

CURRICULUM VITAE

KHAWAJA SHAFIQUE AHMAD (PhD)

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RESEARCH INTERESTS

Abiotic Stresses, Plant Ecophysiology; Ecotoxicology, Environmental Pollution, Plant Nanotechnology, Plant anatomy; Biodiversity and Conservation; Plant Phylogenetics; Ethnopharmacology

CV SUMMARY

H-Index	H-Index = 26, i-10 Index = 58, Citations > 2241
Academic Qualifications	BSc, MSc, MPhil, PhD
Trainings/Conferences/Seminars	Conferences = 22, Trainings = 25
Teaching Experience	> 10 Years
Research Experience	12 Years
Awards	Fellowship at University of Florida, USA
Journal Editor	PeeJ, Plosone, Frontiers in Plant Science
Journal Reviewer	>40
Books/ Book Chapters	10
Publications	> 96
Impact Factor	> 220
Research Grants	07
Thesis Supervision (MS/PhD)	38

EDUCATION

2011-2015: Ph.D. Botany (University of Agriculture Faisalabad)
2008-2010: M.Phil. Botany (PMAS-Arid Agriculture University Rawalpindi)
2004-2005: M.Sc. Botany (University of Azad Jammu & Kashmir, Muzaffarabad)

PROFESSIONAL EXPERIENCE

- **2023 to date:** Associate Professor, Department of Botany, University of Poonch Rawalakot.
- **2016-2021:** Head of the Department, Department of Botany, University of Poonch Rawalakot.
- **2015-2023:** Assistant Professor, Department of Botany, University of Poonch Rawalakot.
- **2014:** Research Fellowship under Higher Education Commission International research support initiative program (IRSIP) at Department of Botany, Molecular Systematics & Evolutionary Genetics Lab, Florida Museum of Natural History, University of Florida, U.S.A.
- **2017-2018:** Terrestrial Ecologist (Flora), Detailed Ecological Biodiversity Management Project-(DEBMP) Dasu Hydropower Project (DHP) funded by World Bank (November 2017 to November 2018)
- **2015-2016:** Biodiversity Specialist (Terrestrial Flora), Environmental Impact Assessment of Diemer Basha Dam Project
- **2013:** Research Associate, Department of Botany, University of Agriculture Faisalabad.
- **2012-2013:** Teaching assistantship, Department of Botany, University of Agriculture, Faisalabad.
- **2009-2010:** Senior lecturer Biology, Cadet College Bhurban Murree, Pakistan.
- Chairman Board of Study, Department of Botany (2016-present)
- Chairman, Departmental GRE Committee (2016-present)
- Chairman, Departmental Graduate Research Committee (2016-present)
- Chairman, Departmental Examination Committee (2018-present)
- Convener Research Promotion Committee (2017-present)
- Member of committee for special education for people residing at LOC (2018-present)

- Member of Faculty board of Basic and Applied Sciences (2017-present)
- Member of the Board of Faculty of Agriculture (2017-present)
- Member of career counselling committee of QEC (2017-present)
- Member of Hi-Tech Lab committee (2018-present)

CERTIFICATES / AWARDS

- IRSIP Award 2014, University of Florida, USA
- PhD approved supervisor award (2016, 2021) HEC-Pakistan
- Academic Editor of Plos One (IF 3.752) and PeeJ (IF 3.061)

RESEARCH PROJECTS

Project Title	Role	Funding	Cost (million)
Ref No. 20-16986/NRPU/R&D/HEC/2021 2021 Heavy metal assessment and plant survival strategies in wild vegetable and fruit species of Muzaffarabad Division Azad Kashmir	PI	Higher Education Commission Pakistan	2.89
PSF/Res/AJK-PU/Bio (682) Assessment of Diversity, Distribution and Community Structure of Native Vegetation of District Neelum, Azad Kashmir	PI	Pakistan Science Foundation	1.723
Project #: 21-833/ SRGP/R&D/HEC/2016. Structural and functional adaptations in differently adapted ecotypes of some high altitudinal grasses from the Poonch District, Azad Kashmir, Pakistan.	PI	Higher Education Commission Pakistan	0.5
Project Number: (8958) Leaf structural, physiological, and biochemical response of some high potential medicinal plants of Poonch Division to altitude and seasons	PI	Higher Education Commission Pakistan	4.99
Project Number: 18984 Exploring the biodiversity of Rubus species for nutritional and socio-economic uplift of indigenous communities from the State of Azad Jammu and Kashmir.	Co-PI	Higher Education Commission Pakistan	3.64
Ref No. 20-16982/NRPU/R&D/HEC/2021 Investigation of nutritional profile, phytochemical analysis and antioxidant activities of wild plant food resources of Azad Jammu and Kashmir.	Co-PI	Higher Education Commission Pakistan	3.25
Project Number: 44-1817/SRGP/R&D/HEC/2017. Indigenous use and biological activities (with and without silver nanoparticles) of some important medicinal plants of Poonch Azad Kashmir.	Co-PI	Higher Education Commission Pakistan	0.42
Project Number: 21-2033/SRGP/R&D/HEC/2018. Advance oxidation treatment of some trace organic contaminants in aqueous media.	Co-PI	HEC (SRGP)	0.45
Environmental and Social Impact Assessment for Diamer Basha Dam Project" (ESIA/DBDP). hired by Associated Consulting Engineers-ACE (PVT) Limited	BS*	World Bank-2015-16	1.4 trillion
Environmental and Social Impact Assessment for Dasu Dam Project. Hired by hired by Associated Consulting Engineers-ACE (PVT) Limited.	BS	China-2017-18	4.278
Adaptive potential of newly developed commercial cultivars of wheat, <i>Triticum aestivum</i> L. to multiple abiotic stresses.	RA	HEC-2013	3.80

RESEARCH PUBLICATIONS

S.No.	Author's name	Title	Journal	Year	IF	CAT	VIP	DOI
1	Rasool F, Nizamani ZA, Ahmad KS* , Parveen F, Khan SA and Sabir N. (2024).	An appraisal of traditional knowledge of plant poisoning of livestock and its validation through acute toxicity assay in rats.	Frontiers in Pharmacology	2024	6.1	W	15:1328133	doi:10.3389/fphar.2024.1328133
2	Iqbal M, Farooq U, Asghar N, Ahmad KS* , Gul MF, Aslam MU, Rehman FU.	Phenotypic Plasticity in Rubber Bush (<i>Calotropis procera</i>) along Altitudinal Gradient	Environmental and Experimental Botany	2024	6.028	W	0:00	https://doi.org/10.1016/j.envexpbot.2023.105616
3	Bashir H, Sadia, S, Saddiqe Z, Munir M, Bai X, Jia M, Ahmad KS*	Scanning Microscopic Imaging Leaf Anatomical Patterns of Selected <i>Apocynaceae</i> Species and their Taxonomic Importance	Microscopy and Research Technique	2024	2.893	W	179-180	https://doi.org/10.1002/jemt.24495
4	Aftab S, Jabeen N, Ahmad KS* , Shafique S, Irum S, Ismail H, Khan SU, Tahir A, Nasir M, Gleason ML	Cloning of maize chitinase 1 gene and its expression in genetically transformed rice to confer resistance against rice blast caused by <i>Pyricularia oryzae</i>	PLOS ONE	2024	3.752	W	19(1):e0291939	https://doi.org/10.1371/journal.pone.0291939
5	Bashrat S, Farooq A, Mansoor H, Ahmed MSA, Asghar A, Fatima S, Ahmad KS , Shah SMR, Hashem A, Avila-Quezada GD, Abd_Allah EF, Abbas Z.	Structural and Functional Strategies in <i>Cenchrus</i> Species to Combat Environmental Extremities Imposed by Multiple Abiotic Stresses	Plants MDPI	2024	4.5	W	13 (2)	10.3390/plants13020203
6	Zahid N, Alowaiesh BF, Masood N, Ahmad KS , Khalid S, Khalid MS, Maqbool M, Awan SI, Imtiaz Z.	Multi-locational study on plant growth regulators to minimize pre-mature fruit drops and maximize postharvest quality of apples.	Cogent Food & Agriculture	2024	2.6	W	10(1):2300178	https://doi.org/10.1080/23311932.2023.2300178
7	Talib H, Mehmood A, Amjad MS, Mustafa A, Khan MA, Raffi M, Khan RT, Ahmad KS , Qureshi H.	Antibacterial, antioxidant, and anticancer potential of green fabricated silver nanoparticles made from <i>Viburnum grandiflorum</i> leaf extract	Botanical Studies	2024	3.4	W	65(1):4	https://doi.org/10.1186/s40529-024-00411-5
8	Mubeen K, Safeen K, Irshad A, Safeen A, Ghani T, Shah WH, Khan R, Ahmad KS , Casin R, Rashwan MA, Elansary HO.	ZnO/CuSe composite-mediated bandgap modulation for enhanced photocatalytic performance against methyl blue dye.	Scientific Reports	2023	4.6	W	13(1):19580	https://doi.org/10.1038/s41598-023-46780-y
9	Iqbal U, Usman Z, Azam A, Abbas H, Mehmood A, Ahmad KS*	Invasive success of star weed (<i>Parthenium hysterophorus</i> L.) through alteration in structural and functional peculiarities	PeerJ	2023	3.06	W	13:11	13;11:e16609.
10	Shehzad MA, Hussain I, Akhtar G, Ahmad KS* , Nawaz F, Faried HN, Mehmood A.	Insights into physiological and metabolic modulations instigated by exogenous sodium nitroprusside and spermidine reveals drought tolerance in <i>Helianthus annuus</i> L.	Plant Physiology and Biochemistry	2023	6.5	W	202(107935)	https://doi.org/10.1016/j.plaphy.2023.107935
11	Mehmood A, Zahir S, Khan MAR, Ahmad KS , Abasi A, Raffi M, Procow J, Lastra JMP.	Optimization and bio-fabrication of phyto-mediated silver nanoparticles (Ag-NPs) for antibacterial potential	Journal of Biomolecular Structure and Dynamics	2023	4.4	W	41(19)	https://doi.org/10.1080/07391102.2023.2242960
12	Ullah S, Haq TU, Shehzad MA, Ahmad KS , Imran M, Matloob A, Ahmad HS, Arif M, Moussa IM, Elansary SO, Wang J.	Fe and Zn-loaded cotton-sticks biochar and organic amendments improves chickpea production by enhancing ionic uptake and chemical properties of sandy soils	Cogent Food & Agriculture	2023	2.1	W	9: 2265110	https://doi.org/10.1080/23311932.2023.2265110
13	Iqbal U, Rehman F, Aslam SU, Gul MF, Farooq U, Ameer A, Asghar N, Mehmood A, Ahmad KS* .	Survival tactics of an endangered species <i>Withania coagulans</i> (Stocks) Dunal to arid environments	Environmental Monitoring and Assessment	2023	3.307	W	195 (11):1363	https://doi.org/10.1007/s10661-023-11982-4
14	Mamoona T, Rafique N, Zubair Khan M, Ahmad KS , Bashir S, Ali Shah T, Salamattullah AM, Mekonnen AB, Bourhia M.	Phytonutritional and Sensorial Assessment of a Novel Functional Beverage Formulated from an Underutilized Fruit of <i>Carissa spinarum</i> L.	ACS Omega	2023	4.132	W	29:23:00	https://doi.org/10.1021/acsomega.3c03386

15	Ameer A, Ahmad F, Asghar N, Hameed M, Ahmad KS* , Mehmood A, Nawaz F, Shehzad MS, Mumtaz S, Kaleem M, Iqbal U.	Aridity-driven changes in structural and physiological characteristics of Buffel grass (<i>Cenchrus ciliaris</i> L.) from different ecozones of Punjab Pakistan	Physiology and Molecular Biology of Plants	2023	3.5	W	29(7):2023	https://doi.org/10.1007/s12298-023-01351-3
16	Nawaz H, Asghar N, Ali A, Ameer A, Shehzad MA, Nawaz F, Mehmood A, Iqbal MS, Iqbal U, Kaleem M, Khan A, Ahmad KS* .	Optimization of Citric Acid and EDTA Levels Under Ni Stress Using Rapeseed Brassica napus L. for Phytoremediation	Water Air and Soil Pollution	2023	2.984	W	234(4):244	https://doi.org/10.1007/s11270-023-06229-4
17	Safeen K, Ullah R, Safeen A, Khan K, Khan R, Ullah H, Zaman A, Ahmad KS , Ullah Z, Elansary HO, Moussa IM.	Structure phase-dependent dielectric and photodegradation properties of Co-doped TiO ₂ nanoparticles synthesized via co-precipitation route	Journal of Saudi Chemical Society	2023	5.6	W	101711	https://doi.org/10.1016/j.jscs.2023.101711
18	Alshegaihi RM, Mfarrej MFB, Saleem MH, Parveen A, Ahmad KS , Ali, B, Abeer AHA, Alshehri D, Alghamdi SA, Alghanem SMS, Lone JA, Soliman TMA, Soudy F.	Effective citric acid and EDTA treatments in cadmium stress tolerance in pepper (<i>Capsicum annuum</i> L.) seedlings by regulating specific gene expression	South African Journal of Botany	2023	3.111	W	27(5): 101711	https://doi.org/10.1016/j.sajb.2023.06.02
19	Hussain K, Dar MEUI, Mehmood A, Sabir S, Awan MS, Ahmad KS , Bussmann RW.	Ethnomedicinal uses and conservation status of medicinal orchids from Western Himalayas of Azad Jammu & Kashmir, Pakistan.	Ethnobotanical Research and Applications	2023	1.71	W	26, 1–13.	https://ethnobotanyjournal.org/index.php/era/article/view/4893
20	Khalil S, Mehmood A, Khan MA, Ahmad KS , Abasi F, Raffi M, Ali K, Khan ME, Jones DA, Abdelkarim M.	Antibacterial, antioxidant and photocatalytic activity of novel <i>Rubus ellipticus</i> leaf mediated silver nanoparticles.	Journal of Saudi Chemical Society	2023	5.6	W	27(1) 101576	https://doi.org/10.1016/j.jscs.2022.101576
21	Ahmad I, Sohail M, Hameed M, Fatima S, Ahmad MS, Ahmad F, Mehmood A, Basharat S, Asghar A, Shah SM, Ahmad KS* .	Morpho-anatomical determinants of yield potential in <i>Olea europaea</i> L. cultivars belonging to diversified origin grown in semiarid environments	PLOS ONE	2023	3.752	W	7;18(6):e0286736	https://doi.org/10.1371/journal.pone.0286736
22	Safeen K, Safeen A, Arif D, Shah WH, Ali A, Ali G, Hussain F, Imran N, Ullah Shah A, Alataway A, Dewidar AZ, Elansary HO, Yafarsi MA, Ahmad KS .	Tuning the Optical Properties of ZnO by Co and Gd Doping for Water Pollutant Elimination. Water.	Water MDPI	2023	3.53	W	9;15(8):1470.	https://doi.org/10.3390/w15081470
23	Altaf A, Nawaz F, Majeed S, Ahsan M, Ahmad KS , Akhtar G, Shehzad MA, Javeed HMR, Farman M.	Foliar Humic Acid and Salicylic Acid Application Stimulates Physiological Responses and Antioxidant Systems to Improve Maize Yield under Water Limitations	Journal of the Science of Food and Agriculture	2023	4.125	W	3(2): 49-106	https://doi.org/10.1002/jsf2.106
24	Iqbal MS, Bashir F, Akbar M, Ahmad KS , Ali MA, Hussain SA, Arshad N, Masood H, Munir S, Ahmad T, Islam M.	Cadmium Toxicity Alleviation through Exogenous Application of Gibberellic Acid (GA ₃) in Mustard (<i>Brassica juncea</i> (L.) Czern.) and Rapeseed (<i>Brassica rapa</i> L.)	Sains Malaysiana	2023	1.006	W	51(11): 3607-3619	http://doi.org/10.17576/jsm-2022-5111-08
25	Ahmad H, Kilinc SG, Celik F, Kesik HK, Simsek S, Ahmad KS , Afzal MS, Farrakh S, Safdar W, Pervaiz F, Liaqat S, Zhang J, Ca J.	An Inventory of Anthelmintic Plants across the Globe	Pathogens	2023	4.531	W	12(1), 131	10.3390/pathogens12010131
26	Naseer F, Mehmood A, Mustafa A, Ahmad KS , Khan MF, Hussain S, Sabir S, Raja NI.	Documentation of wild edible fruit yielding plants from Sudhnoti, Azad Kashmir for ethno-medicinal uses.	Journal of Xi'an Shiyou University	2023	0.957	X	138-166	https://www.xisdxjxsu.asia/V19I04-14.pdf
27	Mustafa A, Abid H, Ahmad KS* , Mehmood A, Nawaz F, Shehzad MA, Nazir S, Hussain S.	The Application of Nanoparticles in Phytoremediation of Soil and Water Pollution	Advanced Nanotechnology in Plants (Taylor & Francis)	2023	0	W	251-268	DOI: 10.1201/b23308-17

28	Khan AQ, Muhammad A, Ahmad KS* , Mehmood A, Hamid A, Nawaz F, Suliman N.	Plants Oxylipins Induction and Regulation Genetic Insights.	Phyto-Oxylipins: Metabolism, Physiological Roles, and Profiling Techniques	2023	0	W	316	CRC Press, 1003316557, 9781003316558
29	Nawaz F, Rafeeq R, Majeed S, Ismail MS, Ahsan M, Ahmad KS , Haider G.	Biochar Amendment in Combination with Endophytic Bacteria Stimulates Photosynthetic Activity and Antioxidant Enzymes to Improve Soybean Yield Under Drought Stress	Journal of Soil Science and Plant Nutrition	2022	3.61	W	23: 746-760	10.1007/s42729-022-01079-1
30	Mehmood A, Javid S, Khan MF, Ahmad KS , Mustafa A.	In vitro total phenolics, total flavonoids, antioxidant and antibacterial activities of selected medicinal plants using different solvent systems.	BMC Chemistry	2022	4.095	W	16(64):1-10	https://doi.org/10.1186/s13065-022-00858-2
31	Ahmad KS , Javaid A, Hameed M, Fatima S, Ahmad F, Ashraf M, Shah SM, Ahmad MS, Ahmad I.	Survival strategies in two high altitude Sorghum species from western Himalayas	Acta Physiologiae Plantarum	2022	2.736	W	44(6):1-3	https://doi.org/10.1007/s11738-022-03392-9
32	Fatima S, Hameed M, Ahmad F, Ahmad MS, Khalil S, Munir M, Ashraf M, Ahmad I, Ahmad KS , Kaleem M.	Structural and functional responses in widespread distribution of some dominant grasses along climatic elevation gradients	Flora	2022	2.22	W	1,289:152034	https://doi.org/10.1016/j.flora.2022.152034
33	Ali MA, Iqbal MS, Ahmad KS , Akbar M, Mehmood A, Hussain SA, Arshad N, Munir S, Masood H, Ahmad T, Kaloi GM.	Plant species diversity assessment and monitoring in catchment areas of River Chenab, Punjab, Pakistan	PLOS ONE	2022	3.752	W	17(8):e0272654	https://doi.org/10.1371/journal.pone.0272654
34	Rafique N, Ijaz R, Khan MZ, Rafiq S, Hayat I, Hussain I, Ahmad KS , Tabassum R, Xie Z.	Effect of Fermentation Response on Biosynthesis of Endopolygalacturonase from a Potent Strain of Bacillus by Utilizing Polymeric Substrates of Agricultural Origin	Catalysts	2022	4.501	W	12(8):875	https://doi.org/10.3390/catal12080875
35	Kausar H, Mehmood A, Khan RT, Ahmad KS , Hussain S, Nawaz F, Iqbal MS, Nasir M, Ullah TS.	Green synthesis and characterization of copper nanoparticles for investigating their effect on germination and growth of wheat	PLOS ONE	2022	3.752	W	17(6):e0269987	https://doi.org/10.1371/journal.pone.0269987
36	Wali R, Khan MF, Mahmood A, Mahmood M, Qureshi R, Ahmad KS , Mashwani ZU.	Ethnomedicinal appraisal of plants used for the treatment of gastrointestinal complaints by tribal communities living in Diamir district, Western Himalayas, Pakistan	PLOS ONE	2022	3.725	W	17(6):e0269445	https://doi.org/10.1371/journal.pone.0269445
37	Ali S, Khan SM, Siddiq Z, Ahmad Z, Ahmad KS, Abdullah A, Hashem A, Al-Arjani AB, Abd_Allah EF.	Carbon sequestration potential of reserve forests present in the protected Margalla Hills National Park	Journal of King Saud University-Science	2022	3.725	W	1;34(4):101978	https://doi.org/10.1016/j.jksus.2022.101978
38	Sardar H, Anjum MA, Hussain S, Ali S, Shaheen MR, Ahsan M, Ejaz S, Ahmad KS , Naz S, Shafique M.	Deciphering the role of moringa leaf powder as a supplement in the cotton waste substrate for the growth and nutrition of king oyster mushroom.	Scientia Horticulturae	2022	3.643	W	293:110694	https://doi.org/10.1016/j.scienta.2021.110694
39	Ishtiaq M, Hussain I, Bhatti KH, Maqbool M, Ahmed KS , Ajaib M, ullah Shah A, Mushtaq W, Hussain T, Ghani A, Khanum H.	Study of impacts of brickkiln emanations on soil quality of agriculture lands in selected areas of District Bhimber, Azad Jammu and Kashmir, Pakistan	PLOS ONE	2022	3.725	W	17(2):e0258438	https://doi.org/10.1371/journal.pone.0258438
40	Iqbal M, Zahoor M, Akbar M, Ahmad KS , Hussain S, Munir S, Ali M, Arshad N, Masood H, Zafar S, Ahmad T.	Alleviating the deleterious effects of salt stress on wheat (<i>Triticum aestivum</i> L.) by foliar application of gibberellic acid and salicylic acid	Applied Ecology and Environmental Research	2022	0.711	W	20(1):119-34	https://www.aloki.hu/pdf/2001_119134.pdf
41	Farman M, Nawaz F, Majeed S, Javeed HM, Ahsan M, Ahmad KS , Aurangzaib M, Bukhari MA, Shehzad MA, Hussain MB	Silicon Seed Priming Combined with Foliar Spray of Sulfur Regulates Photosynthetic and Antioxidant Systems to Confer Drought Tolerance in Maize (<i>Zea mays</i> L.)	Silicon	2022	2.67	W	1:1-7	https://doi.org/10.1007/s12633-021-01505-6

42	Shafiq BA, Nawaz F, Majeed S, Aurangzaib M, Al Mamun A, Ahsan M, Ahmad KS , Shehzad MA, Ali M, Hashim S, ul Haq T.	Sulfate-Based Fertilizers Regulate Nutrient Uptake, Photosynthetic Gas Exchange, and Enzymatic Antioxidants to Increase Sunflower Growth and Yield Under Drought Stress	Journal of Soil Science and Plant Nutrition	2022	3.872	W	4:1-3	https://doi.org/10.1007/s42729-021-00516-x
43	Anwar N, Mehmood A, Ahmad KS , Hussain K.	Biosynthesized silver nanoparticles induce phytotoxicity in <i>Vigna radiata</i> L.	Physiology and Molecular Biology of Plants	2021	2.393	W	21:1-2	https://doi.org/10.1007/s12298-021-01073-4
44	Aqib M, Nawaz F, Majeed S, Ghaffar A, Ahmad KS , Shehzad MA, Tahir MN, Aurangzib M, Javeed HMR, Rehman MH, Usmani MM.	Physiological insights into sulfate and selenium interaction 4 to improve drought tolerance in mung bean	Physiology and Molecular Biology of Plants	2021	2.393	W	(5):1073-87.	https://doi.org/10.1007/s12298-021-00992-6
45	Shah NI, Jabeen N, Irum S, Ahmad KS , Tauseef I, Khan TF, Anwaar S, Shafique S, Haleem SK, Mehmood A, Hussain SZ	Environmentally benign and economical bio-fabrication of ZnO and Cr-doped ZnO nanoparticles using leaf extract of <i>Citrus reticulata</i> for biological activities	Materials Today Communications	2021	3.383	W	27: 102383	https://doi.org/10.1016/j.mtc.2021.102383
46	Ulfat A, Mehmood A, Ahmad KS , Ul-Allah S.	Elevated carbon dioxide offers promise for wheat adaptation to heat stress by adjusting carbohydrate metabolism	Physiology and Molecular Biology of Plants	2021	2.393	W	8:1-11	https://doi.org/10.1007/s12298-021-01080-5
47	Khan MW, Sareer M, Akhtar N, Muhammad Z, Iqbal A, Rahman M, Ahmad KS , Munir I, Khalid S.	Impact of gamma irradiation on morphological and genetic characterization of Pea (<i>Pisum sativum</i> L.).	Mitteilungen Klosterneuburg	2021	0.571	W	64	https://www.researchgate.net/publication/351109078_Impact_of_gamma_irradiation_on_morphological_and_genetic_characterization_of_Pea_Pisum_sativum_L
48	Khan MF, Mashwani ZR, Mehmood A, Qureshi R, Sarwar R, Ahmad KS , Quave C.	An ethnopharmacological survey and comparative analysis of plants from the Sudhnoti district, Azad Jammu & Kashmir	Ethnobiology and Ethnomedicine	2021	2.773	W	0.718055556	https://doi.org/10.1186/s13002-021-00435-2
49	Aziz B, Zubair M, Irshad N, Ahmad KS , Mahmood M, Tahir MM, Shah KH, Shaheen A.	Biomonitoring of toxic metals in feathers of birds from North-Eastern Pakistan.	Bulletin of Environmental Contamination and Toxicology	2021	2.151	W	106(5):805-11	https://doi.org/10.1007/s00128-021-03184-w
50	Minhas GF, Kiani BH, Ghani U, Ahmad KS , Shah A.	Biogenic synthesis of nanosilver particles from root extract of <i>Morus alba</i> L. and their biological activities.	Farmacia	2021	1.607	Y	69, 1: 90-99	https://doi.org/10.31925/farmacia.2021.1.12
51	Deng J, Liang H, Luo X, Zhang W, Gao G, Yang R, Ahmad KS , Zhang G.	The complete chloroplast genome sequence of herb <i>Nardostachys jatamans</i> (family: Valerianaceae) in China	Mitochondrial DNA Part B	2021	0.885	Y	6(1), 254-256	https://www.tandfonline.com/doi/full/10.1080/23802359.2020.1861568
52	Nawaz F, Zulfiqar B, Ahmad KS , Majeed S, Shehzad MA, Javeed HMR, Ahsan M.	Pretreatment with selenium and zinc modulates physiological indices and antioxidant machinery to improve drought tolerance in maize (<i>Zea mays</i> L.).	South African Journal of Botany	2021	2.315	W	138, 209-216	https://doi.org/10.1016/j.sajb.2020.12.016
53	Sadia S, Aftab B, Ahmad KS , Zhang JT.	Application of distance-based indices to measure pattern of functional diversity of <i>Gentiana macrophylla</i> pall. communities: a case study from dongling mountain meadow, Beijing, china	Pakistan Journal of Botany	2021	0.925	X	53(4):1379-88	http://dx.doi.org/10.30848/PJB2021-4(34)
54	Ajaib M, Ishtiaq M, Bhatti KH, Ahmad KS, Maqbool M, Hussain T.	Traditional ethnobotanical knowledge of wild plants of Tilla Jogian District Jhelum, Pakistan	Pakistan Journal of Botany	2021	0.925	X	53(4):1303-406	http://dx.doi.org/10.30848/PJB2021-4(19)

55	Ahmad KS* , Rafi M, Kiani BH, Ishtiaq M, Mehmood A, Iqbal MS, Zubair T, Qureshi R.	Evaluation of anticancer activities of selected medicinal plants from Ganga Choti, lesser Himalaya, Bagh, Azad Kashmir	Pakistan Journal of Botany	2021	0.925	X	53(4):1433-40.	http://dx.doi.org/10.30848/PJB2021-4(38)
56	Sharif H, Mehmood A, Ulfat A, Ahmad KS , Hussain I, Khan RT.	Environmentally Sustainable Production of Silver Nanoparticles and Their Effect on Glycine max L Seedlings	Gesunde Pflanzen	2021	1.102	X	73(1):95-103	https://doi.org/10.1007/s10343-020-00532-4
57	Irum S, Jabeen N, Ahmad KS* , Shafique S, Khan TF, Gul H, Anwaar S, Shah NI, Mehmood A, Hussain SZ.	Biogenic Iron Oxide nanoparticles enhance callogenesis and regeneration pattern of recalcitrant <i>Cicer arietinum</i> L.	PLOS ONE	2020	2.942	W	e0242829	https://doi.org/10.1371/journal.pone.0242829
58	Majeed S, Nawaz F, Naeem M, Ashraf MY, Ejaz S, Ahmad KS , Tauseef S, Farid G, Khalid I, Mehmood K.	Nitric oxide regulates water status and associated enzymatic pathways to inhibit nutrients imbalance in maize (<i>Zea mays</i> L.) under drought stress	Plant Physiology and Biochemistry	2020	3.72	W	155, 147-160	https://doi.org/10.1016/j.plaphy.2020.07.005
59	Hussain A, Mehmood A, Murtaza G, Ahmad KS , Ulfat A, Khan MF & Ullah TS.	Environmentally benevolent synthesis and characterization of silver nanoparticles using <i>Olea ferruginea</i> Royle for antibacterial and antioxidant activities	Green Processing and Synthesis	2020	1.672	X	9(1), 451-461	https://doi.org/10.1515/gps-2020-0047
60	Shafique S, Jabeen N, Ahmad KS* , Irum S, Anwaar S, Ahmad N, Alam S, Ilyas M, Khan TF, Hussain SZ.	Green fabricated zinc oxide nano formulated media enhanced callus induction and regeneration dynamics of <i>Panicum virgatum</i> L.	PLOS ONE	2020	2.942	W	15(7):e0230464	https://doi.org/10.1371/journal.pone.0230464
61	Usmani M, Nawaz M, Majeed F, Shehzad MA, Ahmad KS , Akhtar G, Shabbir RN.	Sulfate-mediated Drought tolerance in Maize involves Regulation at physiological and Biochemical Levels	Scientific Reports	2020	4.122	W	10(1):1-13	https://doi.org/10.1038/s41598-020-58169-2
62	Yousaf H, Mehmood A, Ahmad KS , Raffi M.	Green synthesis of silver nanoparticles and their applications as an alternative antibacterial and antioxidant agent	Materials Science and Engineering	2020	4.959	W	112:110901	https://doi.org/10.1016/j.ms.ec.2020.110901
63	Ahmad KS* , Wazarat A, Mehmood A, Ahmad MS, Tahir MM, Nawaz F, Ahmed H, Zafar M, Ulfat A.	Adaptations in <i>Imperata cylindrica</i> (L.) Raeusch. and <i>Cenchrus ciliaris</i> L. for altitude tolerance	Biologia	2020	4.959	X	75(2):183-98	https://doi.org/10.2478/s11756-019-00380-2
64	Anjum S, Hamid A, Ghafoor A, Awan SI, Ahmad KS .	Evaluation of physico-chemical and antioxidant potential in tomato (<i>Solanum lycopersicum</i>) germplasms	Pakistan Journal of Agricultural Sciences	2020	0.618	X	57(1),177-187;2020	https://DOI:10.21162/PAKJAS/20.8140
65	Majeed M, Bhatti KH, Amjad MS, Abbasi AM, Bussmann RW, Nawaz F, Ahmad KS	Ethno-veterinary uses of Poaceae in Punjab, Pakistan	PLOS ONE	2020	2.942	W	15(11):e0241705	https://doi.org/10.1371/journal.pone.0241705
66	Baessa M, Rodrigues MJ, Pereira C, Santos T, da Rosa Neng N, Nogueira JMF, Barreira L, Varela J, Ahmed H, Asif S, Boukhari SA, Kayani WK, Ahmad KS , Zengin G, Mollica A, Custodio L.	A comparative study of the in vitro enzyme inhibitory and antioxidant activities of <i>Butea monosperma</i> (Lam.) Taub. and <i>Sesbania grandiflora</i> (L.) Poiret from Pakistan: new sources of natural products for public health problems	South African Journal of Botany	2020	1.504	W	120:146–156	https://doi.org/10.1016/j.sajb.2018.04.006
67	Hussain S, Hamid A, Ahmad KS* , Mehmood A, Nawaz F, Ahmed H.	Quantitative ethnopharmacological profiling of medicinal shrubs used by indigenous communities of Rawalakot, District Poonch, Azad Jammu and Kashmir, Pakistan	Revista Brasileira de Farmacognosia	2019	1.754	W	29(5):665-76	https://doi.org/10.1016/j.bjrp.2019.06.008
68	Mehmood A, Shabir S, Hussain S, Ahmad KS , Hamid A.	Antibacterial and antioxidant activity of biosynthesized silver nanoparticles from <i>Ulmus wallichiana</i> Planch. leaf extract.	Farmacia	2019	1.678	W	67(4):662-669	https://doi.org/10.31925/farmacia.2019.4.16
69	Khan A, Ayaz R, Mehtab A, Naz K, Haider W, Gondal MA, Umer M, Afzal MI, Shah NA, Afzal MS, Yayi G, Ahmad KS , Ahmed H.	Knowledge, attitude & practices (KAPs) regarding rabies endemicity among the community members, Pakistan	Acta tropica	2019	2.659	W	200:105156	https://doi.org/10.1016/j.actatropica.2019.105156

70	Ahmad KS* , Hameed M, Hamid A, Nawaz F, Kiani BH, Ahmad MSA, Deng J, Ahmad F, Hussain I, Fatima S.	Beating cold by being tough: impact of elevation on leaf characteristics in <i>Phleum himalaicum</i> Mez. Endemic to Himalaya	Acta Physiological Plantarum	2018	1.608	W	40(3): 56	https://doi.org/10.1007/s11738-018-2637-4
71	Deng JB, G Gao, Ahmad KS , LuoXQ, Zhang FT, Li S, and Yang RW	Evaluation on genetic relationships among China's endemic <i>Curcuma</i> L. herbs by mtDNA	Fyton International Journal of Experimental Botany	2018	0.18	W	87: 156-161	https://doi.org/10.32604/phyton.2018.87.156
72	Begum S, Hussain S, Mehmood A, Ahmad KS , Hamid A.	Harnessing the potential of medicinal plants used for the treatment of diabetes in rural areas of Azad Jammu and Kashmir, Pakistan	Applied Ecology and Environmental Research	2018	0.721	W	5:6549-66	http://www.aloki.hu/pdf/1605_65496566.pdf
73	Ahmad KS* , Hamid A, Nawaz F, Hameed M, Ahmad F, Deng J, Akhtar N, Wazarat A, Mahroof S.	Ethnopharmacological studies of indigenous plants in Kel village, Neelum Valley, Azad Kashmir, Pakistan.	Journal of Ethnobiology and Ethnomedicine	2018	1.903	W	13, 68	https://doi.org/10.1186/s13002-017-0196-1
74	Akhtar N, Hameed M, Ahmad KS* , Nawaz F, Hamid A, Mehmood A, Shahnaz M, Khan AQ.	Effect of nickel toxicity on structural and functional aspects of osmoregulation in of <i>Typha domingensis</i> Pers populations	Limnology	2017	1.1	W	19(2): 185-197	https://doi.org/10.1007/s10201-017-0529-8
75	Akhtar N, Ahmad KS* , Hameed M, Nawaz F, Hamid A, Segovia-Salcedo C, Mehmood A, Shahnaz MM.	Leaf anatomical and biochemical adaptations in <i>Typha domingensis</i> pers. ecotypes for salinity tolerance	Botanical Science	2017	0.496	W	95(4), 807-821	https://doi.org/10.17129/botsci.886
76	Ahmad KS , Hameed M, Fatima S, Ashraf M, Ahmad F, Naseer M, Zahoor A, Ahmad I.	Tribe Andropogoneae from Neelum Valley, Zad Jammu and Kashmir: Phylogeny based on Morpho-anatomy	Pakistan Journal of Botany	2017	0.658	W	49(SI): 73-82	http://www.pakbs.org/pjbot/
77	Nawaz F, Naeem M, Akram M, Ashraf MY, Ahmad KS , Zulifqar B, Sardar H, Shabir N, Majid S, Shahzad MA, Anwar I.	Seed priming with KNO ₃ mediates biochemical processes to inhibit lead (Pb) toxicity in maize (<i>Zea mays</i> L.).	Journal of the Science of Food and Agriculture	2017	2.463	W	97(14):4780-9	https://doi.org/10.1002/jsfa.8347
78	Naseer M, Hameed M, Zahoor A, Ahmad F, Fatima S, Ahmad MS, Ahmad KS , Iftikhar M.	Photosynthetic response in buttonwood (<i>Conocarpus erectus</i> L.) To salt stress	Pakistan Journal of Botany	2017	0.658	W	49: 847-856	https://www.pakbs.org/pjbot/papers/1497347543.pdf
79	Ahmad KS* , Hameed M, Ashraf M, Hamid A, Nawaz F, Deng J, Ahmad F, Fatima S.	Leaf physiological and biochemical adaptations in <i>Leptothrium senegalense</i> (Poaceae) to salt stress	Phyton Annales rei Botanicae	2016	0.501	W	56: 279-293	https://www.verlag-berger.at/author/Ahmad%20u.a./
80	Ahmad KS* , Hameed M, Deng J, Ashraf M, Hamid A, Ahmad F, Fatima S, Akhtar N.	Ecotypic adaptations in Bermuda grass (<i>Cynodon dactylon</i>) for altitudinal stress tolerance	Biologia	2016	0.496	W	71: 885-895	https://link.springer.com/article/10.1515/biolog-2016-0113
81	Ahmad KS , Hameed M, Fatima S, Ahmad F, Ashraf M, Naseer M, Akhtar N.	Morpho-anatomical and physiological response to high altitude in some Aveneae grass from Neelum Valley, Western Himalayan Kashmir	Acta Physiological Plantarum	2016	1.563	W	38: 1-14	https://link.springer.com/article/10.1007%2Fs11738-016-2114-x
82	Ahmad KS , Hameed M, Ahmad F, Sadia B.	Edaphic factors as major determinants of plant distribution of Temperate Himalayan grasses	Pakistan Journal of Botany	2016	0.658	W	48: 567-573	https://www.pakbs.org/pjbot/PDFs/48(2)/19.pdf
83	Deng J, He F, Zhang Y, Ding C, Zhang L, Zhou Y, Ahmad KS , Yang R.	Phylogenetic and ancestral area reconstruction of Zingiberales from plastid genomes	Biochemical System of Ecology	2016	0.929	W	66: 123-128	https://doi.org/10.1016/j.bse.2016.03.013
84	Naz N, Fatima S, Hameed M, Batool R, Ashraf M, Ahmad F, Ahmad MSA, Naseer M, Zahoor A, Ahmad KS .	Adaptations for salinity tolerance in <i>Sporobolus ioclados</i> (Nees ex Trin.) Nees from saline desert.	Flora	2016	1.59	W	223: 46-55	https://doi.org/10.1016/j.flora.2016.04.013
85	Hussain M, Ahmad KS* , Majeed M, Hamid A, Mehmood A, Yousaf MM, Chaudhry MS, Shah MJ, Hussain K, Ahmad B, Khan AQ.	Integrated management of <i>Helicoverpa armigera</i> on different genotypes of Kabuli Chickpea in Punjab, Pakistan	International Journal of Bioscience	2016	0.658	W	9: 110-119	http://dx.doi.org/10.12692/ijb/9.2.110-119

86	Ahmad F*, Hameed M, Ahmad KS.	Tetrapogon cenchriformis and Parapholis strigosa, (Poaceae), Two New Reports from Pakistan	Research & Reviews	2016	0.658	W	5(3):18-21	https://www.rroij.com/open-access/tetrapogon-cenchriformis-and-parapholis-strigosa-poaceae-twonew-reports-from-pakistan-php?aid=74487
87	Matthews A, Emelianova K, Hatimy AA, Chester M, Pellicer J, Ahmad KS , Guignard MS, Rouhan G, Soltis DE, Soltis PS, Leitch IJ, Leitch AR, Mavrodiev EV, Buggs RJA.	250 years of hybridization between two biennial herb species without speciation	AoB PLANTS	2015	2.079	W	7: plv081.	https://doi.org/10.1093/aob/pla/plv081
88	Deng J, Liu J, Ahmad KS , Ding C, Zhang L, Zhou Y, Yang R.	Relationships evaluation on six herbal species (Curcuma) by DNA barcoding	Pakistan Journal of Botany	2015	0.947	W	47: 1103-1109.	https://www.pakbs.org/pjbot/PDFs/47(3)/36.pdf
89	Ahmad F, Hameed M, Ahmad KS , Ashraf M, Ahmad M, Zafar M.	Role of anatomical markers in tribe Paniceae (Poaceae) from the Salt Range, Pakistan	International Journal of Agricultural Biology	2015	0.758	W	17: 271–279	https://www.fspublishers.org/published_papers/5584_pdf
90	Ahmad KS* , Qureshi R, Hameed M, Ahmad F, Nawaz T.	Conservation assessment and medicinal uses of some important plants resources of Neelum Valley, Azad Jammu & Kashmir, Pakistan	International Journal of Agriculture and Biology	2012	0.972	W	14: 997-1000	https://www.fspublishers.org/published_papers/5584_pdf
91	Ahmad KS* , Kayani WK, Hameed M, Ahmad F, Nawaz T.	Floristic diversity and ethnobotany of Senhsa, district Kotli, Azad Jammu & Kashmir (Pakistan)	Pakistan Journal of Botany	2012	1.112	W	44: 195-201	http://www.pakbs.org/pjbot/PDFs/44(SI2)/27.pdf
92	Ahmad F, Hameed M, Ashraf M, Ahmad M, Khan A, Nawaz T, Ahmad KS , Zafar M.	Role of leaf epidermis in identification and differentiation of grasses in tribe Chlorideae (Poaceae) from Pakistan	Journal of Medicinal Plant Research	2012	0.972	W	6: 1955-1960	https://academicjournals.org/journal/JMPR/article-abstract/9CDF02632536
93	Gill AH, Ahmad KS , Habib S, Hameed M, Ahmad MSA, Nawaz T, Ahmad F, Batool R.	Impact of highly saline wetland ecosystem on floral diversity of the Cholistan desert	Pakistan Journal of Botany	2012	0.972	W	44: 107-112	http://www.pakbs.org/pjbot/PDFs/44(SI2)/15.pdf
94	Hameed M, Nawaz T, Ashraf M, Ahmad F, Ahmad KS , Ahmad MSA, Hussain M, Ahmad I.	Floral biodiversity and conservation status of the Himalayan foothill region, Punjab.	Pakistan Journal of Botany	2012	0.972	W	44: 143-149	https://www.pakbs.org/pjbot/PDFs/44(SI2)/20.pdf
95	Nawaz T, Hameed M, Ashraf M, Ahmad F, Ahmad MSA, Hussain M, Ahmad I, Younis A, Ahmad KS.	Diversity and conservation status of economically important Flora of the salt range, Pakistan	Pakistan Journal of Botany	2012	0.972	W	44: 203-211	https://www.pakbs.org/pjbot/PDFs/44(SI2)/28.pdf

RESEARCH STUDENTS SUPERVISED

Supervision Level	Number of Students under supervision / supervised
PhD	4
M.Phil	34
BS / M.Sc	14

CONFERENCES / WORKSHOPS / SEMINARS

1. Participated and presented an oral talk on “Green Solutions: Phytoremediation potential and adaptative mechanism in plants through Physiological Adjustment to Metal Stress in Stone Crushing Environments” in “ESA Emerging Scientist Conference organized by Asian Digital Library Faisalabad on February 16-17, 2024.
2. Participated and presented an oral talk on “Transgenerational seed exposure to elevated CO₂ memorizes the drought recovery metabolic processes in *Triticum aestivum*” at the International Conference on “Biodiversity and Medicinal Plants: A Way Forward to Sustainable Development” (BMP-SD 2023) on December 14-16, 2023, at the Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi.
3. Participated and presented a talk on “Heavy metals toxicity, health risk index and plant survival strategies in wild vegetables of Islamabad, Pakistan” in the 2nd International Conference on Recent Approaches in Plant Sciences (RAPS-2023) Organized by the Department of Botany, Division of Science and Technology, University of Education Lahore, on May 4-5, 2023.
1. Participated and presented a talk on “Estimation of yield loss in maize (*Zea mays* L.) single cross F1s hybrids and parents under Northern Corn Leaf Blight (NCLB) epiphytes at Rawalakot Azad Jammu and Kashmir” in international conference on Food Security Through Sustainable Plant Protection Strategies organized by Department of Plant Protection, The university of Agriculture, Peshawar, January 16-20, 2022.
2. Participated in 8th International and 17th National Conference on “Advances in Plant Science in the Era of Climate Change organized by GC University Lahore and Institute of Botany, University of Punjab Lahore from October 26th to 28th, 2022 and presented a talk on “Intraspecific leaf trait variations in Himalayan shrub *Rubus ellipticus* L. along soil gradient”.
3. Department of Botany, University of Poonch, Rawalakot organized one day seminar on “Food self-sufficiency: opportunities and challenges” and delivered a talk on “Weed flora of AJK” on September 21, 2021.
4. Presented a talk as invited speaker on “Edaphic factors are the major determinants of leaf trait variation in high altitude *Daphne laureola* L.” in at 3rd International Conference on Environment and Sustainable Development (ICESD) organized by SDSC, GC University Lahore, from September 13 – 15, 2021.
5. Participated as invited speaker in International online conference on “Dynamic strategies in plant sciences for crop sustainability and food security” on May 26-27, 2021, organized by Department of Botany, Govt. College Women University Faisalabad.
6. Participated in international webinar “Role of youth in global biodiversity conservation” on 18 May 2021, organized by Horticultural Society, GC University Lahore.
7. Participated in international webinar “Role of Biodiversity Information in Global Biodiversity Information Facility” on 21 May 2021, Department of Botany, GC University Lahore.
8. Participated in international webinar “Pandemic, preparedness, one health: lesson learnt” on 04 May 2021, organized by Pakistan Academy of Sciences Islamabad.
9. Participated in “Fourth international conference on biosciences (ICBS-2021)” on 15th June 2021 organized by Biological Society of Pakistan at Quaid-i-Azam University, Islamabad.
10. Organized one-day international seminar on “Plant functional traits, community assembly and ecosystem functioning” given by Prof. Dr. Arshad Ali from Nanjing University China on Tuesday September 8, 2020
11. Participated in one-Day International online seminar on “Biodiversity for Sustaining Life” on the Eve of World Environment Day dated 5th July 2020 organized by Department of Botany, PMS, Arid Agriculture University Rawalpindi Pakistan.
12. Participated in one-day International Online Symposium on “Cultural Heritage and Human Resilience in Desert Environment” Dated 17th June 2020 Organized by the Department of Botany PMS, Arid Agriculture University Rawalpindi Pakistan.
13. Participated in one-day International Online seminar on “Nature for Life Solutions” Dated 3rd June 2020 on the Eve of International Biodiversity Day organized by Department of Botany, PMS, Arid Agriculture University Rawalpindi Pakistan.
14. 2-day training workshop on “Georeferencing of Plant Occurrence Data from Pakistan” organized by Herbarium of Pakistan Quid-i-Azam University Islamabad on 9th to 10th March 2020.
15. 2-day training workshop on “Mobilization of Plant Occurrence Data from Pakistan” organized by Herbarium of Pakistan Quid-i-Azam University Islamabad on 13th to 14th November 2019.

16. Organized 6th International Conference on "Sustainable Agriculture in Changing Climate: Strategies and Management" June 19-21, 2019, at Faculty of Agriculture, University of the Poonch Rawalakot, Azad Jammu and Kashmir.
17. Chief organizer of one-day international seminar on "Inhibition of bacterial Quorum Sensing in MDR pathogens via bioassay guided fractionation of botanical" given by Dr. Salam from Emory University, Atlanta USA. June 2019.
18. Participated as invited speaker in International Conference on "Recent Updates in Biotechnology", October 16-18, 2019, AIOU, Islamabad, Pakistan. Organized by Abdul Wali Khan University Mardan.
19. Two days' workshop on "Mobilization of plant occurrence data from Pakistan. November 13-14, 2019. Organized by Herbarium of Pakistan, Quaid-i-Azam University, Department of plant sciences, Islamabad.
20. Participated in a seminar entitled "crop wild relatives" in Pakistan organized by NARC in August 2019.
21. Chief Organizer of seminar on Instrumental & Intrinsic Values of Biodiversity. May 25, 2017. Department of Botany, University of Poonch Rawalakot.
22. Participated as invited speaker in international conference on "Plant resources: current trends, challenges and solutions" on March 23-27, 2018, at Islamia College Peshawar, Pakistan.
23. Participated as invited speaker in 2nd International Science Conference "Natural Sciences, Climate & Biodiversity" September 15, 2018. University of Azad Jammu & Kashmir, Muzaffarabad.
24. Awareness seminar on Technology Development Fund. Directorate Oric, University of Azad Jammu & Kashmir, Muzaffarabad. July 10, 2018.
25. "Recent Advances in Hyphenated and Online Analytical Techniques, two-day workshop organized by Department of Chemistry, University of Poonch Rawalakot. 5th-6th July 2018.
26. Participated as invited speaker in 1st International and 2nd National Conference "Challenges and opportunities to boost agriculture in changing climate" Bahauddin Zakariya University. March 26-28, 2018.
27. Two days' workshop entitled "Effective Research Grant Writing" Faculty of Veterinary and Animal Sciences, University of Poonch. June 28-29, 2018
28. One day workshop on "Approaching towards Comprehensive Elimination of Persistent Organic Pollutants (PoPs) in Pakistan, organized by UNDP, Pakistan at PC, Hotel Muzaffarabad on December 18, 2017.
29. Participated as invited speaker in 1st International Conference on Conventional and Modern Approaches in Plant Sciences, November 28-29, 2017, organized by Department of Botany, University of Punjab, Lahore, Pakistan.
30. Two-Days Workshop on Nanomaterials Research, Fabrication and Applications, held on October 12-13, 2017, organized by department of chemistry, University of Hazara Mansehra, Pakistan.
31. One-day seminar on Soil, Water, and Nutrient Conservation in Mountainous, Agriculture, on July 10, 2017, organized by Soil Science Society of Pakistan, The University of Poonch Rawalakot, AJK.
32. Rising level of Arsenic in Drinking Water and Fodder: Threats to Livestock and Human in Pakistan. Conference on Sustainable Crop and Animal Production Systems. December 08-10, 2016. University of Haripur, Pakistan.
33. Participated as invited speaker in 1st National Conference on Sustainable Tourism Development in Azad Jammu and Kashmir, Potential Challenges (November 10-11, 2016) organized by Cultural Heritage Resource Centre, University of Poonch Rawalakot. Sponsored by Conciliation Resource UK.
34. 2-day workshop on "State of the Art Techniques in Taxidermy" organized by Department of Zoology, University of Poonch Rawalakot Azad Jammu & Kashmir, June 22nd, 2016.
35. One day workshop on "Basic to Modern Assay Methods for Chemical and Biological Analysis of Bioactive Molecules" organized by Faculty of Basic and Applied Sciences, Department of Chemistry, University of Poonch Rawalakot Azad Jammu & Kashmir, June 22nd, 2016.
36. Training course on diagnosis of viral diseases Nuclear Institute for Agriculture and Biology (NIAB) Faisalabad, Pakistan (Sept. 20 to 22, 2016).
37. Participated as invited speaker in 14th National & 5th International Conference of Botany on Climate change and: Challenges and Opportunities, University of Karachi, (Jan.15-18, 2016).
38. Two-day National Conference on Applied Aspects of Pharmaceutical Sciences in Patient Care, organized by Department of Pharmacy, Faculty of Medical & Health Sciences in collaboration with HEC Pakistan on June 18-19, 2014.
39. Applications of Biotechnology for Cotton and Other Crops. National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad (Oct 13 to 16, 2014).
40. Participated as invited speaker in 12th National & 3rd International Conference of Botany" at Quaid-i-Azam University, Islamabad, Pakistan. (Sept. 1 to 3, 2012).
41. International conference on Prospects and Challenges of Sustainable Agriculture" Faculty of Agriculture, University of Azad Jammu & Kashmir. (July 14-16, 2011).
42. HEC Workshop on "Imparting Practical Training in Molecular and Biochemical Techniques" New Senate Hall, Sponsored by UAF Dept. of Chemistry & Biochemistry Higher Education Commission (HEC) Islamabad. (Nov. 27, 2012).
43. International symposium on Strategies for conservation of Endangered Ecosystem organized by Department of Botany, University of Agriculture, Faisalabad (April 16-18, 2012).

MEMBERSHIP

- Lifetime member of Pakistan Botanical Society
- Editor *PeerJ* & *PLOS ONE*
- Associate Editor *Frontiers in Plant Science*
- Reviewer for *Journal of Cleaner Production* (Elsevier); *Plant Physiology and Biochemistry* (Elsevier); *BMC Plant Biology* (Springer Nature); *Ecological Indicator* (Elsevier); *Industrial Crops and Products* (Elsevier); *International Journal of Phytoremediation* (Taylor and Francis); *Journal of Environmental and Pollution Research* (Springer); *Hilyon* (Elsevier); *Acta Physiologiae Plantarum* (Springer); *Oikos* (Wiley); *Forests, Agriculture, Plants, Agronomy, Sustainability, Applied Science* (MDPI); *Journal of Arid Land* (Springer); *Biologia* (Springer); *Chemistry and Ecology* (Taylor and Francis); *Brazilian Journal of Pharmacognosy* (Elsevier); *Flora* (Elsevier); *Journal of Ethnobiology and Ethnomedicine* (Springer Nature); *Pharmaceutical Biology* (Taylor and Francis); *Kuwait Journal of Science* (Kuwait University); *Journal of Herbal Medicines* (Elsevier); *Acta Ecologica Sinica* (Elsevier); *Evidence-Based Complementary and Alternative Medicine* (Hindawi); *Science Progress*; *Iquiry* (Sage)

INTERNATIONAL & NATIONAL COLLABORATION

- Dr. Jianyong Wang, Associate Professor, Northeast Normal University, Institute of Grassland Science, Key Laboratory of Vegetation Ecology of the Ministry of Education, Jilin Songnen Grassland Ecosystem National Observation and Research Station Changchun 130024, Jilin Province, China
- Prof. Dr. Mark L. Gleason, Department of Plant Pathology and Microbiology, Iowa State University, Ames, Iowa, United States of America.
- Dr. Ryan Casini, School of Public Health, University of California, Berkeley, 2121 Berkeley Way, Berkeley, CA 94704, USA
- Prof. Dr. Hosam O. Elansary, Department of Plant Production, College of Food & Agriculture Sciences, King Saud University 11451, Riyadh, Saudi Arabia
- Dr. Fahim Nawaz, Assistant Professor, Research School of Biology, The Australian National University, Canberra, Australia Timothy A. Martin, Professor, Tree Physiology, School of Forest, Fisheries, and Geomatics Sciences, University of Florida.
- Pedro F Quintana Ascencio, Professor, Department of Biology, University of Central Florida, USA.
- Prof. Dr. Kweon Heo, Department of Applied Plant Sciences, Kangwon National University, Chuncheon 200-701, Korea.
- Prof. Dr. Yvonne Willi, Department of Environmental Sciences, University of Basel, Switzerland.
- Dr. Douglas E. Soltis & Dr. Pamela Soltis, Distinguished Professors, Laboratory of Molecular Systematics & Evolutionary Genetics, University of Florida, USA.
- Prof. Dr. Andreas Schweiger, University of Hohenheim, Institute of Landscape and Plant Ecology, Dept. of Plant Ecology (320b)
- Dr. Jiabin Deng, Associate Professor at School of Geography and Tourism, Guizhou Education University, China on endemic species of Tibetan Plateau.
- Dr. Wajid Zaman, Research Professor, Department of Life Sciences, Yeungnam University, South Korea.
- Dr. Hakim Manghwar, Associate Professor, Lushan Botanical Garden, Chinese Academy of Sciences, Jiujiang, 332000, China.
- Dr. Tariq Shah, University Bourgogne Franche-Comté, Dijon, France
- Dr. L. Custódio from Centre of Marine Sciences, University of Algarve, Faculty of Sciences and Technology, Ed. 7, Campus of Gambelas, 8005-139 Faro, Portugal
- Prof. Dr. Mushtaq Ahmed, Dr. M. Zafar, Department of Plant sciences, QAU, Islamabad.
- Muhammad Rafi, Principle Scientific Officer, Pakistan Institute of Engineering and Applied Sciences (PIAS)
- Dr. Arshad M. Abbasi, Department of Environmental Sciences, COMSATS University Islamabad (Abbottabad Campus), Pakistan
- Dr. Haroon Ahmed, Associate Professor, COMSATS University Islamabad, Pakistan
- Prof. Dr. Mansoor Hameed, Chairman Department of Botany, University of Agriculture, Faisalabad.
- .
- Dr. Nyla Jabeen, Associate Professor, Department of Biological Sciences, International Islamic University Islamabad (IIUI), Pakistan.
- Dr. Arshad Mehmood Abbasi, COMSATS University Islamabad (Abbottabad Campus), Abbottabad, Pakistan
- Prof. Dr. Naeem Ahmad, Department of Botany, GC Faisalabad, Pakistan

BOOKS/CHAPTERS PUBLISHED

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