

Session 2.2 Overview of Nuclear Applications in Food and Agriculture

Qu Liang

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Nuclear Techniques in Food and Agriculture



International Conference on the IAEA Technical Cooperation Programme Sixty years and beyond Contributing to development

30 May–1 June 2017 Vienna, Austria #Atoms4Dev2017

Our Mandate

Food Security



Poverty Alleviation

Sustainable Agriculture

through application of nuclear techniques in food and agriculture



Joint FAO/IAEA Programme Nuclear Techniques in Food and Agriculture

Competitive Advantages of Nuclear Techniques

- Traceability Isotopic tracers as marker
- Radioactivity Induced genetic variation, sterility, sterilization
- *Measurability Radio and stable isotope measurable*
- Accuracy
- More accurate than conventional analytical methods
- Specificity
- Unique sensitivity and specificity



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Programme Delivery



Nuclear Applications in Food and Agriculture



✓ Radio-analytical techniques

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Nuclear applications in food and agriculture contributing to SDGs



From ending poverty and hunger to responding to climate change and sustaining our natural resources, food and agriculture lies at the heart of the 2030 Agenda

- Demand-driven applied research and development
- Enhancing global and regional networking
- Technical backstopping and technology transfer
- Training and capacity building
- Provision of services



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