



# 9th

## RAJASTHAN SCIENCE CONGRESS September 13-15, 2022



### HARNESSING FRONTIER SCIENCES AND TECHNOLOGIES FOR FOOD, NUTRITION, HEALTH AND ENVIRONMENTAL SECURITY

Venue: Sri Karan Narendra Agriculture University  
Jobner- Jaipur-303329 (Rajasthan), India

<http://www.sknau.ac.in>

	<ul style="list-style-type: none"><li>• Agriculture and Allied Sciences</li><li>• Environmental Sciences and Ecosystem</li><li>• Engineering, Mathematical and Data Sciences</li><li>• Medical, Ayurveda, Yoga and Meditation</li><li>• Internet and Data Sciences</li><li>• Biotechnology and Nanotechnology</li><li>• Green and renewal energy</li><li>• Science Communication</li></ul>

### Preamble

Indian agriculture is undergoing for a new revolution supported by agriculturists, technologists, industrialists and policy-makers. Still, it is facing huge challenges in balancing and optimizing productivity and profitability against climate change and shrinking natural resources. The congress will give a broad overview of transient sciences and technologies can be harness to longer benefits of society to ensure food, nutrition, health and environmental security. Agricultural research has helped to understand the plant mechanisms through various approaches to enhance crop yield and quality. Biotechnology and bioinformatics have allowed us the gene editing and its uses for specific characters in plants. The nanotechnology has proved its importance in agriculture, energy, ICT, bio-engineering etc. in medical sector, the nanoparticles are emerging as a powerful mode of delivery for drugs, vaccines and even gene therapy, enabling the delivery of a wide variety of therapeutic agents from small molecules. The modern technologies such as Artificial Intelligence, robotics, and the Internet of Things, are expected to play important role in achieving enhanced productivity and greater eco-efficient crop production in future. Renewable energy technologies allow the provision of electricity in remote and isolated rural areas inaccessible to centralized grid system while

drones could revolutionize the delivery of supplies, enable precision agriculture and disease management. Small scale customized satellite will soon be affordable for more developing countries, business and universities, allowing monitoring of crops and environmental damage.

This congress will provide a platform to bring together the prominent researchers, scholars, technocrats, policy makers of frontier etc. sciences to share their experience and research findings on the issues and challenges pertaining to food, nutrition, health and environmental security. The programme will comprise the plenary sessions, invited lectures, oral presentations, poster presentations, networking session and one to one discussion sessions.

## **ABOUT S.K.N. AGRICULTURE UNIVERSITY, JOBNER**

Sri Karan Narendra Agriculture University, Jobner was established in September 2013 by Govt of Rajasthan under Agriculture University, Jobner Act, 20 of 2013 to impart teaching, conduct research and extension education programmes in the field of agriculture and allied sectors. The territorial jurisdiction the University extends to three agro-climatic zones, thus covering eight district of Rajasthan i.e. Sikar (Zone II A), Jaipur, Ajmer, Dausa, Tonk (Zone III A), Alwar, Bharatpur and Dholpur (Zone III B). The University imparts quality education for the development of well-trained and specialized human resource in agriculture & allied sectors through its 21 constituent and 11 affiliated colleges situated in these eight districts. The University promotes the agricultural development through transfer of agro-techniques by imparting training, advisory and farm information to extension personnel, line departments, farmers and other stake holders through its eight KVKs located under its jurisdiction. The vision of the University is integrated sustainable agriculture and rural development for livelihood enhancement, economic growth and opportunities of secondary agriculture in the state of Rajasthan.

## **About Rajasthan Science Congress**

Rajasthan Science Congress Association (RSCA) was formed in the year 2013 to mark the centenary year of Indian Science Congress Association (ISCA). RSCA was formed as voluntary/non-government organization of scientists, educators and teachers (all categories) for promotion of research and development in all forms of science, technology and innovation in the state of Rajasthan to meet the regional aspiration and academic expectations under the auspices of Vaigyanik Drishtikon Society. The congress aims to provide a common platform to the scientific community, participating from diverse fields to interact with researchers from their varied disciplines to strengthen their participatory network nationally and internationally. This will be an opportunity for all to share and exchange progress and information in diverse fields of research. This will help to generate a conscious thought process among the scientific community towards making collective efforts to find out scientific and technological solution to existing challenges as well as to make the daily life of the common citizen more comfortable. The budding academicians and researchers will become acquainted with the current issues of the land, the efforts being made by scientists to solve them and the new discoveries in the field of science and technology through various seminars which will be presented during the science congress.

## **Themes and Sub-themes**

### **Theme 1. Agriculture and Allied sciences**

- a. Crop improvement, Biotechnology and Genetic Engineering
- b. Crop Production, Cropping System, Feed & Fodder Management
- c. Horticulture, Food Processing, Value Addition and Post Harvest Technology
- d. Agroforestry, Livelihood and Soil Management
- e. Crop Protection, Frontiers in Disease and Pest Management
- f. Animal husbandry, Dairy, Veterinary and Agriculture Engineering
- g. Fisheries and Aquatic Sciences, Aquaculture and Aqua Management
- h. Agricultural Economics, Statistics and Agricultural policies.

## **Theme 2. Environmental Sciences and Ecosystem**

- a. Remote Sensing and GIS
- b. Environment and Ecosystem
- c. Sustainable Water and Energy Solutions
- d. Climate Change and Environmental Dynamics
- e. Biodiversity Conservation,
- f. Bioremediation, Biofuel and Bioenergy

## **Theme 3. Engineering, Mathematical and Material Sciences**

- a. Carbon nano structure and Devices
- b. Semi-conductor Devices
- c. Biomechanical Engineering
- d. Soft Computing Techniques for Medical Assistance
- c. Information Sciences
- d. Internet of Things

## **Theme 4. Medical, Ayurveda, Yoga and Meditation**

- a. Food and Health Promotion
- b. Healthcare Services
- c. Integrative medicine and health
- d. Network Pharmacology
- e. Pandemic and endemic diseases
- f. Biomedical services

## **Theme 5. Internet and Data Sciences**

- a. ICT
- b. Artificial Intelligence
- c. Machine learning
- d. Robotics and drone
- e. Satellite data

## **Theme 6. Biotechnology and Nanotechnology**

- a. Plant diversity
- b. Genomics and Proteomics
- c. Biopolymers
- d. Nano-medicines
- e. Waste management
- f. Bioinformatics
- g. Nano-materials

## **Theme 7. Green and renewal energy**

- a. Energy conservation and storage
- b. Green energy
- b. Solar energy
- c. Use of plastic in agriculture

## **Theme 8. Science communication**

- a. Project writing
- b. Report writing
- c. Science reporters
- d. Documentation

## Call for Extended Summary

The participants need to submit extended summary to the Organizing Secretary through e mail only. The summary should be typed in English using MS word (1.5 space, Font- Times New Roman, Font size 11 and should not exceed one page including references.

## Presentation guidelines

**Invited lectures:** The invited lectures on emerging topics in different areas will be delivered by different renowned scientists. The deliberations shall be available on hybrid mode.

**Oral presentations:** The oral presentation of contributory papers will be made session wise and shall be restricted to 10 min duration in MS Power point. Online presentation will also be arranged.

**Poster presentations:** There will be structured and organized poster session for different themes. The best poster in each session will be considered for the award.

## Important dates to remember

Paper Submission (open) : 15.06.2022  
Paper Submission (close) : 15.07.2022  
Acceptance for presentation : 31.07.2022  
Date of initiation of Registration : 15.08.2022

## How to reach SKNAU, Jobner, Rajasthan

Jobner is located at 45 Km from Jaipur. It can be reached directly from Jaipur via Jhotwara-Kalwar- Jobner road. Alternately it can be reached by taking diversion at Mahla (22 Km) on the Jaipur- Ajmer highway (NH-8). The nearest railway station is Asalpur- Jobner (10 Km) on the Jaipur- Ajmer section. The nearest airport is Jaipur airport. Rajasthan Roadways ply regular buses from Sindhi camp bus stand, Jaipur.

## Weather

Weather at Jobner during the conference period will be pleasant and enjoyable. The average day and night temperatures ranges from 28-32 °C and 15-20 °C, respectively.

## Registration Fee

Category	Before due date	After due date
Students/Research Fellows	2000.00	3000.00
Faculties/Scientists/Scientist Associate	4000.00	5000.00
Private Organizations/Industries /etc.	10,000.00	10,000.00