

17-21 October 2022

FAO SCIENCE AND INNOVATION FORUM

Side Event

Nuclear Science and Innovation for Agrifood Systems Transformation Success Stories from the lab to the field and kitchen

12 October 2022, 12:30-14:00

REGISTER 

Agenda

Moderator: Dongxin Feng, Programme Coordinator, Joint FAO/IAEA Centre

Opening remarks (5 min): Najat Mokhtar, Deputy Director-General, IAEA

Setting the Scene (5 min): Qu Liang, Director, Joint FAO/IAEA Centre

Presentations:

- **Harnessing nuclear science and technology for food and agriculture (10 min)**
Shoba Sivasankar, Section Head, Joint FAO/IAEA Centre
- **Animal production and health practices to enhance food security (10 min)**
Amadou Traore, Institut de l'environnement et de recherches agricoles (INERA), Burkina Faso
- **Climate-smart agricultural practices for sustaining agricultural production (10 min)**
Moncef Benmansour, Centre national de l'énergie, des sciences et des techniques nucléaires (CNESTEN), Morocco
- **Integrated pest management in agriculture and human health (10 min)**
Pablo Liedo Fernandez, Departamento de Entomología, El Colegio de la Frontera Sur (ECOSUR), Mexico
- **Food safety and quality for consumer protection, trade and food security and nutrition (10 min)**
Biyagamage Ruchika Fernando, University of Peradeniya, Sri Lanka
- **Crop improvement in support of food and nutrition security and biodiversity (10 min)**
Lydia Ndinela Horn, Multidisciplinary Research Centre, University of Namibia, Namibia
- **Questions and answers (15 min)**
All participants
- **Closing Remarks (5 min)**
Ismahane Elouafi, Chief Scientist, FAO

Objectives and Expected Outputs

Nuclear science, technology and innovation provide competitive and often unique solutions to help fight hunger, reduce malnutrition, improve environmental sustainability and ensure food safety and authenticity.

As a unique joint unit of UN Agencies - the Food and Agriculture Organization (FAO) of the United Nations and the International Atomic Energy Agency (IAEA), the Joint FAO/IAEA Centre of Nuclear Techniques in Food and Agriculture has been providing feasible and viable innovative technologies to the member countries, taking the comparative and competitive advantages of nuclear and nuclear-derived techniques to tackle key challenges facing agrifood systems.

The event aims to provide illustrative and convincing examples and experiences from countries in Asia, Africa and Latin America to demonstrate the role of partnerships between the Joint Centre and its counterparts in harnessing nuclear science and technology from the lab to the field to contribute to fostering agrifood systems transformation.

The expected output of the event is to showcase, from the perspective of member countries, how nuclear and nuclear-derived technologies, as one component of the agrifood systems innovation and transformation, to address food insecurity and malnutrition, through close cooperation with the Joint FAO/IAEA Centre.

Moreover, the facilitated discussion with participants will provide a platform for the FAO and the IAEA and other stakeholders for exploring opportunities for an enhanced partnership to strengthen cooperation to promote the role of nuclear science and technology in agrifood systems transformation.

The event's conclusions are expected to inform and feed into the more general deliberations at the FAO Science and Innovation Forum on 17-21 October 2022.

This side event is organized by:

