International Symposium on Food Safety and Control

'Safe Food for a Better Life'

27-31 May 2024

PROGRAMME

Organized by the Food and Agricultural Organization of the United Nations (FAO) and the International Atomic Energy Agency (IAEA)

Through the Joint FAO/IAEA Centre of Nuclear Techniques in Food and Agriculture

IAEA Headquarters Vienna, Austria

Programme Committee:

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- A. Mihailova, Joint FAO/IAEA Centre
- J. Sasanya, Joint FAO/IAEA Centre
- C. Vlachou, Joint FAO/IAEA Centre

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Symposium Chairperson:	J. Sasanya, Joint FAO/IAEA Centre
Scientific Secretaries:	C. Blackburn, Joint FAO/IAEA Centre
	C. Vlachou, Joint FAO/IAEA Centre
Event Organizer:	J. Zellinger, MTCD
Administrative Support:	H. Kenny, Joint FAO/IAEA Centre
	E. Makeche, Joint FAO/IAEA Centre
	M. Rydeng, Joint FAO/IAEA Centre

Location of the Event:

	International Atomic Energy Agency Vienna International Centre (VIC) Building M, BRB/M1
	Wagramer Strasse 5 A-1400 Vienna, Austria Tel.: (+43 1) 2600 21330
Working Language:	English
Resolutions:	No resolutions may be submitted for consideration on any subject; no votes will be taken.

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TIMETABLE

MONDAY, 27 MAY 2024

Time	Session No.	Session Title / Break	Venue
08:00–16:00		Collection of Entry Badge	VIC Gate 1
09:30-11:20		Opening Session	
09:30–09:35		Welcome Remarks	
		Opening Remarks by IAEA and FAO Directors General	
09:35–10:15		Scene Setting Keynote Speech	
10:15–10:45		High Level Panel Discussion: "Joining Hands for Safer Food, a Healthier and Prosperous People"	M–Plenary
10:45–11:15		Group photo (High level panel)/ Coffee/Tea Break	
11:20–12:00	Session 1	Opening Technical Session	
12:00–13:00		Group photo (all participants) and Lunch Break	
13:00–14:15	Session 2	Chemical Residues & Contaminants in Food & Feed	
14:15–14:55		Poster Session 1A (Chemical Residues & Contaminants in Food & Feed)	
14:55–17:05	Session 2	Chemical Residues & Contaminants in Food & Feed (cont'd)	
17:05–17:45		Poster Session 1A (Chemical Residues & Contaminants in Food & Feed) (cont'd)	
18:00–20:00		Welcome Reception	M-Building – Ground Floor

TUESDAY, 28 MAY 2024

Session No.	Session Title / Break	Venue
Session 3	Public-Private Partnerships; Funding Agencies; the Food Industry; Policy Making	M–Plenary
	Safe Food in Africa (SAFA) – A new FAO-IAEA-UNIDO Tripartite Food Safety Programme	
Session 4	Preparing for and Responding to Emergencies and Incidents Affecting the Food Supply; Measurement of Radionuclides	
	Coffee/Tea Break Poster Session 1B (Chemical Residues & Contaminants in Food & Feed) and Poster Session 2 (Preparing for and Responding to Emergencies and Incidents Affecting the Food Supply; Measurement of Radionuclides)	
Session 4	Preparing for and Responding to Emergencies and Incidents Affecting the Food Supply; Measurement of Radionuclides (cont'd)	
	Lunch Break	
Session 4	Preparing for and Responding to Emergencies and Incidents Affecting the Food Supply; Measurement of Radionuclides (cont'd)	
Side Event	Women in Nuclear, IAEA	
Side Event	Exhibitor Presentations	
	Session 3 Session 4 Session 4 Session 4 Side Event	Session 3 Public-Private Partnerships; Funding Agencies; the Food Industry; Policy Making Safe Food in Africa (SAFA) – A new FAO-IAEA-UNIDO Tripartite Food Safety Programme Session 4 Preparing for and Responding to Emergencies and Incidents Affecting the Food Supply; Measurement of Radionuclides Coffee/Tea Break Poster Session 1B (Chemical Residues & Contaminants in Food & Feed) and Poster Session 2 (Preparing for and Responding to Emergencies and Incidents Affecting the Food Supply; Measurement of Radionuclides) Session 4 Preparing for and Responding to Emergencies and Incidents Affecting the Food Supply; Measurement of Radionuclides Session 4 Preparing for and Responding to Emergencies and Incidents Affecting the Food Supply; Measurement of Radionuclides (cont'd) Lunch Break Preparing for and Responding to Emergencies and Incidents Affecting the Food Supply; Measurement of Radionuclides (cont'd) Session 4 Preparing for and Responding to Emergencies and Incidents Affecting the Food Supply; Measurement of Radionuclides (cont'd) Side Event Women in Nuclear, IAEA

WEDNESDAY, 29 MAY 2024

Time	Session No.	Session Title / Break	Venue
09:00–10:15	Session 5	Food and Phytosanitary Irradiation	M–Plenary
10:15–10:55 Coffee/Tea Break			
		Poster Session 3 (Food and Phytosanitary Irradiation)	

Time	Session No.	Session Title / Break	Venue
10:55–12:15	Session 5	Food and Phytosanitary Irradiation (cont'd)	
12:15–13:15		Lunch Break	M–Plenary
	Side Event	Vienna Centre for Disarmament Non-Proliferation (VCDNP)	
13:15–15:00	Session 6	Food Authenticity and Fighting Food Fraud	
15:00–15:40		Poster Session 3 (Food and Phytosanitary Irradiation) (cont'd)	
15:40–17:35	Session 6	Food Authenticity and Fighting Food Fraud (cont'd)	

THURSDAY, 30 MAY 2024

Time	Session No.	Session Title / Break	Venue
09:00–10:15	Session 7	Standard Setting, Regulations, Metrology, Risk Assessment	M–Plenary
10:15–10:55		Coffee/Tea Break Session 4 (Food Authenticity and Fighting Food Fraud)	
10:55–12:25	Session 7	Standard Setting, Regulations, Metrology, Risk Assessment (cont'd)	
12:25–13:25		Lunch Break	
13:25–14:20	Session 7	Standard Setting, Regulations, Metrology, Risk Assessment (cont'd)	
14:20–15:05	Session 8	Detection and Characterization of Pathogens in Food, AMR	
15:05–15:45		Poster Session 4 (Food Authenticity and Fighting Food Fraud) (cont'd)	
15:45–17:45	Session 8	Detection and Characterization of Pathogens in Food, AMR (cont'd)	

FRIDAY, 31 MAY 2024

Time	Session No.	Session Title / Break	Venue
09:00–10:15	Session 9	One Health	M–Plenary
10:15–10:55		Coffee/Tea Break	
		Poster Session 5 (Standard Setting, Regulations, Metrology, Risk Assessment)	
		Poster Session 6 (Detection and Characterization of Pathogens in Food, AMR)	
		Poster Session 7 (One Health)	
10:55–12:25	Session 9	One Health (cont'd)	
12:25–13:25		Lunch Break	
13:25–13:50	Session 9	One Health (cont'd)	
13:50–14:00		Award of Poster Presentations	
14:00–14:10		Conclusion and Recommendations	
14:10–14:50		Closing Session	

ORAL PRESENTATIONS/ LECTURES

MONDAY, 27 MAY 2024

09:30–11:20		OPENING SESSION		
Moderator:		N. Mokhtar, DDG-NA		
Time	Name	Designation	Title	
09:30–09:35 N. Mokh	N. Mokhtar	Deputy Director General and Head of the Department of	Film	
		Nuclear Sciences and Applications, IAEA	Introductions	
09:35-09:55	R.M. Grossi	IAEA Director General	IAEA Director General	
09.35-09.55	QU Dongyu	FAO Director General	FAO Director General	
09:55–10:15	K.E Baipoledi	Permanent Secretary, Ministry of Lands and Water Affairs, Republic of Botswana	Global Food Safety Situation in Relation to Climate Change, Trade and One Health Approach	

HIGH LEVEL PANEL DISCUSSION:

"JOINING HANDS FOR SAFER FOOD, A HEALTHIER AND PROSPEROUS PEOPLE"

Time	Name	Designating Member State/Organization		
10:15–10:45	R.M. Grossi	Director General, IAEA		
	A. Alkhalifa	President, OPEC Fund for International Development		
	K.E. Baipoledi	Permanent Secretary, Ministry of Lands and Water Affairs, Repu of Botswana		
	D. Aguemon	Director, Cabinet of the Minister of Agriculture, Livestock and Fisheries, Republic of Benin		
	G. Beger	Managing Director, United Nation Industrial Development Organization		
	J. Pleiner-Duxneuner	Managing Director, Austrian	Agency for Health, and Food Safety	
10:45–11:15	Group Photo (high level panel) & Coffee/Tea Break			
11:15–11:20	C. Vlachou & C. Blackburn	Joint FAO/IAEA Centre	Secretaries Administrative Remarks	

11:20–12:00	SESSIO OPENIN	N 1: G TECHNICAL SESSION		M–Plenary
Chairperson:	A. Stras	ser, France		
Time	Paper No.	Name	Designating Member State/Organization	Title of Paper/Presentation
11:20–11:35		S. Pillai	USA	Irradiation, Microbiology, Public Health, and Trade - the Interconnectedness
11:35–11:50		M. Lipp	FAO	Diet Vs Food - Safeguarding Consumer Health
11:50–12:00		Discussion		
12:00–13:00		Group photo (all) & Lunch Break		

13:00-17:45

SESSION 2:

CHEMICAL RESIDUES & CONTAMINANTS IN FOOD & FEED

M-Plenary

Chairperson: Co-Chairperson:

C. Vlachou, Joint FAO/IAEA Centre

M. V. Cesio, Uruguay

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper/Presentation
13:00–13:15		V. Bartkevics (Keynote)	Latvia	Advances in Testing and Monitoring Residues and Contaminants in Food
13:15–13:30	70	T. Chigiya	Zimbabwe	An Assessment of Veterinary Drug Residues in Beef and Chicken from Zimbabwe: National Monitoring Program
13:30–13:45	160	G. Liftinger	Austria	Heavy Metals and Arsenic in Residue Contro of Animals in Austria - an Overview and Interesting Results
13:45–14:00	154	B.S.N. Al Salhi K. Alfarsi B. Alrawahi	Oman	Determination of Heavy Metals in Selected Fruits and Vegetables Collected from Local Market in Muscat, Sultanate of Oman
14:00–14:15	150	U. Maqbool J. Sasanya S. Shah I. Chughtai M. Mumtaz M. Yasin G. Hussain	Pakistan	Nuclear Techniques to Enhance Mixed Contaminants Analysis in Food and Feed
14:15–14:55		Poster Session 1A (Chemical I	Residues & Contaminants in F	ood & Feed)
14:55–15:10	206	B. R. Fernando K.G.A.D. Abesooriya B.C.J. Fernando A.R.C. Gunasena P.W. Jayasooriya R.M.S.K. Karunarathne M.M.A.W.P. Mudannayake	Sri Lanka	Safety Concerns of Animal Originated Food in Sri Lanka due to Antimicrobial Residues and Aflatoxins
15:10–15:25	303	S. Panigrahi C. V. Srinivas S. N. Bramha M. Margret L. Srivani S. Chandrasekaran B. Venkatraman	India	Food and Radiological Safety Assessment Based on the Activity Concentration of Radionuclides in Seafood from Klapkkam, India
15:25–15:40	282	S. Herrera A. Montenegro R. Cabanzo E. R. Sánchez Y.R. Giraldo C. A.Vargas García	Colombia	Quantification of Cadmium in Cocoa Beans by Laser Ablation coupled with Inductively Coupled Plasma Mass Spectrometry (LA- ICP-MS) via Pressed Pellets
15:40–15:55	151	Md. H. Islam D. Chakma M. J. Islam Md. Nazrul Islam P.M. Billah A.S.M. Saifullah K. S. Chironjit	Bangladesh	Screening Antimicrobial Residues in Chicken Muscle in Bangladesh Using Charm II Radio- Receptor Assay Technique
15:55–16:10	177	K. Nasr Ep Kachroudi M. Samaali C. Tissaoui Z. A.Berriche L. Chouba F. Boujelbane	Tunisia	Evaluation of Polonium-210 and Dose Assessment in the Bivalve Venerupis Decussate from Tunisian Coastline
16:10–16:25	29	B. Katati	Zambia	Prospecting the BioControl of Fusarium's Fumonisin from Maize Phyllosphere
16:25–16:40	33	G. García C. M. A. Hernández L.C. Longoria	Mexico	Microplastics Extraction and Identification from Commercial Samples of Edible Mussels (Mytilus Galloprovincialis)

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper/Presentation
16:40– 16:55	42	S. Y. Fazaeli Hosseininezhad G. Shahhosseini A. Neisi J. J. Sasanya P. Ashtari S. F. Zenjanab	Iran	Depletion Imaging using Radionuclides; a Novel Method for Evaluation of Depletion of Veterinary Pharmaceuticals using Radioisotopes
16:55–17:05		Discussion		
17:05–17:45		Poster session 1A (Chemical Re	sidues & Contaminants in F	ood & Feed) (cont'd)
18:00–20:00		Welcome Reception		M-Building – Ground Floor

TUESDAY, 28 MAY 2024

08:30–09:30	Pl	ESSION 3: JBLIC-PRIVATE PARTNERS DOD INDUSTRY; POLICY MA	HIPS; FUNDING AGENCIES; THE	M-Plenary
Chairperson:	G	Molnar, UNIDO		
Co-Chairperson:	E.	Dupouy, FAO		
Time	Paper No.	Name	Designating Member State/Organization	Title of Paper/Presentation
08:30–08:45		D. Ihedioha (Keynote)	African Development Bank (AfDB)	The African Development Bank and Food Safety in Africa
08:45–09:00		G. Molnar (Keynote)	United Nations Industrial Development Organization (UNIDO)	Modernizing Food Control Systems through Innovative Public-Private Partnerships

PANEL DISCUSSION, Q& A

Time	Name	Designation	
09:00–09:30	D. Ihedioha	AfDB	
	G. Molnar	UNIDO	
	K. Onul	The International Finance Corporation (IFC)	
	Y. Siddiqi	Asian Development Bank (ADB)	
	N. El-Haj	IAEA- Nuclear Sciences and Applications	
09:30–10:10	E. Dupouy	FAO	Safe Food in Africa (SAFA) -
	J. Sasanya	Joint FAO/IAEA Centre	A new FAO-IAEA-UNIDO
	G. Molnar	UNIDO	Tripartite Food Safety
	Partners	Stakeholders	Programme Proposal
			Presentation and discussion

10:15–14:30		SESSION 4: PREPARING FOR AND AND INCIDENTS AFFE MEASUREMENT OF R	M–Plenary	
Chairperson:		R. Newkirk, WHO		
Co-Chairperson:		D. Ihedioha, AfDB		
Time	Paper	Name	Designating Member State/Organization	Title of Paper/Presentation

	INO.		State/Organization	•
10:15–10:30		E. Dupouy (Keynote)	FAO	Comprehensive Food Safety Emergency Preparedness for Rapid Response and Effective Management
10:30–10:45	240	M. Sanad	Bahrain	Investigation on Food Poisoning Outbreak Caused by Staphylococcus aureus Enterotoxin A and Incidence of Staphylococcal Food Poisoning in the Kingdom of Bahrain

10:45–11:00	242	S.S. Hosseini A. Attarilar	Iran	Determination of Po-210 in Iranian foodstuff
		F. Keshavarz E. Mirrezaei M. Nazmabadi M. Salehi		
11:00–11:20		n 1 B (Chemical Residues & Col n 2 (Preparing for and Respondi		s Affecting the Food Supply; Measurement of
11:20–11:35	219	E. Makufa	Zimbabwe	Preparing for Emergencies and Incidents Affecting the Food Supply-Coal Mining Towns in Zimbabwe
11:35–11:50	2	S. Alnaaimi A. Aishah A. Omar	Kuwait	Estimation of Committed Effective Dose of Radioactivity in Plant-Based Milk Available in Kuwait Markets Using Gamma and Alpha Spectrometry System
11:50–12:05	78	J. Lubbe M. Van Rooy	South Africa	NMISA Supports Food Safety through Radioactivity Testing of Food, Feed & Water
12:05–12:20	97	P. Pavlenko V. Kashparov	Ukraine	Testing Various Countermeasures to Reduce Radioactive Contamination of Freshwater Fish
12:20–12:35	171	M. Samaali K. N. Ep Kachroudi W. Leghribi Z.A. Berriche F. Boujelbane	Tunisia	Uranium Natural Levels in Bottled Mineral Water Produced in Tunisia
12:35–12:50	67	J. A. Guerrero Dallos	Colombia	Pesticide Residue Analysis Laboratory an Example of Collaboration between Member States and IAEA
12:50–13:05	128	V.K. Gouws M. Madhuk M. Mathuthu R. D. Mavunda	South Africa	Assessment of Norm in Fruits and Vegetables from Hartbeespoort, Mafikeng and Pretoria Markets
13:05–14:05		Lunch break		
14:05- 14:20		O. Guzman Lopez Ocon	IAEA	Management of Exposures Due to Radionuclides in Food other than during a Nuclear or Radiological Emergency: New IAEA-FAO-WHO Guidance
14:20–14:30		Discussion		
14:40–18:10		SIDE EVENTS		
Time Moderator:	R Attia la	int FAO/IAEA Centre		
14:40–15:40	n. Auia, Jo		Women in Nuclear, IAEA	
Moderators:		ni, Joint FAO/IAEA Centre a, Joint FAO/IAEA Centre		
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09:00–12:15		SESSION 5: FOOD AND PHYTOSANITA	RY IRRADIATION	M–Plenary
Chairperson:		A. Strasser, France		
Co-Chairperso	on:	C. Blackburn, Joint FAO/IA	EA Centre	
Time	Paper No.	Name	Designating Member State/Organization	Title of Paper/Presentation
09:00–09:15	05	M. Lacroix (Keynote)	Canada	Cross-Linked Gelatin–Riboflavin-Based Film Incorporated with Essential Oils and Silver Nanoparticle by Gamma-irradiation: A novel Approach for Extending Shelf-Life of Meat
09:15–09:30	302	A.M. Benita H. Widyastuti	Indonesia	Effect of Gamma Irradiation and Vacuum- Packaging on Shelf-Life Extension of Ethnic Food "Gudeg
09:30–09:45	143	I. Hewajulige M. Jayasinghe R. Pitipanaarachchi N. Gunesekara M. Samarananayake G. Madurakanthi H. Mahanama	Sri Lanka	Development of Granola Bars using Locally Available Raw Material as an Emergency Food and Evaluating the Effect of Gamma Irradiation (Co 60) on Nutrition and Sensory Attributes
09:45–10:00	21	F. Ocloo J. Agyei-Amponsah S. Fiadey U. Gryczka	Ghana	Comparative Effects of High Energy Electron Beam and Gamma Irradiation on Microbial Quality African Nutmeg (Monodora Myristica) Powder
10:00–10:15	161	F. Kuntz A. Strasser F. Van der Stappen A. V. Rivadeneira	France	Low, Medium and High Energy X-rays or Electron Beam, which is the Optimal Irradiation Technology for Phytosanitary Application? A Dosimetry and Monte Carlo Simulation Approach
10:15–10:55		e/Tea Break Session 3 (Food and Phytosani	tary Irradiation)	
10:55–11:05	212	S. Stutchbury P. Dethier	Canada	Industrial E-beam and X-ray Systems for Food Irradiation – Mevex Latest Developments
11:05–11:20	273	O. Acuna J. Elster S. Pillai	USA	Ensuring Food Security and Food Safety by Examining the Feasibility of Implementing E- Beam/X-ray Technologies
11:20–11:35	318	V. Simoes Dias C. Caceres G. Hallman M.J. B. Vreysen S. Myers I.V. Gomes	FAO/IAEA	Harmonization of Phytosanitary Irradiation Treatments
11:35–11:50	192	G. Diano G. Abrera C. Deocaris D. R. Montefalcon E. Sabado K. M. Tardecilla	Philippines	Exploring the Gut Microbiome of Mass-Reared Super Worm (Zoophobas Morio) in the Philippines: Insights into Bioactivity and Radiosensitivity
11:50–12:05	153	S. Cabo Verde B. Pinheiro J. Madureira U. Gryczka	Portugal	Extraction of Bioactive Compounds from Food using Low Energy E-Beam
12:05–12:15		Discussion		
12:05–12:15 12:15–13:15	<u>-</u>	Lunch Break		

12:15–13:15	SIDE EVENT	
Paper No.	Organization	Title
	Vienna Centre for Disarmament Non-Proliferation (VCDNP)	The Future of Food: Globalizing Access to Technologies

13:15 –17:35 SESSION 6: FOOD AUTHENTICITY AND FIGHTING FOOD FRAUD

Chairperson: C. Elliott, United Kingdom

Co-Chairperson: M. Lees, France

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper/Presentation
13:15–13:30		G. Marechal (Keynote)	Belgium	EU Activities in the Fight Against Agri-Food Fraud
13:30–13:45	213	C. Terro N. E. Amenzou L. Bontempo M. Eddabdouby M. J. Hudobivnik B. K.Seljak D. Mazej R. Modic B. Moncef M. Ogrinc N. Ogrinc D. Potočnik A. Simčič	Slovenia	IsoFoodTrack– Stable Isotope and Multi-Elemental Tool for Determination of Saffron Traceability as Selected Commodity
13:45–14:00	104	J. Geist A. Gadelmeier	Germany	Development of a Database with Stable Isotope Data sets for Egg Authenticity at the National Reference Centre for Authentic Food (NRZ-Authent)
14:00–14:15	144	A. Li A. Abrahim X. Yang S. Kelly	China	Potential of Non-exchangeable Hydrogen Stable Isotopic Fingerprint for Honey Authenticity
14:15–14:30	252	M. O. Varrà L. Husáková P. lacumin J. Patočka M. Rossi A. lanieri E. Zanardi	Italy	Detecting Fraud in Cephalopods using Decision Rules based on Carbon and Nitrogen Isotope Ratios and Rare Earth Elements
14:30–14:45	193	S. Pianezze N. Barilaro L. Bontempo S. Carpino V. D. Martino D. Masuero M. Perini	Italy	Stable isotope Ratio Analysis to detect synthetic citric acid addition to Italian tomato sauce
14:45–15:00	311	A. Kambikkanath B. Bharath N. Karunakara	India	Quantification of Natural and Synthetic Constituents in Edible and Essential Oils through Determination of 14C Specific Activity by Liquid Scintillation Counting
15:00–15:40	Poster Sessic (Food and Phy	n 3 tosanitary Irradiation) (cont'd)		
15:40–15:55	274	D.A. Werner	France	Exploring the equivalence of high and low Field NMR Instruments to Assess Pepper Authenticity
15:55–16:10	328	G. P. Sabin P. G. Celso D.L. Dantas de Freitas L. Ferreira de Aguiar H. Vitória de Oliveira Silva	Brazil	Enhancing Coffee Sector Integrity through Multispectral Microscopy

M–Plenary

16:10–16:25	237	T. A. Bagawath Arachchige	Sri Lanka	Differentiation of Tea based on Country of origin Using the FT-IR Pattern Recognition Method
		K. Binduhewa		
		S. M. N. K Thilakarathne		
		C. K. Dissanayake		
		A. M. R. W. S. D. Rathnayaka		
16:25–16:40	203	R. Duft J. Griffin	United Kingdom	Development of LC-MS/MS Proteomics and Lipidomics Methods to Differentiate Meat Species for Food Authenticity
16:40–16:55	87	D. Pavlidis S. Balafas	Greece	Volatilomics for Authenticity Assessment of Raw Red Meats
		A. Mallouchos		
		G.J. Nychas		
16:55–17:10	105	R. M. H. Raja Nhari	Malaysia	Detection of Pork Adulteration Using Lateral Flow
		N. F. K. Mokhtar		Immunoassay Targeting Porcine-Specific IgG
		A. M. Hashim		
		J. H. Soh		
17:10-17:25		P. Xiao	China	China's Food Fraud Regulation in the Digital Age: A Close Look at a Landmark Case During the Pandemic
17:25–17:35		Discussion		

THURSDAY, 30 MAY 2024

09:00–14:20 SESSION 7: STANDARD SETTING, REGULATIONS, METROLOGY, RISK ASSESSMENT		IS, METROLOGY,	M–Plenary	
Chairperson:	S. Ca	ahill, CAC		
Co-Chairperson:	H. He	einzen Gonzalez, Joint FAO/IAE	A Centre	
Time	Paper No.	Name	Designating Member State/Organi zation	Title of Paper/Presentation
09:00–09:15		S. Wearne (Keynote)	Codex Alimentarius Commission	You have a Stake in Setting and Implementing International Food Safety Standards and Guidelines.
09:15–09:30	155	M. Hachinohe K. Kubo M. Ogihara M. Yoshiyama T. Hirayama H. Matsuoka T. Sato Y. Urashima	Japan	Research on Honey Production to Reduce the Risk of Radiocesium Contamination in Decontaminated Farmland in Fukushima
09:30–09:45	186	G. GAJSKI A. Domijan K. Hercog M. Štampar M. Gerić M. Sokolović B. Žegura	Croatia	Toxicity of Mycotoxins Deoxynivalenol and Zearalenone alone and in a Binary Mixture
09:45–10:00	121	M. L. Pareja C. Pérez S. Pereyra A. Pérez	Uruguay	Winter Cereals Production Status in the Northwestern Part of Uruguay regarding Food Safety
10:00–10:15	204	X. Xu L. Huang Y. Pan L. Wang L. Wen	China	Disposition of Tritium Labeled Diaveridine in Pigs, Broilers and Rats
10:15–10:55		Coffee/Tea Break		

		Poster Session 4 (Food Authe	enticity and Fighting Foo	od Fraud)
10:55–11:10	130	J. Cornejo E. Pokrant P. Cortés B. Pinto F. Suazo M. Maturana A. Flores C. Vergara A. Maddaleno	Chile	Amoxicillin Evaluation in Broiler Chickens: Public- Academic Collaboration in the Framework of an International Project to Provide Data for the MRLs Establishment
11:10–11:25	141	A.S.M. Saifullah Md. J. Islam C. K. Shaha Md. H. Islam Md. N. Islam D. Chakma Md. M. B. Prince	Bangladesh	Residue Depletion Kinetics and Withdrawal Time Estimation of Doxycycline in Tissues of Sonali Chicken following Multiple Oral Administrations
11:25–11:40	22	R. Ismail	Egypt	The Importance of Black Seed Oil and the Challenges to the Establishment of International Standards
11:40–11:55	335	H. Heinzen Gonzalez N. Gérez M. V. Cesio Cesconi	Uruguay	Monitoring for Risk Assessment Studies of Cucurbitaceae Species Sold in the Uruguayan Market
11:55–12:10	57	S. Issaka A. Asamoah A. Gibrilla	Ghana	Risk Assessments of Polycyclic Aromatic Hydrocarbons (PAHs) in Repeated Use Vegetable Oils and Finger Foods in Ghana
12:10–12:25	194	T. G. Angeles B.J. Barba C.G. Causapin M. Cebujano P. Gonzales A. Mendoza A.Y. Salen	Philippines	Cyanotoxin Risk Assessment (CRA): Preliminary Study on Utilizing Isotopic Techniques for Food Safety and Water Quality Management of Freshwater Lake Systems in the Philippines
12:25–13:25		Lunch break		
13:40–13:55		D. Marko (Keynote)	Austria	Mycotoxins, Risk Assessment, Toxicology
13:55–14:10		J. LeJeune	FAO	Microbiological Risk Assessment and JEMRA
14:10- 14:20		Discussion		

14:20–17: 45	SESSION 8: DETECTION AND CHARACTERIZATION OF PATHOGENS IN FOOD, AND ANTIMICROBIAL RESISTANCE (AMR)	M–Plenary

Centre

Chairperson:	P. Ellitson, Namibia
Co-Chairperson:	J. Sasanya, Joint FAO/IAEA

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper/Presentation
14:20–14:35		J. Nakavuma (Keynote)	Uganda	The Beauty and Hustle of Pathogen Detection in the Face of Global or Hitherto Ignored Challenges
14:35–14:50	261	S. Pillai S. V. Patchametla S.K. Singamneni K. Narayanan	USA	Rapid Screening of Viral Food Pathogens using a Single Stage Pooling Method
14:50–15:05	66	B. M. Ondieki	Kenya	Detection And Characterization of Pathogens in Food
15:05–15:45		Coffee/Tea Break Poster Session 4 (Food Al	uthenticity and Fighting Fo	od Fraud) (cont'd)

15:45–16:00	228	E. Wagner	Austria	Did a Shortage of Knowledge on Cronobacter Sakazakii Lead to a Shortage of Infant Formula?
16:00–16:15	64	J. Klinsoda	Thailand	Application of 16S Ribosomal RNA Gene Sequencing Microbiome Innovation in Food Safety and Quality Assurance
16:15–16:30	36	P. Mafirakureva J. Mbanga B. Saidi	Zimbabwe	Antimicrobial Resistance of Escherichia Coli Isolated from Chickens with Colibacillosis in and around Harare, Zimbabwe
16:30–16:45	347	M. Mataragas	Greece	Comparative Genomic Analysis and Antimicrobial Resistance Profile of Enterococci Strains Isolated from Raw Sheep Milk
16:45–17:00	101	A. O. Obadina I. E. Martins	Nigeria	Global burden of Antimicrobial Resistance: Monitoring and Evaluation of Ready-to-Eat Vegetables
17:00–17:15	348	N. Andritsos	Greece	Characterization and Antimicrobial Resistance of Listeria Monocytogenes Isolated During Microbiological Testing of Various Foods
17:15–17:30	180	X. Mkhize	South Africa	Detecting Microbial Levels and Food Environment Management for Indigenous Crops sold by Informal Traders in the Central Market of Durban, South Africa
17:30–17:45	90	P. Katsande	Zimbabwe	An Investigative into Contamination Sources, Biofilm Formation Ability and Biocide Resistance of Listeria Monocytogenes Recovered from a Nile Crocodile (Crocodylus niloticus) Meat Processing Facility

FRIDAY, 31 MAY 2024

09:00–14:10	SESSION 9: ONE HEALTH	M–Plenary	
Chairpersons:	S. Darkaoui, Morocco		
Co-Chairperson:	J. LeJeune, FAO		
_	Designa	tina	

Time	Paper No.	Name	Designating Member State/Organization	Title of Paper/Presentation
09:00–09:15		W. Markotter (Keynote)	South Africa	What the Transdisciplinary Nature of One Health Means: Opportunities and Challenges
09:15–09:30	277	J. Kwon	Republic of Korea	Management of Antimicrobial Resistance for Food and Environmental Safety: Complementary Approach beyond Gaps between Research and Regulation
09:30–09:45	187	Y. Harntaweesup S. Mhudmah S. Wajasit	Thailand	Surveillance of Antimicrobial Residues in Aquatic Animals in Central River Basin in Thailand – a One Health Approach
09:45–10:00	190	V. Ntuli	South Africa	Quantitative Risk Assessment of Shigatoxin Producing Escherichia Coli Associated with Consumption of Contaminated Lettuce: A Case Study in South Africa
10:00–10:15	327	K. Morgan	USA	Risk-informed Approach to One Health Resilience
10:15–10:55		Coffee/Tea Break/ Poster Session5 (Standard Poster Session 6 (Detection Poster Session 7(One Healt	and Characterization o	
10:55–11:10		V. Owino	IAEA	Characterizing Exposure to Food-Borne Contaminants and Potential Link to Nutrition
11:10–11:25	264	B. Aslam	Pakistan	Tracing Antimicrobial Resistance in the Food Supply Chain: From Farm to Fork
11:25–11:40	227	K.E. N'Goran N.B. Aboly H.K.G. Sonan U. Bahi	Cote D'Ivoire	Chemotherapy and Contamination Risks in Livestock Production Systems in the West, North-West and North regions of Côte D'Ivoire: How the One-Health Approach can Contribute to Anticipating the Contamination Risks

11:40–11:55	173	W.Y.N. Syahfitri N. Adventini D. P. Dwi Atmodjo E. Damastuti S. Kurniawati I. Kusmartini D. D.Lestiani M. Santoso D.K. Sari P. Wardhani	Indonesia	Heavy Metal Content and Risk Assessment in Breast Milk and Complementary Food from Tangerang, Banten
11:55-12:10	132	W Rumbeiha M. Clapham F. Lima B. McNabb S. Radke D. Schrunk L. Tell K. Watson	USA	Tissue Bromide Residues in Cows and Calves Experimentally Exposed to Inorganic Bromide in Feed
12:10–12:25	233	W. Awad D. Ruhnau	Austria	Co-exposure to Deoxynivalenol (DON) and Campylobacter Jejuni Increases Intestinal Permeability and Bacterial Translocation in Broiler Chickens
12:25–13:25		Lunch		
13:25–13:40	257	W. Al-Baker N. A. Alabdulmalik	Qatar	The Impact of International Standards on Food Safety Emergencies - Qatar Experience for FIFA 2022
13:40–13:50		Discussion		
13:50–14:00		C. Vlachou C. Blackburn	Scientific Secretaries Joint FAO/IAEA Centre	Award of Poster Presenter winners
14:00–14:10		J. Sasanya	Symposium Chairperson, Joint FAO/IAEA Centre	Conclusion and Recommendations
14:10–14:50 Moderator:		LOSING SESSION). Feng, A/Director Joint FAO/IA	AEA Centre	
Time	Name	Designating Memb	per State/Organization	Title of Paper/Presentation
14:20–14:35	H. Liu	DDG and Head of Technical Coopera	the Department of ation, IAEA	Final remarks and official closure of the symposium

DDG and Head of the Department of Nuclear Sciences and Applications, IAEA

Final remarks and official closure of the symposium

14:35-14:50

N. Mohktar

POSTER SESSIONS

MONDAY, 27 MAY 2024

14:15–14:55 17:05–17:45

POSTER SESSION 1A: CHEMICAL RESIDUES & CONTAMINANTS IN FOOD & FEED

M Building M01

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper	
7	I. M. Fernández Gómez M. Valdes Ramos	Cuba	CONRADALIM: Cuban Database of Radioactive Contaminants in Food	
31	M. Oueslati F. Gharbi	Tunisia	Measurement of Radioactivity in Tunisian Drinking Waters	
32	A. S. Traore A. Traore	Mali	Assess the Contamination of Milk Imported into Mali by Radionuclides, Aflatoxin M1 and Melamine	
34	J. Kateregga P. Waiswa E. Wampande	Uganda	Abamectin and Dichlorvos Residues in Meat, Tissues and Milk of Cattle from Selected areas of Gomba District, Uganda	
40	P.A. Gatti O. Acosta F. Raco S. Rillo M. Simon	Argentina	Development of Certified Reference Materials (CRMs) in Food Matrices using Nuclear Techniques	
60	M. Zarkawi	Syria Arab Republic	Detection of Tetracycline, Chlortetracycline, Doxycycline and Oxytetracycline Veterinary Residue Levels in Syrian Chicken Meat, Skin and Liver Using HPLC	
72	F. Nikiema	Burkina Faso	Incidence of mycotoxins in maize sold in Ouagadougou.	
74	T. Randriamparany N. De Borgia Randriamora	Madagascar	Evaluation of Veterinary Drug Residues in Milk in Madagascar	
81	B.K. Kassaye	Ethiopia	Prevalence and Concentration Level of Aflatoxin B1 and Total Aflatoxin in Animal Feed in and around Shegar City, Oromia, Ethiopia.	
84	L. Miheso V. Gikera	Kenya	Detection Techniques for Microplastics and Nanoplastics in Food and Feed.	
94	M. Ahmadi M. Abdollahi M. Mahrougi A. Naserian	Iran	Reduction of Antibiotic Residue in Waste Milk by Cold Plasma Method.	
98	A. Husen	Ethiopia	Aflatoxin in Ethiopia and Current Global Trends of Combating Aflatoxin Contamination Level in Foods with the help of Gamma Irradiation and Other Physical Methods	
108	S. Thantar M. Naing	Myanmar	Determination of Elements in Milk and Dairy-Products by ICP-OES Method for Food Safety	
110	A. Hassan	Sudan	The Role of the IAEA in Establishing National Network for Food Safety; Lesson Learnt and Success Story	
111	J. V. F. Nsoga J. C.M. Koule M. Ndomou	Cameroon	Human Health Risk Assessment of Polycyclic Aromatic Hydrocarbons in Selected Fish Smoked Using Various Kilns in Douala, Cameroon	
113	N. Randriamora T. Randriamparany	Madagascar	Detection of Veterinary Drug Residues in Foods of Animal Origin and Animal Feed in Antananarivo, Madagascar	
115	D. Javangwe	Zimbabwe	Determination of Lead (Pb) Concentrations in Drinking Water at Child Day Care Centers in and Around Harare, Zimbabwe	
116	L. Mukani	Zimbabwe	Qualitative Analysis on Antimicrobials in Milk Collected from Harare	
125	E. Matema	Zimbabwe	Determination of Heavy Metals in Fish from Harare Peri-urban Dams using Atomic Absorption Spectrometry	
127	N.N. Andriamahenina N. N. F.Andrianirinamanantsoa M. Harinoely N. Rabesiranana L.V. Rakotozafy E.O. Rasoazanany H.N. Ravoson	Madagascar	Assessment of Heavy Metal Levels in Beef Meat from Antananarivo City Markets, Madagascar.	

		Durin ff		
Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper	
31	E. Salazar	Costa Rica	Development of a Novel Methodology for Detecting Dithiocarbamates in Vegetables Intended for National Consumption in Costa Rica utilizing GC/MS-MS	
34	A. Coulibaly A.A. Dicko O. Camara	Mali	Radioactivity Measurement in Various Types of Rice Cultivated in Three Localities in Mali	
36	W. Barrantes	Costa Rica	Six Years of Progress in Antimicrobial Residue Monitoring in Animal-Derived Foods in Costa Rica.	
39	Md. S. Rahman	Bangladesh	Characterization, Source Identification and Hazard Level Assessment of Ingested Microplastics in one of the Most Important Fish Species in South Asia: Oreochromis Niloticus	
49	F. Nurhaini D. D. Lestiani M. Santoso S. Kurniawati D. P. D. Atmodjo W. Y.N. Syahfitri E. Damastuti I. Kusmartini	Indonesia	Application of Nuclear Analytical Techniques for Nutrient and Heavy Metal Characterization in Local Food Commodities: A Strategy for Stunting Prevention	
83	Z. Azzouz Berriche K. N. Ep Kachroudi M. Samaali	Tunisia	Validation of Charm II test as Radioimmunoassay for Screening of Sulfonamide Residues in Meat	
05	X. Xu L. Huang M. Huo Y. Ou L. Sun	China	The Residue Elimination of Diclazuril in Eggs	
09	M. Mumtaz I. Chughtai U. Maqbool J. Sasanya M. Yasin	Pakistan	Prevalence of Chemical Contaminants in Feed and Food Samples, collected from Different Regions of Pakistan	
45	A. Kileo	United Republic of Tanzania	The Role of Digitalization in Regulatory Control of Radioactivity Level in Food Stuffs in United Republic of Tanzania.	
48	A. Babiker	Sudan	Screening of Oxytetracycline Residues in Animal Products Collected from Some States in the Sudan	
50	H. I. Osman	Sudan	Monitoring of Heavy metals Residues in Milk Khartoum State Sudan	
53	P. Nimbona	Burundi	State of Aflatoxin Contamination in Burundi	
54	W. Attyaallah Amna Babiker	Sudan	Animal Production Sector Practices in Sudan in Relation to Drug Usage: Overview	
55	G. Ramadan N. Al-Abdulmailik A. S. Mohammed	Qatar	Monitoring of Pesticide Residues in Common Cultivated Vegetables in State of Qatar and Assessment of their Associated Health risks	
63	C. Kusena	Zimbabwe	Qualitative Analysis of Antimicrobials in Bovine Products Collected from Masvingo and Manicaland, Zimbabwe	
66	A. Mohamed H. Abdulredha M. Alghawas E. Jassim A. M. M. Mohamed F. S. Hashem	Kingdom of Bahrain	Evaluation of Critical Pesticides Residues in Local and Imported Food Samples in Bahrain	
78	J. Naouli H. Ait Bouh A. Benkdad A. Laissaoui R. Saadi	Могоссо	Biomonitoring of Molluscs along the Northwest Moroccan Coast – Radiological Risk Assessment and Human Health Risk Analysis	
30	G. Medoua Nama G. Kansci F. D.Paul Tatfo Keutchatang	Cameroon	Occurrence of Mycotoxins in Chicken and Eggs in Some Urban Areas of Cameroon and Population Dietary Exposure	
85	M. L. Montiel Leguizam B. Michajluk L. B. Chaparro	on _{Paraguay}	Determination of Cesium-137 as a Radioactive Contaminant in Yerba Mate (Ilex paraguariensis), Cooked Mate and Coffee in Asunción-Paraguay	
92	W. Ali K. Omar S. Suleiman	United Republic of Tanzania	Safety Analysis of Animal Food Products in Zanzibar	
96	Y. Salazar Chacon	Costa Rica	Beginning of the Implementation of the Database of the Data Sharing Committee of the Latin American and Caribbean Analytical Network (RALACA)	

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
297	D. Kerekes Y. S. Chacón	Uruguay	The Future of Food Safety Data through Latin American and Caribbean Cooperation - Initiative to Establish a Regional Food Safety Data Exchange Network
304	A. Osman N. Ashkanani M. Hasan	Qatar	First Radionuclides Data and Associated Health Risks in Local Qatari Vegetables
313	M. Gonzalez Zeledón	Costa Rica	Multiclass and Multi-Matrix Method for the Analysis of Residues of Antibiotics in Foods of Animal Origin
314	J.C. España Amórtegui J. A. Guerrero	Colombia	Tiered Development of a PAH Analysis for Roasted Coffee: A Mini-Method Approach
317	D. Shao R. J. Mwamahonje W. D. Ruseruka P. W. Shirima	United Republic of Tanzania	Food Control Systems in the United Republic of Tanzania: The Regulatory Framework and the Role of the National Nuclear Regulator for the Detection and Control of Radionuclide Contaminants in the Food Chain During Importation and Exportation in the United Republic of Tanzania.
326	M. Moe Thein W. War Oo N. P. Thwin P. P. San	Myanmar	Screening of Selected Drug Residues and Mycotoxin in Milk and Feed in Myanmar
330	E. Vieira R. C. Batista Ferreira C. M. Barbosa	Brazil	Fipronil Risks to Bees

TUESDAY, 28 MAY 2024

11:00-11:20

POSTER SESSION 1B:

M01

CHEMICAL RESIDUES & CONTAMINANTS IN FOOD & FEED (CONTINUED)

Pape r No.	Author(s) [presenting author in bold]	Designating Member State/Organi zation	Title of Paper	
331	C. Abdelkader M. Moutaly A. Beyit	Mauritania	Study of the Prevalence of Antibiotic Residues in Red Meat Produced and Marketed in Mauritania	
334	A. Reyes Hernández B.C. Orrego H. F. Ávila Z. Ng Chinkee	Panama	QuEChERS Method Optimization for Mycotoxins extraction Aflatoxins and Ochratoxin A, in Green Coffee Beans	
337	F. Baroudi	Algeria	Determination of Lead and Cadmium in Food Supplements Commercialized in Algeria by Graphic Furnace Absorption Spectrometry	
339	M. Azouz	Algeria	Pesticide Residues Analysis in Fresh Fruit Case of Strawberry in the Central and Eastern Region of Algeria	
340	M. Mokhtari	Algeria	Pesticide Residues in Tomato and Pepper, and their Risk Assessment on Algerian Consumer	
343	H. Hussan	Sudan	Simultaneous Determination of Fluopyram, Tebuconazole, Trifloxystrobin and their Metabolite Residue in Cucumber (Cucumis sativus) and Soil by a Modified QuEChERS with LC-MS/MS	
349	O.A. Lucas Aguirre	Peru	Development, Validation and Application of Multiclass Isotope-Based Methods fo Simultaneous Analysis of Mycotoxins, Pesticide Residues and Related Contaminants in Quinoa, Grapes and Other Selected Matrices	
351	D. Mwalwayo S. Kuyeli	Malawi	Aflatoxin Contamination of Selected Mostly Consumed Commercial Products in Malawi	
354	R. El Moustaid Alaoui	Morocco	The ONSSA Laboratory Network: Unyielding Guardian of Food Safety in Morocco	

POSTER SESSION 2: PREPARING FOR AND RESPONDING TO EMERGENCIES AND INCIDENTS AFFECTING THE FOOD SUPPLY; MEASUREMENT OF RADIONUCLIDES

Screen No.	Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
	35	P. Mafirakureva J. Mbanga B. Saidi	Zimbabwe	Incidence and molecular characterization of lumpy skin disease virus in Zimbabwe using the P32 gene
	357	A. Petchkongkaew	Thailand	IJC-FOODSEC: The New International Joint Research Center on Food Security for ASEAN region

WEDNESDAY, 29 MAY 2024

M01

10:15–10:55 POSTER SESSION 3: FOOD AND PHYTOSANITARY IRRADIATION

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organiza tion	Title of Paper	
28	M.A. Etoom	Jordon	Food Irradiation in Jordan	
45	A. F. Abdull Razis	Malaysia	Gamma Irradiation Affects Tropomyosin Allergen, Nutritional Value, and Mineral Elements of Giant Tiger Prawn (Penaeus Monodon).	
46	S. P. Shirmardi S. Y. F.Hosseininezhad M. Yeganeh	Iran	Disinfestation of Beans and Cereals Utilizing Novel Gamma Irradiators in Iran	
53	V. Tenishev	Russia	High Quality Radiochromic Film Dosimeters Development	
56	E. Güllüoğlu	Türkiye	Food Irradiation Technology and Application in Türkiye	
61	Md. M. Hasan Md. A. Hossain	Bangladesh	Comet assay: A Novel Technique for Determining the Radiation Induced DNA Damage in Insect Pests Infesting Food Grains	
75	M. Al- Bachir	Syria Arab Republic	Microbiological Safety of Irradiated Food in Syria	
76	O. Turan	Türkiye	Conceptual Evaluations for Low-Energy Electron Beam (LEEB) and Comparison with Gamma Irradiation of Citrus Fruits	
83	F. Hmaied W. Zernadji S. Jebri F. Rahmani I. Amri D. Aissaoui M. H. Trabelsi M. Yahya I. Amri	Tunisia	Effect of Gamma Irradiation and Bio preservation to Minimize Pathogens in Packaged Ready-to-Eat Salads	
85	L. Villanueva Jiménez	Peru	Banana Improvement by Mutations	
91	M. Y. Mansour	Syria Arab Republic	Low Energy X-Rays as a Possible Alternative to Gamma Radiation in Phytosanitary Treatments of Agricultural Products	
114	U. Gryczka A. Nasreddine F. Kuntz S. Bułka	Poland	Development of Control Requirements for the Process of Low Energy Electron Beam Food Irradiation	
122	A. Raad M.Constanza Cova	Argentina	Gamma Radiation Effects on the Physicochemical Characteristics of Fine cut Salamín (Argentinian Dry Fermented Sausage)	

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organiza tion	Title of Paper
	M. S. Guerrero Martínez S. R. Vaudagna M. V.Vogt		
124	I. W. Setya Andani A.R. Kumaraningrum I. D. Junianto	Indonesia	The Development of Irradiated Food in Indonesia: Opportunities for Using Irradiated Traditional Ready-to-Eat Food as Emergency Food and Food for the Hajj
137	E. Mejías T. Garrido C. Gomez	Chile	Effect on the Antioxidant Properties of Native Chilean Endemic Honeys Treated with Ionizing Radiation to Remove American Foulbrood Spores
152	R. J. Mwamahonje R. Suleiman	United Republic of Tanzania	Physico-Chemical Properties of Fresh Irradiated Tomatoes During Storage
164	Z. Khalilov E. Muradov	Azerbaijan	Enhancing Pet Food Safety and Shelf Life
165	D. Ariyanti E. Fakhrurozi A. I. Christian	Indonesia	Characterization of Activated Chitosan Edible Coating Film Using Cobalt Gamma Irradiation Exposure and Its Effect on Pempek (Traditional Sumatran Food) Preservation
169	A. I. Christian D. Ariyanti A. I. Christian E. Fakhrurozi	Indonesia	Effect of Cobalt Gamma Irradiation on Shelf-Life Extension of Pempek Preservation (Qualitative Physical Appearance, Refer to Time needed of Expedition Intercity and/or Interisland) in Indonesia
170	R. Vazirov S. Sokovnin A. Krivonogova	Russia	Surface Irradiation of Food and Agricultural Products by Low-Energy Electron Beam at the Urt-1 and Urt-0.5 Accelerators
178	D. T. Vu	Viet Nam	Advancing Food Safety and Control: The Landscape of Food Irradiation in Viet Nam
182	Y. Dalto C. Barrenechea V. Vogt	Argentina	Analysis of Radiotolerance in the Developmental Stage of Diatraea Saccharalis
184	M. Byambajav M. Gunaajav C. Radnaabazar N. Enkhgerel T. Amgalan J. Tserendorj L. Baasansuren	Mongolia	Shelf-life Extension of Potatoes by Low Energy X-rays
195	U.O. Madu O. Chukwu C. A. Okolo	Nigeria	Functional Properties and Proximate Composition of Vegetable Cowpea (Vignasesquipedalis) Seeds after Irradiation
198	U. O. Madu O. Chukwu P. A. Idah K. U. Isah G. N. Nwachukwu	Nigeria	Predicting the Effect of Radiation Dose on Nutritional Composition of Nigeria Colocasia esculenta Using Response Surface Methodology
202	F. Boujelbane Ep Atta M. Samaali K.N Ep Kachroudi	Tunisia	Radioactivity Determination and Transfer Factor from Soil to Opuntia Ficus Indica in Selected Areas in Tunisia
211	Md. F. Mortuza Md. A. Hoque Md. K. Hossain Md. H. Kabir M. Khan A. Nahar Md. T. I. Samsad Md. T. I. Tanim	Bangladesh	Calibration of Radiation Dosimetry System and Optimization of Dose Delivery Process for Phytosanitary Irradiation and Food Preservation in Bangladesh
218	G. Guzik	Poland	European Intercomparison Studies as a Tool for Perfecting of Irradiated Food, White and Cane Sugar Detection Methods
225	J. Ellis O. Acuna J. Elster S. Pillai	USA	Sustaining Alternative Source Radiation Technology for Food Irradiation Services in Grid Challenged Environments

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organiza tion	Title of Paper	
229	M. Sinche-Serra V. Ciobota L. Ramos-Guerrero E. Vera-Calle	Ecuador	Water-Soluble Keratin Hydrolysates Obtained from Chicken and Turkey Feathers Treated with Ionizing Radiations	
238	A. W. Betga K. Cieśla G. Wfojciech	Poland	Biodegradable Packaging Materials with Antioxidant Activity Based on Polysaccharides –PVA System and Obtained with the Use of Radiation Methods	
262	T. S. Lara-Ramos D. Mulyana S. Pillai	USA	An Attenuation Study for Optimizing Low Dose Delivery using 10-MeV Electron Beam for Food Processing Applications	
268	K. Howie W. Yang R. Nayga	USA	Study Investigating the Dynamics of Consumer Response to Food Labeli	
269	D. Mulyana S. Chirayath Aaron Tarone J. Welch P. Phillips J. Elster S. Pillai	USA	Engineering Pre-design Study of Low Energy Electron Beam Irradiation System for Sterile Insect Technology	
270	A. Tomac M. P. Cenci M. C. Cova A. B. Garcia Loredo	Argentina	Valorization of Argentine Fish Resources Through Ionizing Radiation	
271	A. Zaouak C. Belgacem S. Jebali	Tunisia	Assessing the Impact of E-Beam Irradiation on Diclofop Methyl Herbicide Residue in Wheat Samples and Aqueous Solutions	
276	Y. Mabrouk I. Amri K. Khemissi H. Kouki	Tunisia	Combination of Gamma Radiation and Essential Oils from Two Eucalyptu Species in Managing Fungal Contamination of Stored Wheat Seeds	
279	V. Ipatova U. Bliznyuk P. Borshchegovskaya T. Bolotnik A. Chernyaev E. Kozlova A. Oprunenko I. Rodin	Russia	Volatile Organic Compounds as Indicators of Oxidative and Microbial- Enzymatic Processes in Irradiated Meat and Fish	
283	A. Shik M. Beklemishev U. Bliznyuk I. Doroshenko T. Podrugina Y. Zubritskaya	Russia	Kinetic-Based Method for the Estimation of Irradiation Doses Absorbed by Raw Chicken	
294	A. L. Casañas Haasis Villavicencio L. Ronda-Flores B. Guimaraes-Negrao	Brazil	Application of Radiation Processing in Food for Food Safety Purposes: Maintaining Food Quality and Prolonging the Shelf Life of Products	
300	R. B. Saragih	Indonesia	Food Irradiation in Indonesia: Integrated Approach to Ensure Security for Future Prospects in the Amid of Climate Change	
305	E. Kozlova U. Bliznyuk A. Braun P. Borshchegovskaya A. Chernyaev V. Ipatova I. Mezhetova P. Ukhina I. Rodin	Russia	Quantitative Assessment of Structural and Functional Changes of Proteins in Irradiated Biological Objects	

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organiza tion	Title of Paper
306	I. Zubritckaia U. Bliznyuk P. Borschegovskaya A. Chernyaev N. Chulikova V. Ipatova A. Malyuga A. Nikitchenko I. Rodin D. Yurov S. Zolotov	Russia	Inhibition of Phytopathogens and Crop Growth Stimulation Using Low Energy E-Beam and X-Ray Irradiation
307	S. Zolotov U. Bliznyuk P. Borschegovskaya A. Chernyaev V. Ipatova V. Khankin A. Nikitchenko I. Rodin F. Studenikin	Russia	Reconstruction of Electron Beam Energy Spectrum to Increase the Precision of Irradiation Dose Uniformity Estimate
308	I. Viana Gomes Lima J. Andrade C. Caceres V. S. Dias S. W. Myers J. Sanchez A. Sobreira M. J. B. Vreysen	IAEA	Evaluation of Drosophila Suzukii Female Fertility After Phytosanitary Irradiation Treatment Application
309	U. Bliznyuk F. Studenikin A. Chernyaev V. Ipatova A. Nikitchenko S. Zolotov	Russia	E-beam Spectrum Modification Method for Improving Dose Uniformity in Irradiated Objects
319	H. Widyastuti S. A. Safitri R. Fitriana N. Lailyshofa M. A. E. Putri A. H. Saputro	Indonesia	Is Gamma Irradiation an Effective Method to Apply to Rice Grains? Study of Amylose and Anthocyanin Contents in Native Indonesian Rice
323	A. Nikalayenka E. Fedorenko L. Rozdyalouskaya	Belarus	Belorussian Experience in Food Irradiation
332	A. Raad M. Constanza Cova M. Cingolani M. Ciávaro M. Díaz J. I. Garrido M. G. Martínez C. Lires	Argentina	Coriander and Black Pepper Decontamination by Ionizing Radiation and its Impact on their Antioxidant Capacity and Aroma
350	S. Ayari	Tunisia	Evaluation of Electron Beam Treatments on Microbial and Chemical Properties of Sesame Seeds

10:15-10:55

15:05-15:45

POSTER SESSION 4: FOOD AUNTHENTICITY AND FIGHTING FOOD FRAUD

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
11	L. Owaoade I. Sambo	Nigeria	Assessments of Some Common Food Products in Nigeria to Determine their Authenticity and Mitigate Food Fraud: A Basic Component of Food Control
68	R. Huque R. Frew K. McComb Y. Suzuki Mst. A. khatun	Bangladesh	Food Authentication of Milk and Rice using Isotopic and Elemental Composition
80	B. Deya	Kenya	Advancing Food Safety through Isotopic Analysis for Verification of Production and Geographical Origin
82	N. Haider	Syria Arab Republic	Qualitative Detection of Adulteration of Some Plant-Based Spices with Materials of Plant Origin Based on DNA Barcoding
88	I. Migues Á. Otero G. Moyna F. Rivas H. Heinzen	Uruguay	Evolution of the Metabolomic Profile (1H NMR) of the Mandarin Ovary under Different Pollination Conditions
89	S. Thantar M. M. Aye N.Z. T. Naung	Myanmar	Determination of Authenticity and Safety for SHWEBO PAWSAN RICE by ICP-OES Method and CAFÉ Software
92	R. Kocia M. Miłkowska G. Liśkiewicz	Poland	Detection of Irradiation in Dietary Supplements in the form of Effervescent Tablets using the TL Thermoluminescence Method
118	I.D. Junianto I.W. S. Andani D. Intaningrum M. A. Rahmadani Y. M. Sari	Indonesia	Enhancing Food Authenticity and Combatting Food Fraud through Nuclear Knowledge Management
123	Y. Tanjaoui S. Dahani H. Karib R. Khatouf	Могоссо	Comparison between Milk Analyzer and Conventional Tests to Detect Some Milk Frauds
145	S. Kongsri C. Kukusamude R. Picha	Thailand	Identification of Geographical Origins in Thai Local Rice Base on Stable C, N, O Isotopes and Multi-Elements with Chemometrics
146	C. Kukusamude S. Kongsri	Thailand	Nuclear Analytical Techniques for Verifying the Geographical Origin of Thai GI rice
168	L. Bontempo M. Paolini L. Cucinotta A. Roncone D. Sciarrone F. Camin S. Mose R. Larcher	Italy	Moscato Giallo: First Exploratory Aromatic Characterization of by GC-MS/MS and Stable Isotopic Ratio Analysis of the Major Volatile Compounds
175	L. Bontempo	Italy	Promedlife: Novel Food Products for the Promotion of Mediterranean Lifestyle and Healthy Diet."
172	M. Perini S. Pianezze	Italy	Influence of the Equilibration Time and the Bath Temperature on the Oxygen Isotopic Values of Different Matrices analyzed through Continuous-Flow Isotope Ratio-Mass Spectrometry

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
188	K.M. Binduhewa C. K. Dissanayake B. A. T. Amalka S. M. N. K. Thilakarathne K. G. Nelum P. Piyasena M. A. B. Ranatunga E. N. U. Edirisinghe C. J. Ratiyala R. Chandrajith L. S. K. Hettiarachchi L. Suriyagoda	Sri Lanka	Stable Isotope and Multi-Element Profiling for Discriminating the Regional Tea in Sri Lanka
200	Z. Giannioti	Italy	Geographic Authentication of Rice Originating from Four Different Countries in Asia by Isotope Ratio Mass Spectrometry (C, N, S, O, H) and ICP-MS Multi-Element Analysis
221	G.P. Sabin P.G. Celso F.LF. Soares M.A.T Volochen L.F. Aguiar	Brazil	Adulterated Coffee Visualization with Hyperspectral Image in UV- Visible Region
224	G.P. Sabin P.G. Celso F.L.F Soares L.F. Aguiar M.A.T Volochen	Brazil	Ground Roasted Coffee: A Study of its Specie and Possible Adulterants with NIR
231	E. Soares Lins R. B. Nazareno D. N. Sifuentes	Brazil	Challenges on Accommodating the Monitoring Testing Routine with Urgent, Unplanned Investigation Testing in an Official Laboratory
241	E. Mejías A. Abrahim A. Li S. Kelly	Chile	Tools for Determination of Authenticity in Chilean honey: Stable Isotopic Techniques and its Relationship with Botanical Origin and Bioactive Compounds
256	N. A. Abdulmalik G. R. Gouda A. A. Yossouff	Qatar	Modern Analytical Methods for the Detection of Food Fraud and Adulteration using Statistical Methods Over Isotope Ratios in Honey and Olive Oil Using IRMS Technique
298	L. Hoo Fung J. Antoine	Jamaica	Evaluation of Trace Elements in Turmeric and Turmeric Products on the Jamaican Market
299	A. Rivera Mondragón Y. Christopher A. De Lora H. H. F. Marín S. Hernández G. Navas	Panama	Detecting Adulteration of Commercial Honey Samples from Panama by using two HPLC methods
301	H. Widyastuti A. M. Benita D. Lasmawati T. R. Mulyaningsih I. M. Pratama B. Pratikno A. Sumartono R. P.Tanhindarto	Indonesia	Geographical Identification of Rice Cultivars in Different Regions in West Java using Stable Isotopes and Elements Analysis with Unsupervised Learning
338	F. Baroudi	Algeria	Detection of Prohibited Substances Fraudulently Used in Several Food in Algeria
353	V. Puravankara	India	A Wettability contrast SERS Droplet Assay for Multiplexed Detection of Food Adulterants
355	A. Alnuaimi	UAE	Efforts of Sharjah City Municipality in Unveiling Fraud in Protein Content of Milk Powder Products
356	R. Hochegger	Austria	Metabarcoding for the Simultaneous Detection of Species in Foods

FRIDAY, 31 MAY 2024

10:15-10:55

POSTER SESSION 5: STANDARD SETTING, REGULATIONS, METROLOGY, RISK ASSESSMENT

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
55	B. Sharma Khanal	Nepal	Regulatory System on Food Safety and Quality Control in Nepal
181	M.O. Varrà	Italy	Risk Characterization of Toxic Elements Through the Consumption
	G.T. Lanza		of Botanical Preparations Across the European Population
	L. Husáková		
	J. Patočka		
	M. Piroutková		
	S. Ghidini		
	E. Zanardi		
167	J. Lubbe	South Africa	The Importance of Proficiency Testing in Food Safety: An African perspective
	D. Prevoo-Franzsen		
	L. Quinn		
	M. Linsky		
	M. Fernandes-Whaley		
215	J. Tinarwo	Zimbabwe	Food Safety in Zimbabwe - An Overview
	B. Jackson		
	S. Chimuti		
352	B. I. Checa Orrego	Panama	Establishment of Risk- Based Surveillance Program of Pesticide
	L. Aparicio		Residue for Crop Production in Panama
	D. Gordón		
	G. Hernández		

10:15–10:55 POSTER SESSION 6:

M01

DETECTION AND CHARACTERIZATION OF PATHOGENS IN FOOD (AMR)

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
48	A. Hammad A. Eid W. F. Khalil S. A. El-Nour	Egypt	Prevalence of Sulfonamides, β-lactam, Salmonella, Staphylococcus Aureus in Raw Milk: Irradiation Effect on Antibiotic-Resistant bacteria and degradation of antibiotic residues
51	A.F.D.S. Sumbana	Mozambique	The risk of introduction E. coli in Mozambique through the importation of meat sausages from South Africa
73	S. Chimuti, D. T. Mugadza P. Kamau, V. Ntuli	Zimbabwe	Contribution of Farm Level Hygiene Practices to Microbial Safety Profiles in the Informal Dairy Sector in Zimbabwe
65	B. Jackson R. S. Masunga	Zimbabwe	Determination of Pesticide Residues in Honey from Small Scale Producers in Harare Zimbabwe
93	H. Suseno	Indonesia	Analysis of Saxitoxin Content in Various Freshwater Biota Originating from JATILUHUR using 3H-RBA Methods
96	M. Muslim	Indonesia	Determination of Saxitoxin Concentrations in Various Biota on Tegal Beach, Indonesia using Nuclear Applications Techniques (3H-RAB)
106	N. Ziyate Z. Soubai S. Darkaou I. Iharch D. Abislim N. Aujjar	Morocco	Antimicrobial Susceptibility of Salmonella spp Isolated from Poultry Samples in Morocco
112	J. V. F. Nsoga J. C.Manz koule M. Ndomou	Cameroon	Isolation and Identification of Fungal Strains during Storage of Fish Smoked by Various Kilns in the City of Douala, Cameroon
159	G. Nijimbere	Burundi	Street Food Sales and Food Safety in the Cities of Burundi

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
	F. Nitereka		
	C. Uwizeyimana		
163	A. Mahin	Bangladesh	Simultaneous Detection of Salmonella spp., Escherichia Coli, and Listeria Monocytogenes by Multiplex PCR
	Md. K.Pramanik		Listena monocytogenes by multiplex PCR
	Md. A. K.Sarker		
	Md. S. Hossain		
	N. Nahar		
166	S. Wongsrichai	Thailand	Antimicrobial Resistance Surveillance in Livestock Sector, Thailand
208	I. S. Beia	Romania	Enhancing Food Safety and Quality of Consumer Protection in Romania
234	W Awad D. Ruhnau	Austria	Contrary Effect of Deoxynivalenol (DON) and Deepoxy- Deoxynivalenol (DOM-1) on Campylobacter Jejuni Resolved in Vitro
249	L. Alteio	Austria	FoodSafeR: Disentangling Factors Supporting Persistence of
	F. Spiege		Listeria Monocytogenes in Food Processing Environments
	K. Kober-Rychli		
	M. Wagner		
260	S. Pillai	USA	A Single Stage Pooling Scheme for Large-Scale Bacterial
	A. Anderson		Pathogen Detection in Food Matrices
	S. Dixon		
	S. Ruggles		
	K. Narayanan		
324	M. Garba Hima	Niger	Qualité Hygiénique Du lait Local Au Niger Et Facteurs de Risques
	P. Sessou		
333	C. T. Dedah	Mauritania	Evaluation of Antibiotic Resistance of Salmonella Strains Isolated
	C. Abdelkader		from Red Meat in Mauritania
	D. Diop		
	A. B. El Mamy		
	A. Beyit		
	M. Sid'Ahmed		
336	G. Omarch	United Republic of Tanzania	Insights of Antimicrobial Resistance and Antimicrobial Susceptibility Testing Performed at the Central Veterinary Laboratory, Dar es Salaam

10:15-10:55

POSTER SESSION 7: ONE HEALTH

Paper No.	Author(s) [presenting author in bold]	Designating Member State/Organization	Title of Paper
9	B. Atanasovska	North Macedonia	Exploring the Nexus between Climate, Microplastics, Radionuclides and Foodborne Illness in North Macedonia "A Pathway to Ensuring Food Safety"
49	M. Gerić L. Bendix S. Božićević J. Bošnir S. Cvijetić L. Delić A. M. Domjan G. Gajski V. G. Vrhovac V. Gluščić G. Jurak J. Jurasović K. Matković T. Orct M. Peraica L. Nanić I. Rubelj D. Rašić M. V. Lovrenčić	Croatia	Is the Future of the Human Diet Green? – A Case of Vegetarian Diet in Croatia
54	N. Š. Vidaček R. Albakain	Jordan	Control of Chemical Contents of Jordanian Guava: Application on
	S. A. Mualla		Different Geographical Origins of Jordanian Guava
58	B. K. Kassaye	Ethiopia	A systematic review and meta-analysis on aflatoxin M1 prevalence, concentration, and Analytical Techniques in Raw Cow Milk in Africa
86	C. Galdhar A. Kakad P. Alone J. Kawade P. Sapkal M. Shinde V. Mote R. Gaikwad S. Patankar V. Patrawale	India	Studies on the Disposition of Technetium-99m Labeled Foot-and- Mouth Disease Vaccine in Guineapigs
	S.Basagoudanavar M. Hosamani A. Sanyal B.P. Sreenivasa		
120	M. Hosamani A. Sanyal B.P. Sreenivasa G. Güngör	Türkiye	Production of New Boron Ester Compounds As Nutritional Supplementation Agents
120 230	M. Hosamani A. Sanyal B.P. Sreenivasa	Türkiye Egypt	
	M. Hosamani A. Sanyal B.P. Sreenivasa G. Güngör	-	Supplementation Agents Impact of Whey Protein a Protective Natural Antioxidants in Cisplatin

IAEA PUBLICATIONS RELATED TO THE SUBJECT OF THE EVENT

Radiological Emergency. Part 1: Technical Material Safety Reports Series No. 114. IAEA, Vienna (2023).

FAO and IAEA. (2021). Manual of Standard Operating Procedures for Selected Chemical Residue and Contaminant Analysis. Vienna.

IAEA. (2022) Development of Electron Beam and X Ray Applications for Food Irradiation, IAEA-TECDOC-2008, IAEA, Vienna (2022).

Exposure due to Radionuclides in Food Other than During a Nuclear or IAEA (2022): Accessible Technologies for the Verification of Origin of Dairy Products as an Example Control System to Enhance Global Trade and Food Safety, IAEA-TECDOC-2002, IAEA, Vienna (2022). Accessible Technologies for the Verification of Origin of Dairy Products as an Example Control System to Enhance Global Trade and Food Safety | IAEA.

> IAEA (2024): Development and strengthening of Radioanalytical and Complementary Techniques to Control Residues of Veterinary Drugs and Related Chemicals in aquaculture Products, IAEA-TECDOC-2024, IAEA, Vienna (2024). Development and strengthening of Radioanalytical and Complementary Techniques to Control Residues of Veterinary Drugs and Related Chemicals in aquaculture Products | IAEA.

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International Conference on Hybrid Imaging (IPET 2024) (CN- 326) 7 - 11 October 2024, Vienna, Austria

International Conference on Small Modular Reactors and their Applications (CN- 327) 21 - 25 October 2024, Vienna, Austria

International Conference on Research Reactors: Achievements, Experience and the Way to a Sustainable Future 11 - 15 November 2024, Vienna, Austria (CN-319)

Ministerial Conference on Nuclear Science, Technology and Applications and the Technical Cooperation Programme 26 – 28 November 2024, Vienna, Austria

International Conference on Enhancing Nuclear Safety and Security Through Technical and Scientific Support Organizations (TSOs): Challenges and Opportunities in a Rapidly Changing World (CN- 329) 2 – 6 December 2024, Vienna, Austria

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