

CURRICULUM VITAE

Name: Dr. Muhammad Umar Ijaz
(Gold Medalist)

Qualification: Ph.D. Zoology (China)

Designation: Assistant Professor (BPS-19)
(HEC Approved Ph.D. Supervisor)

Organization: University of Agriculture, Faisalabad

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Domicile: Punjab

Citizenship: Pakistani

Area of Interest: Animal Cell Biology, Toxicology and Pharmacology



EDUCATION PROFILE

Degree	Year	Discipline	Grade	Institution
Ph.D.	2022	Zoology	A+	Anhui Normal University, China
M.Phil.	2014	Reproductive Physiology/ Animal Sciences	A	Quaid-i-Azam University, Islamabad
BS (Hons)	2012	Zoology	A	GC University, Faisalabad
F.Sc.	2008	Pre-Medical	A	BISE Faisalabad
Matric	2006	Science	A	BISE Faisalabad

THESIS & RESEARCH TITLES

Ph.D.	Protective effect of genkwanin against aflatoxin b1-induced hepatic, renal, testicular and pulmonary toxicity via activation of Nrf2/Keap1 pathway
M.Phil.	Evaluation of possible protective role of quercetin on bisphenol A induced reproductive toxicity in adult male Sprague-Dawley rats

BS (Hons.) Prevalence of intestinal nematodes and haemoparasites in domestic and stray dogs

HONORS & DISTINCTIONS

- **Gold Medal** for standing First in BS (Hons).
- **Merit Certificate** for securing first position in BS (Hons).
- **Gold Medal** for standing First in M. Phil.
- **Merit Certificate** for securing first position in M. Phil.
- **HEC Approved Ph.D. Supervisor.**
- **Cash prizes** for Academic Excellence
- **Letter of Appreciation** from Chairman, Department of Zoology, Wildlife & Fisheries, University of Agriculture, Faisalabad for excellent work on November 11, 2022.
- **Fully funded scholarship** from Chinese Scholarship Council (CSC) to pursue Doctor's Degree in China, September 2019.
- **Letter of Appreciation** from Chairman, Department of Zoology, Wildlife & Fisheries, University of Agriculture, Faisalabad for excellent work on July 10, 2019.
- **Letter of Appreciation** from Chairman, Department of Zoology, Wildlife & Fisheries, University of Agriculture, Faisalabad for excellent work on December 12, 2018.

JOB EXPERIENCE

- Working as an Assistant Professor (Zoology) at University of Agriculture, Faisalabad, Pakistan, from August 22, 2024, to till now.
- Served as a Lecturer (Zoology) at University of Agriculture, Faisalabad, Pakistan, from September 8, 2015, to August 21, 2024.

ADDITIONAL DUTIES

- Tutor at University of Agriculture, Faisalabad from September 27, 2022, till Now.
- Coach of Tug of War team during UAF-Sports league 2022-2023.
- Co-Tutor at University of Agriculture, Faisalabad from April 11, 2016, to November, 2017.
- Member event management committee. Sports Gala at Paras Campus, 2015.

REVIEWER OF NATIONAL AND INTERNATIONAL JOURNALS

- Heliyon
- Biological Trace Element Research
- International Journal of Nanomedicine
- PLOS ONE
- Journal Of Applied Pharmaceutical Science
- Pharmaceutical Biology
- Journal of Taibah University for Science.
- Saudi Pharmaceutical Journal
- Apoptosis

- Scientific Reports
- Evidence-Based Complementary and Alternative Medicine
- BMC Veterinary Research

COURSES TAUGHT

Course No.	Course Title	Credit Hours
ZOOL-201	Zoology II	4 (3-1)
ZOOL-102	Zoology I	4 (3-1)
ZOOL-620/ZOOL-720	Seminar	1 (1-0)
ZOOL-719	Special Problem	1 (1-0)
ZOOL-611	Animal Cell Biology	3 (2-1)
ZOOL-608/ZOOL-505	Ethology	3 (2-1)
ZOOL-621	Technical Report	3 (0-3)
BBAA-213/ BBAA-413	Fisheries and Aquaculture	3 (2-1)
SEE-404/ZOOL-303	Ecosystem Management	2 (2-0)
ZOOL-605	Evolution and Principles of Systematics	3 (3-0)
ZOOL-606	Economic Zoology	3 (2-1)
ZOOL-604/ZOOL-503	Developmental Biology	3 (2-1)
BIO-301	Essentials of Biology	3 (2-1)
BIO-302	Basic Biology	3 (2-1)
BIO-503	Population Biology	3 (3-0)
ZOOL-301	Animal Diversity I	4 (3-1)
ZOOL-302	Animal Diversity II	4 (3-1)
ZOOL-706	Advances in Vertebrate Pest Management	3 (2-1)
ZOOL-711	Fish and Aquatic Toxicology	3 (2-1)
ZOOL-608	Essentials of Wildlife Conservation	3 (3-0)
ZOOL-610	Behavioral Ecology	3 (3-0)
ZOOL-710	Capturing and Handling Methods of Wildlife	

STUDENTS SUPERVISED

	BS/ M.Sc.	M.Sc. (Hons.)/M.Phil	Ph.D.
Students Supervised	71	78	0
Students under Supervision	7	19	5
Students Supervised As a committee Member	0	36	1

POST GRADUATE RESEARCH COMPLETED (AS A SUPERVISOR)

Sr. No.	Regd No.	Name	Year	Research Title
1.	2022-ag-1507	Aqsa Aslam	2024	Pharmacotherapeutic potential of Isosakuranetin against Perfluorooctane sulfonate-induced testicular toxicity in rats
2.	2022-ag-1540	Amna Tahir	2024	Pinobanksin attenuates Perfluorooctane sulfonate induced renal toxicity by reducing oxidative stress, inflammation and apoptosis
3.	2022-ag-1571	Rida Azam	2024	Reproductive toxicity of Perfluorooctane sulfonate and palliative effects of Pinobanksin in male rats
4.	2022-ag-1582	Rimsha Eman	2024	Mitigative effects of Narirutin against Polystyrene microplastics-induced testicular damages in albino rats
5.	2022-ag-1643	Humna Shahid	2024	Protective effects of Isosakuranetin against Perfluorooctane sulfonate-induced cardiac damages in rats
6.	2022-ag-1610	Anees Ur Rehman	2024	Alleviative effects of Robinetine against Polystyrene microplastics provoked lung damages in rats
7.	2022-ag-1661	Marium Jameel	2024	Protective effects of Pinobanksin against Perfluorooctane sulfonate-induced hepatic toxicity in rats via modulation of antioxidant, apoptotic and inflammatory markers
8.	2022-ag-1681	Muhammad Tariq	2024	Toxic effect of Polystyrene microplastics on testicles and curative effect of Delphinidin in male rats

9.	2022-ag-1682	Farwa Shafique	2024	Evaluation of possible protective role of Isosakuranetin against Perfluorooctane sulfonate-induced liver damage in male albino rats
10.	2022-ag-1694	Urwa Younas	2024	Evaluation of antagonistic effects of Polystyrene microplastics and Narirutin on hepatic tissues of albino rats
11.	2022-ag-1695	Fatima Amin	2024	Reno-protective efficacy of Sakuranetin against Polyethylene microplastics-provoked renal damages in rats
12.	2022-ag-1697	Tuba Tahir	2024	Ameliorative effects of Poncirin against Polyethylene microplastics-induced testicular dysfunction in rats
13.	2022-ag-1698	Maria Ghaffar	2024	Nephroprotective effects of Narirutin against Polystyrene microplastics-induced renal damage in rats
14.	2022-ag-1699	Isha Yaseen	2024	Evaluation of antagonistic effects of Polystyrene microplastics and Robinetin on testicular tissues of albino rats
15.	2022-ag-1700	Tooba Mehar	2024	Therapeutic effects of Poncirin against hepatotoxicity-induced by Polyethylene microplastics in rats
16.	2022-ag-1701	Sana Imtiaz	2024	Curative effects of sudachitin against paraquat induced damage in testes
17.	2022-ag-1702	Iqra Bibi	2024	Robinetin mitigates Polystyrene microplastics-induced cardiac damages in rats
18.	2022-ag-1704	Nimra Nazir	2024	Hepatoprotective effect of Sakuranetin against Polyethylene microplastics-instigated hepatotoxicity in rats
19.	2022-ag-1706	Neha Anees	2024	Mitigative potential of Delphinidin against Polystyrene microplastics-instigated hepatic damages in rats
20.	2022-ag-1707	Marva Jabeen	2024	Hepatoprotective effect of Sudachitin against Paraquat-induced liver injury
21.	2022-ag-1708	Ayesha Siddiq	2024	Anti-inflammatory, anti-oxidant and anti-apoptotic effects of Kaempferide against Paraquat-instigated renal damages in rats

22.	2022-ag-1710	Akash Nadeem	2024	Protective effect of Robinetin against Polystyrene microplastics-induced renal damage in rats.
23.	2022-ag-1711	Maryam Javed	2024	Evaluation of possible palliative role of Poncirin against Polyethylene microplastics-induced renal toxicity by modulation of oxidative stress, inflammation and apoptosis in rats
24.	2022-ag-2986	Marrium Bibi	2024	Palliative role of Sudachitin against Paraquat-induced nephrotoxicity in male albino rats
25.	2019-ag-3319	Muhammad Faisal Hayat	2023	Protective effects of Alpinetin against Polyethylene Microplastics induced testicular damages in rats
26.	2021-ag-2514	Aqila Manzoor	2023	Effects of Sciadopitysin on Paraquat induced brain damage in male albino rats
27.	2017-ag-3791	Kainat Fatima	2023	Hepatoprotective effects of Ginkgetin against Polystyrene Microplastics induced oxidative stress, apoptosis and inflammation in rats
28.	2021-ag-2538	Mohammad Qamer	2023	Attenuative effects of Sciadopitysin against Paraquat induced testicular toxicity in male albino rats
29.	2021-ag-2523	Nimra Ather	2023	Exposure to Polystyrene Nanoplastics triggers pulmonary damages via modulation of oxidative stress and inflammation in male albino rats
30.	2021-ag-2533	Muhammad Muzammil Sultan	2023	Protective effect of Nobiletin against metabolic and reproductive disturbance in Letrozole induced polycystic ovarian syndrome in rats
31.	2018-ag-1087	Amina Arif	2023	Effects of Isorhamnetin on Methotrexate induced liver damage
32.	2019-ag-3344	Syeda Sania Zahara	2023	Sciadopitysin attenuates Paraquat induced cardiac toxicity in rats via regulating oxidative stress, inflammation and apoptosis
33.	2021-ag-2557	Momna Shabir	2023	Protective effects of Sciadopitysin against Paraquat-induced pulmonary toxicity in rats

34.	2021-ag-2548	Aiman Faisal	2023	Dose-dependent effects of Polystyrene Nanoplastics induced neurotoxicity in rats
35.	2021-ag-2528	Ayesha kalsoom	2023	Ameliorative potential of Sciadopitysin against Paraquat induced nephrotoxicity via attenuating oxidative stress, inflammation and apoptosis in albino rats
36.	2021-ag-2479	Ansa Javed	2023	Remedial effects of Sciadopitysin against Paraquat instigated liver damage in albino rats
37.	2018-AG-998	Rubab Furqan	2023	Exposure to Polystyrene Nanoplastics cause gut damage via inducing oxidative stress and inflammation in rats
38.	2018-ag-1221	Namra Nadeem	2023	Impact assessment of orally administered Polystyrene Nanoplastics on heart of male albino rats
39.	2017-ag-4602	Romesha Shehzadi	2023	Cardioprotective effect of Nobiletin on Doxorubicin-induced myocardial toxicity in rats
40.	2021-ag-1391	Saba Yaqoob	2023	Hepatoprotective role of Vitexin against Methotrexate-induced liver damage in male rats: a biochemical, inflammatory and apoptotic investigation
41.	2021-ag-2563	Sayda Snober Fatima Zadi	2023	Exposure to Polystyrene Nano plastics induces kidney damage in rats by inducing oxidative stress and apoptosis
42.	2021-ag-2542	Zainab Rafi	2023	Dose-dependent effects of Polystyrene Nanoplastics on the hepatic tissues of albino rats
43.	2019-ag-3345	Ali Akbar	2023	Chemoprotective potential of Ginkgetin against Polystyrene Microplastics instigated testicular damage in rats
44.	2021-ag-2546	Saba	2023	Prevalence and associated risk factors with ecto-parasitic infestations in small ruminants at selected livestock farms in District Faisalabad
45.	2018-ag-968	Ali Hamza	2022	Evaluation of antagonistic effects of polystyrene microplastics and rhamnetin on testicular tissues of albino rats
46.	2018-ag-1293	Komal	2022	Protective effects of rhamnetin on methotrexate-induced hepatotoxicity in rats

47.	2020-ag-1021	Kaynat Alvi	2022	Nephroprotective effects of rhamnetin on methotrexate-induced renal toxicity in male albino rats
48.	2020-ag-1018	Tahreem Fatima	2022	Evaluation of potential pulmoprotective effect of mangiferin on doxorubicin induced pulmotoxicity in rats
49.	2020-ag-1019	Iram Shehzadi	2022	Alleviation of doxorubicin induced lung damage by chrysin in albino rats
50.	2020-ag-1027	Mudassar Yaseen	2022	Assessment of therapeutic effect of jaceosidin against bisphenol-A induced renal damage in rats
51.	2020-ag-1052	Faria Saher	2022	Evaluation of possible protective effect of jaceosidin on bisphenol-A induced liver toxicity albino rats
52.	2018-ag-1294	Amina Akhtar	2022	Hepatoprotective effect of rhamnazin against bisphenol-A induced liver damage in rats
53.	2020-ag-1127	Namra Ghafoor	2022	Ameliorative effect of rhamnazin on bisphenol-A induced kidney damage in rats
54.	2020-ag-1111	Saira	2022	Therapeutic effect of diosmetin against bisphenol A induced lung toxicity in male albino rats
55.	2020-ag-1107	Sumbal Gillani	2022	Aucubin attenuates bisphenol A induced lung damage in albino rats
56.	2020-ag-1090	Muhammad Naeem Raza	2022	Hesperidin attenuates bisphenol A induced lung injury in adult Sprague Dawley rats
57.	2020-ag-1101	Saba Rafique	2022	Ameliorative effect of luteolin against bisphenol-A induced lung toxicity in albino rats
58.	2020-ag-1108	Iqra Shafiq	2022	Evaluation of possible protective effect of myricetin against bisphenol A induced lung damage in male albino rats
59.	2020-ag-1109	Arooj Rizwan	2022	Orientin attenuates on cisplatin induced lung toxicity by reducing oxidative stress and inflammation
60.	2020-ag-1114	Laraib Majeed	2022	Protective effect of tangeretin on cisplatin induced lung toxicities in male albino rats
61.	2018-ag-4875	Mehrab Khalil	2022	Isorhamnetin inhibits inflammation and oxidative tissue damage in cisplatin-induced pulmonary toxicity in rats

62.	2020-ag-1102	Ambreen Sadaf	2022	Therapeutic effect of vitexin on cisplatin-induced lung damage in male albino rats
63.	2020-ag-1106	Fozia Tabassum	2022	Nobiletin ameliorates cisplatin induced acute pulmonary damage due to its anti-oxidants and anti-inflammatory effects
64.	2020-ag-1128	Aqsa Bibi	2022	Protective effect of casticin against lung damage-induced by cisplatin in male Sprague-Dawley rats
65.	2017-ag-3086	Aqsa Ahmed	2019	Therapeutic effects of Casticin as an anti-oxidant on Cisplatin induced oxidative damage in rat liver
66.	2015-ag-1857	Mudassar Iqbal	2019	Effect of methanolic extract of <i>Artimisia brevifolia</i> plant on carbon tetrachloride induced testicular damage in male albino rats
67.	2015-ag-1856	Abdul Samad	2019	Carbon tetrachloride induced testicular damage in male albino rats: Antioxidant potential of <i>Nepeta paulsenii</i> plant extract
68.	2017-ag-3075	Samia Abdul Majeed	2019	Dose dependent study of thimerosal induced nephrotoxicity in rat
69.	2017-ag-3081	Ayesha Rauf	2019	Administration of vaccine preservative thimerosal produces impairment in rat liver
70.	2017-ag-3047	Fatima Ayaz	2019	Reprotoxic effects of thimerosal on rat testes
71.	2017-ag-3096	Arfa Tahir	2019	Casticin alleviates testicular and spermatological damage induced by Cisplatin in rats
72.	2017-ag-2989	Muhammad Umar	2019	Hepatoprotective effect of fisetin against arsenic induced liver toxicity in male albino rats
73.	2015-ag-3042	Saqlain Haider	2019	Alleviative effects of fisetin on male reproductive toxicity induced by Arsenic
74.	2014-ag-9559	Muhammad Sakandar Majid	2018	Mitigation of arsenic-induced kidney damage by fisetin in rats via reducing oxidative Stress
75.	2013-ag-1921	Asma Andleeb	2018	Evaluation of bioflocculation of Algal Biomass by Employing different Bacterial species
76.	2014-ag-8256	Faryal Jabeen	2018	Therapeutic effects of chrysin against arsenic induce nephrotoxicity in rat kidney

77.	2014-ag-2343	Sadia Shafiq	2018	Alleviative effects of chrysin on male reproductive toxicity induced by arsenic
78.	2014-ag-1884	Muhammad Azam Khan	2018	<i>Fraxinus xanthoxyloides</i> extract alleviates cisplatin-induced reproductive toxicity in male albino rats

Ph.D. RESEARCH COMPLETED (AS A MEMBER OF SUPERVISORY COMMITTEE)

Sr. No.	Regd No.	Name	Year	Research Title
1.	2007-ag-221	Saba Manzoor	2020	Studies on response of some passerine birds to climate change in rural and urban environments of central Punjab

POSTGRADUATE RESEARCH COMPLETED (AS A MEMBER OF SUPERVISORY COMMITTEE)

Sr. No.	Regd No.	Name	Year	Research Title
1.	2022-ag-1569	Muhammad Gulfam	2024	Protective effects of sakuranetin against polyethylene microplastics-induced cardiac damage in rats
2.	2022-ag-1709	Yasmeen Rasheed	2024	Ameliorative effects of poncirin against polyethylene microplastics-induced cardiotoxicity in rats
3.	2019-ag-2737	Muhammad Faisal	2024	Effect of incandescent bulb light on the performance and egg quality of Japanese quail
4.	2021-ag-2558	Muhammad Mehmood	2024	Comparative effect of different intensities under the compact florescent lamps on the performance and egg quality characteristics of Japanese quails
5.	2018-ag-1064	Insha Akram	2022	Impact of rose-ringed parakeet feeding on date-palm in an orchard garden of Faisalabad
6.	2020-ag-1097	Amna Mushtaq	2022	Some bird infestation in one acre citrus (<i>Citrus reticulata</i>) in a fruit orchard Faisalabad.
7.	2020-ag-1731	Amna	2022	Efficacy evaluation of selected insecticides and biopesticide for the management of red palm weevil (<i>Rhynchophorus ferrugineus</i>)

8.	2020-ag-1067	Nitasha Yaqoob	2022	Impacts of temperature and relative humidity of the foraging behaviour of rosy starling in an urban habitat of Punjab
9.	2020-ag-1061	Aalia Younis	2022	Comparative Rodent (<i>Nesokia indica</i>) capture evaluation using cages and snap traps in fodders
10.	2020-ag-1738	Anber Javed	2022	Protective effect of <i>Artemisia brevifolia</i> extract against cadmium induced hepatic damage in quails
11.	2020-ag-1720	Ahmad Raza	2022	Protective effect of pachypodol against arsenic induced toxicity in the liver of quails
12.	2018-ag-942	Farah Sarfraz	2022	Nonylphenol induced kidney damage in <i>Coturnix coturnix</i>
13.	2020-ag-1734	Muhammad Arslan Sohail	2022	Mitigation of arsenic induced renal toxicity through pachypodol in quails
14.	2020-ag-1730	Fatima Tuz Zahra	2022	Study of nonylphenol-induced toxicity in the blood of quails
15.	2020-ag-1729	Saman Ihsan	2022	Mitigation of cadmium induced toxicity in blood of quail through <i>Artemisia brevifolia</i> extract
16.	2020-ag-1075	Anam Jamil	2022	Diversity and <i>relative</i> abundance of honey bees in selected crops of district Faisalabad
17.	2020-ag-1064	Muneer Ahmad	2022	Effect of rhamnetin on polystyrene microplastic induced kidney damage in rats
18.	2020-ag-1092	Hadia Dilawar	2022	Spatio-Temporal diversity of birds at district Vehari
19.	2020-ag-1119	Nusrat Sattar	2022	Cyclophosphamide induced hemato-biochemical and histopathological alterations in heart of albino rats: protective effect of boron and selenium
20.	2020-ag-1116	Urooj Aamir	2022	Oxidative damage and histopathological alterations in the brain, digestive system and kidney in albino rats induced by chlorpyrifos: Antioxidant role of vitamin E and C
21.	2020-ag-1098	Sumaira Liaquat	2022	Diversity and relative abundance of honey bee at District Faisalabad
22.	2015-ag-1129	Komal Abid	2019	Temporo-spatial distribution of nocturnal insects at the wet territory from different ecological conditions

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| 23. | 2017-ag-2973 | Ayesha Nawaz | 2019 | Seasonal existence and tropical guilds of foliage insects in ornamental flowers field |
| 24. | 2015-ag-1553 | Farwa Abbas | 2019 | Assessment of house rat (<i>Rattus rattus</i>) population in maize crop plantations in Faisalabad |
| 25. | 2015-ag-1516 | Asma Bibi | 2019 | Abundance, distribution and management of <i>Tatera indica</i> using ecologically Trap Barrier System in Faisalabad Punjab, Pakistan |
| 26. | 2014-ag-8539 | Nimra Ateeq | 2019 | Monthly impact of Trap Barrier System (TBS) in Sugarcane (<i>Saccharum officinarum</i>) in an agro-ecosystem of Faisalabad |
| 27. | 2017-ag-3040 | Muhammad Waqar | 2019 | Inhibition of some rodent pests in the cultivation of Hafizabad Pakistan |
| 28. | 2015-ag-1016 | Muhammad Umer Mukhtar | 2019 | Effect of Trap Barrier System on <i>Bandicota bengalensis</i> in agricultural ecosystem of Samundri, Faisalabad |
| 29. | 2017-ag-3113 | Naveed Ahmad | 2019 | Effect of Trap Barrier System in reducing the population abundance of <i>Mus musculus</i> and <i>Nesokia indica</i> in an irrigated crop plantation of Faisalabad |
| 30. | 2015-ag-310 | Nazish | 2019 | Influence of Trap Barrier System (TBS) to manage infestation of house mouse (<i>Mus musculus</i> Linn.) on wheat in central Punjab |
| 31. | 2015-ag-1098 | Hina Shaheen | 2019 | Barcoding of mitochondrial cytochrome C oxidase 1 gene of the indigenous Rose ring parakeet (<i>Psittacula krameri</i>) family Psittaculidae |
| 32. | 2017-ag-2988 | Shaheena Kanwal | 2019 | Multispecies complex under different habitats |
| 33. | 2017-ag-3020 | Muhammad Afzaal Akram | 2019 | Reduced damage profiles of Indian bush rat (<i>Golunda ellioti</i>) in the crops of Toba Tek Singh Punjab, Pakistan |
| 34. | 2016-ag-3138 | Sehrish Manzoor | 2018 | Point prevalence of gastrointestinal helminths of resident fish species in district Faisalabad, Punjab, Pakistan |
| 35. | 2013-ag-912 | Yusra Yasmin | 2017 | Seasonal vs. diurnal rhythm of foliage insects among Bitter gourd (<i>Momordica charantia</i>) and Ridge gourd (<i>Luffa acutangula</i>) |

36.	2013-ag-127	Anam	2017	Potential alterations in the distribution of foliage insects in response to day rhythm in okra field
37.	2015-ag-1341	Shoaib Ahmad	2017	Morphological and hematological impact of heavy metal (Cadmium) toxicity on <i>Millardia meltada</i>
38.	2013-ag-712	Sidra Riasat	2017	Occurrence of soil macro invertebrates in wheat and chilli fields

RESEARCH COMPLETED (AS AN ADVISOR)

Sr. No.	Regd No.	Name	Year	Report Title
1.	2020-ag-8363	Nadia Yasin	2024	Epicatechin: A promising pharmacological agent in health and disease
2.	2020-ag-8400	Alisha Munir	2024	Role of nanoparticles in targeted drug delivery in cancer treatment
3.	2020-ag-8401	Maleeha Shahzadi	2024	Pelargonidin, a dietary anthocyanin, exhibits promising therapeutic potential against apoptosis, inflammation and oxidative stress
4.	2020-ag-8402	Fatima Rehman	2024	Therapeutic potential of homoplantagin against oxidative stress, inflammation and diabetes
5.	2020-ag-8403	Laiba Tariq	2024	Cardioprotective, hepatoprotective and nephroprotective role of salvigenin, a trimethoxylated flavone
6.	2020-ag-8404	Fatima	2024	Pharmacotherapeutic potential of flavonoids in mitigation of cardiovascular diseases
7.	2020-ag-8405	Nimra Razzaq	2024	Biological and pharmacological potential of naturally occurring marine flavonoids
8.	2020-ag-8406	Muhammad Hannan	2024	Galangin Regulates Disease Pathogenesis in vital organs of rats via modulating oxidative stress
9.	2020-ag-8407	Hafiza Sabahat Fatima	2024	Mechanism of arsenic induced carcinogenesis: an integrated approach
10.	2020-ag-8408	Mudassar Hussain	2024	Protective efficacy of <i>Glycyrrhiza uralensis</i> via suppression of oxidative stress, inflammation and apoptosis

11.	2020-ag-8466	Humayun Ali	2024	Assessment of therapeutic properties of <i>Phyllanthus emblica</i> : A complementary and alternative medicine
12.	2020-ag-8467	Muhammad Saqlain	2024	Evaluation of pharmacotherapeutic potentials of <i>Cyamopsis tetragonoloba</i>
13.	2020-ag-8468	Sadia Hafeez	2024	Assessment of anti-inflammatory, anti-oxidative and anti-apoptotic potentials of sophoricoside
14.	2020-ag-8469	Maria Tahir	2024	Evaluation of possible protective role of peonidin against different disorders
15.	2020-ag-8470	Ayesha Ateeq	2024	Tricetin: A Versatile Therapeutic Compound with Antioxidant, Anti-inflammatory and Anti-cancerous Potentials.
16.	2020-ag-8502	Ayesha Qandeel	2024	Effects of probiotics on management of cystic fibrosis
17.	2020-ag-8504	Momna Fatima	2024	Therapeutic role of Spermine: An anti-oxidant and anti-inflammatory agent
18.	2020-ag-8526	Anosha Iqbal	2024	Evaluation of the toxicological effects of perfluorooctane sulfonate on male and female reproductive systems
19.	2020-ag-8527	Rabia Shahid	2024	Protective effects of <i>Piper methysticum</i> against oxidative stress, inflammation and apoptosis
20.	2020-ag-8528	Misbah Nasir	2024	The role of acrolein in cellular damage and disease progression
21.	2020-ag-8529	Uswa jabbar	2024	Pharmacological and therapeutic potential of naringenin
22.	2020-ag-8530	Maliha Sajid	2024	Heptamethoxyflavone: A comprehensive exploration of its therapeutic potentials
23.	2020-ag-8531	Shah Bano	2024	Mechanistic insights into oxidative stress-induced immune dysregulation in autoimmune disorders
24.	2020-ag-8532	Muhammad Saqlain	2024	The role of probiotics in prevention and treatment of respiratory tract infections.
25.	2020-ag-9764	Neha Arooj	2024	Pharmacological and medicinal properties of <i>Astragalus mongholicus</i>
26.	2019-ag-7041	Muhammad Zaid Salar	2023	Hepato and reno-protective potential of alpinetin against polyethylene microplastics-induced toxicity in rats

27.	2019-ag-7095	Hina Fatima	2023	Biological and pharmacological properties of mangiferin
28.	2019-ag-7096	Ayesha Akram	2023	Nutritional and medicinal properties of <i>Citrullus colocynthis</i>
29.	2019-ag-7097	Azhar Husaain	2023	Role of furans in endocrine disruption
30.	2019-ag-7035	Saman khalid	2023	Assessment of toxicological effect of polystyrene micropalstics on heart, kidney and liver
31.	2019-ag-7037	Zainab Bibi	2023	The potential protective role of petunidin against oxidative stress, inflammation and apoptosis.
32.	2019-ag-7157	Amna Nasir	2023	Anti inflammatory, anti-oxidative, anti-cancer and cardiovascular activities of allicin
33.	2019-ag-7105	Maha Saeed	2023	Biochemical and pharmacological activities of Esculetin
34.	2019-ag-7039	Ayesha Saif	2023	Myricetin:a compound with diverse biological and pharmacological effects
35.	2019-ag-7099	Tanzeela Hassan	2023	Pachypodol: a novel pharmacological approach for disease prevention and management.
36.	2019-ag-7040	Esha Fatima	2023	Toxicological effect of Nonylphenol on vital organs.
37.	2019-ag-6969	Anam Zahra	2023	Pharmacological aspects of apigenin in the treatment of inflammation, cancer, diabetes and oxidative stress
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66.	2015-ag-1857	Mudassar Iqbal	2017	Effect of rutin on arsenic induced testicular oxidative stress in male albino rats
67.	2015-ag-1856	Abdul Samad	2017	Effects of bisphenol F exposure on male reproductive system of rats: a biochemical and hormonal study
68.	2015-ag-3042	Saqlain Haider	2017	Mitigation of bisphenol A induced reproductive damage by lycopene in male rats via reducing oxidative stress
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70.	2015-ag-3040	Tahir Hussain Bhatti	2017	Effect of lycopene on Bisphenol A induced endocrine disruption in adult male rat
71.	2015-ag-2671	Hafiz Muhammad Usama	2017	Effect of bisphenol A on pyloric mucosa in albino rat

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PUBLICATIONS (ABSTRACTS)

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110. Alvi, MA., **Ijaz, MU.** and Majid, MS. 2017. Cyclophosphamide induced histopathological and biochemical alterations in rat liver and preventive role of curcumin. Abstracts of 37th Pakistan Congress of Zoology. Pp. 215

111. Majid, MS. and **Ijaz, MU.** 2017. Prevalence of intestinal nematodes and haemoparasites in domestic and stray dogs. Abstracts of 37th Pakistan Congress of Zoology. Pp. 267
112. **Ijaz, MU.**, Majid, MS. and Alvi, MA. 2016. Effects of *Carissa opaca* fruit extract on arsenic induced testicular damage in rats. Abstracts of International Conference of Biochemistry, Biotechnology and Biomaterials. Pp. 24
113. **Ijaz, MU.**, Majid, MS. and Alvi, MA. 2016. Hepatoprotective effect of *Asparagus gracilis* extract on arsenic induced testicular damage in rats. Abstracts of International Conference of Biochemistry, Biotechnology and Biomaterials. Pp. 55
114. Alvi, MA., **Ijaz, MU.** and Majid, MS. 2016. *Pistacia chinensis* extract protects bisphenol A induced reproductive toxicity in adult male Sprague-Dawley rats. Abstracts of International Conference of Biochemistry, Biotechnology and Biomaterials. Pp. 73
115. **Ijaz, MU.** and Majid, MS. 2016. *Pistacia chinensis* extract protects arsenic induced reproductive toxicity in adult male Sprague-Dawley rats. Abstracts of 36th Pakistan Congress of Zoology. Pp. 127
116. Majid, MS., **Ijaz, MU.** and Tariq, H. 2016. Effect of *Carissa opaca* fruit extract on lead induced testicular toxicity in male rats. Abstracts of 36th Pakistan Congress of Zoology. Pp. 127
117. **Ijaz, MU.** and Jahan, S. 2015. Evaluation of possible protective role of quercetin on bisphenol A induced reproductive toxicity in adult male Sprague-Dawley rats. Abstracts of 35th Pakistan Congress of Zoology. Pp. 111.

PUBLICATIONS (BOOK CHAPTERS)

1. Aslam, A., **Ijaz, M.U.**, Aslam, M.T., Chattha, M.U., Khan, I., Gulzar, M.Z., Mehmood, M. and Ali, F., 2024. Monitoring and Detection of Insect Pests Using Smart Trap Technologies. In Revolutionizing Pest Management for Sustainable Agriculture, IGI Global. pp. 443-468. (979-836-93-3061-6)
2. Farooq, F., Hayat, S., Ashraf, A., Aslam, B., Siddique, M.H., **Ijaz, M.U.**, Taj, Z., Ibrar, A., Muzammil, S., 2024. Nanoparticles Interaction with Bacteria and Viruses. In Advances in Healthcare and Nanoparticle Toxicology, Materials Research Foundations, Vol. 171, pp. 76-92. (ISBN: 978-1-64490-332-2)
3. Hayat, M.F., Ali, R.M.A., **Ijaz, M.U.**, Alvi, M.A. and Shafeeq, M. 2024. Molecular Biology and Physiology of Parasites. In: Omics Approaches in Veterinary Parasitology (First Ed.). CRC Press, Boca Raton, Florida. pp.1-21. (ISBN: 978-103-26-5107-1)
4. Kiran, S., Amjad, A., **Ijaz, M.U.**, Rafique, A., Munir, B. and Rasool, M. 2024. Impact of Nanotechnology in Separation of Plant Colorants and Their Applianse for Wastewater Remediation. In: Nanoscale Textile Coatings for Enhanced Performance. Engineering Materials. Springer, Singapore. (ISBN: 978-981-97-5922-4)
5. **Ijaz, M.U.**, Hayat, M.F. and Ashraf, A. 2024. Microbiome and Reproductive Health. In: Human Microbiome. Springer, Singapore. pp. 251-272. (ISBN 978-981-97-3790-1)
6. **Ijaz, M.U.**, Akbar, A., Ashraf, A., Yeni, D.K., Naz, H., Shahid, M. 2024. Microbiome and Neurological Disorders. In: Human Microbiome. Springer, Singapore. pp. 273-301. (ISBN 978-981-97-3790-1)

7. **Ijaz, M.U.**, Akbar, A., Ashraf, A., Saqalein, M., Khan, H.A., Hayat, S. and Muzammil, S., 2024. Toxicity of Nanoparticles in Biological Systems. In Nanoparticle Toxicity and Compatibility. Materials Research Foundation, 161, pp.245-266. (ISBN 978-1-64490-298-1)
8. Jamil, R., Imran, M., Shan, U.F., Altaf, H., **Ijaz, M.U.**, Sadia, H., Shahid, A. and Waqas, M., 2023. Cryptosporidium transmission dynamics: bridging the gap between wildlife and urban environments. In Zoonosis, Unique Scientific Publishers, Faisalabad, Pakistan, 2, pp.289-305. (ISBN 978-969-2201-11-7)
9. Salar, M.Z., Hayat, M.F., Hamza, A., Ehsan, N., Khan, H.A. **Ijaz, M.U.** and Imran, M., 2023. Contribution of Ethnopharmacology in Ameliorating Toxicity of Vital Organs. In Complementary and Alternative Medicine: One Health Perspective. FahumSci, Lahore, Pakistan, pp. 172-179. (ISBN 978-627-7745-01-1)
10. Akbar, A., **Ijaz, M.U.**, Khan, H.A., Ehsan, N. and Imran, M., 2023. Ameliorative effects of homeopathic medicines in the management of different cancers. In Complementary and Alternative Medicine: One Health Perspective. FahumSci, Lahore, Pakistan, pp. 186-191. (ISBN 978-627-7745-01-1)
11. Hayatt, M.F. and **Ijaz, M.U.**, 2023. Therapeutic Effects of Ayurvedic Medicines for the Treatment of Different Cancers. In Complementary and Alternative Medicine: One Health Perspective. FahumSci, Lahore, Pakistan, pp. 192-198. (ISBN 978-627-7745-01-1)
12. Ahmad, M., Sadia, H., Shahzad, A., Mubarik, M.Z., **Ijaz, M.U.**, Azhar, R., Shabaz, Z. and Imran, M. 2023. Essential oils as repellents against mosquitoes and its implication for public health. In Complementary and Alternative Medicine: One Health Perspective. FahumSci, Lahore, Pakistan, pp. 30-37. (ISBN 978-627-7745-01-1)
13. Anwar, H., Nawaz, L., Saddiqa, A., Shaheen, S., Muzaffar, H., **Ijaz, M.U.** and Mukhtaar, I., 2023. Oxidative Stress as a Triggering Mechanism of Various Diseases. In The Role of Natural Antioxidants in Brain Disorders. Springer, pp. 71-87. (ISBN 978-3-031-41187-8)
14. **Ijaz, M.U.**, Akbar, A., Anwar, H., Inam, S., Ashraf, A. and Riaz, M., 2023. Patchouli. In Essentials of Medicinal and Aromatic Crops. Springer, pp. 249-280. (ISBN 978-3-031-35402-1)
15. **Ijaz, M.U.**, Faisal, M.F., Ashraf, A. and Rahman, I., 2023. Black Pepper. In Essentials of Medicinal and Aromatic Crops. Springer, pp. 281-310. (ISBN 978-3-031-35402-1)
16. Akbar, A., **Ijaz, M.U.**, Ehsan, N. and Kiran, S. 2023. Control and preventive measures to tackle zoonotic diseases from the fish. In Zoonosis. Unique Scientific Publishers, Faisalabad, Pakistan, Vol. I: 255-268. (ISBN 978-969-2201-10-0)
17. Yeni, D.K., Nazir, M.M., **Ijaz, M.U.**, Rafique, A., Ali, T. and Ashraf, A., 2023. Effects of climate change on emerging and reemerging zoonotic diseases. In Zoonosis, Unique Scientific Publishers, Faisalabad, Pakistan, Vol 1, pp.211-225. (ISBN 978-969-2201-10-0)
18. Hayat, M.F., Javed, M., **Ijaz, M.U.**, Khan, H.A., Ashraf, A. and Imran, M., 2023. Assessment of emergence, economic losses and prevention of zoonotic infections. In Zoonosis, Unique Scientific Publishers, Faisalabad, Pakistan, Vol 1, pp.269-278. (ISBN 978-969-2201-10-0)
19. **Ijaz, M.U.**, Hayat, M.F., Safi, S.Z., Hamza, A., Ashraf, A. and Arshad, M., 2023. Greenhouse Gases Emissions Assessments and Mitigation Opportunities from Animal Manure

- Processing. In Climate Changes Mitigation and Sustainable Bioenergy Harvest Through Animal Waste: Sustainable Environmental Implications of Animal Waste. Springer, pp. 215-239. (ISBN 978-3-031-26223-4)
20. Andleeb, R., **Ijaz, M.U.**, Ashraf, A., Rafi, R., Yeni, D.K., Naz, S., Ali, T. and Sajid, M.A., 2022. Nanovesicles for targeting autoimmune diseases. In Applications of Nanovesicular Drug Delivery. Elsevier Academic Press, pp. 421-440. (ISBN: 978-0-323-91865-7)
 21. Farzeen, I., Muzammil, S., Rafique, A., Noreen, R., Waseem, M., Andleeb, R., **Ijaz, M.U.** and Ashraf, A., 2022. Cutaneous Candidiasis. In Candida and Candidiasis. IntechOpen, pp. 71-87. (ISBN: 978-1-80356-869-0)
 22. Ashraf, A., Kiran, S., Muzammil, S., Hayat, S., **Ijaz, M.U.** and Muzammil, A., 2021. Phthalates and Neurological Disorders: From Exposure to Preventive Interventions. In Environmental Contaminants and Neurological Disorders. Springer, pp. 281-307. (ISBN: 978-3-030-66375-9)

PROJECTS (PRINCIPAL INVESTIGATOR)

1. Principal investigator of Research Project titled “3-Hydroxyflavone: A multi-targeted approach to combat diabetes induced damages in vital organs”. Grant will be awarded by Endowment Fund under UAF-US Collaboration for Strengthening of Agri. Academia at total cost of Rs. 1.835 million for a period of 2 years. (Ongoing)

ORAL PRESENTATIONS

- ‘Mitigative effects of scopoletin on polystyrene microplastics induced renal damage’. 42nd Pakistan Congress of Zoology (International) at University of Azad Jammu & Kashmir, Muzaffarabad, April 23-25, 2024.
- ‘Polystyrene nanoplastics induced liver damages in rats: a biochemical, inflammatory, apoptotic and histopathological analysis’. International symposium on Nanobiology: Integrating Nanotechnology & Microbiology for Sustainable Future (ISNB 2024) at Institute of Microbiology, Government College University, Faisalabad, February 28-29, 2024.
- ‘Baicalein alleviates testicular damage in adult male rats challenged with methotrexate’. 37th Pakistan Congress of Zoology (International) at Government College University, Faisalabad, February 28 – March 2, 2017.
- ‘*Pistacia chinensis* extract protects arsenic induced reproductive toxicity in adult male Sprague-Dawley rats’. 36th Pakistan Congress of Zoology (International) at University of Sindh, Jamshoro, February 16-18-2016.
- ‘Evaluation of possible protective role of Quercetin on bisphenol A induced reproductive toxicity in adult male Sprague-Dawley rats’. 35th Pakistan Congress of Zoology (International) University of Karachi, March 1-4, 2015.
- ‘Study of reproductive health consequences among shisha smokers in Pakistani population’. 1st National Students Conference on Biological Sciences at National Institute for Biotechnology and Genetic Engineering, Faisalabad, March 27-28, 2014.

**PROFESSIONAL/ TRAINING/ CONFERENCES/ SHORT COURSES/ WORKSHOPS
(AS AN INVITED/KEYNOTE SPEAKER)**

- Participated as a keynote speaker in the seminar “Toxicity in Blue life” organized by Department of Zoology, Government College University, Sialkot, Nov. 28, 2023.
- Participated as an invited speaker in “2nd Two days Hands on Practice in Lab Animal Handling and its Applications in Biomedical Research” organized by Department of Physiology, Government College University, Faisalabad, Oct. 12-13, 2023.

**PROFESSIONAL/ TRAINING/ CONFERENCES/ SHORT COURSES/ WORKSHOPS
(AS AN ORGANIZING COMMITTEE MEMBER)**

- Organized “One-day Hands-on-Training Workshop on Animal Preservation and Taxidermy” as an organizing committee member at the Department of Zoology, Wildlife and Fisheries, University of Agriculture, Faisalabad, Sep. 19, 2024.
- Instructed/Taught the short course of “Lab Attendant” offered by Faculty of Sciences, University of Agriculture, Faisalabad, Feb. 14-27, 2023.
- Instructed/Taught the short course of “Lab Technician” offered by Faculty of Sciences, University of Agriculture, Faisalabad, Feb. 14-27, 2023.
- Organized "International Conference on Interdisciplinary Research Innovations" as an organizing committee member at UAF Community College, PARS, Oct. 26-28, 2022.
- Organized "One Week Refresher Course for Laboratory Staff" " as an organizing committee member at UAF Community College, PARS, Aug. 10-16, 2022.
- Organized "One Week Refresher Course for Laboratory Staff" " as an organizing committee member at UAF Community College, PARS, Aug. 01-06, 2022.

PROFESSIONAL/ TRAINING/ CONFERENCES/ WORKSHOPS

- Attended the “Training Workshop for NAEAC Program Evaluators” organized by National Agriculture Education Accreditation Council, HEC, Islamabad, January 01, 2024.
- Attended the “6th International Conference on Applied Zoology (ICAZ-2023)” at Government College University, Faisalabad, December 18-19, 2023.
- Attended the “One-day National Seminar on Wildlife Conservation Strategies” at the Department of Zoology, Wildlife and Fisheries, University of Agriculture, Faisalabad, October 16, 2023.
- Attended the “1st Pakistan Young Physiologists Symposium, The Dynamics of Metabolic Disorders: Era of Alternative & Complementary Medicine” at Government College University, Faisalabad, January 12-13, 2023.
- Attended the “3rd National Symposium on One Health” at Faculty of Veterinary Science, University of Agriculture, Faisalabad. September 8, 2021.
- Attended the One-Day National Seminar “Wildlife in Pakistan: Challenges and Conservation Strategies” at Department of Zoology, Wildlife & Fisheries, University of Agriculture, Faisalabad, November 4, 2021.
- Attended the International Symposium on “Bio-safety Measures in Agriculture: Issues and Options”. University of Agriculture, Faisalabad, Mar. 19-20, 2019.
- Attended the “2nd National One Day Symposium on One Health”. University of Agriculture, Faisalabad and The Brooke Pakistan, Dec. 12, 2018.
- Attended the One Day Workshop on “Communicating Science to Society”. University of Agriculture, Faisalabad, May. 10, 2018.

- Attended the One day training workshop “Hunters and Wildlife Conservationists/Lovers” under “Capacity building of research & training in wildlife discipline project” at Punjab Wildlife Research Center, Gatwala, Faisalabad on April 26, 2018.
- Attended the workshop on “Advanced Spectroscopic Techniques for Characterization of Organic Compounds”. University of Agriculture, Faisalabad, Aug. 15-16, 2017.
- Attended the one-day workshop on “Application of Computational Biology in Biotechnology”. National Institute for Biotechnology and Genetic Engineering, July. 31, 2017.
- Attended the Two Days Workshop on “Data Analysis with SPSS”. Government College University, Faisalabad. May. 9-10, 2017.
- Attended the One Day workshop on “MALARIA”. University of Punjab, April. 25, 2017.
- Attended the one day Workshop “Immunofluorescence Techniques”. University of Punjab, Mar. 29, 2017.
- Attended the Workshop on “Research Writing Ethics and Publishing Developing Skills in Scientific Writing”. National Institute for Biotechnology and Genetic Engineering, Mar. 06, 2017.
- Attended the 15th Biennial Conference of Pakistan Physiological Society, at University of Health Sciences Lahore, Pakistan, held on February 25-26, 2017.
- Attended the Training workshop on “Solar System Installation and Applications”. University of Agriculture, Faisalabad, Feb. 24-25, 2017.
- Attended the National Workshop on “Teaching and Research Techniques in Anatomy”. University of Agriculture, Faisalabad, Feb. 15-16, 2017.
- Attended the One- Day Workshop on “Techniques in Cancer Cell Biology”. Department of Microbiology and Molecular Genetics. Feb. 14, 2017.
- Attended the “Techniques in Eukaryotic Cell Culture”. University of Punjab, Feb. 07, 2017.
- Attended the Workshop on ‘Technical & Patent Writing’ at Department of Chemistry, University of Agriculture, Faisalabad on January 28, 2017.
- Attended the “International workshop on Research Methods in Nutrition.” University of Agriculture, Faisalabad, December 13-14, 2016.
- Attended the 2nd National Training Workshop on “Enzyme Engineering: An Efficient Tool to Improve Properties of Industrial Bio-catalysts”. National Institute for Biotechnology and Genetic Engineering, December 5-7, 2016.
- Attended the International Workshop on “Devise strategies to control emerging viral hemorrhagic fevers in Pakistan” under the project “Serological Evidence for emerging infections at the level of human and animal interface” at University of Veterinary and Animal Sciences, Lahore, Pakistan on November 14-16, 2016.
- Attended the one day workshop on “Ethical Hacking”. University of Agriculture, Faisalabad, May. 06, 2016.
- Attended the workshop on “Biosynthesis of Prebiotics and Antibacterials”. National Institute for Biotechnology and Genetic Engineering, April. 5-7, 2016.
- Attended the workshop on “Western Blotting”. University of Punjab, Mar. 24, 2016.
- Attended the one day workshop on “Research Proposal Writing”. University of Punjab, Mar. 19, 2016.
- Attended the “International Conference of Biochemistry, Biotechnology and Biomaterials”. University of Agriculture, Faisalabad, Feb. 22-24, 2016

- Attended the “Young Faculty Capacity Sharing Program”. University of Agriculture, Faisalabad, Oct. 15-20, 2015.
- Attended the One Day Workshop “Western Blotting”. University of Punjab, May. 05 2015.
- Attended the “13th National Training Course on Modern Techniques in Biotechnology”. National Institute for Biotechnology and Genetic Engineering, April. 20-24, 2015.
- Attended the Two-Days Pre-Conference Workshop of “Parasitology and its Immunological Aspects”. University of Punjab, Feb. 13-14, 2015.
- Attended the “the 33rd Pakistan Congress of Zoology”. PMAS Arid Agriculture University, RWP, April. 2-4, 2013.
- Attended the “Conference Promoting Trade for Fisheries Products in Pakistan: Biological, Technological and Marketing Considerations”. Government College University, Faisalabad, 2012.