Dr. BUSHRA TABASSUM

Associate Professor, Gold Medalist

School of Biological Sciences, University of the Punjab, Quaid-i-Azam Campus, Lahore

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Academic Qualification	B. Sc.	Botany, Chemistry, Zoology Government Degree College for Women, Jhelum, Pakistan 1998-2000
	M. Sc .	Botany (Genetics) Government College University, Lahore, Pakistan 2000-2002 Supervisor: Dr. Muhammad Saleem Thesis title: Degradation of Agrowaste by <i>Trichoderma viride</i> mutants.
	M.Phil	 Molecular Biology (Seed Biotechnology) CEMB, University of the Punjab, Pakistan 2003-2005 Supervisor: Prof. Dr. Idrees Ahmad Nasir Thesis title: Genetic Variability of in vitro Produced Cucumber Synthetic Seeds through RAPD and AFLP analyses.
	Ph.D.	Molecular Biology (RNA Interference) CEMB University of the Punjab, Pakistan 2007-2012 Supervisor: Prof. Dr. Idrees Ahmad Nasir Co-supervisor:: Prof. Dr. Tayyab Husnain Thesis title: siRNA based gene silencing of potato virus Y.
Research Experience	Job responsibilities inc to produce disease free seed through ELISA an	S-17) cellence in Molecular Biology, University of the Punjab Lahore lude: i)Tissue Culture of potato, chemotherapy and thermotherapy e pre basic seed of potato, ii) Optimized screening tests of potato and RT-PCR and make it available at commercial scale for various s, iii) AFLP analysis of maize inbred and hybrid lines.
	Job responsibilities in viruses, Y, X and PL	a Lecturer (BPS-18) rellence in Molecular Biology, University of the Punjab Lahore iclude: i) siRNA based silencing approaches to control potato RV, ii) VIGS mediated control of sugarcane mosaic virus, iii) acterization of different antifungal genes including chitinase from
	Job responsibilities inc employing dsRNA app generation of fungus to of antifungal genes,	BPS-19) rellence in Molecular Biology, University of the Punjab Lahore clude: i) Development of insect resistant sugarcane and maize by proach and through incorporation of novel insecticidal genes, ii) olerant transgenic potato and sugarcane lines through integration iii) Tissue culture and transformation of three economically potato, sugarcane and maize, iv) development of Bt inbred maize

Associate Professor (TTS) 2020-todate School of Biological Sciences, University of the Punjab Lahore Research Interests include: i) Use of RNAi in control of insect pests of economically important crop plants, ii) Plant protection strategies against biotic and abiotic stresses, iii) Gene pyramiding in transgenic plants for insect control, iv) Plant-pathogen interaction studies through disease pathogenesis.	biotic stresses,
 Research Projects Awarded 1. Team Scientist: Genetic Improvement of Sugarcane for Herbicide and Bo Resistance awarded by <i>Punjab Agricultural Research Board</i> (PARB) Rs.22.148 Million for 2011-16. (PARB 193). Successfully completed 2. Team Scientist: Development & commercialization of indigenous Bt a herbicide tolerant Maize hybrids awarded by <i>Punjab Agricultural Research Board</i> (PARB) at Rs. 22.829 million for 2011-16. (PARB 235). Successfully complete 3. Co-Principal Investigator: Genetic improvement of potato against cold induc sweetening through integration of anti-sweetening gene (s) awarded by <i>Higl Education Commission</i> at Rs.8.192 million, for 2017-2020. (HEC 407 Successfully completed 4. Co-Principal Investigator: Transforming CEMB-PARB-Biotech mai prototype into viable commercial product for sustainable maizz producti awarded by <i>High Education Commission under establishment of technolo development fund</i> (TDF) 2nd call 2017-2018 at Rs.14 million, for 2018-202 (TDF02-169). Successfully completed 5. Co-Principal Investigator: Transformation of Sucrose Isomerase Genes Sugarcane for Boosted Sugar Recovery.' Awarded by HEC at total cost Rs.3902997/ for 2018-2021 (# 7835). In progress 6. Chief Investigator: 'Localization of dsRNA against aphids through chloropl transformation in potato' at cost of 10700 USD awarded by International Scier Foundation (IFS) for year 2019-2021. Completed 7. Team Scientist: 'Genetic improvement of maize lines for insect and gluphosin herbicide tolerance'. Awarded by PARB at a total cost of Rs. 10.00 Million for period of 40 months (year 2019-2022). (Project # 1075). Completed 8. Principal Investigator: Identification and validation of potential doubl stranded Ribonucleic acid (dsRNA) as alternative control measure for Pin Bollworm (<i>Peetinophora gossypiella</i>) in Pakistan. Total cost 0.25 million Rupe awarded by University of the Punjab Lahore for a perio fone year (2022-23). Successfully completed<!--</th--><th> <i>bard</i> (PARB) at leted <i>digenous</i> Bt and <i>l Research Board</i> <i>sfully</i> completed <i>dinst</i> cold induced <i>varded</i> by <i>Higher</i> 0. (HEC 4072). B-Biotech maize <i>naize</i> production <i>production</i> <i>for</i> 2018-2020. <i>nerase</i> Genes in at total cost of <i>rough</i> chloroplast <i>crnational</i> Science <i>and</i> gluphosinate 0.00 Million for a ted <i>otential</i> double- <i>easure</i> for Pink <i>smillion</i> Rupees <i>year</i> (2021-22). NAi targets in d (ds)RNA. Total </th>	 <i>bard</i> (PARB) at leted <i>digenous</i> Bt and <i>l Research Board</i> <i>sfully</i> completed <i>dinst</i> cold induced <i>varded</i> by <i>Higher</i> 0. (HEC 4072). B-Biotech maize <i>naize</i> production <i>production</i> <i>for</i> 2018-2020. <i>nerase</i> Genes in at total cost of <i>rough</i> chloroplast <i>crnational</i> Science <i>and</i> gluphosinate 0.00 Million for a ted <i>otential</i> double- <i>easure</i> for Pink <i>smillion</i> Rupees <i>year</i> (2021-22). NAi targets in d (ds)RNA. Total

Publications	Interna	ational Publications
1 ubications		Publications 81; Total Impact Factor: >150 (Average impact factor per article Google Scholar Total citation: >1329 Google Scholar h-index: 19, i10-index: 34.
	S. No	Publications
	1.	Yousaf I, Tabassum B* , Jabbar B, Amjad MA, Qaisar U, Khan A, Khalid R, Adeyinka OS, and Nasir IA (2024). Efficacy of arginine kinase as a promising RNAi target in Aphis gossypii genome as revealed through aphid bioassay on field-grown transgenic cotton plants. Journal of Plant Protection Research.
	2.	https://doi.org/10.24425/jppr.2024.151257 Toufiq N, Adeyinka OS, Khan A, Shafique S, Jahan N, Bhatti MU, Khalid R, Naeem A, Abbas Q, Shafique S, Tabassum B* . 2024. Multiple Transgenic Strategies Positively Regulate Cold-Induced Sweetening in Low Temperature Stored Potato Tubers. Potato Research. 13:1-20.
	3.	Tabassum N, Shafiq M, Fatima S, Tahir S, Tabassum B , Ali Q, Javed MA. 2024. Genome-wide in-silico analysis of ethylene biosynthesis gene family in <i>Musa</i> <i>acuminata</i> L. and their response under nutrient stress. Scientific Reports 14, 558. https://doi.org/10.1038/s41598-023-51075-3
	4.	Akram, J., Siddique, R., Shafiq, M. Tabassum B , Manzoor MT, Javed MA, Anwar S, Nisa B, Saleem MH, Javed B, Malik T, Mustafa AEZMA, Ali B. Genome-wide identification of CCO gene family in cucumber (<i>Cucumis sativus</i>) and its comparative analysis with A. thaliana. BMC Plant Biology 23, 640 (2023). https://doi.org/10.1186/s12870-023-04647-4
	5.	Agha SI, Maghfoor Ullah, Khan A, Jahan N, Ullah SM, Tabassum B , Parveen S, Rehmat Z, Hussain A, Ahmed S, Hamdard MH. 2023. Biocontrol rhizobacteria enhances growth and yield of wheat (<i>Triticum aestivum</i>) under field conditions against <i>Fusarium oxysporum</i> . Bioengineering. 14:1, 2260923. DOI: 10.1080/21655979.2023.2260923
	6.	Adeyinka OS, Nasir IA, Tabassum B . 2023. Host-induced silencing of CpCHI gene occasioned developmental abnormalities and mortality in Maize stem borer (<i>Chilo partellus</i>). Plos One. https://doi.org/10.1371/journal.pone.0280963.
	7.	Bhatti MU, Tabassum B *, Berry C, Khan A, Qaisar U, Ali E, Khalid R, Farooq AM, Tariq M, Ayaz H. 2023. Transgenic maize inbred lines expressing high levels of <i>Bacillus thuringenesis</i> vegetative insecticidal (Vip3A) toxin offer effective control of maize stem borer (<i>Chilo partellus</i>). Plant cell tissue & organ culture. DOI: 10.1007/s11240-023-02483-w.
	8.	Adeyinka OS, Tabassum B , Koloko BL, Ifedayo Victor Ogungbe IV. 2023. Enhancing the Quality of Staple Food Crops through CRISPR/Cas-Mediated Site- Directed Mutagenesis. Planta. 257(4):78.doi: 10.1007/s00425-023-04110-6.
	9.	Yousaf S, Rehman T, Tabassum B , Aftab F and Qaisar U. 2023. Genome scale analysis of 1- aminocyclopropane-1-carboxylate oxidase gene family in <i>G</i> . <i>barbadense</i> and its functions in cotton fiber development. Scientific Reports. 3:4004. <u>https://doi.org/10.1038/s41598-023-30071-7</u>
	10.	Shafique S, Shafique S, Attia U, Tabassum B , Akhtar N, Naeem A, Abbas Q. 2023. Management of Mung Bean leaf spot disease caused by <i>Phoma herbarum</i> through <i>Penicillium janczewskii</i> metabolites mediated by MAPK signaling cascade. Scientific Reports. 13:3606. <u>https://doi.org/10.1038/s41598-023-30709-6</u>
	11.	Parveen, S.; Khan, A.; Jahan, N.; Aaliya, K.; Muzaffar, A.; Tabassum, B .; Inayatullah, S.; Moeezullah, S.; Tariq, M.; Rehmat, Z.; Ali, N.; Hussain, A. 2023. Expression of Chitinase and shRNA Gene Exhibits Resistance to Fungi and Virus. Genes <i>14</i> , 1090. <u>https://doi.org/10.3390/genes14051090</u>
	12.	Moeezullah S, Khan A, Jahan N, Tabassum B , Agha I, Parveen S, Tariq M,

 Rehmat Z, Kasi N. 2023. The development of cost effective 100 base pair prototype DNA ladder using polymerase chain reaction. Adv. Itile sci., vol. 10, no. 1, pp. 61-65 Jaham N, Javed MA, Khm A, Tabassum B, Agha SL, Parveen S, Muzaffar N. 2022. Multiple interval mapping of QTLs and epistasis for Fc2+ toxicity tolerance in segregating population of Indica rice. Notake Botanicae Hort Agrobotanci (Clu)-Napoca. 50 (4): 12773. Tariq M, Tabassum B, Bakhsh A. et al. 2022. Heterologous expression of Yulla2 insecticidal gene in cotton encodes resistance against pink bollworm. <i>Pectinophora gossypiella</i> (Lepidoptera: Gelechidae); an alternate insecticidal gene for insect pest management. Molecular Biology Reports. Doi: https://doi.org/10.1007/s1103-022-07824-0 Javed Z, Larab F, Ahmed S, Ali A, Tabassum B, Farooq AM, Tariq^a M, Asmatullah, Nasir IA. Potential effects of CEMB Bt corn on immunology and hormonal metabolism in Broiler chicken. 2022. International Journal of Agriculture and Biology. DOI: 10.1789/TJAB/151.986. Rehman T, Tabassum B, Yousaf S, Sarwar G and Quisar U. 2022. Consequences of drought stress encountered during seeding stage on physiology and yield of cultivated cotton. Frontiers in Plant Science. doi: 10.3389/Tpls.2022.90444. Murtuza S, Tariq M, Yousaf I. Rize S, Jabbar B. Nasir IA. Tabassum B'. 2022. Silencing a <i>Myzas persicae</i> Macrophage inhibitory factor by plant-mediated RNA1 induces enhanced aphid mortality coupled with boosted RNA1 efficacy in transgenic potton lines. Molecular Biotechnology.https://doi.org/10.1007/s1203-022-00084-3 Agha SF, Parveen S; Azeem S; Tabassum B; Jahan N; Ullah H; Ullah M; Agha SM; Raza AM; Khan A. 2022. Characterization of lectin from <i>Chenopoliun distum. Journal of Toxicius astributicus durity of Bacillus velezonis</i> against <i>Fusarium orsystemis on Triteum aestributicus of lecting fon Chenopoliun distum. Journal of Toxicius and Pyto-pathogenic fung. Revista Argentina dibum. Jou</i>		
 I. pp. 61-65 Jahan N., Javed M.A., Khan A., Tabassum B., Agha S.I., Parveen S., Muzaffar N. 2022. Multiple interval mapping of QTLs and epistasis for Fc2+ toxicity tolerance in segregating population of Indica rice. Notulae Botanicae Horit Agrobotanici Cuji-Napoca. 50 (4): 1273. Tariq M, Tabassum B, Bakhsh A. et al. 2022. Heterologous expression of "Cy1la12 insecticidal gene in cotton encodes resistance against pink bollworm. <i>Pectinophora gossypiella</i> (Lepidoptera: Gelechidae): an alternate insecticidal gene for insect pest management. Molecular Biology Reports. Doi: https://doi.org/10.1007/s11033-022-07824-0 Javed Z, Laraib F. Ahmed S, Ali A, Tabassum B, Farooq AM, Tariq* M. Asmatullah, Nasir IA. Potendtal effects of CEMB Bt corn on immunology and hormonal metabolism in Broiler chicken. 2022. International Journal of Agriculture and Biology. DOI: 10.1795/1144/815.1986. Rohman T, Tabassum B, Yousaf S, Sarwar G and Quisar U. 2022. Consequences: of drought stress encountered during seedling stage on physiology and yield of cultivated cotton. Frontiers in Plant Science. doi: 10.3389/lpls.2022.906444. Murtaza S, Tariq M, Yousaf I, Riaz S, Jabbar B, Nasir IA, Tabassum B'. 2022. Silencing a Myzus persicae Macrophage inhibitory factor by plant-mediated RNAi induces enhanced aphid mortality coupled with boosted RNAi efficacy in transgenic potato lines. Molecular Biotechnology.https://doi.org/10.1007/s12033-022-04098-w Agha SI; Parveen S; Azeem S; Tabassum B; Jahan N; Ullah H; Ullah M; Agha SG, Razea AM; Khan A. 2022. Antifungal activity of <i>Bacillus velezensis</i> against <i>Fusarium oxyporum on Triticum aestivum</i> in green house condition. Notulae Botanicae Horti Agrobotanici Cluj-Napoca. 50(1):12590. DOI:10.15835/tobha50112500 Javed M, Shan, A. 2022. Characterization of locin from <i>Chenopodium album</i>. Journal of Proteins and Proteomics. https://doi.org/10.1007/s142485-022-00084-3 Azeem, S., Agha, S.I., Jami		Rehmat Z, Kasi N. 2023. The development of cost effective 100 base pair
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50.	B *.2020. Resistance to <i>Chilo infuscatellus</i> (Lepidoptera: Pyraloidea) in
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21	Awan MF, Iqbal MS, Sharif MN, Tabassum B, Tariq M, Murtaza S, Ali S,
31.	Raza A, Bukhari SAR, Idrees Ahamd Nasir IA. 2019. Evaluation of genotypic
	and hormone mediated callus induction and regeneration in sugarcane
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	Adeyinka OS, Tabassum B*, Nasir IA, Yousaf I, Sajid IA, Shehzad K, Bacho A
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	effective dsRNA knockdown analysis in <i>Chilo partellus</i> . Scientific Reports
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70.	Viability assessment of in-vitro produced synthetic seeds of cucumber. African
	Journal of Biotechnology. 9 (28):7026-7032.

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National Publications

SNo	Publications
1.	Tabassum B , Saleem M, Kausar T. (2003). Biodegradation of agrowaste by <i>trichoderma viride</i> mutants. Science International-Lahore. 15(1): 97-101
2.	Nasir, I. A., Tabassum, B., Haider, M. S. and Javed, M. A. Husnain, T. (2010). Strategies to control Potato Virus Y under in vitro conditions. Pakistan J. Phytopath. 22 (1):63-70.
3.	Farooq, A. M., Bushra, T. , Nasir, I. A. and Husnain, T. (2010). Androgenesis induction, Callogenesis, Regeneration and Cytogenetic studies of tomato haploid. Journal of Agri. Research. 48 (4):457-47
4.	Zameer M, Mahmood S, Mushtaq Z, Tabassum B, Ali Q, et al. (2015). Detection of bacterial load in drinking water samples by 16s rRNA ribotyping and RAPE analysis. Adv. Life Sci. 2(3). pp: 135-141.
5.	Ahmed, S., Nasir, I.A., Yaqub, T., Waseem, M., Tabassum, B. , Masood, F. Khan, A., Butt, S.J. and Husnain, T. 2013. Molecular detection, phylogenetic analysis and designing of siRNA against Potato Virus X. Advancement in Life Sciences, 1(1): 37-44.
6.	Dar, A.I., Saleem, F., Ahmad, M., Tari, M., Khan, A., Ali, A., Tabassum, B ., Ali Q., Khan, G.A., Rashid, B., Nasir, I.A., Husnain, T. 2014. Characterization and efficiency assessment of PGPR for enhancement of rice (Oryza sativa L.) yield Advancement in Life Sciences. 2(1): 38-45.
7.	Bhatti MU, Riaz HA, Tabassum B* , Toufiq N, Khan A, Tariq M, Yousaf I, Sajid IA, Shahid M and Zameer M. 2018. Epigenetics: Quest for no-escape to HIV, a Persistent Pathogen. Pakistan Journal of Pharmaceutical Sciences. 31(5): 2011-2016.
8.	Z Qamar, M Tariq, T Rehman, MS Iqbal, MB Sarwar, MN Sharif, Z Hassan Tabassum B , et al. 2019. Trackable CEMB-Klean Cotton Transgenio Technology: Affordable Climate Neutral Agri-biotech Industrialization for Developing Countries. Advancements in Life Sciences 6 (3): 131-138.

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	11.	Analysis of Ch	assum , AM Farooq, M Tariq, IA Nasir, T Hussnain. 2019. I enopodium murale extract for resistance against potato v. d Biology (PAB) 8 (2), 1172-1181.	
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	15.	Cadherin and v- through in-vitro	5, Tabassum B , Qaisar U, Nasir IA. 2024. Mutational anal ATPase genes in Pink Bollworm and resistance towards Bt insect feeding assay. Pakistan Journal of Zoology. 1-6 g/10.17582/journal.pjz/20230822091117.	cotton
		napters – Inte ic Publishers)	rnational (All publishers recognized as per Sense l	Ranking of
	C I H 2	Genetics and M Interference Co Francesca Petro	Nasir, I. A., Aslam, U. and Husnain, T. (2012). Bio olecular Biology » "Functional Genomics". Chapter 6 ombat Viruses in Plants. P: 113-130. Germana M era (Eds), ISBN 978-953-51-0727-9, Published: Sep BY 3.0 license InTech JanezaTrdine 9, 51000 Rijek 772//51870.	How RNA Ieroni and tember 12,
	S f	Sugarcane Prod for stress toler	Nasir, I. A. and Husnain, T. (2017). Biotechnology a uctivity and Stress Tolerance'. Chapter 4 Bio Technic ant sugarcane, Kalpana Sengar (Ed). ISBN 97814 ch, (2018) under CC BY Taylor & Francis.	ques: Quest
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	H C N	Potential biofue Omics approach MA, Habyarin	omro SN, Syed S, Hassan S, Tabassum B (2023) Co el resources for sustainable environment. In: Biotech nes for Bioenergy crops edited by Aasim M, Baloch F nana E, Ahmed S, Chung G. (eds). Springer, 0.1007/978-981-99-4954-0	nology and S, Nadeem
Patents	National	Patents		
	S.No	Application No. and Date	Author/ Title	Patent No.

	1.	157/2017	Tabassum B , Nasir IA and Husnain T (2017). Novel transgenic approach to decrease cost of potato	In process
	2.	242/2017	production in Pakistan. Farooq AM, Nasir IA, Tabassum B and Husnain T (2017). Development of CEMB transgenic Maize	In process
	3.	169/2018	inbred lines. Nasir IA, Tabassum B and Husnain T (2018). A novel technique to enhance sugar recovery in Pakistani Sugarcane.	In process
	4.	59/2020	Tabassum B, Nasir IA and Husnain T (2019). Development of transgenic sugarcane for insect resistance.	In process
National Meetings	1.	National Bio-I (2006.)	Forum at Centre of Excellence in Molecular Biolog	y, Lahore,
	2.		Forum BINASIA-Pakistan National Workshop" or llence in Molecular Biology, Lahore, (Mar, 11-12), 200	•
	3.	National Bio-I (2008.)	Forum at Centre of Excellence in Molecular Biolog	gy, Lahore,
	5. 6. 7. 8. 9.	at Centre of Ex Attended Micr in Molecular B Attended 3rd I Punjab Lahore Attended two Transgenics fo CEMB in colla of ICARDA or Attended ICGI 2016. Attended Natio June 2, 2016. F	ymposium on Biotechnology applications in new emer- cellence in Molecular Biology, (Dec. 2010). oarray for gene Function' workshop held at Centre of iology, Lahore, 2013. Invention to Innovation Summit 2014' held at Univer- on March 19-20, 2014. days training workshop on 'The Development and or Cotton Leaf Curl Virus (CLCuV) Disease Resistan boration with Pak-US Cotton Productivity Enhanceme a March, 18-19, 2014. EB Course on "Basic Biotechnology Techniques" Ma onal Workshop on "CRISPR/Cas9 Genome Editing Te Held at CEMB in collaboration with NAYS. Lahore-Pal	Excellence rsity of the Testing of ce' held at nt Program arch 07-09, chnology", cistan.
	11. 12.	March 20-21, 2 Attended a 2 Property Syster by Office of Re with IPO-Pakis Training on 'I CEMB by Ge Microbiology a A three day	national Conference on "Bioethics: Ethics in Challengi 2017. Held at University of Health Sciences, Lahore-Pa day workshop on 'Patent Filing and Introduction to m of Pakistan' on May, 17—18 held at Punjab Univer- esearch Innovation & Commercialization (ORIC) in co stan. Bahavioral Based Biosafety Culture', 23 August, 20 ull's Foundation in collaboration with American S and Health Security partners, Pakistan. workshop on 'Advances in Agricultural Biotech fairs', September 25-27, 2017. Forman Christine Colleg	kistan. Intellectual sity Lahore ollaboration 17 held at Society for
	14.		lay International Workshop on 'DNA Barcoding (Barc , December 20, 2017. A joint venture of Governme	

	University Lahore and University of Guelph, ON, Canada.
	15. Jury Member "Photo contest 2017 entitled "Science in Nature"." organized by Gull's Association at University of the Punjab, Lahore, (2017).
	16. Jury Member for Assay Competition on "Emerging trends in Science and Technology organized by Gull's Association at University of the Punjab, Lahore, (2017).
	17. Participated in workshop on 'Dual Use Research of Concern (DURC) Workshop' organized by Health Security Partners, USA and GULL'S Association at CEMB, University of the Punjab (2018).
	 Attended one day Seminar on 'Risk Assessment of Genetically Modified (GM) Crops', July 20, 2018. A joint venture of Gull's Association and American Society of Plant Biologists at CEMB, University of the Punjab.
	19. Participated in a two day workshop on 'Protein structure analysis & Computer Aided Drug designing' organized by GULL'S Association at CEMB, University of the Punjab on September 28, 2018.
	20. Participated in Invention to Innovation summit held at CEMB on November 6-8, 2019
	21. Participated in a two-day workshop entitled 'Hands on Training Workshop on CRISPR/Cas Genome Editing Technology' held on 29-30, 2019 at CEMB, University of the Punjab.
	22. Participated in National Dialogue on 'Ag-Biotech for Food Security & Capacity Building of Bio-safety Regulators' held at COMSTECH Islamabad on December 11-12, 2019.
	23. Participated in the Workshop "Make your Research Life Easier with Mendeley Tool" on 06 September 2020 organized by Pakistan Scientific and Technological Information Centre (PASTIC), Quai-e-Azam University Campus Islamabad.
	24. Participated in 1st International Conference on Bioinformatics & Computational Methods in Post Genomic Era 9-10th Nov, 2021 organized by Virtual University of Pakistan. November, 9-10, 2021.
	25. Certificate of attendance webinar 'Dissecting the scholarly publishing process-A current overview on the steps to getting published. Organized by WILEY on 26 th Jan, 2022.
International Meetings	 7th International Molecular Biology and Biotechnology Congress 25-27 April 2018. Konya-Turkey.
Approved Supervisor	Ph.D Supervisor Approved by the Higher Education Commission, Islamabad.
Invited Lectures	 Three day workshop on 'Advances in Agricultural Biotechnology & Regulatory Affairs', September 25-27, 2017. Forman Christine College, Lahore-Pakistan.
	2. Delivered a lecture on Basic Biotechnology Techniques in an ICGEB Course,

	March 07-09, 2016.
	 Delivered a lecture in a course, "Microarray for gene Function' workshop held at Centre of Excellence in Molecular Biology, Lahore, 2013).
Teaching Courses	Molecular Biology; Plant Virology and Plant Production & Protection, Functional genomics, Frontiers in Molecular Biology I, Cloning and Gene expression modules, Functional Genomics.
Chair	Chair 'Plant Molecular Biology session at 7th International Molecular Biology and Biotechnology Congress 25-27 April 2018. Konya-Turkey
Research	Research Thesis Supervised
Supervision of M. Phil Thesis	1. Zunaira Sher (2012). Transformation and Expression Studies of Pathogen Derived and RNAi Based Constructs in Potato.
	2. Nida Toufiq (2015). Isolation and expression of Chitinase gene 1a from Barley (<i>Hordeum vulgare</i>).
	3. Muhammad Umar Bhatti (2015). Characterization and expression studies of Argonaute gene (Ago I) from Barley (<i>Hordeum vulgare</i>).
	4. Muhammad Saleem Iqbal Khan (2016). Cloning and expression of <i>Trichoderma harzianum</i> derived chitinase gene in <i>Pichia pastoris</i> .
	5. Imtiaz Ahmad Sajid (2016). Post transcriptional gene silencing of Potato Virus X in <i>Solanum tuberosum</i> .
	6. Neelam Fatima (2017). Cloning and transformation of fungal chitinase in <i>Solanum tuberosum</i> .
	7. Momina Malik (2017). Generation of transgenic potato with anti-sweetening gene under influence of cold inducible promoter.
	8. Fareeha Nosheen (2017). Silencing potential of shRNA in Potato Virus X gene knockdown in transient transfection assay.
	9. Bisma Bashir (2018). Cloning and transformation of anti-sweetening gene in Potato (<i>Solanum tuberosum</i>).
	10. Iqra Arif (2018). Molecular analysis of transgenic potato lines with delayed sweetening gene expressed under cold inducible promoter for reducing sugars.
	11. Quratulain Kokab (2019). Expression analysis of double Bt genes in CEMB transgenic maize inbred lines.
	12. Kanza Sadiq (2019). Molecular studies of transformed sugarcane lines for Sucrose Isomerase gene insertion and expression.
	13. Hafiz Muhammad Umar (2019). Cloning and transformation of grape derived chitinase gene in potato.
	14. Sibgha Malik. 2019. Expression Studies of Aminopeptidase Recombinant Protein in Prokaryotic Expression System.

	15. Amna Mir. 2019. Expression Studies of <i>Chilo partellus</i> derived Acetylcholine Recombinant Protein in Prokaryotic Expression System.
	16. Summaya Fatima. 2019. Cloning and expression of recombinant <i>Allium sativum Leaf Agglutinin</i> (ASAL) gene in <i>E.coli</i> .
	 Tayyaba Munir. (2020). Phylogenetic Analysis of Coat Protein gene of Potato Virus X from a Pakistani Isolate.
	 Ammara Ghous. (2020). Molecular screening of insect resistant transgenic sugarcane V2 progeny.
	19. Shaheen Akhtar. (2020). Validation of potential reference gene for Cadherin synthase transcript expression analysis across developmental stages of Pink bollworm.
	20. Kahkishan Khalid. (2020). Transformation and expression studies of chitinase gene in transgenic potato lines.
	21. Amna Irshad. 2020. Transformation of triple gene binary construct in potato.
	22. Hafiz Muhammad Mubeen (2021). Double stranded (ds)RNA based gene silencing in dusky cotton bug.
	 Rabia Mahmood (2021). Knockdown of Potential RNAi targets in DCB through dsRNA in In-vitro feeding assay.
	24. Waqas Yousaf (2022). Identification of suitable reference gene in potato for RT- qPCR analyses during low temperature stress.
	25. Hassan Ayaz (2022). Potential of Bacillus species to control Fusarium wilt and leaf spot diseases in spinach.
	26. Muhammad Faiq Irfan (2022). Expression of defense related genes against post infection by the pathogenic fungi in spinach.
	27. Shahbaz Ahmed (2023). Screening of dsRNA against functional genes in maize stem borer through transient transfection assays.
	28. Muhammad Zubair Maqsood (2023). Impact assessment of plant growth promoting Rhizobacteria (Bacillus species) on growth and yield of Soybean (<i>Glycine max</i>).
	29. Alina Qayyum (2024). Characterization and expression analysis of ELO gene in Soybean across developmental stages.
Research	Research Scholars Currently Enrolled
Supervision of Ph.D Thesis	 Adeyinka Olawale Samuel. TWAS fellow (2020). Investigation of potential double stranded Ribonucleic Acid (dsRNA) as alternate control measure for Maize stem borers (<i>Chilo partellus</i>).

	2. Muhammad Umar Bhatti (2020). Genetic Improvement of <i>Zea Mays</i> to Control Lepidopteran and Hemipteran Pests.
	3. Saman Riaz (2021). Expression Studies of Modified Vip3A and ASAL Genes in Sugarcane.
	4. Shahid Murtaza (2022). Multiple Transgenic Strategies to Control <i>Myzus persicae</i> transmitted Potato Leaf Roll Virus in Potato.
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