



Citation of the PAS Fellow Elected in 2016

Prof. Dr. Tayyab Husnain

Prof. Dr. Tayyab Husnain, *Izaz-i-Fazeelat, Taghma-e-Imtiaz*, graduated from University of Nottingham (1990) under the supervision of Prof. Edward Cocking. He worked for post-doc research at University of Washington, USA (1993), International Rice Research Institute (IRRI), Philippines (1998), and University of Southampton, UK (2003). He joined the Centre of Excellence in Molecular Biology in 1984 as Lecturer and became Professor and Director in a short span of 25 years. His research has focused predominantly, but not exclusively, on plant and human genetics and molecular biology. He has published 208 research papers in prestigious national and international journals with cumulative impact factor of 337.6. He has supervised 31 PhD students and 50 MPhil students and has developed valuable products. His two double gene Bt cotton varieties (CEMB-33, CA-12) have been approved for commercialization by National Biosafety Committee and Punjab Seed Council. He has been the Principal Investigator of 13 national and 2 international research projects.

Dr. Tayyab Husnain also investigated genetic basis of hearing and vision impairment. As a consequence, he has identified five new linkages and 12 pathological mutations in deafness and blindness

disorders. Among these new loci, GNAT1 has been shown to cause stationary blindness. This is a novel discovery recently published in *Investigative Ophthalmology & Visual Science*. Congenital stationary night blindness is a non-progressive retinal disorder manifesting as impaired night vision. In recognition of his research institutions, he has received research productivity award from the Pakistan Council for Science and Technology for years 2006, 2007 and 2011-2016.

Dr. Tayyab was invited as expert by the Statistical, Economic and Social Research and Training Centre for Islamic Countries (SESRIC) of the Organization of Islamic Cooperation (OIC) in “Cotton Training Programmes” organized in Republic of Sudan on September 27-28, 2016, at CEMB, Pakistan on December 12-16, 2016, and at Iganga, Uganda on May 3-5, 2017.

As Director of Centre of Excellence in Molecular Biology, he achieved an excellent score of producing 101 PhD and 211 MPhil postgraduates. Also, the Centre arranged three international courses and 61 international video conferences symposia/seminars/workshops on application of latest techniques in genetic and molecular biology.