

CURRICULUM VITAE

PERSONAL DETAIL

NAME : **Dr. Muhammad Zafar**
FATHER NAME : Muhammad Abdullah
DESIGNATION : Assistant Professor
N.I.C. # : 38302-1115199-3
PRESENT ADDRESS : Herbarium of Pakistan (Isl),
Department of Plant Sciences,
Quaid-i-Azam University,
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ACADEMIC QUALIFICATION

Degree	Year	Subject	Institute
Ph.D.	2011	Plant Taxonomy	Quaid-i-Azam University Islamabad Pakistan
M.Phil.	2006	Plant Taxonomy	Quaid-i-Azam University Islamabad Pakistan
M.Sc.	2000	Biology	PMAS, Arid Agriculture University Rawalpindi Pakistan

RESEARCH PUBLICATIONS

Books & Chapters : 23
Papers with Impact Factor (ISI-Journals) : 231
Papers in HEC Recognized Journals : 45
Abstracts & Proceedings : 71

Total : 370

RESEARCH SUPERVISION

PhD in Progress : 05
Ph.D Produced : 13
M.Phil Produced : 49
M.Phil in Progress : 07

AWARD / HONORS

- Gold Medal from Pakistan Academy of Sciences (PAS) in the field of Botany in 2012 for outstanding research work in the subject.
- Productive Scientist of Pakistan for year 2010-2017

AREAS OF EXPERTISE

Plant Biodiversity, Mellisopalynology, Honey Analysis, Wild Fruits & Vegetables, Data Curating, Herbarium Management, Plant Taxonomy, Medicinal Plants, Ethnobotany

BRIEF INTRODUCTION

Dr. Muhammad Zafar did PhD from Quaid-I- Azam University Islamabad-Pakistan in 2011. Currently he is working as Assistant Professor in the Department of Plant Sciences, Quaid-i-Azam University, Islamabad Pakistan. He is the renowned scientist in the field of medicinal plants, plant biodiversity and **Renewable energy**. He is the founder of first nutraceutical and traditional medicinal plant Lab. and biofuel and Biomass energy laboratory at Quaid-i-Azam University Islamabad Pakistan. Dr. Zafar produced **13 PhD, 49 M.Phil.** research scholars and currently supervising **05 PhD and 07 M.Phil.** research students. He has published so far **370 research papers** with high impact factor and H index in international journals of repute and above 3000 citations.

Dr. Zafar has published 12 **international books** & chapters in the **field of medicinal plant biodiversity and Energy technology**. Ministry of science and technology and Pakistan Academy of Sciences placed Dr. Zafar in the time ten list of most influential Pakistani young scientists and awarded gold medal and productive scientist award. His creative work in the University includes establishment of medicinal plant Lab., biofuel Lab., digital herbarium, botanic garden and nutraceutical laboratory for research in University and linkage with industries for rural and academic development.

Dr. Zafar is the member of international societies like USEA, Pakistan Botanical Society, International Society of Ethnopharmacology, Asian biofuels and associate editor of various journals of repute. He attended and organized more than 100 national and international conferences and delivered plenary lectures on medicinal plants and renewable energy technologies. Currently he is linked with world reputed institutes for collaboration regarding research and development in natural products from medicinal plants and Biomass energy technologies.

PROFESSIONAL EXPERIENCE

Designation	Period	Department / Institute
Assistant Professor	October 2016 to date	Department of Plant Sciences, Quaid-i-Azam University Islamabad Pakistan
Herbarium Botanist	August 2009 October 2016	Department of Plant Sciences, Quaid-i-Azam University Islamabad Pakistan
Bio-Fuels Research Officer	2005-2006	Clean Power (Pvt) Ltd. Islamabad Registered with Alternative Energy Development Board (AEDB) Govt. Pakistan
Research Assistant	2004-2006	Department of Biological Sciences, Quaid-i-Azam University Islamabad. Research work conducted entitled "Palynological and Taxonomic studies of flora of Rawalpindi"
Secondary School Educator	2002-2003	Govt. Higher Secondary School, Kalabagh, Mianwali
Research Fellow	1999-2001	Aquaculture and Fisheries Research Institute (AFRI), at National Agriculture Research Center (NARC), Islamabad

		in the Project entitled “Studies on resource based, ecological diversity and threats to game fish Mahseer in Himalayan-foothill Rivers” funded by WWF-PAKISTAN. Research experience in Fish and Aquatic Plants, Fish Biology, Fish Taxonomy, Fish Nutrition and Water Quality analysis
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CREATIVE WORK / INNOVATIONS

1. Up-gradation of Herbarium of Pakistan at QAU
2. Member for National Curriculum Revision Committee (HEC) for BS program in Pakistan

RESEARCH PUBLICATIONS

BOOK PUBLISHED

S. No.	Publication	Year
01	Sultana, S., Ahmad, M., M. Zafar. 2014. Biodiesel: Non Edible Oil Seeds: Renewable Energy. LAMBERT Publisher, ISBN-13: 978-3659536304 ISBN-10: 365953630X	2014
02	Ahmad, M., Khan, M. A., Zafar, M., Sultana, S. 2012. Practical Handbook of biodiesel production and properties. Taylor & Francis USA.	2012
03	Ayub, J., Zafar, M., Saeed, H. 2012. Taxonomic Studies of Aquatic Plants in Hazara Division, Pakistan. Lambert Academic Publishing (LAP) Germany & USA. www.dnb.d-nb.de	2012
04	Abbasi, A.M., Khan, M.A., Ahmad, M., Zafar, M. 2012. Medicinal Plant Biodiversity of Lesser Himalayas-Pakistan. Springer. 1-220. ISBN 978-1-4614-1574-9.	2012
05	Habiba, U., Zafar, M., Ahmad, M. 2012. Taxonomic & Antimicrobial Studies of Himalayan WoundHealing Plants: Authentication of Himalayan Medicinal plants. Lambert Academic Publishing (LAP) Germany & USA. www.dnb.d-nb.de	2012
06	Shah, G. M., Khan, M. A., Ahmad, M., Zafar, M. 2011. Plants and Plant Resources of Siran Valley, Mansehra, NWFP, Pakistan. Ethnobotany and conservation. VDM Publisher (VDM) Germany & USA	2011
07	Jamal, Z., Khan, M. A., Ahmad, M., Zafar, M. 2011. Floral Biodiversity of Kaghan Valley Mansehra, NWFP, Pakistan. Biodiversity, Ethnobotany and Conservation Status. VDM Publisher (VDM) Germany & USA.	2010
08	Ahmad, M., Khan, M. A., Zafar, M. 2010. Chemotaxonomic authentication of problematic medicinal plants. Lambert Academic Publishing (LAP) Germany & USA. www.dnb.d-nb.de	2010
09	Zafar, M., Ahmad, M., Khan, M. A. 2010. Medicinal Plants standardization. VDM Publisher (VDM) Germany & USA	2010
10	Ahmad, F., Khan, M. A., Ahmad, M., Zafar, M. 2010. Salt Range Grasses of Pakistan. Lambert Academic Publishing (LAP) Germany & USA. www.dnb.d-nb.de	2010

CHAPTER CONTRIBUTED

S. No.	Publication	Year
01	Rashid, S., Zafar, M., Ahamad, M., Sultana, S., Ahmad, S.N., Kilic, O. 2020. “Micro and Macroscopic Characterization of Traded <i>Nigella sativa</i> Seeds Using Applied Systematics Techniques” In Black cumin (<i>Nigella sativa</i>) seeds: Chemistry, Technology, Functionality, and Applications. Pp. 31-44. Springer Nature Switzerzlerland	2020
02	Nazish, M., Zafar, M., Ahamd, M., Sultana, S. 2020. “Halophyte Diversity in Pakistan” Wild Resources and their Ethnobotanical Significance. In Handbook of Halophytes. Springer Nature Switzerzlerland	2020

03	Yaseen, G., Ahmad, M., Zafar, M., Akram, A., Sultana, S., Ahmed, S.N., Kilic, O. 2020. "Sesame (<i>Sesamum indicum</i> L.)" In Green Sustainable Process for Chemical and Environmental Engineering and Science, pp. 253-266. Elsevier.	2020
04	Yaseen, G., Ahmad, M., Zafar, M., Akram, A., Sultana, S., Kilic, O., Sonmez, G.D. 2020. "Current status of solvents used in the pharmaceutical industry" In Green Sustainable Process For Chemical And Environmental Engineering And Science Solvents For The Pharmaceutical Industry. pp. 195-216. Elsevier.	2020
05	Yaseen, G., Ahmad, M., Akram, A., Zafar, M., Sultana, S., Kilic, O., Hussain, A. 2020. "Green solvents for qualitative pharmaceutical analysis" In Green Sustainable Process For Chemical And Environmental Engineering And Science Solvents For The Pharmaceutical Industry. pp. 221-238. Elsevier.	2020
06	Malik, K., Ahmad, M., Zafar, M., Sultana, S., Tariq, A., Rashid, V. 2019. Medicinal Plants Used for Treatment of Prevalent Diseases in Northern Pakistan of Western Himalayas. In Medicinal Plants-Use in Prevention and Treatment of Diseases. IntechOpen.	2019
07	Asif, S., Ahmad, M., Bokhari, A., Fatt, C.L., Zafar, M., Sultana, S., Mir, S. 2019. Chemical Conversion in Biodiesel Refinery." In Prospects of Renewable Bioprocessing in Future Energy Systems, pp. 201-217. Springer, Cham.	2019
08	Ayoub, M., Yusoff, M.H.M., Aqsha, Ullah, S., Farrukh, S., Naqvi, S. R., Ahmad, M., Zafar, M. 2019. Adsorption of Chromium from Aqueous Solution using Powder of Potato Peelings as a Sorbent. Nurture Young Talent. Published by MNNF Publisher, Malaysia. ISBN NO: 978-967-17324-0-3	2019
09	Yaseen, G., Ahmad, M., Potter, D., Zafar, M., Sultana, S., Mir, S. 2018. Ethnobotany of Medicinal Plants for Livelihood and Community Health in Deserts of Sindh-Pakistan. Plant and Human Health: Ethnobotany and Physiology. Springer. 767-814	2018
10	Ahmad, M., Jan, H. A., Sultana, S., Zafar, M., Ashraf, M. A., Ullah, K. 2015. Prospects for the Production of Biodiesel in Pakistan, Biofuels - Status and Perspective, Ph.D. Krzysztof Biernat (Ed.), InTech, DOI: 10.5772/59318. http://www.intechopen.com/books/biofuels-status-and-perspective/prospects-for-the-production-of-biodiesel-in-Pakistan	2015
11	Ahmad, M., Bano, A., Zafar, M., Sultana, S., Rashid, S. 2015. Interdependence of biodiversity, applied ethnobotany and conservation on higher ecosystem of Northern Pakistan under fast climatic changes. In: Climate change impacts on high altitude ecosystem. By: Munir Ozturk, Khalid Rehman Hakeen, Faridah Hanum, Recip efe. (Eds). ISBN. 978-3-319-12858-0. Springer. London	2015
12	Ahmad, M., Teong, L.K., Zafar, M., Sultana, S., Sadia, H., Khan, M.A. 2012. Prospects and Potential of Green Fuel from some Non Traditional Seed Oils Used as Biodiesel by in the book "Biodiesel - Feedstocks, Production and Applications" edited by Zhen Fang, ISBN 978-953-51-0910-5, InTech, December 12, 2012. http://www.intechopen.com/books/biodiesel-feedstocks-production-and-applications/prospects-and-potential-of-green-fuel-from-some-non-traditional-seed-oils-use-as-biodiesel	2012
13	Ahmad, M., Khan, M.A., Zafar, M., Sultana, S. 2011. Biodiesel from Non Edible Oil Seeds: A Renewable Source of Bioenergy. Book entitled "Economic Effects of Biofuel Production". Edited by Dr.-Ing. Marco Aurélio dos Santos Bernardes. Intech open access publishers. http://www.intechopen.com/articles/show/title/biodiesel-from-non-edible-oil-seeds-a-renewable-source-of-bioenergy	2011

A: IMPACT FACTOR PUBLICATIONS (ISI Journals)

S. No.	Publication	Year	Impact
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			Factor
1.	Ali, M.I., Munir, M., Ahmad, M., Waseem, A., Nizami, A.S., Sultana, S., Zafar, M., Rehan, M., Srinivasan, G.R., Ali, A.M. 2020. Biodiesel production from novel non-edible caper (<i>Capparis spinosa</i> L.) seeds oil employing Cu-Ni doped ZrO ₂ catalyst. <i>Renewable and Sustainable Energy Reviews</i> . p.110558.	2020	12.11
2.	Munir, M., Ahmad, M., Rehan, M., Saeed, M., Lam, S.S., Nizami, A.S., Waseem, A., Sultana, S. and Zafar, M. 2020. Production of high-quality biodiesel from novel non-edible <i>Raphanus raphanistrum</i> L. seed oil using copper modified montmorillonite clay catalyst. <i>Environmental Research</i> , p.110398.	2020	5.71
3.	Zafar, M., Kilic, O., Ahmad, M., Lubna. 2020. Taxonomic Study of Some Rare Species of Vitaceae from Pakistan by Foliar Micro-Morphological Approach. <i>Central European Journal of Botany</i> . 6(1), 12-17.	2020	N/A
4.	Zafar, M., Rashid, N., Ahmad, M., Kilic, O. 2020. Morphological Description of Some Forage Legumes of Pakistan. <i>Central European Journal of Botany</i> . 6(1), 18-22.	2020	N/A
5.	Haneef, T., Mustafa, M.R.U., Yusof, K.W., Isa, M.H., Bashir, M.J.K., Ahmad, M., Zafar, M. 2020. Removal of Polycyclic Aromatic Hydrocarbons (PAHs) from Produced Water by Ferrate (VI) Oxidation. <i>Water</i> , 12(11), 1-1-17.	2020	2.54
6.	Nazish, M., Ahmad, M., Ullah, R., Shahat, A.A., Potter, D., Zafar, M. and Sultana, S. 2020. Taxonomic Implications of Leaf Epidermis in Halophytes of Amaranthaceae from Salt range of Punjab, Pakistan. <i>Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology</i> , pp.1-20.	2020	1.78
7.	Zafar, M., Ahmad, M., Shah, G.M., Khan, A.M., Kilic, O., Yilmaz, E., Ozdemir, F.A., Ali, M.I., Shah, M.A., Sultana, S. and Ahmad, S. 2020. Application and implication of scanning electron microscopy for evaluation of palyno- morphological features of Vitaceae from Pakistan. <i>Microscopy Research and Technique</i> . 1-10.	2020	2.117
8.	Usma, A., Ahmad, M., Zafar, M., Sultana, S., Lubna, Kalsoom, N., Zaman, W., Ullah, F. 2020. Micromorphological variations and taxonomic implications of Caryopsis of some Grass from Pakistan. 2020. <i>Wulfenia</i> . 27, 1-11.	2020	0.51
9.	Gul, S., Ahmad, M., Zafar, M., Bahadur, S., Zaman, W., Ayaz, A., Shuaib, M., et al. 2020. "Palynological characteristics of selected Lamiaceae taxa and its taxonomic significance." <i>Microscopy research and technique</i> . 2020. 1-9.	2020	2.117
10.	Cheema, S.I., Ahmad, M., Ullah, R., Mothana, R.A., Noman, O.M., Zafar, M., Sultana, S., Hameed, A., Naz, S., Akhtar, M.A. 2020. "Implication, visualization, and characterization through scanning electron microscopy as a tool to identify nonedible oil seeds." <i>Microscopy research and technique</i> . 2020. 1-15.	2020	2.117
11.	Waheed, K., S. K. Muhammad, A. Shomaila, Z. Muhammad, U. Izhar, S. Ullah. 2020. "Antimicrobial Activity and Phytochemical Screening of <i>Euphorbia helioscopia</i> ." <i>Planta Daninha</i> 38	2020	0.46
12.	Naqvi, S.A., Irfan, A., Zahoor, A.F., Zafar, M., Maria, A., Chand, A.J. Ashfaq, S. 2020. Determination of antimicrobial and antioxidant potential of agro-waste peels. <i>Anais da Academia Brasileira de Ciências</i> , 92(2).	2020	1.28
13.	Ashfaq, S., Ahmad, M., Zafar, M., Sultana, S., Nazish, M., & Khan, A. N. (2020). Systematics of medicinally important weeds of genus <i>Convolvulus</i> : <i>Convolvulaceae</i> . <i>Planta Daninha</i> , 38.	2020	0.46
14.	Jehanzeb, S., Zafar, M., Ahmad, M., Sultana, S., Zaman, W., Ullah, F. 2020. Comparative petiole anatomy of tribe Mentheae subfamily	2020	N/A

	Nepetoideae, Lamiaceae from Pakistan. Feddes Repertorium. . 131(3), 163-174.		
15.	Khan, S.U., Zafar, M., Ullah, R., Abdelaaty, A. 2020 Shahat, Mushtaq Ahmad, Shazia Sultana, and Khafsa Malik. "Pollen diversity and its implications to the systematics of mimosaceous species by LM and SEM." <i>Microscopy Research and Technique</i> . 1-14.	2020	2.117
16.	Ahmed, S.N., Ahmad M., Yaseen, G., Zafar, M., Rashid, S., Nazir, A., Sultana, S., Anjum, F., Ozdemir, F.A., Kilic, O. 2020. "Quality assurance and authentication of herbal drug (<i>Argyrolobium roseum</i> and <i>Viola stocksii</i>) through comparative light and scanning electron microscopy." <i>Microscopy Research and Technique</i> . 1-10.	2020	2.117
17.	Shah, S.N., Ahmad, M., Zafar, M., Hadi, F., Khan, M.N., Noor, A., Malik, K., Rashid, N., Kamal, A., Iqbal, M. 2020. "Spore morphology and leaf epidermal anatomy as a taxonomic source in the identification of <i>Asplenium</i> species from Malakand division Pakistan." <i>Microscopy Research and Technique</i> . 83(11), 1354-1368.	2020	2.117
18.	Raza, J., Ahmad, M., Zafar, M., Athar, M., Sultana, S., Majeed, S., Yaseen, G., Imran, M., Nazish, M., Hussain, A. 2020 "Comparative foliar anatomical and pollen morphological studies of <i>Acanthaceae</i> using light microscope and scanning electron microscope for effective microteaching in community." <i>Microscopy Research and Technique</i> . 83(9), 1103-1117	2020	2.117
19.	Hameed, A., Zafar, M., Ullah, R., Shahat, A.A., Ahmad, M., Cheema, S.I., et al. 2020. "Systematic significance of pollen morphology and foliar epidermal anatomy of medicinal plants using SEM and LM techniques." <i>Microscopy Research and Technique</i> . 83(8), 1007-1022.	2020	2.117
20.	Majeed, S., Zafar, M., Ahmad, M., Kilic, O., Sultana, S., Raza, J., Yaseen, G., et al. 2020. "Pollen morphological investigations of family <i>Cactaceae</i> and its taxonomic implication by light microscopy and scanning electron microscopy." <i>Microscopy Research and Technique</i> . 83(7), 767-777.	2020	2.117
21.	Khan, A.S., Ahmad, M., Zafar, M., Athar, M., Ozdemir, F.A., Gilani, S.A.A., Sultana, S., et al. 2020. "Morphological characterization of <i>Hypnaceae</i> (Bryopsida, Hypnales): Investigating four genera from Western Himalayas by using LM and SEM techniques." <i>Microscopy Research and Technique</i> . 83(6), 676-690.	2020	2.117
22.	Amina, H., Ahmad, M., Bhatti, G.R., Zafar, M., Sultana, S., Butt, M.A., Bahadur, S., et al. 2020. "Microscopic investigation of pollen morphology of <i>Brassicaceae</i> from Central Punjab-Pakistan." <i>Microscopy Research and Technique</i> . 83(4), 446-454.	2020	2.117
23.	Bano, A., Rashid, S., Mushtaq, A., Bhatti, G.R., Yaseen, G., Anjum, F., Ahmed, S.N, et al. 2020. "Comparative pollen and foliar micromorphological studies using light microscopy and scanning electron microscopy of some selected species of <i>Lamiaceae</i> from Alpine Zone of Deosai Plateau, Western Himalayas." <i>Microscopy Research and Technique</i> . 83(6), 579-588.	2020	2.117
24.	Shabir A., Zafar, M., Ahmad, M., Ozdemir, F.A., Lubna, Yaseen, G., Sultana, S., Kutlu, M.A. 2020. Palynological studies of winter weeds melliferous flora of District Bannu, Khyber Pakhtunkhwa, Pakistan. <i>Annali Di Botanica</i> .10	2020	0.938
25.	Ur Rahman, S., Khan, S.M., Ahmad, M., Zafar, M., Khan, R., Khalid, M., Nan, H., Jan, F., Kayani, S.I., Hussain, S. 2020. Light microscopy of Pakistani <i>Berberis</i> leaf cuticles and its taxonomic implications. <i>Microscopy Research and Technique</i> . 83(5): 541-550.	2020	2.117
26.	Tariq, A., Sadia, S., Fan, Y., Ali, S., Amber, R., Mussarat, S., Ahmad, M., Murad, W., Zafar, M., Adnan. M. 2020. Herbal	2020	2.22

	medicines used to treat diabetes in Southern regions of Pakistan and their pharmacological. <i>Journal of Herbal Medicine</i> . 21: 1-8.		
27.	Ahmad, S., Zafar, M., Shinwari, S., Ahmad, M., Shinwari, Z. K., Sultana, S., Butt, M. A. (2020). Ethno-Medicinal Plants And Traditional Knowledge Linked To Primary Health Care Among The Indigenous Communities Living In Western Hilly Slopes Of Dera Ghazi Khan, Pakistan. <i>Pak. J. Bot</i> , 52(2), 519-530	2020	1.8
28.	Ahmed, S.N., Ahmad, M., Zafar, M., Rashid, S., Yaseen, G., Ashfaq, S. and Sultana, S., 2019. Taxonomical and Phytochemical Characterization of Two Highly Traded Medicinal Species of Genus <i>Berberis</i> . <i>Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences</i> , 56(3), 121-125.	2019	N/A
29.	Sadia, Haleema, Muhammad Zafar, Mushtaq Ahmad, Muhammad PZ Khan, Ghulam Yaseen, Muhammad I. Ali, Shazia Sultana et al. 2019. "Foliar epidermal anatomy of some selected wild edible fruits of Pakistan using light microscopy and scanning electron microscopy." <i>Microscopy research and technique</i> . 83(3): 259-267.	2019	2.117
30.	Ahmad, M., M. Zafar, N. Ali. 2019. "Biodiesel synthesis and physiochemical analysis of <i>Taraxacum officinale</i> FH Wigg seed oil." <i>International Journal of Environmental Science and Technology</i> 16, no. 8 : 4103-4112.	2019	2.54
31.	Bahadur, S., Ahmad, M., Zafar, M., Gul, S., Ayaz, A., Ashfaq, S., Rubab, S., Shuaib, M., Ahmad, S. 2019. Taxonomic study of one generic and two new species record to the flora of Pakistan using multiple microscopic techniques. <i>Microscopy Research and Technique</i> . 83(4): 345-353.	2019	2.117
32.	Shafiq, A., Zafar, M., Ahmad, M., Ali, M.I., Sultana, S., Rashid, N., Butt, M.A., Shah, S.N., Ozdemir, F.A., Kutlu, M.A. 2019. Seed morphology using SEM techniques for identification of useful grasses in Dera Ghazi Khan, Pakistan. <i>Microscopy Research and Technique</i> . 83(3): 249-258.	2019	2.117
33.	Shaheen, S., Jaffer, M., Khalid, S., Khan, M.A., Hussain, K., Butt, M.M., Siddiqui, A.R., Ashfaq, M., Ahmad, M., Zafar, M., Khan, F. 2019. Microscopic techniques used for the identification of medicinal plants: A case study of <i>Senna</i> . <i>Microscopy Research and Technique</i> . 82(10): 1660-1667.	2019	2.117
34.	Dawood, S., Ahmad, M., Zafar, M., Ali, M.I., Ahmad, K., Sultana, S., Usma, A., Nazish, M., Butt, M.A., Ozdemir, F.A., Kilic, O. 2019. Identification of novel nonedible oil seeds via scanning electron microscopy for biodiesel production. <i>Microscopy Research and Technique</i> . 83(2): 165-175.	2019	2.117
35.	Ayaz, S., Ahmad, M., Zafar, M., Ali, M.I., Sultana, S., Mustafa, M.R.U., Kilic, O., Çobanoğlu, D.N., Demirpolat, A., Ghani, A. and Afza, R., 2019. Taxonomic significance of cypsel morphology in tribe Cichoreae (Asteraceae) using light microscopy and scanning electron microscopy. <i>Microscopy Research and Technique</i> . 83(3): 239-248.	2019	2.117
36.	Usma, A., Ahmad, M., Zafar, M., Ali, M.I., Kilic, O., Ozdemir, F.A., Sultana, S., Nazir, A., Farida, A., Kalsoom, N. 2019. Taxonomic significance of caryopsis in subfamily Panicoideae (Poaceae) using scanning electron microscopy and light microscopy. <i>Microscopy Research and Technique</i> . 82(10): 1649-1659.	2019	2.117
37.	Shah, S.N., Ahmad, M., Zafar, M., Ullah, F., Zaman, W., Malik, K., Rashid, N., Gul, S. 2019. Taxonomic importance of spore morphology in Thelypteridaceae from Northern Pakistan. <i>Microscopy Research and Technique</i> . 82(8): 1326-1333.	2019	2.117
38.	Naz, S., Zafar, M., Ahmad, M., Memon, R.A., Sultana, S., Bahadur,	2019	2.117

	S., Ozdemir, F.A., Siddiq, Z., Shah, M.A. 2019. Palynological investigation of lactiferous flora (Apocynaceae) of District Rawalpindi, Pakistan, using light and scanning electron microscopy. <i>Microscopy Research and Technique</i> . 82(9): 1410-1418.		
39.	Khan, S.U., Zafar, M., Ahmad, M., Anjum, F., Sultana, S., Kilic, O., Ozdemir, F.A., Nazir, A., Yaseen, G., Aabidin, S.Z.U., Abbas, Q., Ahmad, M., Ullah, F., Majeed, S. 2019. Pollen micromorphological analysis of tribe Acacieae (Mimosaceae) with LM and SEM techniques. <i>Microscopy Research and Technique</i> . 82(9): 1610-1620.	2019	2.117
40.	Ur Rahman, S., Khan, S.M., Zafar, M., Ahmad, M., Khan, R., Hussain, S., Khalid, M., Kayani, S.I. 2019. Pollen morphological variation of <i>Berberis</i> L. from Pakistan and its systematic importance. <i>Microscopy Research and Technique</i> . 82(9): 1593-1600.	2019	2.117
41.	Yaseen, G., Ahmad, M., Shinwari, S., Potter, D., Zafar, M., Zhang, G., Shinwari, Z.K., Sultana, S. 2019. Medicinal Plant Diversity Used for Livelihood of Public Health in Deserts and Arid Regions Of Sindh-Pakistan. <i>Pakistan Journal of Botany</i> . 51(2): 657-679.	2019	0.8
42.	Mamoon, M., Saeed, M., Ahmad, M., Waseem, M., Sultana, S., Zafar, M., Srinivasan, G.R. 2019. Optimization of novel <i>Lepidium perfoliatum</i> Linn. Biodiesel using zirconium-modified montmorillonite clay catalyst. <i>Energy Sources, Part A: Recovery, Utilization, and Environmental Effects</i> . 2019: 1-16.	2019	1.184
43.	Zafar, M., Ahmad, M., Sultana, S., Anjum, F., Ozdemir, F.A., Tariq, A., Nazir, A., Yaseen, G., Aabidin, S.Z.U., Gul, H. and ur Rehman, S., 2019. Light microscopy and scanning electron microscopy: Implications for authentication of misidentified herbal drugs. <i>Microscopy Research and Technique</i> . 82(10): 1779-1786.	2019	2.117
44.	Munir, M., Ahmad, M., Saeed, M., Waseem, A., Rehan, M., Nizami, A.S., Zafar, M., Arshad, M., Sultana, S. 2019. Sustainable production of bioenergy from novel non-edible seed oil (<i>Prunus cerasoides</i>) using bimetallic impregnated montmorillonite clay catalyst. <i>Renewable and Sustainable Energy Reviews</i> . 109: 321-332.	2019	12.11
45.	Ahmad, S., Zafar, M., Ahmad, M., Lubna, Yaseen, G., Sultana, S. 2019. Microscopic investigation of palyno-morphological features of melliferous flora of Lakki Marwat district, Khyber Pakhtunkhwa, Pakistan. <i>Microscopy Research and Technique</i> . 82(6): 720-730.	2019	2.117
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206.	Ahmad, M., Ahmed, S., Hassan, F.U., Arshad, M., Khan, M.A., Zafar, M., Sultana, S. 2010. Base catalyzed transesterification of sunflower oil Biodiesel. <i>African Journal of Biotechnology</i> . 9(50): 8630-8635.	2010	0.578
207.	Jabeen, A., Khan, M.A., Ahmad, M., Zafar, M., Ahmad, F. 2009. Indigenous Uses of Economically Important Floras of Margallah Hills National Park, Islamabad, Pakistan. <i>African Journal of Biotechnology</i> . 8(5): 763-784.	2009	0.578
208.	Ahmad, F., Khan, M.A., Ahmad, M., Zafar, M., Nazir, A., Marwat, S.K. 2009. Taxonomic studies of grasses and their indigenous uses in the salt range area of Pakistan. <i>African Journal of Biotechnology</i> . 8 (2): 231-249.	201	0.578

209.	Abbasi, A.M., Khan, M.A., Ahmad, M., Zafar, M., Khan, H., Muhammad, N., Sultana, S. 2009. Medicinal plants used for the treatment of jaundice and hepatitis based on socio-economic documentation. <i>African Journal of Biotechnology</i> . 8(8): 1643-1650.	2009	0.578
210.	Ahmad, K., Khan, M.A., Ahmad, M., Zafar, M., Arshad, M. 2009. Taxonomic Diversity of Stomata in Dicot Flora of District Tank, N.W.F.P, Pakistan. <i>African Journal of Biotechnology</i> . 8(6): 1052-1055.	2009	0.578
211.	Ahmad, M., Khan, M.A., Rashid, U., Zafar, M., Arshad, M., Sultana, S. 2009. Quality assurance of herbal drug valerian by using chemotaxonomic markers. <i>African Journal of Biotechnology</i> . 8(6): 1148-1145.	2009	0.578
212.	Shah, G.M., Khan, M.A., Ahmad, M., Zafar, M., Khan, A.A. 2009. Observations on antifertility and abortifacient herbal drugs. <i>African Journal of Biotechnology</i> . 8(9): 1959-1964.	2009	0.578
213.	Marwat, S.K., Khan, M.A., Ahmad, M., Zafar, M., Ahmad, F. 2009. Taxonomic studies of nodulated leguminous weeds from the flora of North Western part (Dera Ismail Khan) of Pakistan. <i>African Journal of Biotechnology</i> . 8(10): 2163-2168.	2009	0.578
214.	Jahan, S., Rasool, S., Khan, M.A., Ahmad, M., Zafar, M., Arshad, M., Abbasi, A.M. Antifertility effects of ethanolic seed extract of <i>Abrus precatorius</i> L. on sperm production and DNA integrity in adult male mice. <i>Journal of Medicinal Plant Research</i> . 3(10): 809-814.	2009	0.879
215.	Shaheen, N., Khan, M.A., Yasmin, G., Ahmad, M., Mahmood, T., Hayat, M.Q., Zafar, M. 2009. Foliar epidermal anatomy and its systematic implication within the genus <i>Sida</i> L. (Malvaceae). <i>African Journal of Biotechnology</i> . 8 (20): 5328-5336.	2009	0.578
216.	Shaheen, N., Khan, M.A., Yasmin, G., Hayat, M.Q., Ahmad, M., Zafar, M., Jabeen, A. 2009. Implication of foliar epidermal features in the taxonomy of <i>Abutilon</i> Mill. (Malvaceae). <i>Journal of Medicinal Plant Research</i> . 3(12): 1002-1008.	2009	0.879
217.	Jahan, S., Saeed, N., Ijlal, F., Khan, M.A., Ahmad, M., Zafar, M., Abbasi, A.M. 2009. Histomorphological study to evaluate anti-fertility effect of <i>Abrus precatorius</i> L. in adult male mice. <i>Journal of Medicinal Plant Research</i> . 3(12): 1021-1028.	2009	0.879
218.	Ahmad, M., Khan, M.A., Zafar, M., Hasan, A., Sultana, S., Shah, G.M., Tareen, R.B. 2009. Chemotaxonomic authentication of Herbal Drug Chamomile. <i>Asian Journal of Chemistry</i> . 21(5): 3395-3410.	2009	0.253
219.	Ahmad, M., Zafar, M., Khan, M.A., Sultana, S. 2009. <i>Pongamia pinnata</i> as a biodiesel resource in Pakistan. <i>Energy Sources, Part A: Recovery, Utilization, and Environmental Effects</i> . 31: 1436-1442.	2009	1.184
220.	Marwat, S.K., Khan, M.A., Ahmad, M., Zafar, M. 2009. <i>Nyphoides indica</i> (L.) Kuntze, a new record for Pakistan. <i>Pakistan Journal of Botany</i> . 41(6): 2657-2660.	2009	0.81
221.	Khan, M.A., Sharif, T., Ahmad, M., Zafar, M., Tareen, R.B. 2009. Anatomical characterization of parasitic plants of Pakistan. <i>Pakistan Journal of Botany</i> . 41(6): 2661-2669.	2009	0.81
222.	Ahmad, M., Qureshi, R., Arshad, M., Khan, M.A., Zafar, M. 2009. Traditional herbal remedies used for the treatment of diabetes from district Attock (Pakistan). <i>Pakistan Journal of Botany</i> . 41(6): 2777-2782.	2015	0.81
223.	Yasmin, G., Khan, M.A., Shaheen, N., Hayat, M.Q., Ahmad, M., Zafar, M. 2009. Taxonomic utility of Palynological characters in the genus <i>Fallopia</i> , Family Polygonaceae from Pakistan. <i>International Journal of Agriculture Biology</i> . 11: 798-800.	2009	0.808
224.	Ahmad, M., Khan, M.A., Zafar, M., Hasan, A., Ahmad, Z., Akhter, G., Gulzar, S., Sultana, S. 2008. Base Catalyzed Transesterification of	2008	0.253

	<i>Brassica alba</i> Oil and its association with mineralogy to Environment Friendly Biodiesel. Asian Journal of Chemistry. (8):20: 6402-6410.		
225.	Ahmad, M., Zafar, M., Khan, M.A., Sultana, S. 2008. Methanolysis of Cottonseed Oil for Biodiesel: As Renewable Source of Energy. Asian Journal of Chemistry. 6(20): 4565-4570.	2008	0.253
226.	Ahmad, M., Khan, M.A., Zafar, M. 2008. Traditional herbal cosmetics used by local women communities in district Attock of Northern Pakistan. Indian Journal of Traditional Knowledge. 7(3): 421-424.	2008	0.73
227.	Ahmad, M., Khan, M.A., Hasan, A., Zafar, M., Sultana, S. 2008. Chemotaxonomic standardization of herbal drugs Milk thistle and Globe thistle. Asian Journal of Chemistry. 6(20): 4443-4459.	2008	0.253
228.	Ahmad, M., Khan, M.A., Zafar, M., Sultana, S. 2007. Treatment of common ailments by plant based remedies among the local people of District Attock (Punjab) of Northern Pakistan. African Journal of Traditional, Complementary and Alternative Medicines. 4(1): 112-120.	2007	0.518
229.	Zafar, M., Ahmad, M., Khan, M.A. 2007. Palynology of family Asteraceae from Flora of Rawalpindi-Pakistan. International Journal of Agriculture Biology. 9(1): 156-161.	2007	0.808
230.	Munsif, S., Khan, M.A., Ahmad, M., Zafar, M., Shah, G.M., Yasmin, G. 2007. Comparative Pollen Studies of the Genera <i>Lantana</i> , <i>Verbena</i> and <i>Vitex</i> of Family Verbenaceae from Pakistan. International Journal of Agriculture Biology. 4: 545-549.	2007	0.808
231.	Nazir, A., Akhtar, N., Zafar, M., Afzal, M., Rab, A. 2005. Performance and feeding response of Tor Putitora to formulated diet in relation to temperature under captive conditions. Pakistan Journal of Zoology. 37(2): 153-155.	2005	0.309

B: HEC RECOGNIZED (INTERNATIONAL PUBLICATIONS)

S. No.	Publication	Year
1.	Raja, S.S., Siddique, Z., Gilani, A., Ahmad, M., Zafar, M., Shah, G.M., Khan, R., Idrees, M., Mohiuddin, M., Ullah, M.M.A. 2018. Traditional phyto-remedies for wounds healing used by local community of Tehsil Kahuta, District Rawalpindi, Pakistan. International Journal of Biosciences. 12(4): 241-254.	2018
2.	Ikram, S., Khan, M.A., Ahmad, M., Parvaiz, M., Bhatti, K.H., Zafar, M., Altaf, R., Fahad, M. 2013. Palynological characterization of wetland flora of Sialkot District, Pakistan. Pacific Journal of Life Sciences. 2(1): 73-80.	2013
3.	Shah, A., Marwat, S.K., Gohar, F., Khan, A., Bhatti, K.H., Amin, M., Din, N.U., Ahmad, M., Zafar, M. 2013. Ethnobotanical Study of Medicinal Plants of Semi-Tribal Area of Makerwal & Gulla Khel (Lying between Khyber Pakhtunkhwa and Punjab Provinces), Pakistan. American Journal of Plant Sciences. 4: 98-116.	2013
4.	Niamat, R., Khan, M.A., Khan, K.Y., Ahmed, M., Mazari, P., Ali, B., Mustafa, M., Zafar, M. 2012. A Review on Zizyphus as Antidiabetic. Journal of Applied Pharmaceutical Science. 2(3): 177-179.	2012
5.	Ali, F., Din, S.U., Khan, M.S., Iqbal, A., Anwar, M., Murad, S.W., Ahmad, M., Zafar, M. 2012. Taxonomic study of family Brassicaceae of Mardan District, Khyber Pakhtun Khwa, Pakistan. Scientific Research and Essays. 7(34): 3073-3076.	2012
6.	Mazari, P., Khan, M.A., Ahmad, M., Khan, K.Y., Zafar, M., Ali, B., Niamat, R. 2012. Pollen fertility estimation of selected taxa of Kaghan valley, Pakistan. Research in Plant Biology. 2(4): 16-21.	2012
7.	Abbasi, A.M., Khan, M.A., Ahmad, M., Zafar, M. 2012. Ethno-pharmacological investigation of medicinal plants Against gastrointestinal disorders in livestock.	2012

	International Journal of Universal Pharmacy and Life Sciences. 2(1): 1-3.	
8.	Asmat, T., Khan, M.A., Ahmad, M., Zafar, M. 2011. Studies on the Pollen Morphology of the Genus <i>Kickxia</i> , <i>Scrophularia</i> and <i>Veronica</i> (Scrophulariaceae) from Dir Valley, Pakistan. International Journal of Life Science and Medical Sciences. 1(1): 9-12.	2011
9.	Ahmad, M., Khan, M.A., Marwat, S.K., Zafar, M., Khan, M.A., Hassan, T.U., Sultana, S. 2009. Useful Medicinal Flora Enlisted in Holy Quran and Ahadith. American-Eurasian Journal of Agriculture & Environmental Sciences. 5 (1): 126-140.	2009
10.	Qureshi, S.J., Khan, M.A., Arshad, M., Rashid, A., Ahmad, M., Zafar, M. 2009. Morphological, palynological, and anatomical investigations of <i>Hieracium</i> L. (Lactuceae, Asteraceae) in Pakistan. Métodos en Ecología y Sistemática. 4(3): 1-22.	2009
11.	Khan, M.A., Ahmad, M., Zafar, M., Sultana, S., Marwat, S.K. 2008. A Pollinarium pictorial of Asclepiads from Pakistan. Asklepios. 101: 21-23.	2008
12.	Ahmad, M., Khan, M.A., Zafar, M., Sultana, S., Gulzar, S. 2007. Indigenous Plants Based Biodiesel Resources in Pakistan. http://www.siu.edu/~ebl/leaflets/biodiese.htm	2007
13.	Ahmad, M., Khan, M.A., Zafar, M. 2007. Treatment of diabetes by plant based medicine in District Attock (Pakistan). Journal of Phytopharmacotherapy and Natural Products. India. 1(1): 1-8.	2007
14.	Ahmad, M., Khan, M.A., Zafar, M., Awan, A.G. 2007. A taxonomic and medicinal account of the Asclepiadaceous species in the Salt Range of Pakistan. Asklepios. 97: 3-12.	2007
15.	Ahmad, M., Zafar, M., Khan, M.A., Ahmad, Z., Monalisa, Fayyaz, M. 2007. Diversity of Asclepiads in Potwar Plateau of Pakistan. Asklepios. 99: 5-17.	2007
16.	Sultana, S., Khan, M.A., Ahmad, M., Zafar, M. 2006. Indigenous Knowledge of Folk Herbal Medicines By The Women Of District Chakwal, Pakistan. http://www.siu.edu/~ebl/leaflets/chakwal.htm	2006
17.	Zafar, M., Ahmad, M., Khan, M.A., Abbas, A. 2006. Pollen Pictorial of some Medicinal Plants from Pakistan. Journal of Ethnobotany. http://Www.Siu.Edu/~Ebl/Leaflets/Pollen.htm	2006
18.	Ahmad, M., Khan, M.A., Manzoor, S., Zafar, M., Sultana, S. 2005. Check List of Medicinal Flora Of Tehsil Isakhel, District Mianwali-Pakistan. Journal of Ethnobotanical Leaflets. http://www.siu.edu/~ebl/leaflets/tehsel.htm	2005
19.	Mahmood, A., Ahmad, M., Jabeen, A., Zafar, M., Nadeem, S. 2004. Pharmacognostic studies of some indigenous medicinal plants of Pakistan. Journal of Ethnobotanical Leaflets. http://www.siu.edu/~ebl/leaflets	2004

C: HEC RECOGNIZED (NATIONAL PUBLICATIONS)

S. No.	Publication	Year
01	Adnan, Adil, S., Ahmad, M., Zafar, M., Khan, M.A., Amir, F., Wali, A., Iqbal, A. 2017. Leaf epidermal anatomy of dominant aquatic plant species in Swat Valley, Pakistan. Journal of Biodiversity and Environmental Sciences (JBES). 11(4), 201-208.	2017
02	Rozina, Ahmad, M., Zafar, M., Qasim, M., Zainulabidin, S. 2017. Ethnomedicinal uses of plants for blood purification in disitric Swabi, Khyber Pakhtunkhwa, Pakistan. Journal of Rural Development and Agriculture. 2(1): 41-56.	2017
04	Jan, G., Khan, M.A., Gul, F., Ahmad, M., Jan, M., Zafar, M. 2010. Ethnobotanical study of common weeds of Dir Kohistan valley, Khyber Pakhtoonkhwa, Pakistan. Pakistan Journal of Weed Science Research. 16(1): 81-88.	2010
05	Ahmad, K., Khan, M.A., Ahmad, M., Zafar, M., Zulqarnain. 2009. Morpho-palynological and leaf epidermal anatomy of weeds of district Tank, NWFP Pakistan. Pakistan Journal of Weed Sciences. 15(4): 309-320.	2009
06	Marwat, S.K., Khan, M.A., Khan, M.A., Ahmad, M., Zafar, M., Rehman, F.,	2009

	Sultana, S. 2009. <i>Salvadora persica</i> , <i>Tamarix aphylla</i> and <i>Zizyphus mauritiana</i> -Three Woody Plant Species Mentioned in Holy Quran and Ahadith and Their Ethnobotanical Uses in North Western Part (D.I. Khan) of Pakistan. Pakistan Journal of Nutrition 8 (5): 530-538.	
07	Marwat, S.K., Khan, M.A., Khan, M.A., Ahmad, M., Zafar, M., Rehman, F., Sultana, S. 2009. Vegetables Mentioned in the Holy Qura'n and Ahadith and Their Ethnomedicinal Studies in Dera Ismail Khan, N.W.F.P., Pakistan. Pakistan Journal of Nutrition. 8 (5): 530-538.	2009
08	Marwat, S.A., Khan, M.A., Ahmad, M., Zafar, M., Rehman, F. 2008. Ethnophytomedicines for treatment of various diseases in DI Khan. Sarhad Journal of Agriculture. 24(2): 305-312.	2008
09	Bibi, F., Khan, M.A., Ahmad, M., Zafar, M. 2007. Leaf epidermal anatomy of some grasses. Pakistan Journal of Science. 59(1-2): 47-51.	2007
10	Munsif, S., Khan, M.A., Ahmad, M., Zafar, M., Shah, G.M., Shaheen, N. 2007. Leaf Epidermal Anatomy as an Aid to the Identification of Genera <i>Lantana</i> , <i>Verbena</i> and <i>Vitex</i> of Family Verbenaceae from Pakistan. Journal of Agriculture and Social Science. 3(2): 43-46.	2007
11	Ahmad, M., Khan, M.A., Zafar, M. 2007. Medico-botanical investigation of medicinal plant <i>Zanthoxylum alatum</i> Roxb. Journal Hamdard Medicus. 50(4): 67-71.	2007
12	Kanwal, A., Ahmad, M., Noor, M.J., Pervez, S. Pharmacognostic study of A local medicinal plant, <i>Pongamia pinnata</i> L. 2006. Journal Hamdard Medicus. XLIV (3):	2006
13	Shah, G.M., Khan, M.A., Ahmad, M., Zafar, M. 2006. Ethnobotanical studies on fodder and honeybee flora of Siran Valley, Pakistan. Scientific Khyber. 19(2): 151-163.	2006
14	Kanwal, A., Ahmad, M., Asghar, R., Noor, M.J., Pervaiz, S. 2006. Pharmacognostic study of a local medicinal plant, <i>Pongamia pinnata</i> L. Hamdard Medicus. XLIX (3):106-110.	2006
15	Zafar, M., Khan, M.A., Ahmad, M., Sultana, S. 2006. Palynology as an aid to the identification of Convolvulaceae from Flora of Rawalpindi. Pakistan Journal of Science. 58(3-4): 89-92.	2006
16	Zafar, M., Ahmad, M., Khan, M.A. 2006. Pollen flora of Lamiaceae from Rawalpindi Pakistan. Gomal University Journal of Research. 22(2): 1-5.	2006
17	Ahmad, M., Khan, M.A., Zafar, M. 2006. Taxonomic perspective of herbal drug <i>Matricaria chamomilla</i> L. (Gul-e-Baboona) A problematical medicinal plant in Pakistan. Pakistan Agriculture. 1(3): 2-10.	2006
18	Zafar, M., Ahmad, M., Khan, M.A. 2006. Palynological studies of Verbenaceae from Margalla Hills, Islamabad Pakistan. Pakistan Journal of Plant Science. 12(1): 21-25.	2006
19	Zafar, M., Khan, M.A., Ahmad, M., Sultana, S. 2006. Palynological and Taxonomic Studies of Some Weeds from Flora of Rawalpindi. Pakistan Journal of Weed Science Research. 12(1-2): 99-109.	2006
20	Shah, G.M., Khan, M.A., Ahmad, M., Zafar, M. 2006. Ethnobotanical studies on fodder and honeybee flora of Siran Valley, Pakistan. Scientific Khyber. 19(2): 151-163.	2006
21	Parveen, N., Khan, M.A., Ahmad, M., Zafar, M. 2006. Taxonomic studies of <i>Spiraea</i> And <i>Sorbaria</i> of Rosaceae from Pakistan. Scientific Khyber. 19(2): 25-35.	2006
22	Ahmad, M., Khan, M.A., Zafar, M., Sultana, S. 2006. Ethnomedicinal Demography and Ecological Diversification of Some Important Weeds from District Attock - Pakistan. Pakistan Journal of Weed Science Research. 12(1-2): 37-46.	2006
23	Ahmad, M., Khan, M.A., Zafar, M., Sultana, S. 2006. Taxonomic studies of traditional Medicines in Masoot Area of district Abbotabad, Pakistan. Agriculture. 1(3): 2-10.	2006
24	Hai, I., Ahmad, M., Arshad, M., Khan, M.A., Zafar, M. Ashfaq, S. 2006. Ethno directed approach in identification of medicinal plants of lower Margallah Hills Islamabad. Pakistan Agriculture. 1(2): 32-52.	2006
25	Zafar, M., Ahmad, M., Shaheen, S. 2004. Preservation of fish. Journal of White	2004

	Meat. 8: 8-9.	
26	Altaf, N., Khan, S.A., Ahmad, M., Asghar, R., Ahmed, R.A., Shaheen, S., Zafar, M., Saqib, M. 2004. Seed borne Mycoflora of sesame (<i>Sesamum indicum</i> L.) and their effect on germination and seedling PJBS. 7(2): 243-245.	2004
27	Asghar, R., Ahmad, M., Zafar, M., Akram, A., Mahmood, J., Hassan, M. 2003. Antibacterial efficacy of <i>Acacia modesta</i> Wall miswak against dental pathogens. PJBS. 6(24): 2024-2025.	2003

ABSTRACTS / PROCEEDINGS / PRESENTATIONS / INVITED LECTURES

S. No.	Title	Year
01	Rashid, N., M. Ahmad, M. Zafar. 2017. Anti-oxidant and phytochemical potential of subtropical and temperate medicinal herbal teas in Azad Jammu and Kashmir, Pakistan. 15 th National & 6 th International Conference of Botany 9 th -11 th May 2017 Sardar Bahadur Khan Women's University.	2017
02	Amina, H., S. Shinwari, M. Ahmad, M. Zafar, Lubna. 2017. Nutritional contents analysis of selected wild edible fruits of Northern Pakistan. 15 th National & 6 th International Conference of Botany 9 th -11 th May 2017 Sardar Bahadur Khan Women's University.	2017
03	Ashfaq, S., M. Ahmad, S.U. Rehman, M. Zafar. 2017. Ecological diversity of medicinal plants resources in arid environment of Punjab Pakistan. 15 th National & 6 th International Conference of Botany 9 th -11 th May 2017 Sardar Bahadur Khan Women's University.	2017
04	Fatima, A., M. Ahmad, M. Zafar, S. Sultana, M. Munir. 2017. Utilization of medicinal plants as blood purifier among the communities of Punjab province, Pakistan. 15 th National & 6 th International Conference of Botany 9 th -11 th May 2017 Sardar Bahadur Khan Women's University.	2017
05	Alam, N., M. Zafar, H. Sher, M. Ahmad, S. U. Mulk, Z, Ullah, K. Saeed. 2017. Trade prospects and conservation status of medicinal plants of Chagharzai valley, District Buner, Northern Pakistan. 15 th National & 6 th International Conference of Botany 9 th -11 th May 2017 Sardar Bahadur Khan Women's University.	2017
06	Ullah, F., M. Ahmad, M. Zafar, S. Sultana, W. Zaman. 2017. Traditional uses of medicinal plants of Maidan Valley, KPK, Pakistan. 15 th National & 6 th International Conference of Botany 9 th -11 th May 2017 Sardar Bahadur Khan Women's University.	2017
07	Ahmad, S., M. Ahmad, M. Zafar. 2017. Ethnomedicinal and phytochemical study of flora in District Dera Ghazi Khan, Pakistan. 15 th National & 6 th International Conference of Botany 9 th -11 th May 2017 Sardar Bahadur Khan Women's University	2017
08	Ahmed, S.N., M. Ahmad, M. Zafar, S. Sultana, S. Rashid. 2017. Systematic and phytochemical characterization use to solve the Nomenclatural and ambiguity in traded medicinal plants. 15 th National & 6 th International Conference of Botany 9 th -11 th May 2017 Sardar Bahadur Khan Women's University.	2017
09	Khan, A., M. Ahmad, M. Zafar, W. Zaman, S. Mehmood. 2017. Anatomical, Biological, Ecological and Ethnobotanical studies of some important Halophytes. 15 th National & 6 th International Conference of Botany 9 th -11 th May 2017 Sardar Bahadur Khan Women's University.	2017
10	Zaman, W., J. Naz, M. Ahmad. Contemporary issues in Biosciences, 29 th March 2017. Organized by University of Wah in collaboration with the United States Educational Foundation in Pakistan (USEFP) and Fulbright proram.	2017
11	Kayani, S., M. Ahmad, W. T.Shier, M. Zafar, M. Hussain, M. P. Zada. 2016. Quantitative ethno-botanical analysis of traditionally used endemic medicinal plants of alpine and subalpine region of Northern Pakistan. Pharmacology and Ethnopharmacology 2nd International Conference and Exhibition. Clin Exp Pharmacol Volume 6, Issue 2 (Suppl) ISSN:2161-1459 CPECR, an open access	2016

	journal Page 80 Notes: Ethnopharmacology 2016 May 02-04, 2016 conferenceseries.com May 02-04, 2016 Chicago, USA	
12	Kiyani, S., M. Ahmad, S. Sultan, M. Zafar, M. P. Z. Khan, G. Yaseen, M. Hussain. 2015. Ethnomedicinal appraisal of the medicinal flora among the indigenous communities of Palas valley Kohistan Northern Pakistan. The 15 th international congress of the international society for ethnopharmacology 5-8 May 2015, Petra Jordan.	2015
13	Yaseen, G., M. Ahmad, M. Zafar, S. Sultan. 2015. The medicinal flora used in the treatment of gastro intestinal disorder: an ethnobotanical survey Lar Sindh Pakistan. The 15 th international congress of the international society for ethnopharmacology 5-8 May 2015, Petra Jordan.	2015
14	Khan, M.P.Z, M. Ahmad, M. Zafar, S. Sultana, Z.K. Shinwari. 2014. Edible Wild Fruit Species: Source of traditional food and Medicine in Swat valley Khyber Pakhtunkhwa. Pakistan. 4th International and 13th National) Conference of Botany Shaheed BB University Sheringal Dir Upper Pakistan, August 28-29.	2014
15	Yaseen, G., M. Ahmad, M. Zafar, S. Shinwari, A.A. Mughal. 2014. An Ethnobotanical appraisal of Medicinal plants of Jamshoro (Sindh): A Quantitative Approach. 4th International and 13th National) Conference of Botany Shaheed BB University Sheringal Dir Upper Pakistan, August 28-29.	2014
16	Hussain, S., M. Ahmad, M. Zafar, S. Sultana, S. Shinwari. 2014. Foliar Micromorphology as an aid in taxonomy of <i>Salvia</i> L. (Lamiaceae) species from central Punjab Pakistan. 4th International and 13th National) Conference of Botany Shaheed BB University Sheringal Dir Upper Pakistan, August 28-29.	2014
17	Zafar, M., M. Ahmad, S. Sultana, M. A. Khan. 2013. Plant Based Green Fuel: An Option for Sustainable Environment and Energy in Pakistan. Oral presentation in the "Postgraduate Colloquium for Environmental Research 2013 (POCER 2013)" 28-29 June, 2013 Penang – Malaysia.	2013
18	Bano, A., M. Ahmad, M. Zafar. 2012. Floral and Microbial biodiversity of Northern Pakistan: Current Threats and Conservation Measures. Proceedings of 1 st Winter Summit at the Anatolian Summit (WISAS). Turkey. February 23-26 February 2012.	2012
19	Ahmad, M., G.M. Shah, M. A. Khan, M. Zafar, S. Sultana. 2012. Phyto-ethnoveterinary medicines of Northern Pakistan. The 3 rd International symposium on medicinal plants, their cultivation and aspects of uses. Petra Jordan 21-23 November 2012.	2012
20	Zafar, M., G.M. Shah, M. Ahmad, S. Sultana, S. Bibi. 2012. Ethnomedicinal anthelmintic plants of Northern Pakistan. The 3 rd International symposium on medicinal plants, their cultivation and aspects of uses. Petra Jordan 21-23 November 2012.	2012
21	Sultana, S., G.M. Shah, S. Bibi, M. Ahmad, M. Zafar. 2012. Ethnomedicinal Plant used for gynecological diseases in Northern Areas of Pakistan. The 3 rd International symposium on medicinal plants, their cultivation and aspects of uses. Petra Jordan 21-23 November 2012.	2012
22	Ullah, K., M. Ahmad, V. K. Sharma, M. Zafar, S. Sultana. 2012. Algal biomass as a global source of transport fuels: overview and development perspectives. 3 rd International Workshop on Renewable Energy for Sustainable Development in Africa. Organized by National Center for Energy Research and Development, University of Nigeria, Nsukka in Collaboration with ENEA Research Center, Trisaia, Italy & Eauxwell Nigeria Limited from 5 th – 7 th November 2012.	2012
23	Ullah, K., M. Ahmad, V. K. Sharma, P. Lu, M. Zafar, S. Sultana. 2012. Investigation of non-edible oil yield in hemp plant (<i>Cannabis sativa</i> L.) for the promotion of biodiesel. 3 rd International Workshop on Renewable Energy for Sustainable Development in Africa. Organized by National Center for Energy Research and Development, University of Nigeria, Nsukka in Collaboration with ENEA Research Center, Trisaia, Italy & Eauxwell Nigeria Limited from 5 th – 7 th November 2012.	2012
24	Ullah, K., M. Ahmad, V. K. Sharma, M. Zafar, Z. Ullah, S. Sultana 2012.	2012

	Experimental analysis of di-functional magnetic oxide catalyst and their performance in the hemp plant biodiesel production. 3 rd International Workshop on Renewable Energy for Sustainable Development in Africa. Organized by National Center for Energy Research and Development, University of Nigeria, Nsukka in Collaboration with ENEA Research Center, Trisaia, Italy & Eauxwell Nigeria Limited from 5 th – 7 th November 2012.	
25	Ahmad, M., M. Zafar, S. Sultana, K. Ullah. 2012. Biofuel production from non edible green plants as an alternative source of energy. 1st National Conference on Poverty Alleviation Through Sustainable Management of Plant Diversity September 29-30, 2012. Organized by Institute of Plant Sciences and Biodiversity University of Swat.	2012
26	Ahmad, M., S. U. Rehman, M. Zafar, M. A. Khan, S. Sultana. 2012. Floral Biodiversity and Conservation of Medicinal Plant Resources among the Rural Communities of Salt Range Region of Punjab, Pakistan. 1st National Conference on Poverty Alleviation Through Sustainable Management of Plant Diversity September 29-30, 2012. Organized by Institute of Plant Sciences and Biodiversity University of Swat.	2012
27	Nazir, A., M. A. Khan, F. Ahmad, M. Ahmad, M. Zafar, M. Hameed, T. Nawaz, K. S. Ahmad, S. Shaheen. 2012. Foliar epidermal features as an aid to the identification of grasses of Tribe <i>Andropogoneae</i> (<i>Poaceae</i>) from Pothohar region of Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
28	Shah, A, S. Hussain, K. H. Bhatti, N. U. Din, M. Ahmad, M. Zafar, A. Khan, M. Ishtiaq. 2012. An Ethnobotanical study of Medicinal Plants in Semi-Tribal Area, Kurd Sharif & Sho (District Karak (Khyber Pakhtunkhawah). 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
29	Abbasi, A.M., M.A. Khan, M. Ahmad, M. Zafar, G.M. Shah, K.Y. Khan, R. Niamat. 2012. Ethno-medicinal assessment of some selected wild edible fruits and vegetables of Lesser-Himalayas, Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
30	Ahmad, F., M.A. Khan, M. Ahmad, M. Hameed, M. Ashraf, M. Zafar, M. Arshad, T. Nawaz, K.S. Ahmad. 2012. Tetrapogon cenchrififormis and Parapholis strigosa, (<i>Poaceae</i>), two new reports from Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
31	Shah, G.M., M. Ahmed, M. Hussain, Z. Jamal, A.M. Abbasi, M. Zafar. 2012. Phytotherapy among the rural women of Abbottabad District Northern Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
32	Ahmed, M.F., M.A. Khan, M. Ahmed, M. Zafar, H.M. Baksh - Floristic inventory of Khabaki wetland Ramsar site of the Salt range wetland complex, Valley Soon Sakesar District Khushab. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
33	Ayub, M., M. Ahmad, M. Zafar, S. Rashid, H. Sadia, A. Bano. 2012. Ethnobotany and conservation status of floral biodiversity of Himalayan Range of Azad Jammu and Kashmir-Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
34	Marwat, S.K., M.A. Khan, K. Usman, M. Ahmad, M. Zafar. 2012. Floristic Account of Emergent-Aquatic and Marshland Angiosperms of D. I. Khan District, KPK, Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
35	Sultana, S., M.A. Khan, M. Ahmad, A. Bano, M. Zafar, Z.K. Shinwari. 2012. Taxonomic and phytochemical Authentication of Herbal drug Barg - e- Henna (<i>Lawsonia innermis</i>): A multiuse medicinal plant. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam	2012

	University Islamabad, Pakistan.	
36	Jamal, Z., M.A. Khan, M. Hussain, G. M. Shah, M. Ahmad, M. Zafar. 2012. Ethnomedicinal plants used for gastrointestinal ailments by the rural communities of Kaghan Valley, Mansehra, Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
37	Ullah, Z., M. Ahmad, M. A. Khan, M. Zafar, R. Milne. 2012. Phylogeny of <i>carex</i> L. (<i>cyperaceae</i>) from Pakistan based on matk gene sequence variation. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
38	Khan, A., G. Jan, M. Hamayun, F. G. Jan, M. Ahmad, M. Zafar, M. Shah, M. Jan. 2012. Diversity and conservation status of medicinal plants of Naran valley Khyber Pakhtoonkhwa province, Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
39	Jan, F.G., M. Hamayun, G. Jan, M. A. Khan, M. Ahmad, M. Zafar, M. Shah. 2012. Ethnoveterinary plant remedies used by Gujjar Communities in Northern areas of Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
40	Jan, G., M. A. Khan, F. G. Jan, M. Hamayun, M. Ahmad, M. Zafar, R.U. Khan, A. Khan. 2012. Exploitation and prospects for conservation: Plant diversity of Dir Kohistan Valley (Khyber Pakhtoonkhwa), Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
41	Ahmed, M., Z. Jamal, S. Nawaz, G. M. Shah, M. Ahmad, M. Zafar. 2012. Ethnobotanical studies on plant resources of Kukmong, District Abbottabad. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
42	Alam, N., M. Ahmad, M. Zafar, Z. Ullah, K. Syed. 2012. Ethnobotanical profile of 100 indicator species in tropical dry deciduous forests of Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
43	Kayani, S., M. Hussain, M. Tariq, M.A. Khan, M. Ahmad, M. Zafar. 2012. Morpho-palynological studies of certain plants belonging to the genus solanum from Abbottabad, Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
44	Bokhari, S.H., B. Ali, M. Ahmad, M. Zafar, I. H. Shah and M. A. Khan. 2012. Palynomorphological studies of selected medicinal plants from Haripur, Khyber Pakhtunkhwa, Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
45	Ullah, Z., M. Ahmad, M. Ilyas, M.A. Khan, M. Zafar, R.B. Tareen. 2012. Phytodiversity, life form, communities and species distribution pattern in mountain ecosystem of Miandam Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
46	Nisa, Z.U., G. Jan, M. Ahmad, F. G. Jan, R. Khan M. Zafar. 2012. Study of morphology, anatomy and classification of stomata in selected weeds. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
47	Mashwani, Z.U.R., M.A. Khan, M. Ahmad, M. Zafar, M. Arshad. 2012. Anticancer activity of <i>Geranium wallichianum</i> (<i>Geraniaceae</i>) indigenous to Western Himalayas, Pakistan. 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
48	Mashwani, Z.U.R., M.A. Khan, M. Ahmad, M. Zafar. 2012. Classification Of Forage Grasses Species Based On Mineral Composition By Principal Component Analysis (PCA). 12 th National and 3 rd International Conference of Botany 1 st – 3 rd September 2012 Quaid-i-Azam University Islamabad, Pakistan.	2012
49	Ahmad, M., M. Zafar, S. Sultana, M.A. Khan. 2012. Biodiesel production and application in Pakistan. 3 - Day International Bio-energy Conference. April 18-20,	2012

	2012. University Institute of Biochemistry and Biotechnology PMAS-AAUR.	
50	Ahmah, M., M. Zafar, S. Sultana, M. A. Khan. 2012. Sustainable management of endangered medicinal floral biodiversity in Northern Himalayan Region of Pakistan. Sustainable DAAD international summer school on “Recent advances in plant biotechnology for sustainable development (Exploring the hidden potential of microorganisms). March 26-30, 2012. Quaid-i-Azam University Islamabad Pakistan.	2012
51	Ahmad, M., M.A. Khan, Z. Jamal, M. Zafar, S. Sultana. 2011. Sustainable Use and Conservation Status of Some Useful Medicinal Plants of Kaghan Valley, Himalayan Range Pakistan. PARC-TASO-PGR National workshop on conservation and sustainable utilization of medicinal plants in Pakistan. October 4-5, 2011. AGBR, NARC, Islamabad Pakistan.	2011
52	Shah, G.M., M. Ahmad, M. A. Khan, M. Zafar, S. Sultana. 2011. Floral biodiversity of endangered medicinal herbs of Northern Hamalayan region of Pakistan. National symposium on biodiversity of Pakistan. Organized by Pakistan Science Foundation. Held at Margalla Hotel Islamabad. June 07-09, 2011.	2011
53	Javed, M.A., Khan, M. Ahmad, M. Zafar, S. Sultana. 2011. Palynological investigation of asteraceous species of Poonch Valley, AJK – Pakistan. 2 nd International Conference of Plant Scientists and 11 th National Meeting of Plant Scientists 22-24 th February, 2011 GC University Lahore, Pakistan.	2011
54	Mashawani, Z., M.A. Khan, M. Ahmad, M. Zafar, M. Arshad, M. Abbasi. 2011. Macro-mineral quantification of the forage grass species in the Gandgar Hills, Western Himalaya, Pakiatan. 2 nd International Conference of Plant Scientists and 11 th National Meeting of Plant Scientists 22-24 th February, 2011 GC University Lahore, Pakistan.	2011
55	Ahmad, F., M.A. Khan, M. Ahmad, M. Arshad, M. Zafar. 2011. Taxonomic application of foliar transverse sections in tribe Paniceae (Poaceae) from Salt Range of Pakistan. 2 nd International Conference of Plant Scientists and 11 th National Meeting of Plant Scientists 22-24 th February, 2011 GC University Lahore, Pakistan.	2011
56	Ahmad, M., M.A. Khan, Z. Jamal, M. Zafar, S. Sultana. 2011. Sustainable Use and Conservation Status of Some Useful Medicinal Plants of Kaghan Valley, Himalayan Range Pakistan. PARC-TASO-PGR National workshop on conservation and sustainable utilization of medicinal plants in Pakistan. October 4-5, 2011. AGBR, NARC, Islamabad Pakistan.	2011
57	Ahmad, M., M.A. Khan, M. Zafar, S. Sultana. 2010. Floral Biodiversity Of Medicinal Plants In Salt Range (Punjab) Pakistan; Current Threats And Conservation Measures. International conference “Biodiversity if our life”. December 29-31 2010. Center for biodiversity and conservation. Shah Abdul Latif University Kherpur Sindh. Pakistan.	2010
58	Ahmad, M., G.M. Shah, M. A. Khan, S. Sultana, M. Zafar. 2010. Ethno-Toxicological Screaning on Medicinal Plants of Siran Valley, Northern Pakistan. The 2nd International Symposium on Medicinal Plants, Their Cultivation and Aspects of Uses Petra Marriot Hotel Petra– Jordan 3-4 November, 2010	2010
59	Ullah, Z., M. Ahmad, M.A. Khan, M. Zafar, R. Qureshi. 2010. The Alien Flora of Islamabad: A threat to Indigenous Biodiversity. International conference “Biodiversity if our life”. December 29-31 2010. Center for biodiversity and conservation. Shah Abdul Latif University Kherpur Sindh. Pakistan.	2010
60	Abbasi, A.M., M.A. Khan, M. Ahmad, M. Zafar, M. Munir, S. Sultana, Z. Ullah, Z. U. Rehman, R. U. Qureshi, K. Y. Khan, R. Naimat. 2010. Traditional uses of medicinal herbs among the tribal communities of Lora Valley (Aboottabad), Pakistan. International conference “Biodiversity if our life”. December 29-31 2010. Center for biodiversity and conservation. Shah Abdul Latif University Kherpur Sindh. Pakistan.	2010
61	Ahmad, M., M.A. Khan, M. Zafar, S. Sultana. 2010. Biodiesel from plant based resources as renewable energy. National Conference on Conservation of Natural resources and environments. 20 May 2010. In collaboration with PSF, NFDC,	2010

	QAU and AFP Islamabad.	
62	Tariq, M., S. Ali, N. Khalid, F. Ahmad, M.A. Khan, M. Ahmad, M. Zafar. 2010. Synthesis and FT-IR, NMR, GC-MS Studies of Rocket Seed Oil Bio Diesel- A Non Food Renewable Oil Source. 2nd International conference on Fuel and environment. Bara Gali Summer Campus University of Peshawar. 23-24 July, 2010. Organized by Institute of Chemical Sciences University of Peshawar.	2010
63	Conference on "Olive Oil Production In Pakistan; Result and Way Forward" Held at PMAS-AAUR. 8 th April 2010.	2010
64	Ahmad, M., M.A. Khan, M. Zafar, Shazia Sultana. Systematic studies of Oil yielding Plants and their applications as a Bio-diesel resource in Pakistan. CSF-HEC workshop on promoting industry academia linkages for developing the knowledge-based enterprise sector in Pakistan. 31-01-2007. Marriot Islamabad.	2007
65	Zafar, M., M.A. Khan, M. Ahmad, S. Sultana. 2006. Palynological and Taxonomic Studies of Some Weeds From Flora Of Rawalpindi. 2 nd International weed science conference at University of Arid Agriculture Rawalpindi-Pakistan. 20-22 March.	2006
66	Ahmad, M., M.A. Khan, M. Zafar, S. Sultana. 2006. Ethnomedicinal Demography and Ecological Diversification of Some Important Weeds from District Attock - Pakistan. 2 nd International weed science conference at University of Arid Agriculture Rawalpindi-Pakistan. 20-22 March.	2006
67	Ahmad, M., M. Aziz, M. A. Khan, M. Zafar. House hold remedies of herbal cosmetics in District Attock (Pakistan). 2005. National conference on conservation of herbs and medicinal plants for commercial exploitation NARC, Islamabad.	2005
68	Hai, I., M. Ahmad, M. Arshad, M. Zafar, S. Ashfaq. Ethnodirected approach in the identification of medicinal plants of lower Margalla Hills Islamabad. 2005. National conference on conservation of herbs and medicinal plants for commercial exploitation NARC, Islamabad.	2005
69	Ahmad, M., M. Zafar. 2005. <i>Pongamia pinnata</i> (Suckh Chain) as a bio diesel resource in Pakistan. Two day seminar on Indigenous development of innovative technologies in the field of renewable energy. Best Western Hotel Islamabad.	2005
70	Ahmad, M., M.A. Khan, M. Naveed, M. Arshad, M. Zafar. 2005. Ethnobotanical and conservation studies in resource based areas of District Attock (Pakistan). National Workshop on Conservation linked to livelihood opportunities, Saidu Sharif, Swat.	2005
71	Zafar, M., Y. Musseddeq, M. Ahmad, S. Akhter. 2004. Threats to Mahseer Fish (<i>Tor putitora</i>) and conservation strategies in River Korang, Islamabad, Pakistan. 24 th Pak. Congress of Zool. AIU.	2004

TRAINING / COURSES

- International Association for Botanical Garden for training course of Botanical Garden at Shanghai Chenshan Botanical Garden, Shanghai - China from 27th August to 15th September 2018
- Spatial ecotoxicology and ecotoxicological risk assessment using an open community approach. University of Koblenz-Landau, Online studies, Forster. Germany 2017

CONFERENCES / WORKSHOPS ATTENDED

1. Internatioal Apicultural Research and Sustainable Regional Development Strategy Congress on 11-13 October 2019 at Bingol University, Turkey
2. HASAT International Agriculture and Forest Congress. 21-23 June 2019, Ankara, Turkey
3. The 5th International Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP-5), Cappadocia, Turkey". (MESMAP-5), Cappadocia, Turkey - 24 to 28 April 2019
4. 2nd International Conference on Plant Sciences (ICPS-2018) December 5-7, 2018. Department of Botany, GC University Lahore
5. 3rd International Conference on Biosciences 9th-11th May, 2018, Govt. College University Lahore, Pakistan

6. The 4th International Mediterranean Symposium on Medicinal and Aromatic Plants, April 18-22, 2018, Antalya – Turkey
7. Emerging Research trends in plant Sciences to Industries in Pakistan. 2018. 3rd International Conference on Biosciences 9th -11th May, 2018, University of Sargodha, Pakistan
8. First National conference 4-5th May, 2018, Food to Phytomedicines, University of Malakand, Pakistan.
9. 16th National & 7th International Conference of Botany 23th -26th March, 2018, Islamia College Peshawar and University of Peshawar, Pakistan
10. National symposium on emerging trends in the extraction of plant bioactives for Nutra-Pharmaceutical Developments. By Department of Chemistry, University of Sargodha. November 1-2, 2017. Funded by HEC.
11. 15th National & 6th International Conference of Botany 9th -11th May 2017 Sardar Bahadur Khan Women's University, Quetta
12. Two days national conference on recent advances in biotechnology. Organized by Kohat University of Sciences and Technology, Kohat. April 26-27, 2017.
13. UTP-Pakistani Universities Research Collaboration Workshop by University of Teknologi Petronas, Malaysia from 10-14 April 2017
14. Contemporary issues in Biosciences, 29th March 2017. Organized by University of Wah in collaboration with the United States Educational Foundation in Pakistan (USEFP) and Fulbright program.
15. National Ethnobotanical seminar, PMNH, Islamabad December 29, 2016
16. International Conference on Agriculture, Ecology and Biological Engineering (AEBE-15) during Sept. 7-8, 2015 at Antalya, Turkey. "Indigenous Usage of Medicinal Plants for Gynecological Disorders among the Communities of Northern Pakistan.
17. The 15th international congress of the international society for ethnopharmacology 5-8 May 2015, Petra Jordan.
18. 4th International and 13th National) Conference of Botany Shaheed BB University Sheringal Dir Upper Pakistan, August 28-29.
19. International Workshop on strengthening the culture of responsibility: Dual Use Research and Biosecurity, 23-24, May 2014.
20. One day training workshop on dendrochronology. Organized by Pakistan Museum of Natural History, Islamabad. 22nd April 2014
21. 3 Day International Bio-energy Conference on Biomass energy production from Agricultural and house wastes. April 15-17, 2014. University Institute of Biochemistry and Biotechnology PMAS-AAUR.
22. On day training workshop on dendrochronology. Organized by Pakistan Museum of Natural History, Islamabad. 22nd April 2014
23. 3 Day International Bio-energy Conference on Biomass energy production from Agricultural and house wastes. April 15-17, 2014. University Institute of Biochemistry and Biotechnology PMAS-AAUR.
24. Postgraduate Colloquium for Environmental Research 2013 (POCER 2013), 28-29 June, 2013 Penang – Malaysia.
25. International Symposium on new trends in Bioenergy & Biomaterials: Challenges and prospective. 05-06 December 2012. University of Gujrat.
26. The 3rd International symposium on medicinal plants, their cultivation and aspects of uses. Petra Jordan 21-23 November 2012.
27. 3rd International Workshop on Renewable Energy for Sustainable Development in Africa. Organized by National Center for Energy Research and Development, University of Nigeria, Nsukka in Collaboration with ENEA Research Center, Trisaia, Italy & Eauxwell Nigeria Limited from 5th – 7th November 2012.
28. Workshop on Biodiesel technology, processing, potential feedstock, future prospects and challenges. Organized by Department of Chemistry, University of Sargodha, Sargodha, Pakistan. November 5-6, 2012.
29. 3rd international and 12th National Conference of Botany, Held in Quaid-i-Azam University Islamabad. Organized by Pakistan Botanical Society. 1-3 September, 2012.
30. PAS-CAS Bi National Conference on Nano-Sciences & Technology, network security, Ecology and Environment. Held in COMSTECH. July 16, 2012. Pakistan Academy of Sciences, Islamabad.

31. Day International Bio-energy Conference. April 18-20, 2012. University Institute of Biochemistry and Biotechnology PMAS-AAUR.
32. DAAD international summer school on “Recent advances in plant biotechnology for sustainable development (Exploring the hidden potential of microorganisms). March 26-30, 2012. Quaid-i-Azam University Islamabad Pakistan.
33. International workshop on ‘Medicinal Plants: Conservation and Sustainable Use’. The workshop was organized by the Department of Biotechnology, QAU, in collaboration with Pakistan Botanical Society. December 9-11, 2012.
34. National symposium on biodiversity of Pakistan. Organized by Pakistan Science Foundation. Held at Margalla Hotel Islamabad. June 07-09, 2011.
35. Workshop of PARC and TASO-PGR on Conservation and sustainable utilization of medicinal plants in Pakistan. October 4-5, 2012.
36. Engagement & Awareness Raising on Bioethics, Bio-security & Dual use education project (2011-2012). Department of Biotechnology & Bioinformatics. Quaid-i-Azam University Islamabad Pakistan. 24th May 2011.
37. National Conference on Setting Standards for 21st Century Pakistan. Universities building economies. Sarena Hotel, Islamabad 26-05-2011.
38. International conference “Biodiversity if our life”. December 29-31 2010. Center for biodiversity and conservation. Shah Abdul Latif University Kherpur Sindh. Pakistan.
39. World Science Day for Peace and Development. International Year of Biodiversity 2010. November 10, 2010. PSF auditorium, Islamabad. Organized by Pakistan Science Foundation.
40. 2nd International conference on Fuel and environment. Bara Gali Summer Campus University of Peshawar. 23-24 July, 2010. Organized by Institute of Chemical Sciences University of Peshawar.
41. International workshop on Climate change and sustainability of Agro-environment: Challenges & Interventions at PMAS Arid Agriculture University. June 3-4, 2010.
42. National workshop on Agro-waste biofuel production at PMAS Arid Agriculture University. April 11-12, 2010.
43. National Workshop on adaptation and Implementation of GACP and FCP Guidelines. Organized by NIH and WHO at National Institute of Health, Islamabad. 5-6 April, 2010.
44. Impact of climate change on water resources and glaciers; concerns and challenges. At National Center for Physics, Quaid-i-Azam University Islamabad Pakistan. January 7-8, 2010.
45. Dynamic Learning and Management Skills. Organized by The Learning Innovation Division held at Higher Education Commissions (HEC), Islamabad, December 14-17, 2009.
46. International workshop on Modern Techniques for the analysis of Ecological data. Pakistan Museum of Natural History, Garden Avenue, Islamabad. September 29, 2009.
47. International workshop on plant conservation and reversing desertification: A way forward. PMAS Arid Agriculture University Rawalpindi. 12-13 October 2009.
48. Options for sustainable energy future in Pakistan “New energy and technologies for a sustainable future in Pakistan, Bio fuel, fuel cell, solar energy, energy & environment. COMSATS Institute of Information Technology, Lahore. April 03, 2008.
49. International conference on biological resources of Pakistan: Problems, success and future perspectives at University of Arid Agriculture Rawalpindi. 25-27 April 2007.
50. CSF-HEC workshop on promoting industry academia linkages for developing the knowledge-based enterprise sector in Pakistan. 31-01-2007. Marriot Islamabad.
51. One day seminar on water crises and challenges in Pakistan. 6 July 2006. Earth Science Department, Quaid-i-Azam University Islamabad.
52. One day seminar on Frontiers of Environment: Wehab And Mdgs On April 08, 2006, at Pearl Continental Hotel Rawalpindi. Organized by Fatima Jinnah Women University Rawalpindi.
53. 2nd International Weed Science Conference. 20-22 March 2006 at University of Arid Agriculture University Rawalpindi. Organized by WSSP.
54. Two day seminar on indigenous development of innovative technologies in the field of renewable energy, 22-23rd August 2005, Best Western Hotel Islamabad.
55. National conference on conservation of herbs and medicinal plants for commercial exploitation, 14-16 April, 2005 at NARC, Islamabad.
56. Biodiversity and world food security in Oct. 2004, at National Agriculture Research Center, Islamabad
57. National Workshop on Conservation linked to livelihood opportunities, Saidu Sharif, Swat. 22-24 Feb. 2005.

58. International Symposium on Medicinal Plants “Linkage beyond National Boundaries” on Sep. 7-9, 2004 at National Agriculture Research Center, Islamabad
59. 4th National conference of Plant Pathology on 14-16 Oct., 2003 at University of Arid Agriculture Rawalpindi
60. 21st Pakistan Congress of Zoology (International) at University of Faisalabad.
61. 22nd Pakistan Congress of Zoology (International). 2002. At University of Azad Jammu and Kashmir Muzaffarabad.
62. 23rd Pakistan Congress of Zoology (International) at University of Arid Agriculture Rawalpindi Pakistan.
63. 24th Pakistan Congress of Zoology (International) on March 30 to April 01, 2004 at AIOU, Islamabad.
64. Symposium on Untapped Fisheries Resources of Pakistan at University of Karachi. 2001.
65. 3rd Science International Conference, 2002 at University of Arid Agriculture Rawalpindi

EXTERNAL EXAMINER (M.Sc. & M.Phil.)

1. Hazara University Mansehra
2. Pir Mehar Ali Shah, Arid Agriculture University Rawalpindi
3. Post Graduate College Abbotabad

FELLOWSHIPS

- Botanical Society of Pakistan
- International Society for Ethnopharmacology UK

Supervision of Doctoral Thesis

Serial #	Student's Name	Thesis Title	Year
1.	Ayesha Hameed	Biodiesel Synthesis, Characterization and Performance of Heterogeneous Catalysts Using Non-Edible Seed Oils	2021
2.	Anam Fatima	Biological Activities of Selected Medicinal Plants using Systematic and Ethnomedicinal Approach	2021
3.	Lubna	Systematics, Nutraceutical and Ethnomedicinal Studies of Important Species of Vitaceae Plants	2020
4.	Moona Nazish	Phytodiversity, Taxonomy and Ethnobotany of Salt Tolerant Wild Plant Species in North Punjab-Pakistan	2020
5.	Shafiq Ahmad	Ethnobotany of Medicinal Plants: Their Distribution and Uses in District Dera Ghazi Khan, South Punjab-Pakistan	2020
6.	Haleema Sadia	Nutritional and Antioxidant Analysis of Selected Wild Edible Fruits in Pakistan	2020
7.	Shomaila Ashfaq	Eco-taxonomic and ethnopharmacological studies of floral diversity in arid parts of Northern Punjab, Pakistan	2020
8.	Maryam Akram Butt	Systematic Studies and Ethnobotany of Wetland Flora in Azad Jammu and Kashmir and Allied areas - Pakistan”	2019
9.	Neelam Rashid	Systematics of medicinally important Papilionaceous Flora in Pakistan	2019
10.	Hina Gul	Ethnopharmacological Uses of Medicinal Plants among the Communities of Murree Hills with Special Emphasis on	2018

		their Selected Biological Activities	
11.	Sofia Rashid	Authentication of medicinal plants traded as Herbal drugs by using systematics and phytochemical characterization.	2016
12.	Abida Bano	Systematics and Ethnobotany of medicinal plants in the Skardu valley of Northern Pakistan	2015
13.	Naveed Alam	Phytosociological and ethnobotanical studies of Tropical dry deciduous forests of Pakistan	2016

M.Phil. Thesis Supervised/Produced

S. No.	Student's Name	Thesis Title	Year
01	Sahira Jehanzeb	Petiole Anatomy of Some Lamiaceous Taxa from Lesser Himalaya - Pakistan	2020
02	Kanwal Shahzad	Anatomical Characterization of Selected Families of Tehsil Dina, District Jhelum, Punjab Pakistan	2019
03	Shabir Ahmad	Melissopalynological Studies of the Plants District Lakki Marwat and Bannu	2019
04	Saeeda Naz	Taxonomic Characterization of Laticiferous Plants of District Rawalpindi	2019
05	Shahzeb Ullah Khan	Anatomical and Pollen Diversity of Mimosaceae using SEM and LM Techniques	2019
06	Salman Majeed	Palyno-anatomical And Ethnobotanical Studies of Cactaceae in Pakistan	2019
07	Nomana Kalsoom	Palynology And Seed Morphology of Apiaceae Using SEM And LM Techniques	2019
08	Munazza Jabeen	Biodiesel Synthesis and Characterization Using <i>Ailanthus altissima</i> (Mill.) Swingle Seed Oil	2019
09	Huma Zahid	Nutritive Value of Some Underutilized Wild Edible Plants of Tehsil Rawalpindi	2018
10	Shafia Arif	Leaf Epidermal Anatomy of Herbaceous Plants of Tehsil Piplan, District Mianwali	2018
11	Shaista Jabeen	Foliar Epidermal Anatomy of Plants in Tehsil Chitral	2018
12	Muhammad Luqman	Seed Morphology as an Aid in Identification of Myrtaceae in Pakistan	2018
13	Manila Saghir	Palyno-anatomical studies of Economically Important Trees of Tehsil Kallar Syedan, District Rawalpindi Pakistan	2018
14	Manzoor Ahmad	Systematics of medicinally used Ranunculaceous species of Districts upper Dir and Chitral-Pakistan	2018
15	Fazal Ullah	Systmatics of Caryophyllaceae in Pakistan	2018
16	Maria Sardar	Anatomical and Palyno-morphological Studies of Scrubby vegetation of Margalla Hills, Islamabad	2018
17	Muhammad Ishaq	Floral Diversity used as Herbal Aphrodisiacs in District Bannu Khyber Pakhtunkhwa, Pakistan	2017
18	Farah Amir	Comparative Morphology of Leaf Epidermis in selected species of Rosales and Lamiales	2017
19	Maryam Jawaid	The Systematic relevance of Foliar Anatomy in Aquatic Lamiales and Poales in Western Himalayas	2017
20	Amara Noor Hussain	Diversity of Pollen and Foliar Anatomy in selected species of Amaranthaceae	2017

21	Amir Hussain	Diversity of Dates Varieties in District Khairpur Mirs (Sindh) with Special Emphasis on their Identification and Traditional Uses	2016
22	Ambrin Latif	Biodiesel Synthesis using Seed Oil of <i>Citrullus vulagaris</i> var. fistulosus	2017
23	Maria Ameen	Biodiesel Production from Non Edible Seed Oil of <i>Cucumis melo</i> var. agrestis	2017
24	Ayesha Jabeen	Biodiesel Production from Non Edible Seed Oil of Prickly Poppy Using Transesterification Process	2016
25	Shazia bibi	Exploring the Potential of Biodiesel Synthesis from Novel Seed Oils of Staff Tree and White Charlock	2016
26	Allowullah	Ethnobotany and Floristic Diversity of Medicinal Plants of District Zhob, Balochistan	2016
27	Saliha Azhar	Phytochemical and Anti-oxidant Studies of Selected Wild Edible Fruits	2016
28	Iram Abdullah	Ethnobotany and Phytochemical Screening of Medicinally Important Halophytes of Chakwal District – Pakistan	2016
39	Rozina	Biodiesel Synthesis and Physico-chemical Characterization of <i>Saussurea heteromalla</i> (D. Don) Hand.-Mazz. Seed Oil	2016
30	Aafia Iqbal	Biodiesel Production Using Non Edible Oil Seeds From Himalaya Range of Pakistan	2016
31	Hira Zameer	Ethnopharmacological survey of traditional herbal drugs sold in District Lahore Pakistan	2015
32	Anam Fatima	Analysis of traditional knowledge for medicinal plants use in the treatment of oral diseases in Central Punjab-Pakistan	2015
33	Muneeb Afzal	Ethnobotany of Tehsil Havelian District, Abbotabad	2015
34	M. Umair	Ethnobotany and diversity of plants in reverine sites of Qadirabad Barrage, Gujranwala, Pakistan	2015
35	Faisal Javed	Ethnomedicinal and phytochemical studies of selected plants of family Lamiaceae from Punjab-Pakistan	2015
36	Latif Ahmad	Ethnopharmacological documentation of medicinal plants used for hypertension among the local communities of Lower Dir, Pakistan	2014
37	Shabnum Ayub	Ethnobotanical studies of fuel wood and timber wood species of District Haveli, Azad Jammu and Kashmir	2014
38	Sayedra Sana Hussain	Micro-morphological characteristics with special emphasis on trichome diversity in Lamiaceae from central Punjab, Pakistan	2014
39	Abira Qaisar	Ethnobotanical study of plants used as traditional herbal cosmetics in Potohar region, Pakistan	2014
40	Irum Akhlaq	Phytotherapy of diabetes among the rural communities of Kotli region, Azad & Jammu Kashmir	2014
41	Sarwat Raheem	Medicinal plants usage for Malarial disorders in District Mianwali, Pakistan	2014
42	Shabnum Shaheen	Ethnobotany of Edible wild fruits in Lakki Marwat district, Pakistan	2014
43	Mona Nazish	Ethnobotanical study of medicinal plants used as anti-obesity remedies in Northern Pakistan	2014
44	Fazli Rehman	Systematics of family Balsaminaceae in Pakistan	2013
45	Nabeela Gul Khattak	Ethnobotanical studies in Tehsil Takaht-e-Nusrati District	2013

		Karak, Pakistan	
46	Humaira Saeed	Nutritional composition and antioxidant potential of some wild fruits from moist temperate Himalayas, Northern Pakistan	2013
47	Shah Zaman	Phytochemical and biological evaluation of some medicinal plants from Alpine regions of Pakistan	2013
48	Saba Afzal	Ethnobotanical study of Herbaceous Flora of QAU Campus and its Surrounding areas in Islamabad	2013
49	Javaria Ayub	Taxonomic and ethnobotanical studies of some aquatic plants in Hazara Division, Pakistan	2012

ADMINISTRATIVE WORK

- Research Productivity Award (PCST)
- Collection of plants for taxonomic, Palynological, phytochemical and anatomical work from various areas of Pakistan for herbarium and research students of M.Phil and Ph.D.
- Modernization of Herbarium (ISL), Quaid-i-Azam University Islamabad
- Member BS Program HEC
- Member of Maintenance & Auction Committee
- Member Cleaning Committee
- Member QAU Botanical Garden
- HEC Curriculum Committee Member
- BS Admission Committee Member QAU