

# 24<sup>TH</sup> SCIENCE COUNCIL OF ASIA CONFERENCE 16 – 18 November, 2025

## Food Security, Sustainability and Biodiversity

### In-Person and Hybrid on Zoom Platform

Pakistan Academy of Sciences, 3-Constitution Avenue, Sector G-5/2, Islamabad, Pakistan

### **Program**

# 16 November 2025 (Sunday)

**8.30-16.00:** Registration

9.00-10.00: Inaugural Ceremony - [AUDITORIUM]

Chair: Prof. Dr. Kauser Abdulla MALIK (Mr.)

President, Pakistan Academy of Sciences and Chair, Organizing Committee 24th SCAC

Welcome Address and Introduction to PAS Scientific & Academic

Activities by Prof. Dr. Mushtaq AHMAD (Mr.)

Fellow, Pakistan Academy of Sciences

Address by Prof. Dr. Mamoru MITSUISHI (Mr.)

President, Science Council of Japan

Address by Prof. Dr. Muhammad Aslam BAIG (Mr.)

President, Science Council of Asia, and Sec. General, Pakistan Academy of Sciences

Address by the Chief Guest; Prof. Dr. Atta-ur-RAHMAN, FRS (Mr.)

Former Chairman HEC, Former Coordinator General COMSTECH

Vote of Thanks by Dr. Riffat Mahmood QURESHI (Mr.)

Director Administration, Pakistan Academy of Sciences and Scientific Secretary

(Organizing Committee)

**10.00-10.50:** Theme Lecture - [AUDITORIUM]

Bridging Food Security and Biodiversity for Cultivating Wellness and

Sustainability in Life & Environment

Chair: Prof. Dr. Kauser Abdulla MALIK (Mr.)

President, Pakistan Academy of Sciences and Chair, Organizing Committee

24th SCAC

Speaker: Prof. Dr. Atta-ur-RAHMAN, FRS (Mr.)

Former Chairman HEC, Former Coordinator General COMSTECH

10.50-11.30: Break for Group Photo and Refreshments - [Dining Hall]

11.30-13:00: PLENARY SESSION -[AUDITORIUM]

Chair: **Dr. Khalid MEHMOOD (Mr.)** 

Former President, Pakistan Academy of Sciences

11.30-12.15 Plenary Lecture I

Speaker: Prof. Dr. Kauser Abdulla MALIK (Mr.)

President, Pakistan Academy of Sciences and Chair, Organizing Committee

24th SCAC

Food Security in the Era of Climate Change and Modern Technologies

12.15-13.00 Plenary Lecture II

Speaker: **Prof. Dr. Andrea PIERONI (Mr.)** 

University of Gastronomic Sciences of Pollenzo, Italy

Biodiversity of Wild Edibles among Traditional Communities of the World

13.00-14.30: Lunch Break and Posters Display - [Lobby]

14.30-16.00: SCIENTIFIC SESSION I (PARALLEL) - FOOD SECURITY

- [AUDITORIUM]

Chair: **Prof. Dr. Abdul Rauf SHAKOORI (Mr.)** 

Fellow, Pakistan Academy of Sciences, Univ. of the Punjab, Lahore, Pakistan

Speaker: Prof. Dr. Sakae SHIBUSAWA (Mr.)

14.30-15.00 Center for High Education Development, Kyoto Women's University, Japan

Role of Data Driven Agrofood Systems on Food Security

Speaker: Prof. Dr. Niluka Udayangani HETTIGE (Ms.)

15.00-15.30 University of Colombo, Sri Lanka

Healing the Earth, Nourishing the Self: A Transformative Psychosocial Framework to Uplift Rural Farming Communities and Promote Biodiversity

and Food Security

Speaker: Prof. Dr. Muhammad ASHRAF (Mr.)

15.30-16.00 Vice President, Pakistan Academy of Sciences, and Vice Chancellor, University of

Lahore, Pakistan

Judicious Exploitation of Stressed Lands to Ensure Food Security

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14.30-16.00: SCIENTIFIC SESSION II (PARALLEL) – SUSTAINABILITY

- [COMMITTEE ROOM]

Chair: **Prof. Dr. Waheed AKHTAR (Mr.)** 

Fellow, Pakistan Academy of Sciences, Professor Emeritus, School of

Biological Sciences, University of Punjab, Lahore, Pakistan

Speaker: Dr. Abdul RASHID (Mr.)

14.30-15.00 Fellow, Pakistan Academy of Sciences

Agronomic Biofortification of Staple Cereals with Micronutrients to

Combat *Hidden Hunger* in Resource-poor Populations

Speaker: Dr. Muhammad ALI (Mr.)

15.00-15.30 Member, Pakistan Academy of Sciences, Associate professor, Department of

Biotechnology, Quaid-i-Azam University, Islamabad, Pakistan

Studying Bats and Bat-Associated Viruses Promotes Sustainability, Pakistan's

Experience

Speaker: Dr. Muhammad Naveed ANJUM (Mr.)

15.30-16.00 PMAS Arid Agriculture University, Rawalpindi

Impacts of Extreme Climate Change with respect to Food Security,

Biodiversity, and Sustainability

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14.30-16.00: SCIENTIFIC SESSION III (PARALLEL) - BIODIVERSITY

- [CONFERENCE ROOM]

Chair: Prof. Dr. Asghari MAQSOOD (Ms.)

Fellow, Pakistan Academy of Sciences

Speaker: Prof. Dr. Anjana SINGH (Ms.) (OL)

14.30-15.00 Former Head, Central Department of Microbiology, Tribhuvan University,

Kirtipur, Kathmandu, Nepal

Genetic Diversity of Dengue Virus Circulating in the Nepal

Speaker: Dr. Mubarak Ahmad KHAN (Mr.)

15.00-15.30 Fellow, Bangladesh Academy of Sciences and Bangladesh Atomic Energy

Research Establishment

Oligo Chitosan as a Sustainable Solution for Enhancing Food Security,

Biodiversity, and Biomedical

Speaker: Prof. Dr. Liaquat ALI (Mr.)

15.30-16.00 Fellow, Bangladesh Academy of Sciences, Bangladesh

Prevention of Noncommunicable Diseases: Choosing the Right Carbohydrate

16.00-17.00: Light Refreshments and Poster Presentations - [Lobby]

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17.00-18.00: SCA Management Board Meeting (Invitation only)

- [CONFERENCE ROOM]

18.30-20.30: Reception / Welcome Dinner - [PAS Lawn]

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# 17 November 2025 (Monday)

9.00-10:30: PLENARY SESSION - [AUDITORIUM]

Chair: **Prof. Dr. Muhammad QAISAR (Mr.)** 

Vice President, Pakistan Academy of Sciences and Professor Karachi University,

Pakistan

9.00-9.45 **Plenary Lecture III** 

Speaker: Prof. Dr. You-Cai XIONG (Mr.)

Foreign Fellow, Pakistan Academy of Sciences, College of Ecology, Lanzhou

University, China

Diversified Cropping Systems to Ensure Food Security and Ecosystem

Sustainability

9.45-10.30 Plenary Lecture IV

Speaker: Prof. Dr. Looi Lai MENG (Ms.)

Vice President, Malaysia Academy of Sciences

Indigenous Wisdom in Biodiversity Sustainability: A Story from Malaysia

10.30-11.00: Light Refreshments & Poster Presentations - [Lobby]

11.00-12:30: PLENARY SESSION - [AUDITORIUM]

Chair: Prof. Dr. Muhammad ASHRAF (Mr.)

Vice President, Pakistan Academy of Sciences, and Vice Chancellor, University

of Lahore, Pakistan

11.00-11.45 Plenary Lecture V

Speaker: Prof. Dr. Kotaro TAKAYAMA (Mr.)

Graduate School of Engineering, Department of Mechanical Engineering,

Toyohashi University of Technology, Japan

Plant-Guided Optimal Environmental Control for Sustainable Agriculture

11.45-12.30 Plenary Lecture VI

Speaker: Dr. Anwar ul Hassan GILLANI (Mr.)

Fellow, Pakistan Academy of Sciences, Islamabad, Pakistan

Food Security through Sustainable Agriculture under Changing Climate

12.30-14.00: Lunch Break and Posters Display - [Lobby]

14.00-15.30: SCIENTIFIC SESSION IV (PARALLEL) - FOOD SECURITY

- [AUDITORIUM]

Chair: Prof. Dr. Shahid Mahmood BAIG (Mr.)

Fellow, Pakistan Academy of Sciences, Health Services Academy, Islamabad

Speaker: Prof. Dr. Sakiko SHIRATORI (Ms.)

14.00-14.30 Project Leader, Information and Public Relations Office, Japan

International Research Center for Agricultural Sciences

Towards Nutrition-Sensitive Agriculture and Resilient Food Systems: Global

Perspectives with Evidence from Africa

Speaker: **Dr. Muhammad Ramzan KHAN (Mr.)** 

14.30-15.00 National Institute for Biotechnology and Genetics Engineering, Faisalabad,

Pakistan

Integrated Genomic Assisted Breeding Technology for Accelerated

Development of Crop Varieties

Speaker: Prof. Dr. Khurram MUAZ (Mr.)

15.00-15.30 KAM School of Life Sciences, Forman Christian College, Lahore, Pakistan

Valorization of Rice Husk for Sustainable Food Packaging Applications

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14.00-15.30: SCIENTIFIC SESSION V (PARALLEL) - SUSTAINABILITY

[COMMITTEE ROOM]

Chair: Prof. Dr. Liaquat ALI (Mr.)

Fellow, Bangladesh Academy of Sciences

Speaker: Prof. Dr. Mamoona MUNIR (Ms.)

14.00-14.30 Assistant Professor, Rawalpindi Women University, Rawalpindi, Pakistan

Leverage Alternative Crops for Environmental Sustainability and Global Food

Security

Speaker: Prof. Dr. Olga PASHKEVICH (Ms.) (OL)

14.30-15.00 Institute of System Research in Agro-Industrial Complex of the National

Academy of Sciences of Belarus, Minsk, Republic of Belarus

Methodology for Assessing Agricultural Heritage Sites for Sustainable Rural

Development

Speaker: Prof. Dr. Sagarika EKANAYAKE (Ms.)

15.00-15.30 Chair, Department of Biochemistry, University of Sri Jayewardenepura,

Nugegoda, Sri Lanka

Traditional Sri Lankan Foods and Sustainable Healthy Living

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14.00-15.30: SCIENTIFIC SESSION VI (PARALLEL) – BIODIVERSITY

[CONFERENCE ROOM]

Chair: Prof. Dr. Azra KHANUM (Ms.)

Fellow, Pakistan Academy of Sciences

Speaker: Dr. Shazia SULTANA (Ms.)

14.00-14.30 Silkroad Biohealth and Agricultural Industrial Alliance, China, International

Professor Samarkand State University, Uzbekistan

Plant Biodiversity Resources to Industrial Products: A way forward for Food,

Health and Energy Security

Speaker: Prof. Dr. Mushtaq AHMAD (Mr.)

14.30-15.00 Fellow, Pakistan Academy of Sciences, and Professor, Quaid-i-Azam University,

Islamabad Pakistan

Biodiversity for One Earth: Civilization Connection for Sustainability

Speaker: Dr. Saima HASHIM (Ms.)

15.00-15.30 Khyber Pakhtunkhwa Agriculture Department

Nature-Based Solutions and Community Participation for Climate-Resilient

Water Governance

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### 15.30-16.00: Light Refreshments and Poster Presentations - [Lobby]

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#### 16.00-17.30: Young Researcher's Session - [AUDITORIUM]

#### Lectures

Speaker-I (Pakistan): Dr. Aftab Ahmad (Mr.)

President, National Academy of Young Scientists, Pakistan

Bridging the Gap: Science, Industry, and the Future of Innovation

#### Speaker-II (Japan): Dr. Ryuma SHINEHA (Mr.)

Associate Professor, Graduate School of Media Design, Keio

University, Japan

Science and Technology Policies for Advanced Knowledge-based

Society in Japan

#### Speaker-III (Japan): Dr. Ryohta MATSUYAMA (Mr.)

Researcher, National Institute of Animal Health, National

Agriculture and Food Research Organization, Japan

Shared Challenges, Collective Action: Empowering Early-Career

Researchers in Asia

#### **Panel Discussion**

Moderator: Prof. Dr. Yasir WAHEED (Mr.)

School of Health Sciences, National University of Science and

Technology (NUST), Islamabad, Pakistan

#### 17.30-18.00: Light Refreshments

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18.00-19.00: General Assembly Meeting (Invitation only)

- [CONFERENCE ROOM]

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## 18 November 2025 (Tuesday)

#### 9.30-11.30: FUTURE EARTH SYMPOSIUM - [AUDITORIUM] (TBD)

A: Main Talks:

Moderator: Prof. Dr. M. Qasim JAN (Mr.)

09:30-09:35 Fellow, Pakistan Academy of Sciences

Welcome Remarks, Program Outline, Speaker introductions

Speakers: Prof. Dr. Fumiko KASUGA (Ms.)

09:35-09:50 Professor, School of Tropical Medicine and Global Health, Nagasaki

University

Global Hub Director-Japan, Future Earth

Dr. Ria LAMBINO (Ms.) (OL)

Deputy Director, Japan Hub, Future Earth

Future Earth initiatives and the Asia Science Mission

Speaker: **Dr. Abid MAHMOOD (Mr.)** 

09:50-10:05 Punjab Agriculture Research Board, Lahore, Pakistan

Building Resilient Food, Ecosystem

Speaker: Prof. Zabta Khan SHINWARI (Mr.)

10:05-10:20 Fellow, Pakistan Academy of Sciences and Vice Chancellor, Federal Urdu

University, Islamabad, Pakistan

Climate Futures - Importance of Sustainable Development for a Better Future

Earth

#### **B. Short Talks**

Moderator: **Prof. Dr. Fumiko KASUGA (Ms.)** 

10:20-10:25 Professor, School of Tropical Medicine and Global Health, Nagasaki

University

Global Hub Director-Japan, Future Earth Program Outline, Speaker introductions

Speaker: Candice LUNG (Ms.) (OL) 10:25-10:30 Future Earth Taipei, Taiwan

Air Pollution and Health: Systems Approach

Speaker: Arnab CHAUDHARY (Mr.)

10:30-10:35 Lawyer, Activist, Indigenous Youth, Nepal

Indigenous and Local Knowledge in Sustainability Pathways

Speaker: **Dr. Neni SINTAWARDANI (Ms.)** 10:35-10:40 *Senior Researcher, BRIN, Indonesia* 

Resource Circularity for Livelihoods and Resilience

Speaker: Dr. Muhammad SHAFIQUE (Mr.)

10:40-10:45 National Center of Excellence in Geology, University of Peshawar, Pakistan

Integrated Early Warning Systems for Climate Disasters

Speaker: Dr. Shuja ul Mulk KHAN

10:45-10:50 Professor, Quaid-i-Azam University, Islamabad, Pakistan



Agro-ecological Innovations for Food Security or Challenges or Opportunities: AI and Food Systems and Climate

#### 10:50-11:30 Moderated Fishbowl Conversation

(One moderator physical and the other online)

This session will adopt a fishbowl format to encourage open, participatory dialogue between speakers and audience members.

#### C. Announcements/Closing Remarks

11.30-12.00: Light Refreshments

12.00-13.00: CONCLUDING SESSION - [AUDITORIUM]

Moderator: **Prof. Dr. Khalid Mahmood KHAN (Mr.)** 

Former President, Pakistan Academy of Sciences

- Report by the Focal Person of 24<sup>th</sup> SCAC

Dr. Riffat Mahmood QURESHI (Mr.)

- Address by the President of Pakistan Academy of Sciences
  Prof. Dr. Kauser Abdulla MALIK (Mr.)
- Conference Declaration by Secretary-General of Science Council of Asia Prof. Dr. Sakae SHIBUSAWA (Mr.)
- Announcement for 25<sup>th</sup> SCAC in Cambodia by ITC's Director General H.E. Prof. PO Kimtho (Mr.) (Recorded Video Message)
- Address by the President Science Council of Asia Prof. Dr. M. Aslam BAIG (Mr.)

#### 13.00-14.30: Group Photo and Lunch

14:30: End of 24th SCA CONFERENCE