

Department of Botany

Dr. Zarrin Fatima Rizvi (Assistant Professor, Director ORIC)

Sr. #	Research/ Review Paper/s	Status
1	Muhammad Zahid Kiani, Tariq Sultan, Arshad Ali and Zarrin Fatima Rizvi (2016). Application of ACC-Deaminase Containing PGPR improve sunflower yield under natural salinity stress. Pak. J. Bot., 48(1): 53-56, 2016.	Published
2	AmanUllah 1, BushraMirza, Zarrin Fatima Rizvi , Muhammad Zia (2016). Agrobacterium tumefaciens-mediated genetic transformation of Artemisia dubia with rolA gene and production of artemisinin and its derivatives. Accepted Pak. J. Bot. 48(2): 699-706.	Published
3	SyedaNasreen, MehwishIshaque, SalimUd Din, M. Arshad, Akbar Shah Mohmand and Zarrin Fatima Rizvi . Response of Sunflower (<i>Helianthus Annuus</i> L.) To various pre-germination techniques for breaking seed dormancy (2015). Pak J Bot. Volume No. 47(2): 413-416. (IF 1.207).	Published
4	Riaz-ur-Rehman, Muhammad FayyazChaudhary, Zarrin Fatima Rizvi , IhsanulHaq, Muhammad Zia. (2014). In Vitro Propagation of Chungah (<i>Carallumatuberculata</i> N. E. Brown).Pak. J. Bot., 46(6): 2189-2194, 201 (IF 1.207).	Published
5	Zarrin Fatima Rizvi , RabiaMukhtar, M. FayyazChaudhary and Muhammad Zia. (2013). Antibacterial and antifungal activities of LawsoniaIntermis, Lantana Camaraand SwertiaAngustifolia.45(1): 275-278, Pak. J. Bot.(IF 1.207).	Published
6	Abdul Ghafoor, Tayyaba Sultana and Zarrin Fatima . (2012). Genetic Diversity in BlackgramVignaMung (L.) Herper] for Randomly Amplified Polymorphic DNA (RAPD) MARKERS. 44(2): pp 473-478. Feb. 2012 Pak J. Bot. (IF 1.207).	Published
7	SyedaNasreen, Zarrin Fatima , MehwishIshaque, Muhammad Rashid Khan, M FayyazChaudhary. (2011). Heritability analysis for seed yield and yield related components in sunflower (<i>Helianthus annuus L.</i>) based on genetic difference. Pak J. Bot.43(2): 1295-1306.(IF 1.207)	Published
8	Muhammad Zia, Zarrin Fatima Rizvi , Riaz-ur-Rehman, MFayyazChaudhary(2010)Agrobacterium mediated transformation of soybean (<i>Glycine max L.</i>): Some conditions standardization. Pak. J. Bot. Volume 42(4), pp 2269-2279. (IF 1.207).	Published
9	Tayyaba Sultana, Zarrin Fatima and Abdul Ghafoor(2010). Identification of elite pure-lines	Published

	from local lentil germplasm using diversity index based on quantitative traits. Pak. J. Bot. Volume No. 42(4): pp 2249-2256. (IF 1.207)	
10	Muhammad Zia, Z. F. Rizvi , Riaz-ur-Rehman, M. FayyazChaudhary(2010). Short communication. Micropropagation of two Pakistani soybean (<i>Glycin max L.</i>) cultivars from mature seeds cotyledon nodes. Spanish journal of agricultural research. Vol. 8(2) pp 448-453 (IF 0.646).	Published
11	Zarrin Fatima , MehmoodaSaleemi, Muhammad Zia, Tariq Sultan, Muhammad Aslam, Muhammad FayyazChaudhary. (2009). Antifungal Activity of PGPRs against <i>Rhizoctoniasolani</i> in wheat. African Journal of Biotechnology Vol. 8 (2), pp. 219-225, 19 January, 2009 (IF 0.654).	Published
12	SadiaSarwar, Riaz-ur-Rehman, Zarrin Fatima , Muhammad Zia, Muhammad FayyazChaudhary, (2009).Axillary and adventitious shoot regeneration of <i>Menthapiperita</i> on half strength MS medium. African Journal of Biotechnology Vol. 8 (18), pp. 4667-4671, 15 September, 2009 (IF 0.654).	Published
13	Sabz Ali Khan, Hamid Rashid, ZubaidaChaudhary, Zarrin Fatima ,SadarUddinSiddiqui and M. FayyazChaudhary. (2009) "Effect of cytokinins on shoot multiplication in three elite sugarcane varieties"Pak. J. Bot., 41(4): 1651-1658, .(IF 1.207).	Published
14	Zarrin Fatima , Asghari Bano, RiazSial and M. Aslam(2008). Response of chickpea to plant growth regulators on nitrogen fixation and yield"Pak. J. Bot., 40(5): 2005-2013, 2008 (IF 1.207)	Published
15	Nighat Fatima, Muhammad Zia, Riaz-ur-Rehman, Zarrin Fatima Rizvi , BushraMirza, M FayyazChaudhary, (2009). Biological activities of <i>RumexdentatusL</i> : Evaluation of methanol and hexane extracts".African Journal of Biotechnology Vol. 8 (24), pp. 6945-6951, 15 December, 2009(IF 0.654).	Published
16	ZarrinFaima , M. Aslam and AsghariBano(2008). Chickpeanitrogen fixation increased production of subsequent crop in rain fed system. Pak. J. Bot.40 (1): 369-376, .(IF 1.207).	Published
17	Zarrin Fatima , Muhammad Zia and M. FayyazChaudhary(2007). Interactive effect of <i>Rhizobium</i> strains and P on soybean yield, nitrogen fixation and on soil fertility. Pak. J. Bot. 39. (1): 255-264 (IF 1.207).	Published
18	Zarrin Fatima , Muhammad Zia and M. FayyazChaudhary(2006).Effect of <i>Rhizobium</i> strains and Phosphorus on growth of soybean (<i>Glycine Max</i>) and survival of <i>Rhizobium</i> and P	Published

	solubilization bacteria. Pak. J. Bot. 38 (2): 459-464 (IF 1.207).	
19	ZarrinFaima and AsghariBano(1999). The effect of plant growth regulators and temperature shock on IAA- Oxidase activity and endogenous ABA levels. Pakistan Journal of Biological Sciences, 2 (4): 1601-1603.	Published
20	ZarrinFaima and AsghariBano(1998). Effect of seed treatments with growth hormones and <i>Rhizobium</i> on oil contents, Nitrogen fixation and yield of soybean. Pak. J. Bot. 30 (1): 83-86. (IF 1.207).	Published
21	ZarrinFaima , AsghariBano and M. Aslam(1996). Effect of Growth regulatorsand <i>Rhizobium</i> inoculumon chickpea. Proceedings of 7 th International Symposium on Nitrogen Fixation with Non legumes, held 16-21 October 1996 in Faisalabad, Pakistan. Lower Academic Publishers, Printed in Great Britain. Editor by: Kausar A. Malik, M. SajjadMirza and J.K. Ladha	Published

Sr. #	Abstracts Published in Conferences
1	Zarrin Fatima Rizvi, Sobialkram and Surya P Bhattarai. Implementation of Cost Effective Techniques for Wastewater Treatment. Sustainable Water Management Conference from the 29 November to the 3 December 2015. Date. Location: Murdoch University, Perth, Western Australia. Perth. Accepted for oral presentation
2	Saadialshaq, Zarrin Fatima Rizvi , Imran Hashmi and Shaukat. 2012. The effect of high concentration of Methyl Parathion at various temperature and pH values on growth of Pseudomonas IES-PS-1. 12 th National & 3 rd International Conference of Botany. Quad-i-Azam University Islamabad, Pakistan. Sept 1-3 2012.
3	ShafiqueQadirMemon, Muhammad Safar Marjat, NadeemAmjad, Zarrin Fatima and Abdul Qadir Mughal. 2012. Evaluation the energy and maize yield parameters for different tillage system in Islamabad, Pakistan. SAARC Regional Conference on New Frontier in Agricultural Genomics and Biotechnology, June5-7, 2012, Marriott Hotel Islamabad.
4	Riaz-ur-Rehman, Muhammad Zia, Zarrin Fatima Rizvi , and Muhammad FayyazChaudhary. 2012. Direct shoot regeneration of <i>Carallumatuberculata</i> (N.E Brown) from shoot tip and meristem explants. SAARC Regional Conference on New Frontier in Agricultural Genomics and Biotechnology, June 5-7, 2012 , Marriott Hotel Islamabad.

5	Riaz Ahmad Sial, FidaHussain, NisarHussain, Zarrin Fatima and Muhammad Zia. 2010. Impact of micronutrients to improve the grain yield of wheat. Soil Science Society of PAKISTAN at Serena Hotel Faisalabad on 25/3/10.
6	Zarrin Fatima , Muhammad Zia and M. FayyazChaudhary (2006). Paper presented in International symposium on Plant Sciences held at G.C. University Faisalabad from March 20-22, 2006.
7	Zarrin Fatima , AsghariBano and M. Aslam (1996).Effect of Growth regulators and Rhizobium inoculum on chickpea. Proceedings of 7th International Symposium on Nitrogen Fixation with Non legumes, held 16-21 October 1996 in Faisalabad, Pakistan. Lower Academic Publishers, Printed in Great Britain. Editor by: Kausar A. Malik, M. SajjadMirza and J.K. Ladha.

Dr. Rubina Aziz (Assistant Professor)

IF. 1.8

Sr. #	Research/ Review Paper/s	Status
1	Aziz, R. , M. Shahbaz and M. Ashraf. 2013. Influence of foliar application of triacontanol on growth attributes, gas exchange and chlorophyll fluorescence in sunflower (<i>Helianthus annuus</i> L.) under saline stress. P. J. Bot., 45: 1913-1918.	Published
2	Aziz, R. and M. Shahbaz, 2015. Triacontanol-induced regulation in the key osmoprotectants and oxidative defense system of sunflower plants at various growth stages under salt stress. <i>Int. J. Agric. Biol.</i> , 17: 881-890.	Published

Dr. Bushra Ahmad (Assistant Professor)

IF. 16

Sr. #	Research/ Review Paper/s	Status
1	Moniba Sajid, Muhammad Rashid Khan, Naseer Ali Shah, Shafi Ullah, Tahira Younis, Muhammad Majid, Bushra Ahmad and Dereje Nigussie. (2016). Proficiencies of <i>Artemisia scoparia</i> against CCl ₄ induced DNA damages and renal toxicity in rat. <i>BMC Complementary and Alternative Medicine</i> , 16:149.	Published
2	Bushra Ahmad , Muhammad Rashid Khan, Naseer Ali Shah and Rahmat Ali Khan. (2013). In vitro antioxidant potential of <i>Dicliptera roxburghiana</i> . <i>BMC Complementary and Alternative Medicine</i> , 13:140,	Published
3	Bushra Ahmad , Muhammad Rashid Khan, Naseer Ali Shah. (2015). Amelioration of carbon tetrachloride-induced pulmonary toxicity with <i>Oxalis corniculata</i> . <i>Toxicology and industrial health</i> , 31(12):1243-51	Published
4	Naseer Ali Shah, Muhammad Rashid Khan, Saadia Sattar, Bushra Ahmad and Bushra Mirza. (2014). HPLC-DAD analysis, antioxidant potential and anti-urease activity of <i>Asparagus gracilis</i> collected from District Islamabad. <i>BMC Complementary and Alternative Medicine</i> , 14:347,	Published
5	Naseer Ali Shah, Muhammad Rashid Khan, Bushra Ahmad , Farah Noureen, Umbreen Rashid, Rahmat Ali Khan. (2013). Investigation on flavonoid composition and anti free radical potential of <i>Sida cordata</i> . <i>BMC Complementary and Alternative Medicine</i> , 13:276	Published
6	Rahmat A Khan, Muhammad R Khan, Mushtaq Ahmed, Sumaira Sahreen, Naseer Ali Shah, Mir Sadiq Shah, Jasia Bokhari, Umbreen Rashid, Bushra Ahmad and Shumaila Jan. (2012). Hepatoprotection with a chloroform extract of <i>Launaeaprocumbens</i> against CCl ₄ -induced injuries in rats. <i>BMC Complementary and Alternative Medicine</i> , 12:114,	Published
7	Rahmat Ali Khan ¹ , Muhammad Rashid Khan, Sumaira Sahreen, Naseer Ali Shah, Bushra Ahmad and Amir Muhammad Khan. (2012). Alteration of renal function by potassium bromated (KBrO ₃): Protective effects of <i>Launaeaprocumbens</i> . <i>African Journal of Pharmacy and Pharmacology</i> , 6(19):1400-1404	Published
8	Rahmat Ali Khan, Muhammad Rashid Khan, Sumaira Sahreen, Naseer Ali Shah, Amir Muhammad Khan, Jasia Bokhari, Umbreen Rashid, Bushra Ahmad , Maria Shabbir, Naima Saeed, Shumaila Jan and Tayyaba Afsar. (2012). Protective effects of various fractions of <i>Launaeaprocumbens</i> on molecular markers in rat kidney. <i>African Journal of Pharmacy and</i>	Published

	<i>Pharmacology, 6(3): 157-161</i>	
9	Rahmat Ali Khan ¹ , Muhammad Rashid Khan, SumairaSahreem, Naseer Ali Shah, Amir Muhammad Khan, JasiaBokhari, Umbreen Rashid, Bushra Ahmad , Maria Shabbir, NaimaSaeed,Shumaila Jan and TayyabaAfsar. (2012) Protective effect of <i>Launaeaprocumbens</i> against KBrO ₃ induced nephrotoxicity in rats. <i>African Journal of Pharmacy and Pharmacology, 6(5): 317-321.</i>	Published
10	Rahmat Ali Khan, Muhammad Rashid Khan, SumairaSahreem, Naseer Ali Shah, Amir Muhammad Khan, Yar Muhammad Khan ¹ , JasiaBokhari, Umbreen Rashid, Bushra Ahmad , Maria Shabbir, NaimaSaeed,Shumaila Jan and TayyabaAfsar. (2012). Amelioration of kidney function markers by <i>Sonchusasperbutanolic</i> extract against KBrO ₃ induced toxicity in rat. <i>Journal of Medicinal Plants Research, 6(7): 1224-1228.</i>	Published
11	Rahmat Ali Khan, Muhammad Rashid Khan, SumairaSahreem, Naseer Ali Shah, Amir Muhammad Khan, Yar Muhammad Khan, JasiaBokhari, Umbreen Rashid, Bushra Ahmad , Maria Shabbir, NaimaSaeed, Shumaila Jan and TayyabaAfsar. (2012). Effect of various fractions of <i>Launaeaprocumbenson</i> antioxidant enzymes in rats liver: Oxidative stress induced by potassium bromate (KBrO ₃). <i>African Journal of Pharmacy and Pharmacology, 6(8):512-515.</i>	Published

Dr. Mehmooda Munazir (Assistant Professor)

IF: 4.957

Sr #	Research/ Review Paper/s	Status
1	Antibacterial Activity of Root and Fruit Extracts of <i>LeptadeniaPyrotechnica</i> (Asclepiadaceae) From Pakistan. Pakistan Journal of Botany. Munazir, M. , R. Qureshi, M. Arshad and M. Gulfraz.	Published
2	Primary callus induction, somatic embryogenesis and regeneration studies in selected elite Wheat varieties from Pakistan. Pakistan Journal of Botany. Munazir, M. , R. Qureshi, G. M. Ali, U. Rashid, S. Noor, K. Mehmood, S. Ali and M. Arshad.	Published
3	Callogenesis potential of cotyledonary explants of <i>Althaearosea</i> l. From Pakistan. Pakistan Journal of Botany. Munir, M., A. Hussain, I. Ul-Haq, R. Qureshi, M. Munazir , M. Arshad and M. K. Leghari.	Published
4	In vitro antioxidant activity of methanolic extracts of various parts of <i>Leptadeniapyrotechnica</i> (Forssk.) Decne. Munazir, M. , R. Qureshi and M. Munir.	Published
5	Reference: Preliminary Phytochemical Screening of Roots And Aerial Parts Of <i>LeptadeniaPyrotechnica</i> . Pakistan Journal of Botany. Authors: Munazir, M. , R. Qureshi and M. Munir	Published
6	Systematics of Chroococcus From Pakistan. Pakistan Journal of Botany. Authors: M. Munir , R. Qureshi, M. Ilyas, M. Munazir and M. K. Leghari.	Published
7	In vitro callus induction protocol for <i>Leptadeniapyrotechnica</i> causing various explant. Journal of Medicinal Plants Research. Authors: Qureshi, R. , M. Munazir , A. A. Abul-Soad, M. A. Jatoi and G. Shabbir	Published
8	Miraculous Advancements in the Field of Plant-derived Drugs. NAYS emagazine. Authors: MehmoodaMunazir.	Published
9	Conference proceedings Qureshi, R., H. Shaheen, M. Munazir , S. Raana, M. Maqsood and G. R. Bhatti. 2010. Medicinal Plants Diversity of Rohri Hills, Sindh, Pakistan. Strength, Weakness, Opportunity and Threats (SWOT) Analysis Biodiversity in National/Regional and Global Perspectives. IC Biour-Life, 29-31 December, 2010. 61-73.	

Sr. #	Abstracts Published in Conferences	Status
1	Munazir, M., S. Noor, U. Rahid, G. M. Ali, Z. Yousaf and M. S. Masood. Use of different concentrations of hormones for regeneration in wheat varieties Chakwal-97 and GA-2002. National conference on “recent advances in agriculture biotechnology”, organized by “national commission on biotechnology” in collaboration with “national institute for genomics and advanced biotechnology”	Published
2	Noor, S., M. Munazir, U. Rahid, G. M. Ali, M. Arshad, S. Ali, Y. Zafar and M. S. Masood. Establishment of a regeneration protocol for local wheat varieties Khyber-87 and Inqilab-91 using tissue culture techniques. National conference on “recent advances in agriculture biotechnology”, organized by “national commission on biotechnology” in collaboration with “national institute for genomics and advanced biotechnology”.	Published
3	Munazir, M., A. Jabeen, Z. Yousaf and M. Arshad. Palynological study of some selected medicinal plants of margalla hills Islamabad. International Conference on “Biological Resources of Pakistan: Problems, Success and Future Perspectives”, organized by “Department of Botany, University of Arid Agriculture Rawalpindi, Pakistan.	Published
4	Munazir, M., R. Qureshi, R. Asghar and G. M. Ali. 2009. Optimization of Tissue culture and Genetic Transformation Protocols for Selected Wheat Cultivars. 5 th International Symposium on Biotechnology, held at Institute of Biotechnology and Genetic Engineering, University of Sindh, Jamshoro, Pakistan.	Published
5	Shahzad, M., R. Qureshi, M. Munazir, M. Arshad And M. Gulfraz. Antibacterial Activity of Leaves Extract of <i>MoringaOleifera</i> Lam. from Thal Desert, Pakistan	Published
6	Qureshi, R., H. Shaheen, M. Munazir, S. Rana and M. Maqsood. 2010. Medicinal Plants Diversity of Rohri Hills, Sindh, Pakistan. International Conference on Biodiversity is our life” held on 29-31 December, 2010, entitled Diversity of Plants in Rohri Hills, Sind, Pakistan.	Published
7	Qureshi, R.,H.Shaheen, M. Munazir, S. RaanaandG.R. Bhatti. 2010. Medicinal plants diversity of Rohri Hills, Sindh, Pakistan. Biodiversity is our Life (IC Biour-Life) during December 29-31, 2010 organized by Centre for Biodiversity & Conservation (CBC), Shah Latif University, Khairpur (Mir’s), Sindh. P. 14.	Published
8	Qureshi, R.,M.Khanum, H. Shaheen, M. Munazir, M. Arshid and S.N. Mirza. 2011. Medicinal plants of koont research farm, PirMehr Ali Shah Arid Agriculture University Rawalpindi, Pakistan. 2 nd International Confrenfrence of Plant Scientists and 11 th National	Published

	meeting of plant scientists, Department of Botany, GC University Lahore-Pakistan. February 22-24, 2011.	
9	Munir, M., A. Hussain, R. Qureshi and M. Munazir . 2011. Callogenesis potential of cotyledonary explants of <i>Althaearosea</i> (L.) from Pakistan. 2 nd International Conference of Plant Scientists and 11 th National meeting of plant scientists, Department of Botany, GC University Lahore-Pakistan. February 22-24, 2011.	Published

Ms. Adeela Farooq (Lecturer)

IF 0.47

Sr. #	Research/ Review Paper/s	Status
1	Khizar Hayat Bhatti , Tahira Perveen , Adeela Farooq , Khalid Nawaz , Khalid Hussain , Ejaz Hussain Siddiqui. A critical review on herbicides resistance in plants. World applied sciences journal (2013) : 1027-1036	Published

Sr. #	Abstract Presented in conference	Status
1	Characterization of Fuel properties of Biodiesel obtained from Peach Kernel 12 th PSBMB Conference ,4-6 Dec.2014 (Conference Proceedings)	Published
2	'Evaluation of <i>Embllica officinalis</i> extracts for in vitro antibacterial activity against emerging antibiotic resistant strains. (Current research in chemical and pharmaceutical sciences -2017)	Accepted

Ms. Zohra Kabir (Lecturer)

IF 0.8

Sr. #	Research/ Review Paper/s	Status
1	Zohra Kabir , TayyabaSanaullah, Abdul Wahid, BushraSadia, AsmaHanif, NazimahMaqbool and Taskeen Arshad. (2016). Exogenous Application of Thiourea Ameliorates SaltStress Effects by Alleviation of Oxidative Damage in Hybrid Maize. <i>J.Agr.Sci. and Tech.</i> , 6:220-231.	Published

Ms. Sobia Ikram

IF: 3.22

Sr. #	Research/ Review Paper/s	Status
1	Muhammad umair, umbrin ilyas, sobiaikram . Morphological variations in maize (zea mays l.) under different levels of na2so4 at growth stage. Advance Research in Agriculture and Veterinary Science, (2014):	Published
2	Sobia Ikram , Muhammad Parvaiz, Mushtaq Ahmed, Umbrin Ilyas, 1 2 1 2 Aneela Khalid, MadihaMunir, Sehrish Anwar and Hafsa Afzal Aquatic Plants of Sialkot District, Pakistan. World Applied Sciences Journal 28 (6): 884-896, (2013): IF: 0.47	Published
3	Sobia Ikram , Khizar Hayat Bhatti, Muhammad Parvaiz.. Ethnobotanical studies of aquatic plants of district Sialkot, Punjab (Pakistan). Journal of Medicinal Plants and Studies (2014) :58- 63.	Published