



International Conference on Economic Pathways for Climate-Smart and Sustainable Agriculture (ECPCSSA-2026)

26–28 January 2026

DAY 1 – Monday, 26 January 2026

Inaugural Session (10:00–11:30)

- Opening Remarks
Dr. Muhammad Khalid Bashir, Associate Professor, Institute of Agricultural and Resource Economics, University of Agriculture, Faisalabad, Pakistan
 - Welcome Address
Prof. Dr. Asghar Ali, Director, Institute of Agricultural and Resource Economics, University of Agriculture, Faisalabad, Pakistan
 - Conference Overview
Anissa Gara, National Agronomic Institute of Tunisia, Carthage University, Tunisia.
AND Laboratory of Rural Economy at National Institute of Agronomic Research of Tunisia, Tunisia
 - **Keynote 1:** Prof. Dr. Mustafa Kan
 - **Keynote 2:** Food Security in a Changing World: The Critical Role of Food Processing and Preservation
Prof Dr. Mian Anjum Murtaza, Director, Institute of Food Science and Nutrition, University of Sargodha, Sargodha, Pakistan
 - **Keynote 3:** Microfinance and Rural Household Welfare
Dr. Muhammad Sohail Amjad Makhdom, Associate Professor, Department of Economics, GC University, Faisalabad, Pakistan
 - **Keynote 4:** Why Strong IPRs Don't Always Mean Strong Innovation: Comparative Lessons from Bangladesh, India, and Pakistan
Dr. Muhammad Umar Farrukh, Assistant Professor, Department of Economics GC Women University, Sialkot, Pakistan
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Morning Parallel Sessions (11:45 AM – 13:15 PM)

Session 1A – Climate Policy, Markets & Resource Governance

Session Chair: Dr. Rakhshanda Kousar, Associate Professor, Institute of Agricultural and Resource Economics, University of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-001-001: AgriSmart Pakistan: Using Technology to Transform Agricultural Trade.
Presenting author: Moula Bux Peerzado
- ECPCSSA-2026-001-008: International Climate Agreements and Pakistan's National Climate Policies: Implementation, Gaps and Coping Strategies Presenting author: Nagina Rafiq
- ECPCSSA-2026-001-010: Market Volatility as a Consequence of Climate Change: Implications for Agrifood Value Chains
Presenting author: Muhammad Adeel Sattar
- ECPCSSA-2026-001-018: Managing Irrigation Water Conflicts under Increasing Water Scarcity: Policy Evidence from Punjab, Pakistan
Presenting author: Komal Azhar
- ECPCSSA-2026-001-020: Climate Smart Agriculture, Food Security, and Sustainable Land and Water Management
Presenting author: Saeed Ahmad Zaman

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Session 1B – Soil, Water & Climate Stress

Session Chair: Dr. Azhar Abbas, Associate Professor, Institute of Agricultural and Resource Economics, University of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-001-012: Ameliorating adverse effects of drought on growth and yield of pearl millet (*Pennisetum glaucum* (L.) R. Br) by foliar application of commercial salicylic acid |
Presenting author: Shabana Naz
- ECPCSSA-2026-001-013: Advances in Soil Chemical Testing for Soil Resilience: Evaluating the effect of *Trichoderma Viride* and Bio stimulant Application |
Presenting author: Waseem Hassan
- ECPCSSA-2026-001-017: Climate Change and Seaweed Health in Indonesia: Impacts, Implications, and the Role of Research for Mitigation and Adaptation | Presenting author: La Ode M. Aslan
- ECPCSSA-2026-001-019: Impact of Water Scarcity and Climate Variability on Soybean Productivity under Irrigated Agriculture in Pakistan Presenting author:
Presenting author: Soumiya
- ECPCSSA-2026-001-009: Development of Anthocyanin Based pH-Sensitive Smart Packaging Film Stickers for Food Spoilage Detection
Presenting author: Mehreen Ibraheem

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Session 1C – Gender, Labor & Behavioral Dimensions

Session Chair: Dr. Raza Ullah, Associate Professor, Institute of Agricultural and Resource Economics, University of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-001-014: Assessment of Environmental Attitudes and Practices of Female Agricultural Workers in the Context of Climate-Friendly Agriculture
Presenting author: Selin Nur Altun
- ECPCSSA-2026-001-016: Assessment of Environmental Attitudes and Practices of Female Agricultural Workers in the Context of Climate-Friendly Agriculture
Presenting author: Ayisha Aman Ullah
- ECPCSSA-2026-004-001: Resilient but Unequal: Gendered Impacts of Climate Adaptation and Circular Economy Solutions in Kenya's Arid and Semi-Arid Lands
Presenting author: Ibrahim Ndegwa Macharia
- ECPCSSA-2026-004-002: Analyzing Farmers' Water Use Behavior Through the Lens of Behavioral Economics and Social Psychology
Presenting author: Mustafa Kan
- ECPCSSA-2026-004-003: Intentional Action Gap in the Adoption of Climate Smart Agriculture among Small Scale Farmers in Disaster Prone Areas
Presenting author: Naveed Farah

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Evening Parallel Sessions (14:15 PM –15:45 PM)

Session 2A – Digital Innovation & Agricultural Data

Session Chair: Dr. Muhammad Amjed Iqbal, Associate Professor, University of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-007-001: Digital Transformation for Sustainable Agriculture: Leveraging Data-Driven Innovation to Empower Farmers
Presenting author: Muskan Lohana
- ECPCSSA-2026-007-003: Digital innovation and agricultural data systems at University of Horticultural Sciences, Bagalkot, Karnataka
Presenting author: Mala C. Patil
- ECPCSSA-2026-007-004: Leveraging an AI-Driven Decision Support System Prototype for Precision Irrigation: An Extension-Led Pilot Study on Rabi Wheat in Bahawalpur, Pakistan
Presenting author: Fauzia Anjum
- ECPCSSA-2026-007-011: Digital Innovation and Agriculture Data
Presenting author: Muhammad Hasan Ameen
- ECPCSSA-2026-007-012: Digital Innovation and Agricultural Data for Climate-Smart and Resilient Farming Systems
Presenting author: Ahmad Ghani Rasheed

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Session 2B – AI, Smart Systems & Insurance

Session Chair: Dr. Tahira Sadaf, Associate Professor, Institute of Agricultural and Resource Economics, University of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-007-005: AI-Enabled Agile Framework for Crop Insurance
Presenting author: Syed Mushhad M. Gilani
- ECPCSSA-2026-007-007: AI-Enabled Cattle Identification and Recognition Using Retinal Images
Presenting author: Syed Mushhad M. Gilani
- ECPCSSA-2026-007-008: Reimagining Agricultural Innovation: The Role of AI-Driven Ideation Support in Sustaining Human Capital in Pakistan
Presenting author: Fasiha Batool
- ECPCSSA-2026-007-009: Transitioning from State Procurement to Private Markets: Adapting Chinese Digital Storage Models for Pakistan's Wheat Sector
Presenting author: Muhammad Asad ur Rehman Naseer
- ECPCSSA-2026-007-010: Determinants of Growers' Intentions to Adopt Blockchain Technology in Pulses Supply Chains
Presenting author: Manal Siddique

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Session 2C – Behavioral Economics & Farmer Decisions

Session Chair: Dr. Abdus Samie, Assistant Professor, Institute of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-004-004: Adaptive Behavior and Socioeconomic Drivers of Animal Health Management Among Women Livestock Keepers in Rural Areas of District Faisalabad
Presenting author: Mariam Shabbir
- ECPCSSA-2026-004-005: Analysis of Factors Affecting Agricultural Productivity in Pakistan
Presenting author: Amina Rashid
- ECPCSSA-2026-004-006: Consumer Preferences and Willingness to Pay for Fortified Cereals: A Case Study of Faisalabad
Presenting author: Qamar-ul-Islam
- ECPCSSA-2026-004-007: Farmer Adaptation Under Risk: A Dual-Conceptual Framework for Agricultural Decision-Making using Behavioral and Agricultural Economics
Presenting author: Syed Muhammad Subtain Abbas
- ECPCSSA-2026-006-033: Behavioral Insights of Food Waste-Food Insecurity Paradox: A Review of Determinants of Household Food Wastage Behavior
Presenting author: Maryam Majeed

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Session 2D – Environment, Waste & Sustainability

Session Chair: Dr. Qasir Abbas, Assistant Professor, Institute of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-006-009: Towards A Zero Waste Future: The Development of Ecofriendly Crockery to Reducing the Plastic Waste
Presenting author: Fatima Sohail
- ECPCSSA-2026-006-015: Development and Characteristics of Edible Paper from different Vegetables: A Novel Approach towards Biodegradable and Sustainable Primary Packaging.
Presenting author: Alishba Khan
- ECPCSSA-2026-006-034: Quantifying Impact and Systemic Vulnerability: A Mixed-Methods Analysis of Flood Effects on Punjab Aquaculture
Presenting author: Unsa Ajmal
- ECPCSSA-2026-006-035: Effect of Lead (Pb) and Different Soil Amendments on Biomass Distribution and Morphophysiological Growth Response of Populus Deltoides
Presenting author: Muhammad Haroon ur Rashid
- ECPCSSA-2026-006-037: Nano-Enabled Fertilizers for Sustainable Crop Productivity and Farmer Livelihoods
Presenting author: Sana Shahid

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DAY 2 – Tuesday, 27 January 2026 Morning Parallel Sessions (09:30 AM –11:00 AM)

Session 3A – Risk, Insurance & Finance

Session Chair: Dr. Javaria Nasir, Assistant Professor, Institute of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-003-001: Rethinking Rural Finance for Climate-Smart Agriculture in Pakistan: Economic Pathways for Smallholder Adaptation
Presenting author: Ayesha Rouf
- ECPCSSA-2026-003-002: Financial Vulnerability and Risk Exposure in Small-scale fisheries
Presenting author: Rimsha Jamil
- ECPCSSA-2026-003-003: Crop Yield Risk Assessment using CNN-SVM Integrated Deep Learning Framework
Presenting author: Syed Mushhad M. Gilani
- ECPCSSA-2026-003-004: Impact of Corporate Tax Avoidance on Consumer Behavior
Presenting author: Ayesha Noreen
- ECPCSSA-2026-007-006: Economic Effects of High-Quality Wheat Seed Availability on Farm Productivity: Econometric Evidence from Mardan District, Khyber Pakhtunkhwa
Presenting author: Raza Ullah

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Session 3B – Public Policy, Institutions & Governance

Session Chair: Neelam Rana, Lecturer, Institute of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-005-001: Energy Governance and Public Policy Coordination: OPEC’s Institutional Role in Global Oil Markets
Presenting author: Zeeshan Yousaf
- ECPCSSA-2026-005-002: An Evaluation of Plant Protection Product Use and the Transition toward Agroecological Practices in Greenhouse Production within the Regulatory and Institutional Framework of Türkiye
Presenting author: Berçin Şener
- ECPCSSA-2026-005-003: Institutional Quality and Climate Vulnerability: Global Evidence from Dynamic Panel Analysis
Presenting author: Qurat-ul-Ain
- ECPCSSA-2026-005-004: Impact of Women’s Empowerment on Sustainable Development in District Faisalabad
Presenting author: Rukhsana Rukhsar
- ECPCSSA-2026-005-005: Estimation of Shadow Economy and its Impact on GDP of Pakistan
Presenting author: Hasan Zulfiqar

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Session 3C – Markets, Trade & Value Chains

Session Chair: Dr. Hasan Zulfiqar, Lecturer, Institute of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-001-011: Exploring Indigenous Microbial Solutions for Bioremediation of Textile Dye Effluents and Mitigating their Phytotoxicity.
Presenting author: Shagufta Noreen
- ECPCSSA-2026-006-038: An Analysis of Income Inequality and Its Impact on Household Consumption and Ecological Footprints
Presenting author: Syed Ali Ummar
- ECPCSSA-2026-006-041: Value Chain Analysis of Poultry: The Case of District Faisalabad
Presenting author: Qamar ul Islam
- ECPCSSA-2026-006-024: Informal Food Markets, Public Health Risks, and Economic Costs in Pakistan
Presenting author: Zoya Idrees
- ECPCSSA-2026-006-016: Impact of Urbanization on Agricultural Production and Food Insecurity
Presenting author: Azhar Iqbal

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Evening Parallel Sessions (11:15 AM –13:45 PM)

Session 4A – Food Security & Livelihoods I

Session Chair: Saba Javed, Lecturer, Institute of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-006-003: Rural Women's Contribution to Household Food Security in Agrarian Communities: A Cross-Sectional Study from Rural Punjab, Pakistan
Presenting author: Areesh Abdul Ghafoor
- ECPCSSA-2026-006-004: Gendered Livelihoods and Household Food Security: Evidence from Rural Agricultural Communities in Punjab
Presenting author: Nadiha Naz
- ECPCSSA-2026-006-005: Food Security, Livelihoods and Gender Inclusion in Pakistan: Advancing Sustainable and Equitable Food Systems
Presenting author: Bahzad Afzal
- ECPCSSA-2026-006-006: Women at the Core of Climate-Smart Agriculture: Advancing Equity and Food Security through Empowerment
Presenting author: Adan Noor
- ECPCSSA-2026-006-044: Food Security and Livelihood Challenges in Pakistan: A Review of Current Trends and Determinants
Presenting author: Jawad Anwar

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Session 4B – Food Processing & Functional Foods

Session Chair: Dr. Muhammad Sohail Amjad Makhdom, Associate Professor, Department of Economics, Government College University, Faisalabad, Pakistan

- ECPCSSA-2026-006-001: Design and development of lab-scale food dehydrator for energy-efficient and sustainable food preservation
Presenting author: Saniya Tayyab
- ECPCSSA-2026-006-002: Study on Biodegradable Plastic Made from Soluble Polysaccharides with Incorporation of EOs and Study its Effectiveness on Food Commodity
Presenting author: Saniya Tayyab
- ECPCSSA-2026-006-007: Optimizing Probiotic Bioavailability in Ginger Soda via Ginger Bug Culture Enhancement
Presenting author: Syeda Kissa e Zehra
- ECPCSSA-2026-006-010: Development of a Functional Focaccia Soft Bread with Spinach Powder and Other Nutritious Ingredients
Presenting author: Yumna Jalal
- ECPCSSA-2026-006-011: Utilization of Pomegranate (*Punica Granatum*) and Apple (*Malus Domestica*) Peel Powder for the Development of Antioxidant-Enriched Fruit Bars: A Functional Food Perspective
Presenting author: Ume Rooman

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Session 4C – Livestock, Poultry & Fisheries

Session Chair: Dr. Azhar Abbas, Associate Professor, Institute of Agricultural and Resource Economics, University of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-006-013: Understanding Feeding Practices and Promoting Sustainable Poultry Nutrition
Presenting author: Areeba Fatima
- ECPCSSA-2026-006-025: Taurine Mediated Enhancement of Mineral Bioavailability and Growth Performance in Mori Fingerlings
Presenting author: Maliha Sarfraz
- ECPCSSA-2026-006-029: Role of Probiotics in the Control of Colibacillosis in Birds with Histopathological and Hematobiochemical Evaluation
Presenting author: Muhammad Imran
- ECPCSSA-2026-006-030: Farmer Livelihoods in the Thal Desert of Pakistan: An Economic Review Using the Sustainable Livelihoods Framework.
Presenting author: Samiullah
- ECPCSSA-2026-006-042: Fog Fever as a Hidden Threat to Food Security and Livelihoods in Grazing Based Livestock Systems
Presenting author: Muhammad Rehan

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Session 4D – Nutrition, Safety & Public Health

Session Chair: Dr. Raza Ullah, Associate Professor, Institute of Agricultural and Resource Economics, University of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-006-017: Flesh Quality in Relation to Food Security
Presenting author: Naheed Bano
- ECPCSSA-2026-006-026: Determination of Food Safety Awareness Levels Among University Students: The Case of Tekirdağ Namık Kemal University
Presenting author: Derya İlkay Yılmaz
- ECPCSSA-2026-006-039: Food Security and Women's Livelihoods in Developing Economies: Challenges, Policies, and Sustainability Pathways
Presenting author: Aliya Qaisar
- ECPCSSA-2026-001-002: Assessment Of Germplasm Using Multivariate Analysis For Grain Yield And Quality Traits In Spring Wheat
Presenting author: Muhammad Atif Wahid
- ECPCSSA-2026-001-003: Association mapping of economic traits based on QTL clusters/hotspots linked SSR markers in Upland cotton
Presenting author: Muhammad Atif Wahid

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DAY 3 – Wednesday, 28 January 2026

Parallel Sessions (09:30–11:00)

Session 5A – Food Security & Livelihoods II

Session Chair: Dr. Muhammad Amjed Iqbal, Associate Professor, University of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-006-023: Impact of Sustainable Smart Agriculture on Rural Development and Food Security
Presenting author: Faria Javed
- ECPCSSA-2026-006-027: Pathways to Climate-Smart Agriculture Adoption for Food Security and Resilience: Roles of Skill Enhancement and Institutional Capacity in Livelihood Improvement toward the Sustainable Development Goals
Presenting author: Neelam Chaudhary
- ECPCSSA-2026-006-036: Role of Livelihood Interventions in Enhancing Nutritional Security
Presenting author: Ramsha Akram
- ECPCSSA-2026-006-040: Participation of Rural Females in Non-agriculture Sector of Pakistan: The Case of Faisalabad
Presenting author: Neelam Rana
- ECPCSSA-2026-008-003: Hedonic Price Model for Assessing the Impact of Industrial Pollution on Housing Values in Punjab Pakistan
Presenting author: Tahira Sadaf

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Session 5B – Functional Foods, Innovation & Packaging

Session Chair: Dr. Tahira Sadaf, Associate Professor, Institute of Agricultural and Resource Economics, University of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-006-008: In vitro Propagation and Acclimatization of Kinnow Mandarin (Citrus Reticulata Blanco) Under Hot Arid Climatic Conditions
Presenting author: Syeda Kakhkashan Kazmi
- ECPCSSA-2026-006-019: Exploring Banana Peel as a Source of Natural Antibacterial Agents and Phytochemicals
Presenting author: Ukasha Khaliq
- ECPCSSA-2026-006-028: Development and Physicochemical Evaluation of Legume Enriched Cake Pops as a Functional Food for Osteoporosis Management
Presenting author: Ume Rومان
- ECPCSSA-2026-006-012: Creating a Health-Boosting Probiotic Chocolate Spread Using an Innovative Approach
Presenting author: Ayesha Mazhar
- ECPCSSA-2026-008-002: An Empirical Analysis of Financial Development, Energy Consumption, and Ecological Footprint in Pakistan
Presenting author: Noor Muhammad

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Session 5C – Advanced Agriculture & Biotechnology

Session Chair: Dr. Abdus Samie, Assistant Professor, Institute of Agriculture, Faisalabad, Pakistan

- ECPCSSA-2026-006-014: Effect of Alternating Canal and Marginal Groundwater Irrigation on Banana Yield, Water Use Efficiency, and Soil Salinity under Furrow Plantation
Presenting author: Nazar Gul
- ECPCSSA-2026-006-043: Improving Consumers Livelihood and Food Security by Enhancing Legume Productivity by Precursor-Inoculum Synergies in Pesticide-Polluted Soil
Presenting author: Muhammad Imran Khan
- ECPCSSA-2026-007-013: CRISPR-Mediated Genome Editing for Enhancing Heat Tolerance and Fertility in Livestock
Presenting author: Muhammad Nasir Bhaya
- ECPCSSA-2026-001-015: Determinants of Low-Carbon Farming Practice Adoption in the Cotton–Wheat System of Pakistan’s Indus Basin
Presenting author: Muhammad Ali Imran

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