

Curriculum vitae

Personal data

Full Name: Dr. Shaukat Ali

Father's name: Muhammad Aslam

Date of Birth: 15-06-1981

Designation: Associate Professor (Tenured)

Official address: Department of Zoology,
Government College University, Lahore, Pakistan.



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Society, Near Nishtar Colony, Ferozepur Road Lahore, Punjab, Pakistan.

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Academic data:

Degrees	Subject/title	Completion year	Grade/division	CGPA/%age	Institution	Board/university
Matriculation	Science	1998	A/1 st	74%	Govt. High School Langah, Narowal	Gujranwala, Pakistan
Intermediate	Pre-medical	2000	B/1 st	64%	Govt. College of Science, Wahdat Road, Lahore	Lahore, Pakistan
B.Sc. (Hons.)	Zoology	2004	B/1 st	3.34/71.92%	Department of Zoology	University of the Punjab, Lahore, Pakistan
M.Sc. (Hons.)	Zoology (Environmental Microbiology and Biotechnology)	2006	A ⁺ /1 st	3.961/91.63%	Department of Zoology	University of the Punjab, Lahore, Pakistan
Ph.D.	Zebrafish embryos and larvae: A new generation of disease model and drug screens	Degree awarded on 7 th December, 2011	-	-	Department of Integrative Zoology, Institute of Biology	Leiden University, The Netherlands

Objectives.

To excel my knowledge and experience in biomedical research and achieve the goals for the betterment of human kind

Distinctions/scholarships/prizes:

1. 2nd position in the University examination in Zoology M.Sc. (Hons.) University of the Punjab, Lahore, Pakistan.
2. Throughout first grade academic degrees.
3. Higher Education Commission Overseas Scholarship under Faculty Development Program from the University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan for Ph.D. 2007.
4. Higher Education Commission of Pakistan Overseas Scholarship for Ph.D. for Germany 2007.
5. Higher Education Commission of Pakistan Indigenous 5000 PhD Fellowship Program, Batch IV `2007.
6. Awarded “author of the best thesis of the year 2011” for Institute of Biology, Leiden University, The Netherlands.
7. Nominated “author of the best thesis of the year 2011” for Faculty of Science and C.J. Kok prizes, Leiden University, The Netherlands.
8. Nominated for “Prof. Dr. A. R. Shakoori Gold Medal 2015” for Young Researcher.
9. Nominated for “Prof. Dr. A. R. Shakoori Gold Medal 2016” for Young Researcher.
10. Nominated for “Prof. Dr. Mirza Azhar Beg Gold Medal 2017” for Young Researcher.
11. Awarded with “Prof. Dr. Mirza Azhar Beg Gold Medal 2018 and Cash Prize” for Young Researcher 2018 by Zoological Society of Pakistan.
12. Nominated for “Prof. Imtiaz Ahmad Gold Medal 2020” for Young Researcher.
13. Awarded with performance-based Increment in 2021.
14. Awarded with performance-based Increment in 2022.
15. Awarded with performance-based Increment in 2023.
16. Awarded with “Prof. Dr. Farhat Jabeen 6th Gold Medal in Toxicology 2024 by The Applied Zoological Society of Pakistan.

Work Experience:

1. **Associate Professor** at Department of Zoology, Government College University, Lahore, Pakistan, 22-03-2021-todate
2. **Assistant Professor** at Department of Zoology, Government College University, Lahore, Pakistan, 27-02-2018-21 to 03-2021
3. **Assistant Professor** at Department of Zoology, University of Azad Jammu and Kashmir, Muzaffarabad, 14-05-2012 to 26-02-2018.
4. **Research Associate/Ph.D. scholar** at Department of Integrative Zoology, Institute of Biology, Leiden University, The Netherlands, 21-01-2008 to 24-01-2012.
5. **Honorary Research Associate** in the project “***Microbial Production of Antibiotic Zinc Bacitracin to Supplement the Poultry Feed***” at Pakistan Council of Scientific and Industrial Research Laboratories, Complex Ferozepur Road, Lahore, Pakistan. (January 2005 to October 2006).

Research specializations:

Developmental Biology, Microbiology, Medical Toxicology and Teratology, Nanobiotechnology, Cancer Biology, Applied Entomology

Prepared a project report in B.Sc. (Hons.) 2004: “*Developmental Effects of Carbamates*”

Research thesis title of **M.Sc. (Hons.) 2006**: “*Techno-Economic Assessment of Zinc Bacitracin Production by Fermentation Technology*”.

Research thesis of **Ph.D. 2008-2011**: “*Zebrafish embryos and larvae: A new generation of disease model and drug screens*” at Leiden University, The Netherlands.

Research Project approved as PI/CO-PI			
Sr. No.	Title	Funding agency	Amount Rs: (million)
1	Biodiversity, Antimicrobial Activity of Earthworm Species from Azad Jammu and Kashmir, Pakistan	NRPU-Higher Education Commission of Pakistan (HEC) NRPU No. 2907	3.8
2	Development of silk sericin based antimicrobial agent to replace synthetic antimicrobial agents used in textile and leather industry	TDF-Higher Education Commission of Pakistan (HEC) No. TDF03-047	8.744
3	Effect of biogenic nanoparticles on economic and biological traits and silk production of <i>Bombyx mori</i> L.: A step to uplift rural economy	Punjab Higher Education Commission of Pakistan (PHEC) No. PHEC/ARA/PIRCA/20061/2	8.0
4	Taxonomic study and biological screening of some mushrooms of Kumrat valley, KPK, Pakistan	NRPU-Higher Education Commission of Pakistan (HEC) No: Ref No. 20-17613/NRPU/R&D/HEC/2021 2021	6.0
5	Poverty reduction of poor rural farmers through capacity building, adoption of sustainable silkworm rearing practices and development of local silkworm lines for quality silk cocoon production	Punjab Agriculture Research Board (PARB), Punjab, Pakistan	22.148
6	Reversal of Multidrug resistance by nano-carrier based chemo-photothermal and molecular targeted therapy in hepatocellular carcinoma	NRPU-Higher Education Commission of Pakistan (HEC)	14.219528
7	Accelerating the Diabetic Wound Healing through Pharmaceutical Interventions of Silk proteins, <i>Aloe vera</i> and Ginger using Alloxan induced diabetic mice model: An economical and ecofriendly approach	Office of Research Innovation & Commercialization (ORIC) Government College University Lahore, Pakistan, No.74/ORIC/23	0.251
8	<i>Bergenia ciliata</i> loaded mucilage based smart hydrogel for accelerated diabetic wound repair in mice	Office of Research Innovation & Commercialization (ORIC) Government College University Lahore, Pakistan, No.499/ORIC/24	0.30
9	Anticancer activity of <i>Armillaria cepistipes</i> using CCl ₄ induced Cancer mice model: An economical and eco-friendly approach	Office of Research Innovation & Commercialization (ORIC) Government College University Lahore, Pakistan, No.496/ORIC/24	0.30

Projects submitted:				
Sr. No.	Title	Funding agency	Role	Amount Rs: (million)
1	Beta-thalassemia in Azad Kashmir: An extensive study investigating prevalence, hematologic features and gene mutations	Higher Education Commission of Pakistan (HEC)	PI	7.886
2	Evaluating the role of probiotics as an alternate to antibiotic growth promoters (AGPs) and in elimination of gut flora pathogenic to humans in poultry	PAK-USAID	PI	9.01
3	Large-scale assessment of current status of thalassemia in the region of Azad Jammu and Kashmir, Pakistan	Pakistan Medical Research Council	PI	0.5
4	Antimicrobial Activities of some Important Medicinal Plants of Neelum Valley Azad Kashmir against Human Associated Pathogens	Pakistan Science Foundation (PSF)	Co-PI	2.0
5	Synthesis of late transition metal complexes and applications in biological studies.	Pakistan Science Foundation (PSF)	Co-PI	2.0

Ph.D. thesis supervised:			
Sr. No.	Student names	Title	Year
1	Uzma Azeem Awan	COX-2 RNA interference by oligonucleotides on a nanoplasmonic carrier-based optical switch (ONCOS) in hepatocellular carcinoma.	2017
2	Muhammad Adeeb Khan	Targeted chemotherapy of hepatocellular carcinoma using biodegradable biocompatible polymer nanocarrier	2018
3	Tafail Akbar Mughal	Therapeutic applications of biogenic gold and silver nanoparticles from <i>Barberries lyceum</i>	2021
4	Shumaila Mumtaz	Antibacterial and antioxidant activity of silk proteins and vitamin C against D-galactose induced aging in mice	2022
5	Lubna Kanwal	Targeting Glucose-6-phosphahte dehydrogenase by phytochemicals for the treatment of Hepatocellular carcinoma	2023
6	Samaira Mumtaz	Anticancer potential of <i>Bergenia ciliata</i> and silkworm protein sericin against breast cancer	2023
7	Tooba Nauroze	Ameliorative effect of <i>Nigella sativa</i> against chromium (VI) induced hepatotoxicity and testicular toxicity in male mice	2023
8	Ghulam Mustafa	Molecular characterization of bacterial genes involved in bioremediation of textile effluents	2023
9	Farheen Shafiq	Epidemiology and genetic diversity of thalassemia syndrome patients in general population of Azad Jammu and Kashmir, Pakistan	2024
10	Ali Hassan	Therapeutic applications of synergetic formulations of sericin and turmeric for burn and diabetic wound healing in mice	2024
11	Sana Iqbal	<i>In vitro</i> investigations to explore anticancer effects of a silkworm protein (sericin) against colorectal cancer cells	2024

12	Muhammad Summer	Stimulus-responsive <i>Bergenia ciliata</i> loaded <i>Salvia hispanica</i> hydrogels for accelerated wound repair	2025
13	Farah Ijaz	Anticancer potential of sericin-chitosan conjugated silver nanoparticles against colon cancer	2025
14	Hunaiza Tahir	Biosynthesis of <i>Azadirachta indica</i> conjugated silver nanoparticles from and its therapeutic applications in mice	2025

Ph.D. research work/theses in progress			
Sr. No.	Student names	Title	Year
1	Rida Khan	Arsenic mediated diabetes and pharmacological intervention of <i>Peganum harmala</i> seeds in <i>Coturnix japonica</i>	2023-2026
2	Rabia Mushtaq	Ameliorative effects of <i>Armillaria</i> spp. against streptozotocin induced diabetes in mice	2023-2026
3	Rimsha Abaidullah	Antiaging potential of <i>Cymbopogon citratus</i> against D-galactose induced aging in mice	2024-2027
4	Hifsa Iqbal	Antiepileptic potential of <i>Nigella sativa</i> and <i>Curcuma longa</i> formulations against pentylenetetrazol induced epilepsy in mice	2024-2027

MS/M. Phil. theses supervised:			
Sr. No.	Student names	Title	Year
1	Daniël van Denderen	The developmental toxicity of deltamethrin at specific stages of zebrafish development.	2009-2010
2	Simone Tempelaar	The effects of deltamethrin on dopaminergic neurons in zebrafish embryo brain.	2010-2011
3	Amanda Ruijs	A zebrafish model for gene expression and the effects of retinoic acid and ascorbic acid.	2011-2012
4	Shahida Rehman	Assessment of biological studies of lichen species from Neelum Valley of Azad Jammu and Kashmir	2013-2014
5	Muhammad Basharat	Enhanced production of lipase from microbes through different fermentation conditions.	2013-2014
6	Ayesha Aziz	Protease production from microbes associated with contaminated sources through submerged fermentation.	2013-2014
7	Rozina Ghulam Mustafa	Phytochemical, pharmacological and antimicrobial studies of Khatimal (<i>Rumex hastatus</i>)	2014-2015
8	Sadia Nazer	Analysis of biochemical alterations in kidney caused by cadmium chloride and mercuric chloride and treatment by vitamin E in domestic chickens	2014-2015
9	Naheed Akhtar	Biological studies of synthetic peptides derivatives of organotin carboxylates	2014-2015
10	Nahida Shafi	Induction of hepatocellular carcinoma by diethylnitrosoamine and pharmacological intervention in balb c mice	2015-2016

11	Mubashir Ejaz	<i>In vivo</i> study of extracts of <i>Artemisia vulgaris</i> against hepatocellular carcinoma induced by diethylnitrosoamine	2015-2016
12	Maria Akram Minhas	Evaluation of toxicological effects of lead acetate on liver and kidneys of chicks	2016-2017
13	Amrina Latif	Analysis of biochemical and pathological changes induced by cadmium chloride in liver and kidneys of chicks	2016-2017
14	Saleha Bashir	Evaluation of toxicological effects of cadmium chloride on heart and lungs of chicks	2016-2017
15	Saeeda Hussain	Assessment of adverse effects of lead acetate on blood of chicks	2016-2017
16	Rida Khan	Assessment of toxicological effects of heavy metals (cadmium and mercury) on blood and testis and pharmacological intervention by vitamin c in male rabbits	2016-2017
17	Shumaila Mumtaz	Analysis of adverse effects of heavy metals (cadmium and mercury) on liver functions and protective role of ascorbic acid in male rabbits	2016-2017
18	Abdul Razzaq Awan	Prevalence of cutaneous leishmaniasis among the adults reported in (CMH and AIMS) Muzaffarabad Division	2017-2018
19	Azeem Masih	Comparative analysis of physiochemical alterations in diabetic and non-diabetic subjects in district Sialkot, Pakistan	2017-2018
20	Muhammad Majid Bashir	Assessment of adverse effects of cadmium and mercury on liver and blood of domestic chicks and pharmacological intervention by vitamin E	2017-2018
21	Muhammad Babar	Analysis of biochemical alterations in kidney caused by cadmium chloride and mercuric chloride and treatment by vitamin e in domestic chickens	2017-2018
22	Salma Rasheed	Optimization of zinc bacitracin production from mutant <i>Bacillus subtilis</i> by submerged fermentation technology	2018-2019
23	Afifa Zubair	Evaluation of antioxidant and antibacterial activities of biogenic nanoparticles synthesized by using <i>Swertia petiolata</i>	2018-2019
24	Ali Hassan	Microbial production of antibiotic zinc bacitracin by submerged fermentation technology to supplement the poultry feed	2018-2019
25	Aasma Rehman	Factors affecting breastfeeding practices in working women of Muzaffarabad, Azad Jammu and Kashmir	2018-2019
26	Rabia Mushtaq	Assessment of antimicrobial activity of Sericin and Sericin AgNO ₃ nanoparticles against textile degrading microbes	2019-2020
27	Mehreen Elahi	Evaluation of silk protein, sericin, as an anticancer agent against hepatocellular carcinoma (HCC) induced by diethylnitrosamine (DEN) in mice	2019-2020
28	Nouman Shahid	Hepatoprotective activity of vitamin E against mercury in chicks	2019-2020
29	Rai Abdul Basit	Hepatoprotective activity of vitamin E against arsenic in chicks	2019-2020
30	Maroosha Nageen	Anti-aging and antioxidant potential of sericin capped silver nanoparticles against D-galactose induced brain aging in mice	2020-2021
31	Muhammad Adeel Farooq	Therapeutic applications of garlic and turmeric for the diabetic wound healing in mice	2020-2021
32	Rida	Wound healing by silkworm fibroin, Aloe vera and ginger in alloxan induced diabetic mice	2020-2021

33	Ayesha Sajjad	Effects of probiotic <i>Lactobacillus helveticus</i> against breast cancer induced by cadmium chloride in mice	2021-2022
34	Hafsa Shahzad	Therapeutic role of <i>Vachellia nilotica</i> in the wound healing in alloxan-induced diabetic mice	2021-2022
35	Fareha Ali	Assessment of Antioxidant and Antibacterial activities of <i>Moringa oleifera</i> and <i>Zingiber officinale</i> conjugated silver nanoparticles	2021-2022
36	Sehar Shahid	Synthesis of Au-Ag hybrid nanoparticles using doxycycline and evaluation of its anticancer activity in mice	2021-2022
37	Tahreem Tanveer	Evaluation of antibacterial and antioxidant potential of <i>Mentha spicata</i> conjugated silver nanoparticles	2021-2022
38	Rahila Islam	Assessment of antioxidant and antibacterial activities of <i>Nigella sativa</i> conjugated silver nanoparticles against bacterial pathogens	2021-2022
39	Umaina	Evaluation of antibacterial and antioxidant potential of characterized cinnamon conjugated silver nanoparticles	2021-2022
40	Tooba Naveed	Anticancer potential of <i>Raphanus sativus</i> conjugated silver nanoparticles against diethylnitrosamine-induced hepatocellular carcinoma in mice	2022-2023
41	Warda Ali	Therapeutic potential of <i>Bergenia ciliata</i> and honey for the treatment of diabetic foot ulcer in mice	2022-2023
42	Faiza	Anticancer potential of <i>Bergenia ciliata</i> loaded with silk fibroin nanoparticles against breast cancer in mice	2022-2023
43	Aqsa Bibi	Role of <i>Psidium guajava</i> and <i>Ocimum sanctum</i> conjugated silver nanoparticles in diabetic wound healing in mice	2022-2023
44	Aqsa	Amelioration of arthritis by pharmaceutical intervention of <i>Syzygium aromaticum</i> and <i>Curcuma longa</i> in mice	2023-2024
45	Anfah Riaz	Formulation and evaluation of <i>Bergenia ciliata</i> based hydrogel for the burn wound healing in mice	2023-2024
46	Laiba Nazkat	Therapeutic applications of <i>Nigella sativa</i> formulations against collagen-induced arthritis in mice	2023-2024
47	Waseem Sajjad	<i>In vitro</i> antibacterial and antioxidant potential of <i>Silybum marianum</i>	2023-2024
48	Muhammad Sharjeel	Antibacterial potential of onion extract against fish-associated bacterial pathogens	2023-2024
49	Memoona Ashfaq	<i>Bergenia ciliata</i> incorporated mucilage based smart hydrogel for wound healing	2024-2025
50	Sumaira Raziq	Hypolipidemic potential of milk thistle extract-loaded basil seeds based feedable hydrogel	2024-2025
51	Shabana Mehreen	Hypolipidemic potential of milk thistle extract-loaded flax seeds based feedable hydrogel	2024-2025

M.Phil. theses in progress:			
Sr. No.	Student names	Title	Year
1	Amina Iqbal	Anticancerous potential of <i>Fagonia cretica</i> conjugated silver nanoparticles against cadmium induced breast cancer in mice	2025-2026

2	Rimsha Ashraf	Hepatoprotective potential of <i>Solanum nigrum</i> against lipopolysaccharide induced liver injury in mice	2025-2026
3	Saima Riaz	Therapeutic role of <i>Salvadora persica</i> formulations against cadmium induced breast cancer in mice	2025-2026
4	Waqas Ahmad	Therapeutic potential of <i>Withania somnifera</i> against lead induced testicular toxicity in male mice	2025-2026

BS/M.Sc. theses supervised:			
Sr. No.	Student names	Title	Year
1	Simone Tempelaar	Developmental neurotoxicity of deltamethrin and pharmacological interventions in zebrafish Embryos.	2010-2011
2	Sharina van Boheemen	Zebrafish as a predictive model for glycosides toxicity.	2010-2011
3	Marieke Corsel	Zebrafish as a predictive model for water-soluble glycosides toxicity.	2010-2011
4	Willem Davids	Zebrafish as a predictive model for alkaloids toxicity.	2010-2011
5	Niels van der Pol	Zebrafish as a predictive model for water-soluble alkaloids toxicity.	2010-2011
6	Saskia Meijer	Toxicity testing of pesticides on zebrafish embryos.	2011-2012
7	Britt Boogmans	Toxicity testing of heavy metals on zebrafish embryos.	2011-2012
8	Muhammad Babar	Thin layer chromatography, phytochemical screening, bioautography and antioxidant activity of medicinal plants from Leepa valley Azad Jammu and Kashmir, Muzaffarabad.	2013-2014
9	Sozana Kosar	Antibacterial activity of <i>Atropa accuminata</i> and <i>Atropa belladonna</i> plants and standard antibiotics against soil associated pathogens	2013-2014
10	Saeeda Hussain	Antifungal activity, total phenolic and flavonoid contents of <i>Atropa accuminata</i> and <i>Atropa belladonna</i> extracts	2013-2014
11	Tayyba Fatima	Physical Properties, antibacterial and antioxidant activity of <i>Clematis grata</i>	2014-2015
12	Qudsia Rafique	<i>In vitro</i> antibacterial activity of organotin (IV) complexes MS55 series	2014-2015
13	Ruba Ghazal	Thin layer chromatography, phytochemical, TLC-bioautography and spot screening of <i>Clematis grata</i>	2014-2015
14	Tahir Naveed	<i>In vitro</i> antibacterial activity of organotin (IV) complexes MS53 series	2014-2015
15	Nazish Sheikh	Assessment of spring water microbiology and role of extract of <i>Typha angustata</i> as bioadsorbent	2015-2016
16	Maryam Khalil	Analysis of spring water contamination and effects of modified extract of <i>Typha angustata</i> as bioadsorbent	2015-2016
17	Sundas Nasreen	Evaluation of effects of diethylnitrosamine and <i>Artemesia vulgaris</i> on liver of balb c mice	2015-2016
18	Sobia Safeer	Induction of hepatocellular carcinoma by diethylnitrosoamine and	2015-2016

		evaluation of effects extract of <i>Artemisia vulgaris</i> against diethylnitrosamine in mice	
19	Syeda Fiza Gillani	Evaluation of effects of diethylnitrosoamine for induction of hepatocellular carcinoma and biological activity of <i>Bergenia ciliata</i>	2015-2016
20	Nadia Ashraf	Induction of hepatocellular carcinoma by diethylnitrosoamine and antihepatocellular carcinoma activity of <i>Bergenia ciliate</i>	2015-2016
21	Kiran Azmat	Analysis of dose-dependent effects of lead acetate on hematology of chicks	2016-2017
22	Tooba Nazeer	Evaluation of effects of lead acetate on biochemical changes in liver and kidneys of chicks	2016-2017
23	Tayyba Asif	Quantitative analysis of biochemical changes in liver and kidneys of chicks induced by cadmium chloride	2016-2017
24	Tehniat Sultana	Assessment of biochemical alterations in heart and lungs of chicks induced by cadmium chloride	2016-2017
25	Areesha Muneer	Analysis of biosorbant role of <i>Typha angustata</i> extract against spring water microbiology	2016-2017
26	Komal Ashfaq	Assessment of antimicrobial activity of modified <i>Typha angustata</i> extract against spring water associated microbes	2016-2017
27	Sadia Younas	Diversity and antimicrobial activity of earthworms from district Muzaffarabad, Azad Jammu and Kashmir, Pakistan	2016-2017
28	Fouzia Sultana	Morphological characterization of earthworm species from district Mirpur, Azad Jammu and Kashmir, Pakistan	2016-2017
29	Iqra Abdullah	Potential of sericin on mineral absorption in intestine of chicks	2018-2019
30	Muhammad Adeel Farooq	Enhanced microbial α -amylase production through submerged fermentation technology	2018-2019
31	Arooj Latif	Microbial Production of lipase by using waste substrates through submerged fermentation	2019-2020
32	Rida Ifitikhar	Enhanced production of protease by mutant <i>Bacillus subtilis</i> through fermentation technology	2019-2020
33	Hina Mushtaq	Advances in targeted drug delivery systems: The role of multifunctional nanocarrier systems in devising strategies for cancer therapy	2020-2021
34	Iqra Liaqat	Recent trends in nanocarrier-based targeted chemotherapy for hepatocellular carcinoma	2020-2021
35	Abdul Manan	Antiaging applications of Silk proteins conjugated AgNO ₃ nanoparticles	2020-2021
36	Shumaila Riaz	Magnetic nanoparticles as drug delivery for treatment of cancer	2021-2022
37	Shehzeen Noor	Role of probiotics for the treatment of cancer	2021-2022
38	Iqra Sardar	Effect of endocrine disrupting chemicals on breast Cancer	2021-2022
39	Ayesha Siddiqua Khan	Therapeutic applications of turmeric in diabetic wound healing	2022-2023
40	Esham Nadeem Butt	Therapeutic applications of sericin on burn wound healing	2022-2023
41	Saba	Zebrafish: An in vivo model for liver diseases	2022-2023

	Manzoor		
42	Aneeta Gulzar	Zebrafish: <i>In vivo</i> tool for drug discovery	2022-2023
43	Memona Ashfaq	Zebrafish model to study Parkinson's disease	2022-2023
44	Abdullah Javed	Alternative therapies for nervous system complications in Lyme disease	2023-2024
45	Maryam Zulifqar	Zebrafish as a model organism for cardiovascular disease	2023-2024
46	Mahnoor Arshad	Therapeutic role of T cells against cancer	2023-2024
47	Qudsia Noor	Pharmaceutical applications of three finger toxins of Elapidae snakes	2023-2024
48	Ayesha Afzaal	Immunostimulatory Mechanism of nanoparticles against disease management	2024-2025
49	Fizzah Fida	Evaluating the underlying pro inflammatory and anti-inflammatory mechanism of antibiotics	2024-2025
50	Saima Zahoor	Immunomodulatory effect of industrial effluents and their management strategies	2024-2025
51	Zunaira Waheed	Induced pluripotent stem cells for cardiac diseases	2024-2025

BS/M.Sc. theses in progress:			
Sr. No.	Student names	Title	Year
1	Aroma Anwar	Ginger and its bioactive compounds for treatment of cancer	2025-2026
2	Rafia Noor	Fatty liver disease: Etiology, pathophysiology, toxicity and therapeutic insights with emphasis on natural remedies	2025-2026
3	Muhammad Saqlain Hassan	Tissue specific progenitor stem cells applications in regenerative medicine and disease therapeutics	2025-2026
4	Khalid Ahmad	Organic and inorganic nanoparticles as anti-inflammatory agents: Mechanisms, applications, and future perspectives	2025-2026
5	Anam Shahzadi	Anti-cancer drugs: Pharmacokinetics, pharmacodynamics adverse effects	2025-2026

Supervisor of research students and teaching in The Netherlands

Supervision and training of 3 PhD students (Yahya Mushtaq, Farooq Ahmad, Muhammad Tayyab Akhtar)

Leiden University, The Netherlands

Practical assistant in Zoology and Developmental Biology courses, 2nd year bachelors' students, Leiden University, The Netherlands

Courses taught

Medical Parasitology, Developmental Biology, Applications of Biotechnology, Biochemistry-I, Biological Toxicology, Cancer Genetics, Techniques in Biotechnology, Clinical Teratology, Systemic Toxicology, Research Methodology, Cancer Biology, Biochemistry of Drug Action, Biological Techniques, Histology, Immunology, Parasitology, Animal Diversity (Invertebrates), Animal Form and Function-II, Clinical Hematology, Cellular Immunology, Animal Diversity (Vertebrates), Animal Form and Function-I, Medical Biotechnology, Biochemistry-II, Hematology-II

Professional skills

Molecular biology and microscopic techniques

Genomics work (DNA & RNA extraction), PCR and Quantitative RT PCR, *in situ* hybridization, confocal microscopy, confocal fluorescent microscopy, BrdU, TUNEL, Acridine staining techniques etc.

Microbiological techniques

Culture handling (bacterial culture), fermentation media preparation and optimization of fermenter condition, microscopic analysis of cells by Gram's staining and spore staining etc.

Statistical techniques

GraphPad Prism, SPSS software.

Administrative Jobs, co-curricular and extra-curricular activities

1. Coordinator, Department of Biotechnology (December 2012- July 2013)
2. Acting Chairman, Department of Zoology, (September-October 2015)
3. Chairman, Admission Committee (BS. Zoology),
4. Advisor, Zoological Society,
5. Coordinator Ph.D.
6. Secretary of Sub-Committee for Budgetary for Purchase of Apparatus and Chemicals
7. Member, Admission Committee (Ph.D.),
8. Secretary of 3rd and 4th International Conference on "Innovative Biological and Public Health Research, Department of Zoology, Government College University Lahore, Pakistan
9. Member, Admission Committee (M.Phil.),
10. Departmental Coordinator (BS. Zoology),
11. Date sheet Incharge (BS. Zoology),
12. Time table Incharge (BS. Zoology),
13. Member, Examination Committee (BS. Zoology),
14. Chairman, Student Advisory Committee (Zoology),
15. Member, Examination Committee (Ph.D.),
16. Member, Self-Assessment Reports, QEC (BS, M.Phil., Ph.D.)
17. Member, Examination Committee (M.Phil.),
18. Member, Examination Committee (M.Sc.),
19. Member, Oral Examination Committee (M.Sc.),
20. Member, Oral Examination Committee (BS.),
21. Member, Self Assessment Report Committee,
22. Member, Revised Syllabus Committee,
23. Member, Research Allotment Committee,

24. Member, Sports Committee,
25. Coordinator of Sports
26. Member, Honhar scholarships Punjab
27. Member, Purchase Committee (department and university level)
28. Member, Purchase Committee (Department of Sports)
29. Member, Seminar, Conference, Workshop and Lectures Committee,
30. Member, Departmental Scholarship Committee,
31. Other departmental responsibilities included:
 - a. Correspondence to ORIC,
 - b. Management of chemical store for laboratories,

Managerial, leadership and other skills

- Secretary
- Competent in communication, interpersonal and negotiation skills.
- Excellent knowledge of writing of all kinds of official letters.
- Ability to work as a team member.
- Ability to handle multiple tasks
- Administrative skills.
- Chairman Sports Committee 2003-2005, Department of Zoology, University of the Punjab, Pakistan. Lahore
- Member of Mess Committee 2003, Islamic Centre Hostel, University of the Punjab, Pakistan, Lahore.
- Chairman of Mess Committee 2003, Sir Syed International Hostel, University of the Punjab, Pakistan, Lahore.
- Vice Chairman of Sports Committee 2004, Sir Syed International Hostel, University of the Punjab, Pakistan, Lahore.
- Chairman of Blood Donor Committee 2003-2005, Sir Syed International Hostel, University of the Punjab, Pakistan, Lahore.

Computer skills

- Microsoft word, Microsoft Excel, Microsoft Power Point, Adobe Web Premium CS5, Outlook, Reference Manager. GraphPad Prism, SPSS. EndNote, Mendeley
- Windows
- Literature searching on internet

Hobbies

- Books reading
- Cricket playing

Medical status

Excellent physical and psychological health, observant, intelligent, results-oriented and less talkative

Sr. No.	Conferences/Workshops/Seminar/ Training/organized/attended	Date (s)	Role

1.	International webinar on “Technological Innovation for Food Security” Dr. Sultan Ahmad Botanical Society, Government College University Lahore, Pakistan	02 January 2025	Participation
2.	Seminar on “Shining a light on Down Syndrome: understanding and acceptance” Biological Society, Government College University Lahore, Pakistan	23 March 2024	Participation
3.	6 th International Conference" Advances in Biosciences (ICABS-2024), Government College University Lahore, Pakistan	18-19 April, 2024	Oral Presentation
4.	6 th International Conference" Advances in Biosciences (ICABS-2024), Government College University Lahore, Pakistan	18-19 April, 2024	Session chaired
5.	42 nd Pakistan Congress of Zoology (International), The University of Azad Jammu and Kashmir, Muzaffarabad	23-25 April, 2024	Session Co-Chaired
6.	Two-days Training Workshop on Data Analysis, Government College University Lahore, Pakistan	4-5 July, 2024	Participation
7.	3 rd International Conference" Zoological Emerging Scientific Trends (ZEST-2024), University of Education, Lahore, Pakistan	16-17 October, 2024	Oral Presentation
8.	7 th International Conference on Applied Zoology (ICAZ-2024), University of Sargodha, Sargodha, Pakistan	22-23 October, 2024	Oral Presentation
9.	Hands on Equipment Training and Data Analysis Workshop, Government College University Lahore, Pakistan	25 October to 06 December 2024	Organizer (Focal Person)
10.	1 st National Mycosymbiosis and Hands on Training and Workshop, Government College University Lahore, Pakistan	11 December 2024	Organizer (Focal Person)
11.	International Fisheries and Aquaculture Conference-2023 Institute of Zoology, University of the Punjab, Lahore	08-09 February 2023	Participant
12.	One day Seminar on Fish Biotechnology, Department of Zoology, Government College University Lahore	15 February 2023	Participant
13.	Three Days Training workshop on Sericulture: Skill Development and Income Generation opportunities for students, Department of Zoology, Government College University Lahore	2-4 May, 2023	Invited Speaker
14.	Two Days Training workshop on Statistical Data Analysis, Department of Zoology, Government College University Lahore	20-21 September, 2023	Participant
15.	5 th International Conference on “Innovative Biological and Public Health Research, Department of Zoology, Government College University Lahore, Pakistan	11-12 October, 2023	Member of organizer committee
16.	One day seminar on Fisheries and Aquaculture to celebrate World Fisheries day, Department of Zoology, Government College University Lahore, Pakistan	28 November 2023	Member of organizer committee
17.	1 st International Two-Day Virtual Conference of Zoology Zoological Emerging Scientific Trends (ZEST)	18-19 January 2022	Participant
18.	One day Seminar on Sericulture	24 January 2022	Focal Person
19.	One day Workshop on “A Successful Journey from Research to Publication”	17 February 2022	Participant
20.	Two-day Workshop on DNA isolation and PCR	16-17 June 2022	Participant

21.	Two-day Workshop on Gene Cloning	25-26 August 2022	Participant
22.	Two-day Workshop on Gene Expression and Protein Profiling	08-09 September, 2022	Participant
23.	One day seminar on Sericulture	22 September, 2022	Focal Person
24.	International Conference on Fisheries and Aquaculture	23-24 November 2022	Member of organizing committee
25.	International Conference "Current Innovative Trends in Applied Bio-Sciences (CITABS)	21-22 November, 2022	Session Chair
26.	One Day Divisional Workshop on Sericulture	29 November, 2022	Invited Speaker
27.	Training Session on Wolters Kluwer OVID Database	15 December, 2022	Participant
28.	4 th International Conference on "Innovative Biological and Public Health Research, Department of Zoology, Government College University Lahore, Pakistan	7-8 December 2021	Secretary
29.	One day seminar on Fisheries and Aquaculture to celebrate World Fisheries day, Department of Zoology, Government College University Lahore, Pakistan	26 November 2021	Member of organizer committee
30.	One day Training Workshop on Sericulture, Department of Zoology, Government College University Lahore, Pakistan	4 September 2021	Focal Person
31.	One day Seminar on Sericulture, Department of Zoology, Government College University Lahore, Pakistan	21 August 2021	Focal Person
32.	One day Training Workshop on Sericulture, Department of Zoology, Government College University Lahore, Pakistan	4 September 2021	Oral presenter
33.	One day Seminar on Sericulture, Department of Zoology, Government College University Lahore, Pakistan	21 August 2021	Oral presenter
34.	Online Conference on Recent Advances in Applied Biosciences, Department of Biology, Garrison University, Lahore, Pakistan	30-31 March 2021	Oral presenter
35.	Online Conference on Recent Advances in Applied Biosciences, Department of Biology, Garrison University, Lahore, Pakistan	30-31 March, 2021	Session Chair
36.	One Day Seminar on Anxiety and Depression, Biological Society, Government College University Lahore, Pakistan	5 November 2021	Participation
37.	World Fisheries Day, Government College University, Lahore, Pakistan, Pakistan Fisheries Society	23-11-2020	Member of organizing committee
38.	1 st International Symposium on Current Trends and Future Perspectives In Botanical Research,	10-11-2020	Participation
39.	Three days "Biological Training Course (International), Government College University, Lahore, Pakistan	20-22-08-2020	Member of organizing committee
40.	Industrial applications of silk sericin. Government College University, Lahore, Pakistan	18-07-2020	Invited Lecture
41.	One day Workshop on "Isolation of Silk Sericin and Its applications in Textile and Leather Industry" Government College University, Lahore, Pakistan	13-11-2019	Co-Principal organizer

42.	3 rd International Conference on “Innovative Biological and Public Health Research (IBPHR-19), Government College University, Lahore, Pakistan	13-14-11-2019	Deputy Secretary
43.	One day Seminar on “Applications of Silk Sericin Medical Science and Industry” Government College University, Lahore, Pakistan	20-09-2019	Member of organizing committee
44.	One day Seminar on “Applications of Silk Sericin Medical Science and Industry” Government College University, Lahore, Pakistan	20-09-2019	Presenter
45.	One day International Seminar on Fisheries and Aquaculture, Government College University, Lahore, Pakistan	01-02-2019	Member of organizing committee
46.	2 nd International Conference on “Plant Sciences (ICPS-2018)” Department of Botany, Government College University, Lahore, Pakistan	05-07-12-2018	Member of organizing committee
47.	World Fisheries Day, Government College University, Lahore, Pakistan, Pakistan Fisheries Society	27-11-2018	Participation
48.	One day Workshop on “Insecticide Resistance and Possible Solutions” Government College University, Lahore, Pakistan	10-10-2018	Participation
49.	One day Training Workshop on Citation Management by Using Mendeley Software, Pakistan Scientific & Technological Information Centre (PASTIC), Pakistan Librarians Organization (PLWO) and Government College University	15-05-2018	Participation
50.	3 rd International Conference on “Biological Sciences-2018” Biological Society of Pakistan,	09-11-05-2018	Member of organizing committee
51.	38 th Pakistan Congress of Zoology (International), University of the Punjab, Lahore, Zoological Society of Pakistan	27 February to 1 March 2018	Presenter
52.	2 nd International Conference on “Innovative Biological and Public Health Research (IBPHR-17), Government College University, Lahore, Pakistan	06-07-12-2017	Presenter
53.	One day symposium on “Applications of Nanotechnology in Biomedical Field”	30-03-2017	Secretary
54.	13 th National Honeybee Forming and management Training workshop, Department of Zoology, University of the Punjab, Lahore, Pakistan	13-17-03-2017	Training received
55.	37 th Pakistan Congress of Zoology (International), Government College University of Faisalabad, Zoological Society of Pakistan.	28 February to 2 March 2017	Presenter
56.	36 th Pakistan Congress of Zoology (International), University of Sindh, Jamshoro, Zoological Society of Pakistan.	16-18-02-2016	Presenter
57.	Two-days symposium and training “Bioinformatics as a Tool for Biological Studies” Department of Zoology, The University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan ,	27-28-05-2015	Secretary
58.	34 th Pakistan Congress of Zoology (International), Bahauddin Zakariya University Multan, Zoological Society of Pakistan.	25-27-02-2014	Presenter

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Sr. No.	Community Services
1.	External member of Relevance Assessment Committee Department of Zoology, University of Education Lahore, 2025.
2.	Animal and Life Sciences Quiz, for students of all Lahore Universities organized by Zoological Society, Government College University, Lahore, 12 th March, 2024
3.	Navigation International Searching for Securing Foreign Scholarships, organized by Zoological Society, Government College University, Lahore, 18 th May, 2024
4.	Delivered invited lecture on “A Journey of Science from Research to Publication” and guidance at Department of Zoology, University of Okara, Okara, Pakistan 3 rd October, 2024
5.	Member of Institutional Committee for the Scrutiny and Verification of Students applications under the “Chief Minister Honhaar Undergraduate Scholarship” Program;
6.	Departmental Focal Person for International Linkages (Academic Planning/External Links
7.	Organization of National Pet Show about animals’ rights for the public awareness by Zoological Society, Government College University Lahore, February, 23, 2023
8.	Organization of “Protection of Biodiversity Awareness Campaign” by Zoological Society, Government College University Lahore, March, 3, 2023
9.	Organization of National Painting/Poster Competition on the theme “Animal Cruelty” for the public awareness by Zoological Society, Government College University Lahore, April, 8, 2023
10.	Organization of webinar on “Animal Rights Awareness” by Zoological Society, Government College University Lahore, April, 10, 2023
11.	Organization of one day workshop on “A Journey of Science, from research to publication” for students of University of The University of Baltistan, Skardu, Gilgit-Baltistan by Zoological Society, Government College University Lahore, September, 1, 2023
12.	Organization of one day seminar on “Animal Rights and Love” by Zoological Society, Government College University Lahore, October 23, 2023
13.	Consultation on Public Private Partnership to Revitalize Sericulture Industry in Pakistan, Government of the Punjab, Forestry, Wildlife & Fisheries, Department, 14 th June, 2022.
14.	Technical Advisor for Community silkworm rearing practices and research studies pertaining to Non-Timber Forest Produce
15.	Training of sericulture executive staff in various disciplines of NTFPs with practical demonstration, 09-11 Novembers 2021

Courses attended and passed

1. National Honeybee forming and Management Training workshop, Department of Zoology, University of the Punjab, Lahore, **Pakistan**. 13-17 March, 2017.
2. Communication in Science, course for PhD students: Faculty of Science, Leiden University, **The Netherlands**, 07-09 to 12-10-2009.
3. Zebrafish Development and Disease, 10-14/11/2008 at Hubrecht Laboratory, Utrecht University, Utrecht, **The Netherlands**.
4. Course passed and license obtained in Animal Experimentation (Article 9 WOD), 22/09-10/10/2008, Erasmus University Medical Centre Rotterdam, **The Netherlands**.

Collaborations

- With Institute of Chemistry, Leiden University, **The Netherlands**.
- With Division of Pharmacognosy, Section Metabolomics, Institute of Biology, Leiden University, **The Netherlands**.
- With Laser Dynamics Laboratory Chemistry & Biochemistry, Georgia Institute of Technology. **USA**.
- Centre for Developmental and Biomedical Genetics/Biomedical Science, The University of Sheffield, **UK**
- With School of Material Sciences and Engineering, Nanyang Technological University, **Singapore**
- With Nuclear Medicine, Oncology and Radiotherapy Institute, Islamabad, **Pakistan**.
- With Department of Botany, The University of Punjab, Lahore, **Pakistan**.
- With Department of Zoology, The University of Punjab, Lahore, **Pakistan**.
- National Institute of Lasers and Optronics (NILOP), Pakistan Atomic Energy Commission, Islamabad, **Pakistan**.
- With Department of Zoology, University of Azad Jammu and Kashmir, Muzaffarabad, **Pakistan**
- University of Health Sciences, Lahore, **Pakistan**

Abstracts (accepted and published in scientific proceedings, conferences and seminars)

1. **Shaukat Ali***, Mubashir Ejaz, Kamran Khurshid Dar, Sundas Nasreen, Sobia Safeer, Muhammad Adeeb Khan and Saiqa Andleeb. In vivo study of extracts of *Artemisia vulgaris* against hepatocellular carcinoma induced by diethylnitrosoamine. 37th Pakistan Congress of Zoology (International), Govt. College University, Faisalabad, Pakistan. 28th February to 2nd March 2017.
2. **Shaukat Ali**, Jeffrey Aalders, Tom J. de Jong and Michael K. Richardson. Quantification and clustering of teratogenic effects in zebrafish larvae after exposure to toxicants. 36th Pakistan Congress of Zoology (International), University of Sindh, Jamshoro, Feburay, 16-18, 2016.
3. **Shaukat Ali**, Maryam Khalil, Nazish Sheik, Saiqa Andleeb, Tayyaba Waheed, Areesha Muneer, Komal Ashfaq Kiani and Rashid Mahmood. Assessment of Spring Water Microbiology and role of *Typha angustata* as Biosorbant. 4th Environmental Science Conference Water and Food Security in a Changing Environment, University of Peshawar, Bara, Gali, August 8-10, 2016.
4. Rashid mahmood, Tayyaba Waheed, Bilal Ahmad Khan and **Shaukat Ali**. *Typha angustata* as Biosorbent for the Removal of Brilliant Green (BG) from Aqueous Solution. 4th Environmental Science Conference Water and Food Security in a Changing Environment, University of Peshawar, Bara, Gali, August 8-10, 2016.
5. Saiqa Andleeb, Nazish Mazhar Ali, Bushra Mazhar, **Shaukat Ali**. Isolation of bacterial pathogens from processed and unprocessed honey and their prevention using medicinal plants. 4th Environmental Science Conference Water and Food Security in a Changing Environment, University of Peshawar, Bara, Gali, August 8-10, 2016.

6. Jeffrey Aalders, **Shaukat Ali** and Michael K. Richardson. Teratological effects of a panel of water-soluble compounds on zebrafish development. Al-Nafees Medical College & Hospital, Irsa University, Islamabad, Pakistan, September 04-2015.
7. Rozina Ghulam Mustafa, Irsa Shafique, Saiqa Andleeb, Farooq Latif and **Shaukat Ali***. Phytochemical screening and microbiological studies of *Rumex hastatus*. 35th Pakistan Congress of Zoology (International), March, 01-04, 2015.
8. Rabia Ilyas, **Shaukat Ali**, Farooq Latif and Saiqa Andleeb. Biological studies of various medicinal plants and intervention of Zoonotic diseases. 35th Pakistan Congress of Zoology (International), March, 01-04, 2015.
9. Amber Khatak, **Shaukat Ali**, Farooq Latif and Saiqa Andleeb. Optimization of amylase production from microbes associated with contaminated soil using solid state fermentation. 35th Pakistan Congress of Zoology (International), March, 01-04, 2015.
10. Irsa Shafique, Rozina Ghulam Mustafa, Saiqa Andleeb, Farooq Latif and **Shaukat Ali**. Screening of Biological activities of *Polygonum amplexicaulis* (Masloon) as antimicrobial and antioxidant agent. 35th Pakistan Congress of Zoology (International), March, 01-04, 2015.
11. Saiqa Andleeb, Maria Akram Minhas, Amina Begum, Muhammad Babar, Tahseen Ghous, **Shaukat Ali**. Antibacterial, antifungal and antioxidant activities of *Morus nigra* extracts. 34th Pakistan Congress of Zoology (International), February, 25-27, 2014.
12. Abdul Qayyum Nayyer, **Shaukat Ali***, Saeeda Hussain, Muhammad Babar, Sozana Kousar, Saiqa Andleeb. Biological studies and phytochemical screening of *Atropa accuminata* and *Atropa belladonna* extracts. 34th Pakistan Congress of Zoology (International), February, 25-27, 2014.
13. Sadia Nazir, Muhammad Babar, **Shaukat Ali**, Saiqa Andleeb. Identification and biological screening of wild mushrooms from Azad Jammu and Kashmir against mutated human pathogenic bacteria. 34th Pakistan Congress of Zoology (International), February, 25-27, 2014.
14. Saiqa Andleeb, Farhat Yasmeen, Tahira Rauf, Muhammad Babar, Tahseen Ghous, **Shaukat Ali**. Fungal and bacterial inhibition through Deodar (*Cedrus deodara*) and Timur (*Zanthoxylum armatum*) extracts and their phytochemical screening. 34th Pakistan Congress of Zoology (International), February, 25-27, 2014.
15. Aysha Aziz, **Shaukat Ali***, Saiqa Andleeb, Nazish Mazhar Ali, Abdul Rehman Niazi. Protease production from microbes isolated from various contaminated soil samples. 34th Pakistan Congress of Zoology (International), February, 25-27, 2014.
16. Muhammad Basharat, **Shaukat Ali***, Saiqa Andleeb, Nazish Mazhar Ali, Abdul Rehman Niazi. Lipase production through different fermentation conditions. 34th Pakistan Congress of Zoology (International), February, 25-27, 2014.
17. Muhammad Adeeb Khan, Khawaja Khurshid Anwar, Saiqa Andleeb, Abdul Qayyum Nayyer, **Shaukat Ali*** Genotoxin/non genotoxin-induced hepatocarcinogenesis and its prevention by some anticarcinogens. 34th Pakistan Congress of Zoology (International), February, 25-27, 2014.

18. Uzma Farooq, Muhammad Adeeb Khan, Khawaja Khurshid Anwar, Saiqa Andleeb, Abdul Qayyum Nayyar, **Shaukat Ali***. Preventive role of some anticarcinogens on the chemically induced carcinogenesis in mice. 34th Pakistan Congress of Zoology (International), February, 25-27, 2014.
19. Basharat Mehmood, Uzma Azeem Awan, Tahseen Ghous, **Shaukat Ali**, Saiqa Andleeb. Screening of *in vitro* biological activities of *Citrus sinensis* peel against Human bacterial pathogens. 33rd Pakistan Congress of Zoology (International), April, 2-4, 2013.
20. Mubashir Ejaz, Saiqa Andleeb, Uzma A Awan, Abdul Q. Nayyar, **Shaukat Ali**. Antimicrobial and antioxidant activities of extracts of *Eisenia foetida* against Human bacterial pathogens. 33rd Pakistan Congress of Zoology (International), April, 2-4, 2013.
21. Kamran Khurshid, Uzma Azeem Awan, Tahseen Ghous, **Shaukat Ali**, Saiqa Andleeb. Evaluation of antioxidant and antibacterial activity of *Citrus sinensis* peel against Fish bacterial pathogens 33rd Pakistan Congress of Zoology (International), April, 2-4, 2013.
22. Maimoona Tahir, Uzma Azeem Awan, **Shaukat Ali**, Saiqa Andleeb. *In vitro* screening of *Allium sativum* and *Zingiber officinale* against spoiled fish products bacterial pathogens. 33rd Pakistan Congress of Zoology (International), April, 2-4, 2013.
23. Nazia Riaz, Tahseen Ghous, **Shaukat Ali**, Saiqa Andleeb. Study of antioxidant, antibacterial and phytochemical activity of mint (*Mentha spicata*) and basil (*Ocimum basilicum*) against human pathogens. 33rd Pakistan Congress of Zoology (International), April, 2-4, 2013.
24. Uzma Azeem Awan, Sidra Anum, Tahseen Ghous, **Shaukat Ali**, Saiqa Andleeb. Inhibitory effect of garlic (*Allium sativum*), ginger (*Zingiber officinale*) extracts and honey on clinically important pathogenic bacteria. 33rd Pakistan Congress of Zoology (International), April, 2-4, 2013.

Book Chapters Published

1. Muhammad Islam, Muhammad Zubair Ali, Ghulam Mustafa, Muhammad Sajjad Ahmad, Olga Babich, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Marcelo Franco & Muhammad Irfan. Large scale algae cultivation, economic, environmental, legal aspects and policy framework.
2. Rimsha Ashraf, Tauqeer Hussain, Muhammad Summer and **Shaukat Ali***. (2025). Challenges in translation of nanoprecision medicine. In: Nanotheranostics and Precision Oncology. Academic Press, Elsevier. P.561-576. ISBN: 9780443346729. <https://doi.org/10.1016/B978-0-443-34671-2.00024-4>
3. Shehzeen Noor, **Shaukat Ali***, Muhammad Summer and Khushbukhat Khan. (2025). Decoding Metabolic Changes in Cancer Cells Resistant to Therapy. In: Interdisciplinary Cancer Research. Springer, Cham. P. 1–32. https://doi.org/10.1007/16833_2025_496.
4. Wajeeha Noreen, Saadia Fatima, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Marcelo Franco and Muhammad Irfan. (2025). Microbe Mineral Interaction and Environmental Pollution

Management. Editor(s): Verma, P. In Biotechnology for Environmental Sustainability. Interdisciplinary Biotechnological Advances. Springer, Singapore. P. 261–291 https://doi.org/10.1007/978-981-97-7221-6_10. ISSN. 978-981-97-7221-6.

5. Kainat, Mubrra Rehman, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Marcelo Franco and Muhammad Irfan. (2025). Microbial Diversity and Role of Microbes in Bioremediation of Abandoned Mining Areas, Industrial Sites, Horticulture, and Waste Products. Editor(s): Verma, P. In Biotechnology for Environmental Sustainability. Interdisciplinary Biotechnological Advances. Springer, Singapore. P. 443–468. https://doi.org/10.1007/978-981-97-7221-6_16.
6. Maira Rasheed, Alia Gul, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Marcelo Franco, Mudassir Ahmad Dar, Muhammad Irfan. (2025). Metabolic engineering and designing of the novel biomass species for enhanced production of biofuels. Editor(s): Daochen Zhu, Mudassir Ahmad Dar, Mohd. Shahnawaz. In Woodhead Series in Bioenergy, Biofuels and Sustainability. Elsevier Science Ltd. P. 365-379 <https://doi.org/10.1016/B978-0-443-21433-2.00013-X>. ISBN 9780443214332.
7. Misbah Ghazanfar, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Ibnu Maulana Hidayatullah, Marcelo Franco, Abdulrahman H. Alessa, Mudassir Ahmad Dar, Muhammad Irfan. (2025). Exploiting the gut bacteria for the production of biofuels from lignocellulose, Editor(s): Daochen Zhu, Mudassir Ahmad Dar, Mohd. Shahnawaz. In Woodhead Series in Bioenergy, Biofuels and Sustainability, Elsevier Science Ltd, P. 157-172. <https://doi.org/10.1016/B978-0-443-21433-2.00022-0>. ISBN 9780443214332.
8. Muhammad Islam, Ghulam Mustafa, Muhammad Sajjad, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Marcelo Franco & Muhammad Irfan. (2024). Nanozeolites Synthesis and Their Applications in Biofuel Production. In: Srivastava, M., Rai, A.K. (eds) Agricultural Biomass Nanocatalysts for Green Energy Applications. Clean Energy Production Technologies. Springer, Singapore. P. 173-204. https://doi.org/10.1007/978-981-97-1623-4_8. ISBN. 978-981-97-1623-4
9. Waqas Ahmad, Ahtasham Ahsan, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Ibnu Maulana Hidayatullah, Marcelo Franco & Muhammad Irfan. (2024). Nanobiocatalysts Used for the Production of Bioethanol and Biodiesel. In: Srivastava, M., Rai, A.K. (eds) Agricultural Biomass Nanocatalysts for Green Energy Applications. Clean Energy Production Technologies. Springer, Singapore. P. 237–270. https://doi.org/10.1007/978-981-97-1623-4_10. ISBN. 978-981-97-1623-4.
10. Bushra Iqbal, Misbah Ghazanfar, Hafiz Abdullah Shakir, **Shaukat Ali**, Muhammad Khan, Alia Gul, Marcelo Franco and Muhammad Irfan. (2024). Bioethanol Production from Paddy Straw Lignocellulosic Waste. In: Srivastava, N., Verma, B., Mishra, P.K. (eds). Paddy Straw Waste for Biorefinery Applications. Clean Energy Production Technologies. Springer, Singapore. https://doi.org/10.1007/978-981-99-8224-0_8. ISBN. 978-981-99-8224-0.
11. Aqsa Tahir, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Abdulrahman H. Alessa, Marcelo Franco and Muhammad Irfan. (2024). Utilization of Paddy Straw for the Production of Hydrolytic Enzymes. In: Srivastava, N., Verma, B., Mishra, P.K. (eds). Paddy Straw Waste for

Biorefinery Applications. Clean Energy Production Technologies. Springer, Singapore. https://doi.org/10.1007/978-981-99-8224-0_9. ISBN. 978-981-99-8224-0.

12. Farwa Akram, Bushra Saleem, Muhammad Irfan, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Shagufta Saeed, Tahir Mehmood and Marcelo Franco. (2023). Recent Trends for Production of Biofuels Using Algal Biomass. In: Srivastava, N., Mishra, P. (eds). Basic Research Advancement for Algal Biofuels Production. Clean Energy Production Technologies. Springer, Singapore. https://doi.org/10.1007/978-981-19-6810-5_2. ISBN. 978-981-19-6809-.
13. Mohsin Munawar, Irfana Liaqat and **Shaukat Ali**. 2022. MicroRNAs and Male Infertility. In: Tutar, L (ed) Recent Advances in Noncoding RNAs. IntechOpen Limited, London, UK. P. 10.5772/intechopen.106757
14. Javaria Bakhtawar, Muhammad Irfan, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Shagufta Saeed, Tahir Mehmood & Marcelo Franco. (2022). Trends in Biodiesel Production from Algae and Animal Fat Wastes: Challenges and Prospects. In: Srivastava, N., Malik, M.A. (eds) Food Waste to Green Fuel: Trend & Development. Clean Energy Production Technologies. Springer Nature Singapore Pte Ltd. P 255–278. https://doi.org/10.1007/978-981-19-0813-2_10
15. Javaria Bakhtawar, Hina Arshad, Sobia Fiaz, Muhammad Irfan, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Shagufta Saeed, Tahir Mehmood and Marcella Franco. (2021). Advancements in Biofuel Production. In: Srivastava, M., Srivastava, N., Singh, R. (eds) Bioenergy Research: Biomass Waste to Energy. Clean Energy Production Technologies. Springer Nature Singapore Pte Ltd. P 1-26. https://doi.org/10.1007/978-981-16-1862-8_1
16. Javaria Bakhtawar, Safoora Sadia, Muhammad Irfan, Hafiz Abdullah Shakir, Muhammad Khan, and **Shaukat Ali**. (2021). Effect of Bioprocess Parameters on Biofuel Production. In: Srivastava, N., Srivastava, M., Mishra, P., Gupta, V.K. (eds) Bioprocessing for Biofuel Production. Clean Energy Production Technologies. Springer Nature Singapore Pte Ltd. https://doi.org/10.1007/978-981-15-7070-4_5
17. Hira Arshad, Sobia Faiz, Muhammad Irfan, Hafiz Abdullah Shakir, Muhammad Khan, **Shaukat Ali**, Shagufta Saeed, Tahir Mehmood, and Marcelo Franco. (2021). Role of Operational Parameters to Enhance Biofuel Production. In: Srivastava, M., Srivastava, N., Singh, R. (eds) Bioenergy Research: Commercial Opportunities & Challenges. Clean Energy Production Technologies. Springer Nature Singapore Pte Ltd. https://doi.org/10.1007/978-981-16-1190-2_6
18. Safoora Sadia, Javaria Bakhtawar, Muhammad Irfan, Hafiz Abdullah Shakir, Muhammad Khan and **Shaukat Ali**. (2021). Role of Substrate to Improve Biomass to Biofuel Production Technologies. In: Srivastava, N., Srivastava, M., Mishra, P., Gupta, V.K. (eds) Bioprocessing for Biofuel Production. Clean Energy Production Technologies. Springer Nature Singapore Pte Ltd. https://doi.org/10.1007/978-981-15-7070-4_6
19. Hafiz Muhammad Tahir, Muhammad Summer and **Shaukat Ali**. (2020). Latest Treatment Strategies against Multi-Drug Resistant Enterobacteriaceae Infections In: Grégoire Roux, G. (ed) Recent Trends in Enterobacter Research. Nova, Science and Technology. <https://novapublishers.com/shop/recent-developments-in-enterobacter-research/>

Publications

(2025)

1. Hafsa Shahzad, **Shaukat Ali***, Muhammad A. Farooq, Muhammad Summer, Ali Hassan, Rida Sulayman, Lubna Kanwal and Uzma Azeem Awan. UV-spectrophotometric and spectroscopic observed *Vachellia nilotica* and *Nigella sativa* formulations regularized the histopathological and biochemical parameters during wound contraction. ***Microscopy Research and Technique***. 88(1): 4-16. (Impact factor 2.0). DOI: <https://doi.org/10.1002/jemt.24673> HEC HJRS: W. ISSN. 1097-0029.
2. Fatima Bashir Ahmad, Chaman Ara, **Shaukat Ali***, Madeeha Arshad, Mehwish Faheem, Rizwan Ullah, Asmatullah. Turmeric counteracts manganese-associated deteriorations in liver and kidney tissues: histomorphometric and biochemical insights. ***Journal of Molecular Histology***, 56(1):26. (Impact factor 2.9). DOI: <https://doi.org/10.1007/s10735-024-10314-1>. ISSN. 1567-2387. HEC HJRS: W.
3. Hunaiza Tahir, Farzana Rashid, **Shaukat Ali***, Muhammad Summer, Misha Afzal. Synthesis, characterization, phytochemistry, and therapeutic potential of *Azadirachta indica* conjugated silver nanoparticles: A comprehensive study on antidiabetic and antioxidant properties. ***Biological Trace Element Research***, 203: 2170–2185. (Impact factor 3.4). DOI: <https://doi.org/10.1007/s12011-024-04293-3>. HEC HJRS: W. ISSN. 1559-0720
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