,
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Dr. Sujata Pandit, Food Science and Technology | **Dr. Suman**, Environment, Climate and Disaster Management

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For information the conference please visit the website

<https://www.sharda.ac.in/happenings/international-virtual-conference-on-advances-in-agricultural-and-food-sciences-from-16th-20th-january-2021>

