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Research Publications:

[1] *Sadaqat, S., Usmaan, M., Mizna, S. S., Hameed, R., Ajmal, S., Yaqoob, A., ... & Shahid, A. A. TRANSFORMATION AND EXPRESSION OF GENE IN MICROALGAE: FROM TOOLS TO APPLICATIONS.*

[2] *Amat-ur-Rasool, H., Latif, A., Yasmeen, A., Shahid, N., Azam, S., Bashir, A., ... & Shahid, A. A. (2022). Enhanced expression of plasma membrane intrinsic protein 2 improves cotton fiber length in Gossypium arboreum. Molecular Biology Reports, 1-8.Shad, M., Yasmeen, A., Azam, S., Bakhsh, A., Latif, A., Shahid, N., ... & Shahid, A. A. (2021). Enhancing the resilience of transgenic cotton for insect resistance. Molecular Biology Reports, 1-9. (IF2.316)*

[3] *Shakoor, S., Samiullah, T. R., Shahid, N., Rao, A. Q., Yasmeen, A., Tahir, S., ... & Husnain, T. (2021). In Silico Prediction and Evaluation of E. coli Expressed Recombinant HA Protein of Avian Influenza Virus. (IF:0.831)*

[4] *ud Din, S., Azam, S., Rao, A. Q., Shad, M., Ahmed, M., Gul, A., ... & Shahid, A. A. (2021). Development of broad-spectrum and sustainable resistance in cotton against major insects through the combination of Bt and plant lectin genes. Plant Cell Reports, 1-15.(IF:4.570)*

[5] *Gul, A., Hussain, G., Iqbal, A., Rao, A. Q., ud Din, S., Yasmeen, A., Azam, S., ... & Husnain, T. (2020). Constitutive expression of Asparaginase in Gossypium hirsutum triggers insecticidal activity against Bemisia tabaci. Scientific reports, 10(1), 1-11.*
(IF: 4.379)

[6] *Shahid, N., Samiullah, T. R., Shakoor, S., Latif, A., Yasmeen, A., Azam, S., ... & Rao, A. Q. (2020). Early stage development of a Newcastle disease vaccine candidate in corn. Frontiers in Veterinary Science, 7.IF:(3.414)*

[7] Shahid, N., Rao, A. Q., Ahad, A., Gul, A., Latif, A., Azam, S., ... & Husnain, T. (2020). E. coli expression and immunological assessment of expressed recombinant Newcastle disease virus hemagglutinin-neuraminidase protein in chickens. Acta Virologica, 64(3), 331-337.(IF:1.172)

[8] Qamar, Z., Tariq, M., Rehman, T., Iqbal, M. S., Sarwar, M. B., Sharif, M. N., Azam, S., ... & Nasir, I. A. (2019). Trackable CEMB-Klean Cotton Transgenic Technology: Afforadable Climate Neutral Agri-biotech Industrialization for Developing Countries.

[9] Latif, A, Ahmed, A., Akhtar, S., Ahad, A., Iqbal, A., Yaqoob, A., Imran, A., Usmaan, M., Shahid, N., Azam, S., Yasmeen, A., Rehman TS., Cotton Fabre Quality Management for Sustainable Textile Industry ICAC Recorder 2019

[10] Zubair, M., Latif, A., Rao, A. Q., Azam, S., Shahid, N., Samiullah, T. R., ... & Husnain, T. (2019). A combinational approach of enhanced methanol production and double Bt genes for broad spectrum insect resistance in transgenic cotton. Molecular biotechnology, 61(9), 663-673.(IF:2.695)

[11] Yaqoob, A., Shahid, A. A., Salisu, I. B., Azam, S., Ahmed, M., & Rao, A. Q. (2019). Effects of cry toxins on non-target soil bacteria during a 2-year follow up study. Spanish journal of agricultural research, 17(2), 303. (IF:1.238)

[12] Rao, A.Q., Latif, A., Azam, S., Gul, A., Yaqoob, A., Din, S., Akhtar S., Shahid N., Shahid. A.A, Nasir, I.A. and Husnain, T. (2017). Management of Biotic Stress in Cotton. Proceedings and Recommendations of the 7th Meeting of the Asian Cotton Research and. 2017.

[13] Samiullah, T. R., Ali, A., Azam, S., Latif, A., Batool, F., Nasir, I. A., & Husnain, T. (2015). Analysis of Genetically modified BT and cp4EPSPS Cotton cultivars for transformation efficiency, acclimatization, expression and toxic levels to insects. Molecular Plant Breeding, 6.

[14] Babar, Y., Ali, Q., Mahmood, S., Ahmad, A., Ali, A., Samiullah, T. R., Azam, S., ... & Husnain, T. (2015). Correlation analysis for various morphological traits of Chenopodium album, Amaranthus viridis, Anagallis arvensis and Asphodelus tenuifolius.

[15] Rao, A. Q., Khan, M. A. U., Shahid, N., ud Din, S., Gul, A., Muzaffar, A. Saira,... & Husnain, T. (2015). An overview of phytochrome: an important light switch and photo-sensory antenna for regulation of vital functioning of plants. Biologia, 70(10), 1273-1283.(IF:1.370)

[16] Saeed, A., Ali, Q., Qurat-ul-Ain, S., Ali, A., Arfan, A., Samiullah, A. Saira, T. R., ... & Tayyab, H. (2015). Correlation analysis for various morphological traits of Solanum nigrum, Setaria pumila, Leptochloa chinesis, Phalaris minor. Academ Arena, 7(4), 68-73.

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Carthamus oxycantha, Cirsium arvense, Cleome viscose and Convolvulus arvensis. World Rural Observations, 7, 42-46.

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[19] Qurat-ul-Ain Sajid, Q. A., Ahmad, A., Ali, A., Saeed, A., Samiullah, T. R., Azam, S., ... & Ahmad, I. (2015). Study of association among various morphological traits of Paspalum distichum, Marsilea minuta, Vicia sativa and Scirpus meritimus.

[20] Ali, A., Iftikhar, M. S., Majid, M. U., Akram, M. S., Munawar, T., Aleem, M., Azam, S., ... & Husnain, T. (2014). Genes and transcriptional factors in chili plant with aspect to metabolism and resistance against virus, bacteria and fungi: a review. J. Agric. Sci. Tech. B, 4, 509-517.

[21] Ali, Q., Ali, A., Awan, M. F., Tariq, M., Ali, S., Samiullah, T. R., ... & Hussain, T. (2014). Combining ability analysis for various physiological, grain yield and quality traits of Zea mays L. Life Sci J, 11(8s), 540-551.

[22] Ali, A., Iftikhar, M. S., Majid, M. U., Akram, M. S., Munawar, T., Aleem, M., ... & Husnain, T. (2014). Genes and transcriptional factors in chili plant with aspect to metabolism and resistance against virus, bacteria and fungi: a review. J. Agric. Sci. Tech. B, 4, 509-517.

[23] Ali, M. A., Rehman, I., Iqbal, A., Din, S., Rao, A. Q., Latif, A., ... & Husnain, T. (2014). Nanotechnology, a new frontier in Agriculture. Adv life sci, 1(3), 129-138.

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Books Published:

[1] Saira Azam, Z.M Kahlid and Abdul Qayyum Rao. Book published on Enhanced Biodegradation of Paranitrophenol by Pseudomonas sp. Lamber Academic publishing.

Research Projects Completed as (Team Scientist)

[1] Development of transgenic cotton with multiple genes resistant to cotton leaf curl virus working as Scientist in PARB Project to control bollworm, weeds and CLCuV.

[2] *Transformation of gene constructs and genetically-engineered germplasm resources/commercial genotypes resistant to develop cotton leaf curl disease and/or its insect vector working as Scientist in Pak US ICARDA Project to control CLCuV Funded by USDA*