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Dr. Ghulam Muhammad Ali, Chairman, PARC Honored with Sitara-e-Imtiaz



Dr. Ghulam Muhammad Ali, Chairman PARC, has been honored with the Sitara-e-Imtiaz for his exceptional contributions to the field of agriculture. He earned his Ph.D. degree in molecular biology from University of Liverpool, England. His tenure at PARC has seen him occupy several

pivotal positions, including Member Plant Sciences Division, Director General NARC, and Senior Director, NIGAB. Dr. Ali's scientific contributions are underscored by over 360 publications in national and international journals.

Dr. Ali's innovative work has led to the establishment of transformative initiatives such as NIGAB. he pioneered Pakistan's first speed breeding facility to expedite varietal development of various crops and established country's first Aeroponic facility at NARC to produce virus-free nucleus seed potatoes.

Under his leadership, Dr. Ali has introduced several high-yielding and climate-resilient crop varieties. These include the rice varieties GM ALI-5, GM ALI-76, GM ALI-48, and KM-52, the wheat variety Wafaq-2023,



and four banana varieties: NIGAB-1, NIGAB-2, NIGAB-3, and NIGAB-4. Additionally, he developed the early-maturing grape variety Razaqi and tested the first ginger variety in a farmer's field. Dr. Ali has also supervised numerous Ph.D. and M.Phil candidates, further contributing to the advancement of agricultural science.



Turning ideas into action



Pioneering research in action: NIGAB Lab

PARC Research Facilities Mark Milestone in Agricultural Research: Dr. Ali

ISLAMABAD: His Excellency Prof. Dr. Mehmet Paçacı, Ambassador of Turkiye to Pakistan, Dr. Ghulam Muhammad Ali, Chairman PARC, Vice president of Turkish Cooperation and Coordination Agency (TİKA). Dr. Umit Naci Yorulma, Country head TİKA Pakistan Muhsin Balci, Inaugurated the Bee Hive Products Laboratory at the HBRI, and Green House for Fruit Plants Germplasm Handling at HRI, NARC, Islamabad. These laboratories are established in collaboration and support from TİKA.

Dr. Mehmet Paçacı said that these labs will serve as a center for training and capacity building, equipping beekeepers, researchers, and students with the knowledge and skills they need to excel. Chairman PARC extended heartfelt gratitude to the Government of Turkiye TİKA for their invaluable contribution and unwavering commitment to strengthening our agricultural research capabilities. He further stated that this state-of-the-art laboratory marks a significant

milestone in country's ongoing efforts to advance Honeybee research and development in Pakistan. Already TİKA has

established an artificial queen insemination Laboratory at HBRI which is great importance for quality queen production.



His Excellency, Ambassador of Turkiye to Pakistan Prof. Dr. Mehmet Paçacı inaugurating Bee Hive Products laboratory at NARC

Scientists Must Pursue Excellence in Agricultural Research: Dr. Ali

ISLAMABAD: An awards ceremony was convened at the NARC, Islamabad, to acknowledge distinguished scientists who have made significant contributions in various research domains such as Animal Sciences, Plant Genomics, Vaccine Development, Floriculture, Aquaculture, Food Security, Agricultural Trade and other related disciplines. Forty eight agricultural scientists were awarded for their meritorious services in their respective fields. Chairman, PARC graced the ceremony as the chief guest. In his address to the scientists, Chairman PARC highlighted the pivotal role of PARC in ensuring national food and nutritional security. Emphasizing the

importance of diligence and dedication, he urged all scientists to persevere in their respective fields to further advance the overarching mission.

Furthermore, Chairman PARC underscored the critical need for interdisciplinary collaboration and innovation in addressing contemporary agricultural challenges. He commended the

awardees for their outstanding achievements and encouraged them to continue their pursuit of excellence in research and development. He further said that the council is always ready to support its scientists in every possible manner and the scientists should use this as an opportunity to develop new techniques in order to ensure national food security.



Dr. Ghulam Muhammad Ali, Chairman, PARC addressing an award distribution ceremony at NARC

Government Committed to Modernize Agriculture Sector: Tanvir

ISLAMABAD: Pakistan Agricultural Research Council (PARC) and Korea Partnership for Innovation of Agriculture (KOPIA) held a joint inaugural ceremony at NARC Islamabad for their collaborative effort on certified seed potato production using advanced Aeroponics technology. During the event, Rana Tanveer Hussain, the Federal Minister for NFS&R, commended the progress achieved by researchers from KOPIA and PARC in this field. He emphasized the government's

dedication to enhancing the agricultural sector through modern technologies and innovation. Dr. Kwak Do-Yeon, Director General NICS/Rural Development Administration (RDA) Korea, emphasized RDA's role in advancing hightech agriculture in developing nations, stressing the significance of technological progress in boosting agricultural output. Mr. Park Ki Jun, the Ambassador of the Republic of Korea to Pakistan, highlighted the collaborative initiatives between

Pakistan and Korea, particularly focusing on the joint seed potato production project. Dr. Ghulam Muhammad Ali, Chairman PARC, expressed gratitude to the Republic of Korea for their financial and technical support to Pakistan's agricultural sector. He highlighted the significance of developing Aeroponic potato seeds and the joint efforts of PARC and KOPIA in indigenizing seed potato production through advanced Aeroponic technology.



Federal Minister, MNFS&R Rana Tanveer Hussain, Korea Ambassador to Pakistan, Mr. Park Ki Jun, Dr. Kwak Do-Yeon, DG NICS/RDA Korea, Dr. Ghulam Muhammad Ali, Chairman, PARC, Dr. Cho Gyoung-Rae, Director KOPIA-Pakistan inaugurating Aeroponic Green Houses for seed potato production at NARC

Review Workshop for Organic Standards and Framework of Accreditation for Pakistan

ISLAMABAD: CABI International, an international inter-governmental non-profit organization dedicated to enhancing livelihoods through the application of scientific expertise in agriculture and environmental problem-solving, convened a significant workshop in Islamabad on July 2-3, 2024. The workshop, titled "Review and Validation of Organic Agriculture Standards and Framework Accreditation for Pakistan," brought together a diverse group of representatives from various organizations including MNFS&R, PARC, PNAC, PSQCA, academia, BCI, testing laboratories, NGOs, textile industries, OCA, WWF, Lok Sanjh Foundation, Control Union, GCL,

and Fair Trade. The primary objective of the workshop was to facilitate collaboration among stakeholders and boost the organic agriculture sector in Pakistan by raising awareness and advocating for the necessary standards for accreditation and certification. Dr. Babar E. Bajwa, CABI's Senior Regional Director Asia, underscored the critical need for a well-

defined and actionable plan to implement the accreditation process at the national level. CABI reaffirmed its commitment to supporting the growth of organic agriculture in Pakistan and expressed its eagerness to continue collaborating with stakeholders to ensure the successful implementation of the revised standards and accreditation framework.



Ms. Ismat Gull Khattak, Dr. Yousaf Zafar, Mr. Javed Tareen, Dr. Babar E. Bajwa during the validation workshop for Organic Standards and Farmework of Accreditation for Pakistan at Islamabad



PARC Launches Innovative Initiatives to Transform Pakistan's Agricultural Sector

Pakistan Agricultural Research Council (PARC) has always been in a leading role to bring innovation in country's agricultural sector. PARC's new initiatives are making significant contributions to the agricultural sector of Pakistan by introducing innovative technologies and sustainable practices aimed at enhancing crop productivity and resilience. PARC has recently launched an innovative initiative aimed at advancing agricultural practices in Pakistan. One of the major



components of this initiative is the establishment of a speed breeding facility, which is designed to accelerate the breeding process for varietal development of various crops. By significantly reducing the time required developing new plant varieties, this facility aims to provide farmers with access to improved seeds that can adapt to changing climatic conditions and meet the growing demands of the population.

In addition to the speed breeding facility, PARC has also introducing aeroponic technology for seed potato production. This method allows for the cultivation of potatoes in a soil-less environment, utilizing a nutrient-rich mist to promote growth of seed potato. This technology not only increases the efficiency of water and nutrient use but also minimizes the risk of soil-borne diseases, leading to healthier and more robust potato plants.

Furthermore, PARC is committed to developing high-yielding, climate-resilient rice varieties that can withstand the challenges posed by climate change. These new rice strains are being engineered to thrive in diverse environmental conditions, ensuring that farmers can maintain productivity even in the

face of adverse weather patterns. By prioritizing the development of these resilient crops, PARC aims to bolster food security in Pakistan and support the livelihoods of farmers across the country. This comprehensive approach to agricultural advancement not only addresses immediate challenges but also lays the groundwork for sustainable farming practices in the future.

In addition to the aforementioned



initiatives, PARC is also focusing on enhancing the overall agricultural ecosystem by promoting sustainable practices and resource management. In conclusion, PARC's new initiative represents a significant step forward in the quest for agricultural advancements in Pakistan. By combining innovative technologies, sustainable practices, and collaborative efforts, PARC is poised to transform the agricultural landscape, ensuring that it meets the challenges of the present and future.





Dr. Ghulam Muhammad Ali Frame by Frame



Briefing Federal Secretary, MNFS&R on key initiatives



With Prof Dr. Adam Price, University of Aberdeen Scotland in rice field at NARC



Proud moment: Award with the shield of Honor



Inspecting the plants in the Aeroponic Greenhouse.



Proud moment: receiving certificate of excellence



Learning and collaborating



Dr. Ghulam Muhammad Ali working in Laboratory



Alongwith higher management of Pakistan Tobacco Company inaugurating Post Entry Quarantine Facility at NARC



Dr. Ghulam Muhammad Ali Frame by Frame



A gesture of respect: presenting a souvenir (04-11-2015)



A cross cultural exchange: with foreign scientists



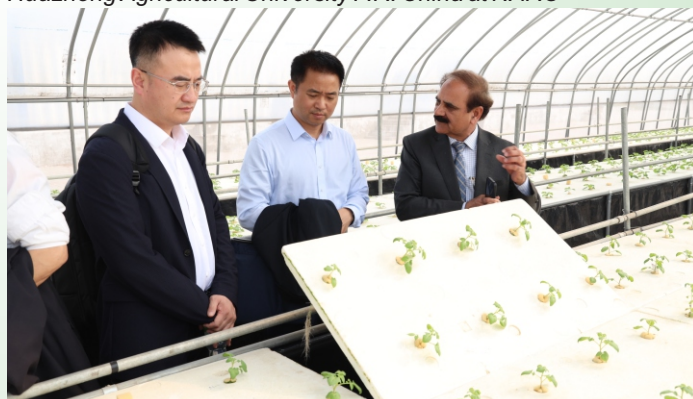
Exploring and Innovating



Exchanging letter of intention with Mr. Li Zhaohu president Huazhong Agricultural University P.R. China at NARC



Media briefing at NIGAB, NARC



Strengthening Ties: Briefing Chinese delegation



Team work



Highlighting research achievements of PARC



Dr. Ghulam Muhammad Ali with High Officials of Pakistan



A group photo with Senate Standing Committee on National Food Security and Research



Presenting Shield to Rana Tanvir Hussain Minister (MNFS&R)



Presenting Shield to Tariq Bashir Cheema Minister (MNFS&R)



Meeting with Dr. Kauser Abdullah Malik, Minister (MNFS&R)



in Aeroponic green house.



Group photo with Fakhar Imam Minister (MNFS&R) and Dr. Zhikang Li at NARC



Alongwith Donald Blome, U.S. Ambassador to Pakistan.



Strengthening Ties Dr. Ghulam Muhammad Ali with Foreign Delegates



Briefing H.E. Donald Blome, U.S. Ambassador to Pakistan at NARC.



Along with H.E. Jane Marriott British High Commissioner to Pakistan



With Australian Diplomat H.E Neil Hawkins at NIGAB Lab



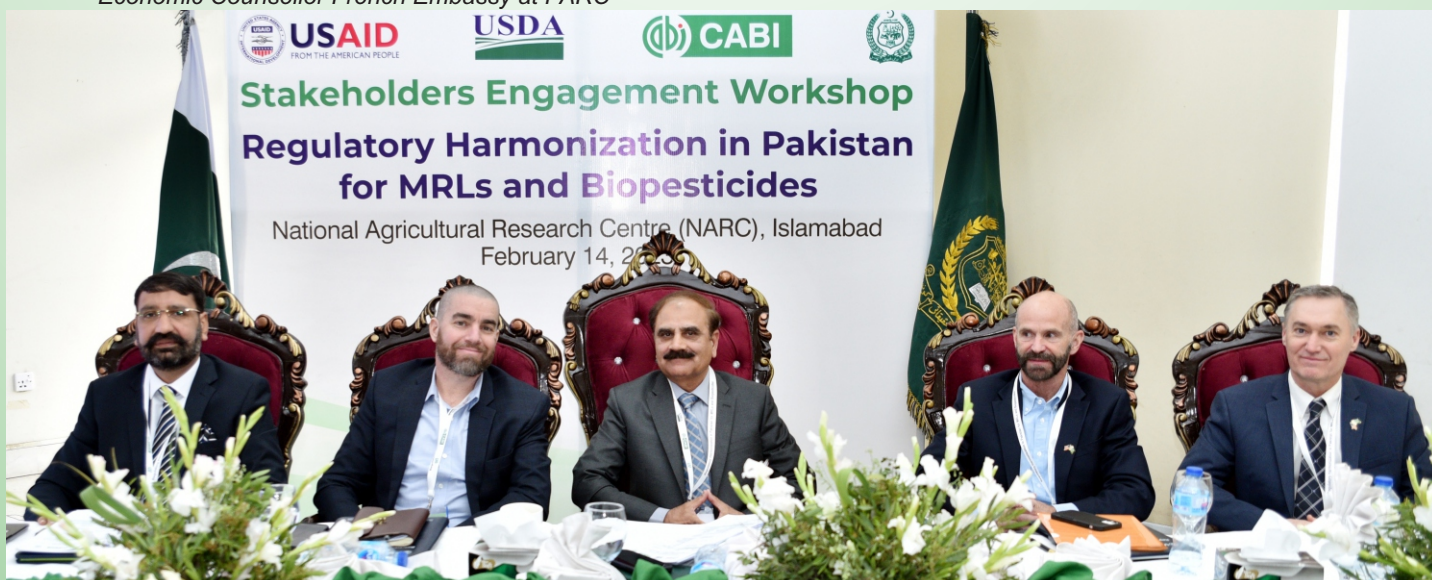
Meeting with Ms. Noriko Sato, ADB



Exchanging farm research views with Luc Boyer, Deputy Economic Counsellor French Embassy at PARC



Meeting with Ms. Florence Rolle, FAO Country Rep Pakistan



Alongwith International Representative during a stakeholders engagement workshop at NARC.