

BRIEF CITATION OF DR. SANTOSH KUMAR

Dr. Kumar earned his Ph.D. in 2017 from the University of Sindh, Jamshoro, with a dissertation titled **“Analysis of the Pathogenic Applications of *Aspergillus* Species against Acridid Grasshoppers of Agricultural Importance in Sindh.”** He joined the Department of Zoology at Cholistan University of Veterinary and Animal Sciences (CUVAS), Bahawalpur, as an Assistant Professor on November 19, 2018. His expertise spans Biodiversity, Molecular Biology, Conservation, Systematics, Ecology, Chemical & Biological Control, and the Food Preferences of insects. To date, Dr. Kumar has described numerous new species and reported several new records of Orthoptera and Coleoptera. His impactful research includes **63 papers published** in national and international journals, reflecting a strong scientific presence with an impressive impact factor. His scholarly contributions are highlighted by **Google Scholar, Citations (361)**, an **h-index of 11**, and an **i10-index of 12**, demonstrating the extensive reach and influence of his work.

Dr. Kumar has mentored a significant number of students, successfully produced **8 Ph.D. and 36 M.Phil. Scholars**. Notably, he holds the distinction of being the first researcher to introduce *Entomopathogenic fungi* as a biological control agent for managing Orthopteran pests. Dr. Kumar has also successfully **completed a project**, sponsored by **National Geographic**, while a Second, where he serves as **PI (IPFP) & co-PI (NRPU)** is sponsored by **HEC (Higher Education Commission, Islamabad)**. Besides this, Dr. Kumar has received notable recognition for his exceptional contributions, earning prestigious awards that highlight his dedication and impact. He was honored at the **Scientific Achievement Award and Appreciation Certificate 2023 (Field of Academic, Research and Innovation)** from **Vice Chancellor CUVAS**. The **National Youth Award 2021 in Agriculture** further emphasizes his significant contributions in that domain.

Beyond his notable research contributions, Dr. Kumar has made a significant impact on academic infrastructure by establishing the first **Cholistan Entomological Museum (CEM)** at Cholistan University of Veterinary and Animal Sciences, Bahawalpur. This pioneering initiative serves as a testament to his commitment to advancing education and promoting hands-on learning experiences. The establishment of this museum not only underscores Dr. Kumar's dedication to the field of entomology but also enhances knowledge about insects available in Cholistan. It provides a unique opportunity for students to engage with the subject matter in a practical and visually stimulating manner, fostering a deeper understanding of insect biology, classification, and ecological significance. The entomology museum, under Dr. Kumar's guidance, has become a focal point for exploring the scientific curiosity of desert insect fauna. Furthermore, his global impact is evident through international collaborations with prestigious institutions such as the Department of Plant Protection, Faculty of Agriculture, Gaziosmanpasa University, Tokat, Turkey, and the Center for National History, University of Hamburg, Germany. Recently, his outstanding achievements led to his nomination as a member of Pak BOL by IBOL (International Barcode of Life), University of Guelph, Guelph, Ontario, Canada, highlighting the international recognition of his work. He was also awarded an **IUCN research grant** to document and enlist *Schizodactylus* from desert regions, taxon declared **globally endangered**. Furthermore, he has recently submitted a **Pakistan–China collaborative research project** to the **Pakistan Science Foundation (PSF) Call 2025**, entitled *“Research and Development of New Technologies for Sustainable Desert Locust Management.”*

CURRICULUM VITAE OF DR. SANTOSH KUMAR

CONTACT INFORMATION

Assistant Professor,
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Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Punjab-Pakistan.
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EDUCATION

PhD Zoology	2014-2017
Department of Zoology, University of Sindh, Jamshoro, Sindh-Pakistan "Analysis of the pathogenic applications of <i>Aspergillus</i> species against Acridid Grasshoppers of agriculture importance in Sindh" Advisor: Prof. Dr. Riffat Sultana	
MS Zoology	2012-2013
Department of Zoology, University of Sindh, Jamshoro, Sindh-Pakistan "Studies on the pathogenic applications of <i>Aspergillus</i> species against agricultural important Grasshoppers from District Badin Sindh" Advisor: Prof. Dr. Riffat Sultana	
BS Zoology	2006-2009
Department of Zoology, Shah Abdul Latif University, Khairpur, Sindh-Pakistan	

PROFESSIONAL EXPERIENCE

Assistant Professor (BPS-19)	2018 - Present
Assistant Professor 19 th November 2018 – Present at Department of Zoology, Cholistan University of Veterinary and Animal Sciences, Bahawalpur, Punjab-Pakistan. Job Responsibilities: Teaching / Research supervision BS, M.Phil. & Ph.D., Incharge, Cholistan Entomological Museum (CEM), Assistant to Editor University of Sindh Journal of Animal Sciences (USJAS)	
Assistant Professor (IPFP)	2018
Assistant Professor 8 th June 2018 – 16 th November 2018 at Department of Plant Protection, Sindh Agriculture University, Tandojam, Sindh-Pakistan. Job Responsibilities: Teaching / Research supervision B.Sc., M.Sc., Assistant to Editor University of Sindh Journal of Animal Sciences (USJAS)	
Assistant Professor (Contract)	2018
Assistant Professor 1 st January 2018 – 7 th June 2018 at Department of Plant Protection, Sindh Agriculture University, Tandojam, Sindh-Pakistan. Job Responsibilities: Teaching / Research supervision B.Sc., M.Sc., Managing Editor University of Sindh Journal of Animal Sciences (USJAS)	

ONGOING RESEARCH

1. Biodiversity of Orthopteran/Coleopteran species in Pakistan
2. Bio-pesticides trails against locust and grasshoppers in Pakistan
3. Systematic, Biology and Ecology of various Orthopteran/Coleopteran species
4. Introduction of eco-friendly agents against pest

BOOKS & CHAPTERS

1. Sultana R & Kumar S. (2026). "Little Monsters Splay-footed crickets of Pakistan" Grasshoppers, Locusts and Crickets of the World. Pp. 135-136
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DISCOVERY TO SCIENCES

New Species

1. <i>Omorgus (Afromorgus) riffati</i> (Waseem, Kumar , Sultana) (Pakistan Journal of Zoology-2025)
2. <i>Modicogryllus sindhensis</i> (Sultana, Sanam, Kumar , Shamsudeen, Soomro) (Zookeys-2021)

New Records

1. <i>Pimelia barmerensis</i> and <i>Blaps nathani</i> (Kumar , Waseem, Sultana, Baboo, Arshad) (The Journal of Basic and Applied Zoology-2026)
2. <i>Onitis philemon</i> , <i>Digitonthophagus uks</i> and <i>Digitonthophagus catta</i> (Waseem, Kumar , Sultana, Baboo, Manzoor) (Journal of Animal and Plant Sciences-2026)

RESEARCH PROJECT AWARDED

"Application of <i>Beauveria bassiana</i> for control of pest species of Grasshopper" (PI) [Completed successfully]	Higher Education Commission 21-2175/SRGP/R&D/HEC/2018
"Exploring the Diversity of Desert in Pakistan" (Co-PI) [Completed successfully]	National Geographic Society NGS-72340 R-20
"Prioritizing potential applicability of <i>Scelio</i> to combat the Desert Locust problem" (Co-PI) [Completed successfully]	Higher Education Commission 14787/NRPU/R&D/HEC/2022
"Research and Development of New Technologies for Sustainable Desert Locust Management (Co-PI) [Submitted]"	PSF (China-Pakistan Joint Research Program 2025)

HONOURS AND AWARDES

S. No.	Title	Year	Organization
1.	Scientific Achievement Award and Appreciation Certificate (Field of Academic, Research and Innovation) (By Vice Chancellor CUVAS)	2023	CUVAS, Bahawalpur
2.	National Youth Award 2021 (Category: Agriculture)	2021	MINHAJ Youth League & EduCasa International

RESEARCH SUPERVISION

PH.D. STUDENTS SUPERVISED (COMPLETED DEGREES)

S. No.	Name of Student	Year	Research Title
1.	Muhammad Nawab	2023	Effects of climate change on Orthoptera fauna along with control strategies over <i>Schistocerca gregaria</i> Forsk. (Orthoptera) in Punjab Pakistan
2.	Munir Ahmed Prince	2023	Biodiversity and Molecular Systematic of Caelifera (Orthoptera) of Punjab Pakistan
3.	Abdul Aziz Babar	2025	Diversity of Acridomorpha in different vegetation of the Mehrano Forest from Khairpur Mirs Sindh
4.	Naila Bhangar	2025	Diversity, Distribution Seasonality and edge effects of Gryllidae in Sukkur Division and its Agroecosystem
5.	Mehwish Bibi	2025	Value addition of Honey as therapeutic nutraceutical for colitis alleviation

Curriculum Vitae of Dr. Santosh Kumar

6.	Muzamil Ali	2025	Biosystematics and Molecular study of <i>Hieroglyphus</i> (Hemiaceridae: Orthoptera) in Sindh
7.	Muhammad Irfan	2025	Systematic and DNA Barcode of Conocephalinae (Tettigoniidae: Tettigoniodea: Ensifera) from Bahawalpur Division
8.	Muhammad Waseem	2026	Systematic and Molecular Biodiversity of selected beetles (Coleoptera) from Cholistan Desert

PH.D. STUDENTS (WORK IN PROGRESS)

S. No.	Name of Student	Year	Research Title
1.	M. Zain-ul-Abedin	2022	A Comparative Analysis of Hemiaceridae (Orthoptera) in the Sindh Entomological Museum and Current Surveys in Khyber Pakhtunkhwa
2.	Iqra Saif	2022	Natural mosquito repellent a green alternative to synthetic
3.	Muhammad Faizan	2022	Cervidae fauna, its origin, diversification on the basis of fossil records from Pakistan
4.	Sana Iqbal	2024	Diversity and Ecology of Aquatic Insects in Irrigated Canals of Panjnad Headworks, Punjab
5.	Shafique Hyder	2024	Evolutionary and Morphometric analysis of Acrididae (Acridodea: Orthoptera) of Sindh

M.PHIL/MS STUDENTS SUPERVISED (COMPLETED DEGREES)

S. No.	Name of Student	Year	Research Title
1.	Muhammad Muqeem	2020	Investigation on pathogenicity of <i>Beaveria bassiana</i> against <i>Poecilocus pictus</i> (Pyrogomorphidae: Orthoptera) from District Kashmore
2.	Amna Siddiq	2022	Morphometric analysis of agricultural pest Grasshoppers in Muzaffargarh District
3.	Asif Iqbal	2022	Food selection in <i>Euconocephalus spp.</i> (Tettigoniodea: Ensifera) in Cholistan Desert
4.	Laila Zahra	2022	Study on Oviposition behavior of Acrididae (Caelifera: Orthoptera)
5.	M. Zain-ul-Abedin	2022	Exploration of Coleoptera Fauna from Cholistan Desert Pakistan
6.	Khalil Ahmed	2022	Diet Acceptance and Rejection of Phaneropterinae (Ensifera) under laboratory conditions
7.	Zahid Iqbal	2022	Infestation of Macroparasites (<i>Eutrombidium locustarum</i>) in Grasshoppers population from Rice field
8.	Syed M. Faraz Shah	2022	Prevalence and Characterization of Tick in Goats from Dera Ghazi Khan
9.	Afshan Muneer	2022	Prevalence and Antibigram of enteric <i>Escherichia coli</i> of Houbara bustard
10.	Maheen Murtaza	2022	Prevalence and Antibigram of enteric bacteria <i>Staphylococcus aureus</i> of Houbara bustard
11.	Saira Maqbool	2022	Prevalence and Antibigram of enteric <i>Salmonella</i> in Houbara bustard of District Bahawalpur, Punjab, Pakistan
12.	Shamshad Ali Mahar	2023	Application of <i>Metarhizium acridum</i> against Desert Locust (<i>Schistocerca gregaria</i>) in Thar Desert Sindh

Curriculum Vitae of Dr. Santosh Kumar

13.	Faqiha Syed	2023	Incidence of different Pest on the Cotton Crop from Dear Ghazi Khan
14.	Shazia Batool	2023	Diversity of Short Horned Grasshopper (Orthoptera: Acrididae) from Muzafargarh
15.	Amna	2023	Diversity of bush crickets (Orthoptera: Tettigonioidea) from District Multan
16.	Sadia Tariq	2023	Efficacy of <i>Beauveria bassiana</i> against adult grasshopper's pest
17.	Amna Hamid	2023	Toxicity of <i>Beauveria bassiana</i> against nymphal stages of grasshopper's pest
18.	Ayesha Iqbal	2023	Systematic study of Earwigs (Dermaptera) from Sahiwal District
19.	Romana Arshad	2024	Distribution of Family Tenebrionidae (Coleoptera) from Cholistan Desert
20.	Rabia Khalil	2024	Life history statics of <i>Pokilocerus pictus</i> (Orthoptera Pygomorphidae) in Cholistan Desert
21.	Shamsa Kanwal	2024	A systematic study on Mole Crickets (Gryllotalpidae: Ensifera) from Bahawalpur
22.	Iqra Ajmal	2024	Seasonal variation in Orthopteran Diversity a case study in Rainy Season in Cholistan
23.	Abu Bakar	2024	Efficacy of insecticides on Thrips and Whitefly in Cotton varieties across Bahawalpur District
24.	Muhammad Younus	2024	Identification of DNA origins of Donkey and Pork species in Cow minced meats by Rapid Multiplex PCR
25.	Eisha Tir Razia	2025	Study on Morphological Differences in Earwigs (Dermaptera: Orthoptera) of Bahawalpur
26.	Barrera Khan	2025	Observations on Morphological Characteristics in Gryllotalpa (Orthoptera: Gryllotalpidae) from Cholistan Desert
27.	Zara Chouhdary	2025	Comparative Study on the Occurrence of some Selective Caeliferans in Cholistan Desert
28.	Laiba Kainat	2025	Study on the Life Cycle of Earwigs (Dermaptera: Orthoptera) under Laboratory Conditions
29.	Sonia Hameed	2025	Study on Cryptic Species of Gryllidae (Orthoptera) from Lodhran
30.	Samreen Zubair	2025	Observations on Seasonality and Wing Dimorphism in Mole Cricket Gryllotalpa (Orthoptera: Gryllotalpidae)
31.	Nimrah Sultan	2025	Systematic Study on Field Crickets (Orthoptera: Gryllidae) of the Cholistan Desert
32.	Muhammad Zeshan	2025	Study on the Life Cycle of the Akk Grasshopper <i>Poekilocerus pictus</i> (Orthoptera: Pyrgomorphidae) from Cholistan Desert
33.	Muhammad Tanveer	2026	Taxonomic study of Praying mantis (Mantodea: Dictyoptera) from the Cholistan Desert
34.	Malaika Zahid	2026	Survey of Aquatic Insect Fauna and Their Role in Enhancing Biodiversity at Head Panjnad
35.	Rana Muhammad Asif	2026	Incidence of Praying mantis (Mantodea: Dictyoptera) in various agricultural fields of the Cholistan Desert

36.	Zainab Alam	2026	Study on the feeding preference of <i>Poekilocerus pictus</i> (Orthoptera: Pyrgomorphidae) under laboratory conditions
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M.PHIL/MS STUDENTS (WORK IN PROGRESS)

S. No.	Name of Student	Year	Research Title
1.	Muhammad Muaaz	2026	
2.	Nauman Ali	2026	

BS STUDENTS SUPERVISED (COMPLETED DEGREES)

S. No.	Name of Student	Year	Project Research Title
1.	Muhammad Younus	2021	Survey on the Grasshopper's Fauna of Cholistan Desert
2.	Bhanwroo Ram	2022	Comparative study of Short Horned Grasshopper from Tehsil Yazman
3.	Unzila Sehar	2022	Preliminary studies on the occurrence of Orthoptera from District Bahawalpur
4.	Hafiz M. Shahzad	2023	Systematic study of Praying mantis from District Hasilpur
5.	Dure-Adan-Fatima	2023	Studies of short horned grasshopper (Caelefera: Orthoptera)
6.	Muhammad Rizwan	2023	Grasshoppers of Lodhran and Adjoining areas
7.	M. Ahmed Rameez	2024	Biodiversity of Oedipodinae (Acrididae: Orthoptera) from Bahawalpur

PUBLICATIONS

Web of Science Journals

1. FAIZAN, M., GHAFAR, A., SAMIULLAH, K., KUMAR, S. AND ABBAS, T. (2026). Artiodactyla fossil remains from a new locality, Drebh, Sulaiman Range, South Punjab, Pakistan, and their relation with other continental deposits. <i>Historical Biology</i> , https://doi.org/10.1080/08912963.2026.2715636 (IF-1.40)
2. KUMAR, S. , WASEEM, M., SULTANA, R. AND ARSHAD, R. (2026). Integrative taxonomy and first records of <i>Pimelia barmerensis</i> and <i>Blaps nathani</i> (Coleoptera, Tenebrionidae) from the Cholistan Desert of Pakistan, with phylogenetic notes. <i>The Journal of Basic and Applied Zoology</i> , 87, 35 (2026). https://doi.org/10.1186/s41936-026-00566-6 (IF-1.50)
3. WASEEM M., KUMAR S. , SULTANA R., BABOO I. AND MANZOOR Z. (2026). Three new records of Scarabaeinae (Coleoptera: Scarabaeidae) from South Punjab's arid zone, Pakistan. <i>Journal of Animal and Plant Sciences</i> , 36(2): 438-448 https://doi.org/10.36899/JAPS.2026.2.0036 (IF-0.60)
4. MAQBOOL, S., MURTAZA, M., KUMAR, S. , AQIB, A.I., SHAH, S.Q.A., MUNEER, A., SOHAIL, M.L., WASIM, A., FOUAD, D., ATAYA, F.S. AND NABEEL, M.A. (2025). Prevalence, Potential Risks, and Drug Resistance in <i>Staphylococcus aureus</i> and <i>Salmonella sp.</i> infesting Captive Houbara Bustard. <i>Pakistan Journal of Zoology</i> , 57(3): 1215-1223, 2025. https://dx.doi.org/10.17582/journal.pjz/20230613120631 (IF-0.687)
5. WASEEM, M., KUMAR, S. AND SULTANA. R. (2025). A new species of the sub-genus <i>Afromorgus</i> (Trogidae: Scarabaeoidea) from Cholistan Desert, Pakistan. <i>Pakistan Journal of Zoology</i> , 57(1): 299-305, 2025. DOI: https://dx.doi.org/10.17582/journal.pjz/20230330060326 (IF-0.687)

6. JAKHRANI, M.A., SULTANA, R., **KUMAR, S.**, BALOCH, N. (2025). Recent incidence of *Hieroglyphus oryzivours* (Hemiacridiane: Acrididae: Orthoptera) in various Districts of upper Sindh Pakistan. *Journal of Wildlife and Biodiversity*, 9(1): 220-233. <https://doi.org/10.5281/zenodo.14634923> (IF-0.70)
7. BIBI, M., BABOO, I., MAJEED, H., **KUMAR, S.**, & LACKNER, M. (2024). Molecular Docking of Key Compounds from Acacia Honey and *Nigella sativa* Oil and Experimental Validation for Colitis Treatment in Albino Mice. *Biology*, 13(12): 1035. DOI: <https://doi.org/10.3390/biology13121035> (IF-3.60)
8. BHANGER, N., SULTANA R., BALOCH, N. AND **KUMAR, S.** (2024). Taxonomic insights and geographic distribution of Gryllidae (Gryllinae: Orthoptera) in Sindh Pakistan. *Journal of Wildlife and Biodiversity*, 8(2): 1-15. DOI: <https://doi.org/10.5281/zenodo.10499061> (IF-0.70)
9. SULTANA. R., LAL, M., SOOMRO, S., **KUMAR, S.** AND SAMEJO, A.A. (2024). Biodiversity and Systematics Status of Band Winged Grasshoppers, Oedipodinae Walker, 1871 (Orthoptera Acrididae) from Thar Desert, Pakistan. *Pakistan Journal of Zoology*, 56(1): 307-321, 2024. DOI: <https://dx.doi.org/10.17582/journal.pjz/20220301100328> (IF-0.831)
10. MUNEEER, A., **KUMAR, S.**, AQIB, A.I., KHAN, S.R., SHAH, S.Q.A., ZAHEER, I., REHMAN, T., ABBAS, A., HUSSAIN, K., REHMAN, A., NADEEM, M., MURTAZA, M., AND WASEEM, A. (2022). Evaluation of Sodium Alginate Stabilized Nanoparticles and Antibiotics against Drug Resistant Escherichia coli Isolated from Gut of Houbara Bustard Bird. *Oxidative Medicine and Cellular Longevity*. Volume 2022, Article ID 7627759, 10 pages DOI: <https://doi.org/10.1155/2022/7627759> (IF-7.310)
11. ASHFAQ, M., KHAN, A.M., RASOOL, A., AKHTAR, S., NAZIR, N., AHMED, N., MANZOOR, F., SONES, J., PEREZ, K., SARWAR, G., KHAN, A.A., AKHTER, M., SAEED, S., SULTANA. R., TAHIR, H.M., RAFI, MA., IFTIKHAR, R., NASEEM, M.T., MASOOD, M., TUFAIL, M., **KUMAR, S.**, AFZAL, S., MCKEOWN, J., SAMEJO, A.A., KHALIQ, I., D'SOUZA, M.L., MANSOOR, S. AND HEBERT, P.D.N. (2022). A DNA barcode survey of insect biodiversity in Pakistan. *Peer J*, 10: e13267 DOI: <https://doi.org/10.7717/peerj.13267> (IF-3.061)
12. **KUMAR, S.**, SULTANA. R. AND HUSEMANN, M. (2022). Extended List of Orthoptera Fauna of Cholistan Desert (Punjab, Pakistan). *Pakistan Journal of Zoology*, 54(4): 1947-1949. DOI: <https://dx.doi.org/10.17582/journal.pjz/20200516150559> (IF-0.831)
13. NAZ, H., ABDULLAH, S., AHMED, T., ABBAS, K., IJAZ, M.U., KUMAR, S. AND HASSAN, M.A. (2022). Toxicity, Oxidative Stress and Geno-Toxicity: Lethal and Sub-Lethal effects of three different insecticides mixtures on *Cirrhina mrigala*. *Journal of Animal and Plant Sciences*, 32(1): 256-265. DOI: <https://doi.org/10.36899/JAPS.2022.1.0421> (IF-0.60)
14. SULTANA. R., SURIYA, S., **KUMAR, S.**, SHAMSUDEEN, S. AND SOOMRO, F. (2021). A review of Gryllidae (Grylloidea) with the description of one new species and four new records from the Sindh Pakistan. *Zoo Keys*. 1078: 1-33. DOI: [10.3897/zookeys.1078.69850](https://doi.org/10.3897/zookeys.1078.69850) (IF-1.546)
15. SULTANA. R., **KUMAR, S.**, SAMEJO, A.A., SOOMRO, S., AND LECOQ, M. (2021). The 2019– 2020 upsurge of the desert locust and its impact in Pakistan. *Journal of Orthoptera Research*, 30(2): 145– 154. DOI: <https://doi.org/10.3897/jor.30.65971> (IF-1.030)
16. SULTANA. R., SOOMRO, N., **KUMAR, S.**, SAMEJO, A.A. AND SOOMRO, S. (2021). Comparison of Mating Behavior of Four species of Oxyinae (Acrididae: Orthoptera). *Pakistan Journal of Zoology*, 53(3): 1181-1184. DOI: <https://dx.doi.org/10.17582/journal.pjz/20191001031055> (IF-0.790)
17. SAMEJO, A.A, SULTANA. R., **KUMAR S.**, AND SAMIULLAH, S. (2021). Could Entomophagy Be an Effective Mitigation Measure in Desert Locust Management? *Agronomy*, 11, 455. DOI: <https://doi.org/10.3390/agronomy11030455> (IF- 2.603)
18. SULTANA. R., SOOMRO, N., **KUMAR, S.**, SAMEJO, A.A. AND SOOMRO, S. (2020). Comparative Study of Egg-pod Morphology in Two Genera of Oxyinae (Acrididae: Orthoptera). *Pakistan Journal of Zoology*, 52(4): 1327-1332. <https://dx.doi.org/10.17582/journal.pjz/20190523070550> (IF-0.790).

- 19. PANHWAR, W.A SULTANA. R., WAGAN, M.S., KHATARI, I. AND KUMAR, S. (2014).** Systematic Study on the Various Tribes of Phaneropterinae (Tettigoniodea: Orthoptera) Occurring in Pakistan. *Pakistan Journal of Zoology*, 46(1): 203-213. **(IF-0.790)**

HEC Recognized Journals

- 1. KUMAR, S., SULTANA. R. AND SOOMRO. N. (2026).** Laboratory Evaluation of Entomopathogenic *Aspergillus* species against Acridid Grasshoppers in Pakistan. *Egyptian Academic Journal of Biological Sciences. (A. Entomology)*, 19(2): 21-31. [10.21608/EAJBSA.2026](https://doi.org/10.21608/EAJBSA.2026)
- 2. NAZ, A., SULTANA R. AND KUMAR S. (2025).** Distribution and Systematics of Leafhoppers (Hemiptera: Cicadellidae) from Tharparkar and Adjacent Areas of Sindh, Pakistan. *Plant Protection*, 09 (4) 2025. 915-928. <https://doi.org/10.33804/pp.009.04.5872>
- 3. SULTANA, R., KUMAR, S., GUO, J., BHANGER, N., SANAM, S. AND MANGI, A.H. (2025).** Could Orthoptera unlock Nutritional Potential for Humans and Livestock? *South Asian Journal of Zoology*, 43(1), 47-57. <https://dx.doi.org/10.17582/sajz/2025/43.1.47.57>
- 4. KUMAR, S. AND SULTANA. R. (2025).** Scanning electron microscopy analysis and Bio-control potential of *Entomopathogenic fungi* against grasshoppers. *South Asian Journal of Zoology*, 43(1), 37-45. <https://dx.doi.org/10.17582/2025/sajz/43.1.37.45>
- 5. WASEEM M., KUMAR S, HAMEED S., HASNAIN M., ARSHAD R., IQBAL S. AND FAROOQ U. (2025).** Performance Metrics of Low-Code AI for Insect Species Classification. *Acta Universitatis Sapientiae, Informatica*, 17(11): 1-18. <https://doi.org/10.1007/s44427-025-00011-6>
- 6. WASEEM M., KUMAR S, AJMAL I., SHAHEEN Q., HAYAT S. AND ARSHAD, R. (2025).** Survival in the Sands: Adaptations, Ecology, and Conservation of Desert Beetles. *Egyptian Academic Journal of Biological Sciences (A. Entomology)*, 18(2): 121-131. [10.21608/EAJBSA.2025.431479](https://doi.org/10.21608/EAJBSA.2025.431479)
- 7. NAZ, A., SULTANA R., KATRI, I. AND KUMAR S. (2025).** Occurrence and Relative abundance of Leafhoppers (Cicadellidae) across selected localities of Tharparkar, Sindh. *Voyage Journal of Scientific Research and Exploration (VJSRE)*, 2(1): 163-176. <https://doi.org/10.58622/p2qd4b77>
- 8. IRFAN M., KUMAR S., SULTANA R., MAHMOOD M.T. AND NIAZ K. (2025).** COI-Based DNA Barcoding and Genetic Diversity Analysis of *Euconocephalus pallidus* (Tettigoniodea: Orthoptera) from Bahawalpur, Pakistan. *Plant Protection*, 09 (03) 2025. 577-585. <https://doi.org/10.33804/pp.009.03.5727>
- 9. IRFAN M., KUMAR S., SULTANA R., MAHMOOD M.T. AND NIAZ K. (2025).** Taxonomic and Ecological Observations on Katydid (Conocephaline: Tettigoniodea) in the Arid Zones of Bahawalpur Division, Punjab, Pakistan. *Plant Protection*, 09 (02) 2025. 403-415. <https://doi.org/10.33804/pp.009.02.5647>
- 10. WASEEM M., KUMAR S., SULTANA R., BABOO I. AND MANZOOR Z. (2025).** Exploration of the Coleoptera Fauna in the Cholistan Desert, Punjab, Pakistan. *Plant Protection*, 09 (02) 2025. 261-272. <https://doi.org/10.33804/pp.009.02.5568>
- 11. MEMON S.P., SULTANA R., BUGHIO B.A. AND KUMAR S. (2024).** Systematic Status and Ecological Account of *Poeciloceris pictus* (Pyrgomorphidae: Orthoptera) of Pakistan. *Journal of Zoology and Systematics*, 2(2): 88-5. <https://doi.org/10.56946/jzs.v2i2.523>
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PRESENTATIONS CONTRIBITAED AS PRIMARY AUTHOR

International Oral Presentation

1. **KUMAR, S.,** Zain-ul-Abedin, M. AND SULTANA. R. Comparative study on the Diversity of Hemiaceridinae (Orthoptera: Acrididae) from Sindh and Khyber Pakhtunkhwa, Pakistan. *15th International Congress of Orthopterology (ICO2026) at San Martín de Los Andes, Neuquén Province, Argentina*, March 8th-12th, **2026**.
2. **KUMAR, S.,** AND SULTANA. R. "The Potential of *Aspergillus*: A Biological Control for the Management of Grasshoppers (Orthoptera: Acrididae)". *International Conference on New Technology and Concepts for Sustainable Management of Locusts and Grasshoppers, Jinan, Shandong Province, China*, 2nd-7th June **2024**.
3. **KUMAR, S.,** AND SULTANA. R. "Rare sighting of *Poeciloceris pictus* in the arid Cholistan Desert of Punjab, Pakistan". *14th International Congress of Orthopterology (ICO 2023) at Merida, Yucatan, Mexico*. 16th-19th October **2023**.
4. **KUMAR, S.,** AND SULTANA. R. "Use of Entomopathogenic Fungi for control of rice pests in Sindh Pakistan". *ESA, ESC and ESBC Joint Annual Meeting (Entomology 2018), Vancouver, Canada*. 11th-14th November **2018**. Pp. Pp.116
5. SULTANA. R. AND **KUMAR, S.** "Application of Entomopathogenic fungi for insect pests' control". *Sixth International Entomopathogens & Microbial Control Congress at Gaziosmanpasa University, Tokat, Turkey*. 14th-16th September **2017**. Pp. 24
6. **KUMAR, S.** AND SULTANA. R. "Entomopathogenic fungi associated with natural population of *Hieroglyphus perpolita* (Uvarov) in Pakistan" *Fundamental and applied aspects of forest soil science, VI All- Russian Scientific Conference with International Participation at Russia*. 14th- 18th September **2015**. Pp. 151-152.
7. SULTANA. R. AND **KUMAR, S.** "Natural control of grasshopper by entomopathogenic fungi in Pakistan" *Fundamental and applied aspects of forest soil science, VI All- Russian Scientific Conference with International Participation at Russia*. 14th-18th September **2015**. Pp. 176.
8. **KUMAR, S.,** and SULTANA. R AND WAGAN M.S. "Reduction in the faces production and food consumption by three rice grasshoppers after infection with *Aspergillus* species from Badin Sindh, Pakistan" *3rd International Science Congress at Karunya University, Karunya Nagar, Coimbatore, Tamil Nadu, India*. 8th-9th December **2013**. Pp. ISCA-ISC-2013-3BS-68.

International Poster Presentation

1. **KUMAR, S.** AND SULTANA. R. "The Role of Entomopathogenic Fungi in IPM Program". *Sixth International Entomopathogens & Microbial Control Congress at Gaziosmanpasa University, Tokat, Turkey*, 14-16 September **2017**.
2. SULTANA. R. AND **KUMAR, S.** "Evaluation activity of pathogenic *Aspergillus* against Acridid grasshoppers in Pakistan". *100-year-anniversary of Barguzinskiy Reserve, conference "Nature Reserves as the Pillar of the Future", Russia*, September 7-8th, **2017**.

National Oral Presentation

1. **KUMAR, S.** "Beetle Fauna of the Cholistan Desert with Special Reference to its Arid Adaptations". *4th Two-Day International Conferences on Zoological Emerging Scientific Trends at University of Education, Lahore*. 19-20 November-**2025**, ZEST2025-BEE-06 P-45
2. **KUMAR, S.** AND SULTANA. R. "Optimizing Fungal Biological Control for sustainable management of Orthoptera pests in Pakistan". *43rd Congress of Zoology (International) at University of Okara, Okara*, June 23-25, **2025**. P-140

3. KUMAR, S., WASEEM, M. AND SULTANA. R. "New country records of Beetles (Coleoptera) from the Cholistan Desert, Pakistan". <i>2nd International conference on Plant protection Sciences (ICPPS-2025), at Sindh Agriculture University, Tandojam, 2025.</i> April 9-10, (ICPPS-2025/B/429). P-134
4. KUMAR, S. AND SULTANA. R. Non-chemical approaches to Rice pest Management in Punjab Pakistan. <i>1st International Conference on Agriculture Development & Women Empowerment Challenges; Way Forward at Sindh Agriculture University, Tandojam, January 15-16th, 2025 (ICADWE-56).</i> P-67-68.
5. KUMAR, S. AND SULTANA. R. Diversity and distribution of the Gryllinae (Gryllidae: Orthoptera) from Cholistan Desert. <i>42nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024.</i> P-128
6. KUMAR, S. AND SULTANA. R. Insect Rearing Techniques and Biosafety Challenges in Sustainable Agriculture". <i>1st International Conference on Animal Production and Biosafety (1ST IC-AP&B-24) at Shaheed Banazir Bhutto University of Veterinary and Animal Sciences (SBBUVAS), Sakrand, February 22nd - 23rd, 2024.</i> OP-50/IC-AP&B, P-101.
7. KUMAR, S. AND SULTANA. R. Concept of Entomopathogenic fungi as Microbial Agent Agricultural Pests. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-117
8. KUMAR, S., SULTANA. R. AND WASEEM M. First entry of Darkling beetle (<i>Eusattus muricatus</i>) from Cholistan Desert. <i>5th International conference on Applied Zoology (ICAZ-2022) at Khawaja Fareed University of Engineering & Information Technology, Rahim Yar Khan, October 17-18, 2022.</i> O-226/ICAZ-22, P-89.
9. KUMAR, S., and SULTANA. R. Climate Influence on the Diversity of Darkling Beetle (Tenebrionidae: Coleoptera) in Cholistan Desert Punjab. <i>7th International Conference on climate Smart Agriculture: Innovations and adaptations University of Poonch Rawalakot.</i> June 15-17, 2022. p. 28.
10. KUMAR, S and SULTANA. R. Diversity and habitat preferences of Coleoptera from Cholistan Desert. <i>1st International Conference on Plant protection Sciences (ICPPS-2022), 2022.</i> p. 311.
11. KUMAR, S. and SULTANA. R. Discovery of the Darkling Beetles (Tenebrionidae: Coleoptera) in Cholistan Desert Punjab. <i>First International Two-Day Virtual Conference of Zoology, Zoological Emerging Scientific Trends (ZEST) 2022, January 18th-19th, 2022.</i> P- 43.
12. KUMAR, S. AND SULTANA. R. Distribution patterns in Orthoptera Biodiversity from Cholistan Desert. <i>40th Pakistan Congress of Zoology (International) at Sindh Agricultural University, Tandojam, March 10-12, 2020,</i> p- 169-170
13. KUMAR, S. AND SULTANA. R. First documentation of insect fauna from Cholistan desert Punjab, Pakistan. <i>3rd International Conference "Empowering Nation Through Sciences" Islamabad Pakistan, April 24-25, 2019.</i> P- 33.
14. KUMAR, S. AND SULTANA. R. "Entomopathogenic Fungi an effective Microbial Agent against Locusts and Grasshoppers". <i>39th Pakistan Congress of Zoology (International) at Islamia College University, Peshawar, March 4-6th, 2019.</i> p- 148
15. KUMAR, S. AND SULTANA. R. "Pathogenicity of <i>Beauveria bassiana</i> (Deuteromycotina) to <i>Schistocerca gregaria</i> Forsskal (Cyrtacanthacridinae: Acrididae: Orthoptera). <i>1st International Conference on Applied Zoology.</i> 10 th -11 th October 2018. Pp. 25
16. KUMAR, S., SULTANA. R. AND MARI, J.M. Behavioral aspect of insect after application of <i>Beauveria bassiana</i> under laboratory conditions. <i>International Conference on Biological Control of Pest and Disease: Progress & Prospects at University of Karachi, Karachi, July 9th- 11th, 2018.</i> P-15
17. SULTANA. R. AND KUMAR, S. Mass Production of some microbial agents for control of various pest species of Orthoptera. <i>International Conference on Biological Control of Pest and Disease: Progress & Prospects at University of Karachi, Karachi, July 9th – 11th, 2018.</i> P-16
18. KUMAR, S. AND SULTANA. R. Recognition of <i>Beauveria bassiana</i> as bio-pesticides in agriculture.

38 th Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, February 27-March 1, 2018 . p- 176
19. KUMAR, S. AND SULTANA. R. "Diversity of Entomopathogenic Fungi among the Rice Pests". <i>1st International Conference on Emerging Trends in Zoology at Department of Zoology, University of Sargodha, Sargodha</i> . 8-9 th December 2017 . Pp.26
20. KUMAR, S. AND SULTANA. R. "Mortality of acridid species contaminated with <i>Aspergillus</i> under laboratory condition" <i>37th congress of Zoology (International) at GC University, Faisalabad</i> . 28 th February-2 nd March, 2017 . Pp. 205-206.
21. KUMAR, S. AND SULTANA. R. "Investigation on entomopathogenic fungi an effective microbial agent against locusts and grasshoppers in Pakistan" <i>3rd International Conference on Agriculture, food and Animal Sciences</i> . 10 th -11 th January 2017 . Pp. 79.
22. KUMAR, S., SULTANA. R. AND WAGAN, M.S. "Contribution of <i>Aspergillus</i> species in biological control to reduce rice pest population" <i>36th congress of Zoology (International) at University of Sindh, Jamshoro</i> . 16 th -18 th February, 2016 . Pp. 134.
23. KUMAR, S., SULTANA. R. AND WAGAN, M.S. "Conservation of biological control using Entomopathogenic fungi against acridid fauna from Sindh". <i>35th congress of Zoology (International) at University of Karachi, Karachi</i> . 1 st -4 th March, 2015 . Pp. 83.
24. KUMAR, S., SULTANA. R. AND WAGAN, M.S. "Studies on the natural level of fungal infection in grasshopper colonies in lower Sindh, Pakistan". <i>2nd International Conference on Agriculture, Food, and Animal Sciences</i> . 25 th -26 th February 2015 . Pp. 30-31.
25. KUMAR, S., SULTANA. R. AND WAGAN, M.S. "Studies on the natural level of fungal infection in grasshopper's colonies in upper Sindh" <i>34th congress of Zoology at Bahauddin Zakariya University, Multan</i> , 25 th -27 th February 2014 . Pp. 172.
26. KUMAR, S., SULTANA. R. AND WAGAN, M. S. Susceptibility of developmental stages of <i>Oxya velox</i> (Fabricius) (Orthoptera: Acrididae) to <i>Aspergillus</i> species from Sindh. <i>33rd Congress of Zoology at Islamabad</i> , 2 nd -4 th April 2013 . Pp. 173.

National Poster Presentation

1. ABDULLAH, M., KUMAR, S. AND SULTANA. R. Study on Behavior and Dispersal Flight of Mole Cricket (Gryllotalpidae: Grylloidea) in Cholistan Punjab. <i>42nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad</i> , April 23-25, 2024 . P-261
2. KUMAR, S., SULTANA. R. AND MARI, J.M. "Pathogenicity of <i>Beauveria bassiana</i> against Grasshoppers in controlled environment". <i>4th International Conference on Agriculture, Food and Animal Sciences</i> . 21 st -22 nd January 2019 .
3. KUMAR, S. AND SULTANA. R. "Study on the conservation biological control using entomopathogenic fungi against pest". <i>35th congress of Zoology (International) at University of Karachi, Karachi</i> . 1 st -4 th March, 2015 .

PRESENTATIONS CONTRIBITAED BY STUDENTS

1. BABAR, A.A., SULTANA, R. AND KUMAR, S. Diversity and Evolutionary Linkages of Acrididae (Caelifera: Orthoptera) in Upper Sindh. <i>43rd Congress of Zoology (International) at University of Okara, Okara</i> , April 22-24, 2025 . P-193
2. ZESHAN, M., KUMAR, S., SULTANA, R. AND AYAZ, M.M. Study on the Life Cycle of the Akk Grasshopper <i>Poikilocerus pictus</i> (Orthoptera: Pyrgmophidae) from Cholistan Desert, <i>43rd Congress of Zoology (International) at University of Okara, Okara</i> , April 22-24, 2025 . P-179

3. KHALIL, R., KUMAR, S. AND SULTANA, R. Life History statics of <i>Pokilocerus pictus</i> (Orthoptera: Pygomorphidae) in Cholistan Desert. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-179
4. AJMAL, I., KUMAR, S. AND SULTANA, R. Seasonal variation in Orthopteran diversity: A case study in Rainy season in Cholistan Desert <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-178
5. KANWAL, S., KUMAR, S. AND SULTANA, R. A Systematic study on Mole Crickets (Gryllotalpidae: Ensifera) from Cholistan Desert. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-177
6. IQBAL, S., KUMAR, S. , SULTANA, R. AND AYAZ, M.M. Ecological status of Three irrigated Canals of Panjnad Headworks Punjab Pakistan using aquatic Entomofauna as a Bioindicators. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P- 177
7. IRFAN, M., KUMAR, S. AND SULTANA, R. DNA Barcoding revolutionizes Conocephalinae Grasshopper identification in Bahawalpur, Pakistan. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-176
8. SULTAN, N., KUMAR, S. AND SULTANA, R. Systematic study on Field Crickets (Orthoptera: Gryllidae) of the Cholistan Desert. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-176
9. KHAN, B., KUMAR, S. AND SULTANA, R. Observations on Morphological characteristics in Gryllotalpa (Orthoptera: Gryllotalpidae) from Cholistan Desert. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-175
10. ZUBAIR, S., KUMAR, S. AND SULTANA, R. Observations on Seasonality and Wing Dimorphism in Mole Cricket Gryllotalpa (Orthoptera: Gryllotalpidae). <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-175
11. HAMEED, S., KUMAR, S. AND SULTANA, R. Study of Cryptic species of Gryllidae (Order: Orthoptera) from Bahawalpur. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-174
12. ZAIN UL ABEDIN, M., KUMAR, S. AND SULTANA, R. A Comparative analysis of Hemiacridinae (Orthoptera) in Sindh and Khyber Pakhtunkhwa. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-173
13. ARSHAD, R., KUMAR, S. AND SULTANA, R. Distribution of Family Tenebrionidae (Coleoptera) from Cholistan Desert. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-173
14. CHOUHDARY, Z., KUMAR, S. AND SULTANA, R. Comparative analysis of selected Caeliferan Grasshoppers in the Cholistan Desert: Occurrence and Distribution Patterns. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-172
15. RAZIA, E.T., KUMAR, S. AND SULTANA, R. Study on Morphological differences in Earwigs (Dermaptera) of Bahawalpur. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-171
16. KAINAT, L., KUMAR, S. AND SULTANA, R. Laboratory Rearing and Life Cycle analysis of Earwigs (Dermaptera). <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-165
17. BHANGER, N., SULTANA, R., KUMAR, S. AND BALOCH, N. Diversity and Acoustic behavior of Crickets (Gryllidae) in Pakistan. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-157
18. HYDER, S., SULTANA, R., KUMAR, S. AND BUGHIO, B.A. Morphological and Morphometric variations in Acrididae (Acridoidea: Orthoptera) across different regions of Sindh. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-155

19. JAKHRANI, M.A., SULTANA, R., KUMAR, S. AND BALOCH, N. Economic impact of <i>Hieroglyphus</i> (Orthoptera: Acrididae) in agricultural fields of Sindh, Pakistan. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-151
20. WASEEM, M., KUMAR, S. AND SULTANA, R. Beyond Ladybirds: The rise of a voracious predatory Beetle in Cholistan's Desert. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-140
21. SIDIQUE, A., KUMAR, S. AND SULTANA, R. Efficiency of insecticides on Thrips and White fly in Cotton varieties across Muzaffargarh District. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-139
22. JAKHRANI, M.M., SULTANA, R. AND KUMAR, S. Parasitism of Locust egg pods by <i>Scelio</i> in Sindh: Potential for sustainable pest management. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-136
23. MALIK, Z., AYAZ, M.M., SIDDIQUE, F., AHMED, R., RAHIM, K., KUMAR, S. AND HUSSAIN, F. Response to COVID-19, Recent Developments, Challenges and A Way Out. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-79
24. HABIB, Z., AYAZ, M.M., SIDDIQUE, F., AHMED, R., RAHIM, K., KUMAR, S. AND HUSSAIN, F. Prevalence of <i>Trichophyton verrucosum</i> infection in Farm Animals of the Cholistan Desert of District Bahawalpur, Pakistan. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-78
25. RASHEED, M., AYAZ, M.M., SIDDIQUE, F., AHMED, R., HASSAN, M.A., RAHIM, K., KUMAR, S. AND HUSSAIN, F. Biofilms in Pathogenesis: A critical component of New and Emerging infectious Diseases. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-75
26. BHATTI, M.M., SULTAN, R., ISHFAQ, M.M., QURESHI, A.M., RAHIM, K., KUMAR, S. AND HUSSAIN, F. Prevalence of Malarial Parasite in Bahawalpur, Pakistan. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-75
27. MALIK, M., AYAZ, M.M., SIDDIQUE, F., AHMED, R., RAHIM, K., KUMAR, S. AND HUSSAIN, F. Epigenetic Reprogramming of Immune Cells by Epstein - Barr virus—A Novel approach. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-73
28. TARIQ, I., AYAZ, M.M., SIDDIQUE, F., TARIQ, A., AHMAD, A.S., RAHIM, K., KUMAR, S. AND HUSSAIN, F. Integrating advanced sound analysis, Cellular Biology and Epigenetics to Investigate the Therapeutic effects of Quranic Recitation Frequencies on Human and Microbial Systems. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-71
29. SAGHEER, A., AYAZ, M.M., SIDDIQUE, F., AHMED, R., HASSAN, M.A., RAHIM, K., KUMAR, S. AND HUSSAIN, F. Quantitative Bacteriological Analysis and Antibiotic Resistance Characterization in Powdered Infant Milks (PIFMS). <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-69
30. QURESHI, A.M., SIDDIQUE, F., AHMED, R., MAJEED, H., RAHIM, K., KUMAR, S. AND HUSSAIN, F. The Potential of Lemongrass Essential Oil Nanoemulsion in Resistance Modulation of Milk Derived <i>Staphylococcus aureus</i> . <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-69
31. NADEEM, U., SIDDIQUE, F., AHMED, R., RAHIM, K., QURESHI, A.M., KUMAR, S. AND HUSSAIN, F. Use of Crispr-Cas in Genetic modification of Rabies Virus. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-34
32. TARIQ, A., AYAZ, M.M., SIDDIQUE, F., AHMED, R., AHMAD, A.S., RAHIM, K., TARIQ, I., KUMAR, S. AND HUSSAIN, F. Brain Tumor Detection using Artificial Neural Networks: A Simple and Fast Approach for Early Diagnosis. <i>43rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025.</i> P-33

33. REHMAN, A., AYAZ, M.M., SIDDIQUE, F., AHMED, R., RAHIM, K., KUMAR, S. AND HUSSAIN, F. Genomic identification, Evolution and Functional characterization of Heat-Shock Protein Genes in <i>Thermomonas hydrothermalis</i> . 43 rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025 . P-32
34. YOUNUS, M., KUMAR S. , MINGSHAN, W. AND SAFDAR, M. Genomic approaches to improve sustainability in Livestock Production Systems. 43 rd Congress of Zoology (International) at University of Okara, Okara, April 22-24, 2025 . P-32
35. FAREED, F., AYAZ, M.M., SIDDIQUE, F., AHMED, R., AHMAD, A.S., RAHIM, K., KUMAR, S. AND HUSSAIN, F. Physico-Chemical Characteristics and Antioxidant Potential of Date Fruit added Dahi. 43 rd Congress of Zoology (International) at University of Okara, Okara, April 22- 24, 2025 . P-21
36. IQBAL, S., KUMAR, S. AND SULTANA. R. Conventional vs. Organic Farming: A Comparative analysis of sustainability and productivity management. 1 st International Conference on Agriculture Development & Women Empowerment Challenges; Way Forward at Sindh Agriculture University, Tandojam, January 15-16 th , 2025 (ICADWE-66) . P-79
37. HAMID, A., KUMAR, S. AND SULTANA. R. Assessing the Toxicity of <i>Beauveria bassiana</i> against nymphal stages of some Grasshopper Pests. 42 nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024 . P-112
38. TARIQ, S., KUMAR, S. AND SULTANA. R. Evaluating the effectiveness of <i>Beauveria bassiana</i> against adult hoppers (Acrididae: Orthoptera). 42 nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024 . P-113
39. FAQIHA, S., KUMAR, S. AND SULTANA. R. Observations on seasonal diversity of Cotton Pests in Dera Ghazi Khan. 42 nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024 . P-113
40. BHANGER, N., SULTANA. R., BALOCH, N. AND KUMAR, S. Identifying Crickets (Gryllidae: Orthoptera) as agricultural crop pests in Sindh, Pakistan. 42 nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024 . P-114
41. JAKHRANI, M.M., SULTANA. R. AND KUMAR, S. Survey and Exploration of <i>Scelio</i> Parasitoids as Biocontrol agents for Desert Locust Management. 42 nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024 . P-116
42. IQBAL, A., KUMAR, S. AND SULTANA. R. Systematic study of Earwigs (Dermaptera) from Sahiwal District. 42 nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024 . P-129
43. RAMEEZ, M.A., KUMAR, S. AND SULTANA. R. Biodiversity of Oedipodinae (Acrididae: Orthoptera) from Bahawalpur. 42 nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024 . P-129
44. WASEEM, M., KUMAR, S. AND SULTANA. R. Checklist of the Scarabaeidae (Coleoptera) from Cholistan Desert. 42 nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024 . P-130
45. IRFAN, M., KUMAR, S. AND SULTANA. R. First Inventory of Conocephaline (Tettigoniidae: Tettigonidea: Ensifera) fauna in Bahawalpur Division. 42 nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024 . P-130
46. ZAIN UL ABEDIN, M., KUMAR, S. AND SULTANA. R. A comprehensive study on Oviposition Behavior in Acrididae (Califera: Orthoptera). 42 nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024 . P-131

47. IQBAL, S., KUMAR, S. , SULTANA. R. AND AYZ, M.M. A study of Orthopteran diversity in the Cholistan Desert, Bahawalpur Division. <i>42nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024.</i> P-131
48. AMNA, KUMAR, S. AND SULTANA. R. Study on the diversity of Bush Crickets (Phaneropterinae: Tettigoniidae) from District Multan. <i>42nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024.</i> P-132
49. BATOOL, S., KUMAR, S. AND SULTANA. R. Diversity of Short-Horned Grasshoppers (Acrididae: Orthoptera) in Muzaffargarh. <i>42nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024.</i> P-132
50. BABAR, A.A., SULTANA. R. AND KUMAR, S. Biodiversity assessment of Grasshoppers (Caelifera: Orthoptera) of Upper Sindh. <i>42nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024.</i> P-135
51. JAKHRANI, M.A., SULTANA. R., KUMAR, S. AND BALOCH, N. Systematic study of <i>Hieroglyphus</i> (Hemiacrididae: Acrididae: Orthoptera) with the discovery of a new species from Sindh Pakistan. <i>42nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024.</i> P-139
52. ASHIQ, K., MAHMOOD, M.T., NAZ, H., HUSSAIN, F., KUMAR, S. AND AHMED, T. Surveillance of multi drug resistant <i>marR</i> gene in hospital sewage discharge in South Punjab, Pakistan. <i>42nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Chattar Klass, Muzaffarabad, April 23-25, 2024.</i> P-55
53. PRINCE, M.A., SULTANA. R. AND KUMAR, S. Molecular Systematic (DNA Bar Coding) of Caelifera (Orthoptera) of Punjab Pakistan. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-54
54. MAHAR, S.A., SULTANA. R. AND KUMAR, S. Application of <i>Metarhizium acridum</i> against <i>Schistocerca gregaria</i> in Thar Desert, Sindh. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-106
55. YOUNUS, M., KUMAR, S. AND SULTANA. R. Occurrence of Akk Grasshopper <i>Poekilocerus pictus</i> (Pyrgomorphidae: Orthoptera) from Cholistan. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-116
56. SIDDIQ, A., KUMAR, S. AND SULTANA. R. Morphometric Analysis of Agricultural Pest Grasshoppers in Muzaffargarh District. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-116
57. NAWAB, M., SULTANA. R. AND KUMAR, S. Study of Diversity of Ensifera species from Rahim Yar Khan. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-127
58. BHANGER, N., SULTANA. R., BALOCH, N. AND KUMAR, S. Review of Genus <i>Gryllus</i> (Gryllidae: Orthoptera) from Sindh Pakistan. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-133
59. JAKHRANI, M.A., SULTANA. R., KUMAR, S. AND BALOCH, N. Morphometric differences between <i>Hieroglyphus oryzivorus</i> and <i>Hieroglyphus banian</i> (Hemiacrididae: Acrididae: Orthoptera). <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-134
60. AZIZ, A., SULTANA. R. AND KUMAR, S. diversity and phylogenetic relationship of Acrididae (Caelifera: Orthoptera). <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-137
61. IQBAL, A., KUMAR, S. AND SULTANA. R. Food selection in <i>Euconocephalus</i> spp. (Tettigoniidae: Ensifera) in Cholistan desert. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-140

62. TARIQ, S., KUMAR, S. AND SULTANA. R. Observation on field efficacy of <i>Beauveria bassiana</i> against adult insects. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-140
63. ZAIN UL ABEDIN, M., KUMAR, S. AND SULTANA. R. diversity of beetle's fauna from Cholistan desert. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-141
64. IRFAN, M., KUMAR, S. AND SULTANA. R. Systematic study of Tettigonioidae species from Bahawalpur. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-141
65. NAZIR, M., KUMAR, S. AND SULTANA. R. Biodiversity of Caelifera (Orthoptera) from Tehsil Yazman. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-142
66. WASEEM, M., KUMAR, S. AND SULTANA. R. systematics study of desert beetles (coleoptera) from Cholistan. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-142
67. SHAHZAD, H.M., KUMAR, S. AND SULTANA. R. Diversity of praying mantis (Mantodea: Dictyoptera) form tehsil hasilpur. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-143
68. IQBAL, Z., KUMAR, S. AND SULTANA. R. Infestation of Macroparasites (Eutrombidium locustarum) in grasshoppers' population from rice fields. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-143
69. AHMAD, K., KUMAR, S. AND SULTANA. R. Observation on habitat of Phaneropterinae (Ensifera: orthoptera). <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-144
70. ZAHRA, L., KUMAR, S. AND SULTANA. R. Study on oviposition behavior of Acrididae (Caelifera: orthoptera). <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-144
71. SHAH, S.M.F., KUMAR, S. AND SULTANA. R. prevalence of ticks in goat from Dera ghazi khan. <i>41st Pakistan Congress of Zoology (International) at University of the Punjab, Lahore, March 16-18, 2023.</i> P-167
72. YOUNUS, M., KUMAR, S., AND SULTANA. R. Biodiversity of grasshopper in Cholistan Desert, Punjab, Pakistan. <i>5th International conference on Applied Zoology (ICAZ-2022) at Khawaja Fareed University of Engineering & Information Technology, Rahim Yar Khan, October 17-18, 2022.</i> O-225/ICAZ-22, P-89.
73. IRFAN, M., KUMAR, S. AND SULTANA. R. Trails of <i>Entomopathogenic Fungi</i> against Orthoptera Pest. <i>5th International conference on Applied Zoology (ICAZ-2022) at Khawaja Fareed University of Engineering & Information Technology, Rahim Yar Khan, October 17-18, 2022.</i> O-227/ICAZ-22, P-90.
74. ZAIN UL ABEDIN, M., KUMAR, S. AND SULTANA. R. Exploration of Coleoptera fauna from Cholistan Desert Pakistan. <i>5th International conference on Applied Zoology (ICAZ-2022) at Khawaja Fareed University of Engineering & Information Technology, Rahim Yar Khan, October 17-18, 2022.</i> O-228/ICAZ-22, P-90.
75. WASEEM, M., KUMAR, S. AND SULTANA. R. New record of Ground Beetles from Cholistan Desert, Bahawalpur, Pakistan. <i>5th International conference on Applied Zoology (ICAZ-2022) at Khawaja Fareed University of Engineering & Information Technology, Rahim Yar Khan, October 17-18, 2022.</i> O-264/ICAZ-22, P-99.
76. YOUNUS, M., KUMAR, S. and SULTANA. R. Survey on the Grasshoppers fauna of Cholistan Desert. <i>1st International conference on Plant protection Sciences (ICPPS-2022), p. 89, 2022.</i>

77. BHANGER, N., SULTANA. R., BALOCH, N. and KUMAR, S. Occurrence and Behavioral Observation of Gryllinae (Gryllidae: Orthoptera) from Sindh. <i>First International Two-Day Virtual Conference of Zoology, Zoological Emerging Scientific Trends (ZEST) 2022</i> , January 18th- 19th, 2022 . P- 38.
78. WASEEM, M., KUMAR, S. AND SULTANA. R. Observation on Coleoptera Fauna from Cholistan Desert. <i>First International Two-Day Virtual Conference of Zoology, Zoological Emerging Scientific Trends (ZEST) 2022</i> , January 18th-19th, 2022 . P- 47.
79. IRFAN, M., KUMAR, S. AND SULTANA. R. Entomopathogenic Fungi against Orthoptera Insects: Way Forward for Promoting of Biological Control in Pakistan. <i>First International Two-Day Virtual Conference of Zoology, Zoological Emerging Scientific Trends (ZEST) 2022</i> , January 18th-19th, 2022 . P- 50.
80. NAZIR, M., KUMAR, S. AND SULTANA. R. Distribution Pattern of Orthoptera in Cholistan Desert. <i>First International Two-Day Virtual Conference of Zoology, Zoological Emerging Scientific Trends (ZEST) 2022</i> , January 18th-19th, 2022 . P- 56.
81. BABAR, A.A., SULTANA. R. AND KUMAR, S. Diversity of Acrididae (Caelifera: Orthoptera) of Upper Sindh. <i>First International Two-Day Virtual Conference of Zoology, Zoological Emerging Scientific Trends (ZEST) 2022</i> , January 18th-19th, 2022 . P- 62.
82. YOUNUS, M., KUMAR, S. AND SULTANA. R. Grasshoppers (Caelifera: Orthoptera) of Cholistan Desert. <i>First International Two-Day Virtual Conference of Zoology, Zoological Emerging Scientific Trends (ZEST) 2022</i> , January 18th-19th, 2022 . P- 168.
83. ZAIN-UL-ABEDIN, M., KUMAR, S. AND SULTANA. R. Explore of Coleopteran Species from Cholistan Desert. <i>First International Two-Day Virtual Conference of Zoology, Zoological Emerging Scientific Trends (ZEST) 2022</i> , January 18th-19th, 2022 . P- 169.
84. JAKHRANI, M.M., SULTANA. R AND KUMAR S. Control of <i>Poecilocus pictus</i> (Pyrgomorphidae: Orthoptera) through <i>Beauveria Bassiana</i> . 40th Pakistan Congress of Zoology (International) at Sindh Agricultural University, Tandojam, March 10-12, 2020 , p- 174

TRAININGS, SEMINARS AND WORKSHOPS

International:

1. Attended Online Seminar on Wildlife Conservation and CITES Implementation for the Developing countries on June 06-July 19, 2023 . Organized by China National Bamboo Research Center, China. (Online)
2. Attended Online Seminar on Sustainable Development Management of Plantation for BRI Countries on July 27-August 16, 2022 . Organized by China National Bamboo Research Center, China. (Online)
3. Attended Online Seminar on Forestry Carbon Sink Management for BRI Countries on June 27-July 17, 2022 . Organized by China National Bamboo Research Center, China. (Online)
4. Attended Online Seminar on Wetland Conservation and Management for BRI Countries on August 18-31, 2021 . Organized by China National Bamboo Research Center, China. (Online)
5. Attended National Webinar on "Know More About the Moths" on 1 st August 2021 . Organized by Zoological Society of Kerala, India. (Online)
6. Attended National Webinar "International Tiger Day 2021: Their survival is in our hands" on 29 th July 2021 . Organized by Zoology and Biotechnology Department, Govt. Girls' P.G. College, Ujjain (M.P.), India. (Online)
7. Attended "Ministerial Workshop on Forestry Sustainable Development for BRI Countries" held from 29 th October 2019 to 18 th November 2019 in Hangzhou, Zhejiang, P.R. China.

National:

1.	Attended three-day professional training program on “Beekeeping” held from 20-22th January 2026 organized by the National Agricultural Research Centre (NARC), Islamabad
2.	Organized and attended one day Seminar on “International Biodiversity Day” held from 22nd May 2025 at CUVAS, Bahawalpur
3.	Organized and attended two days International Seminar on “Paleontology” held from 10-11th February 2025 at CUVAS, Bahawalpur
4.	Organized and attended two days’ workshop on “A Framework for Desert Biodiversity and Sustainable Ecosystem” held from 26-27th September 2024 at CUVAS, Bahawalpur
5.	Attended the Project awareness seminar & Training workshop “Capacity Building Program for Editors of National; Research Journals” on 12 th June 2024 . (Pakistan Scientist & Technological Information Centre (PASTIC).
6.	Attended workshop on “Elsevier-HEC Workshop on Journal indexing in Scopus” on 21 st January 2021 . (Higher Education Commission of Pakistan).
7.	Attended virtual seminar (International) on the eve of “World Animal Day” on 4 th October 2020 . (Department of Zoology, University of Education, Lahore).
8.	Attended International webinar on “Statistical Package R: An Essential Toll for Genomics” on 14 th October 2020 . (Institute of Biochemistry and Biotechnology, UVAS, Lahore)
9.	Attended workshop on “Faculty Orientation Training Workshop” from 02-06 th , November 2020 . (Punjab Higher Education Commission, Lahore)
10.	Attended one-day international symposium on “WORLD FISHERIES DAY support sustainable fishing & fisheries conservation” on 21st November 2020 . (Department of Zoology, University of Education, Lahore).
11.	Attended one day workshop on Application of SAS Statistical Techniques in Animal Production and Veterinary Sciences” held from 2 nd May 2019 at CUVAS, Bahawalpur.
12.	Attended one day workshop on “Introduction to EndNote” held from 29 th April 2019 at CUVAS, Bahawalpur.
13.	Organized and attended one day workshop on “1st International workshop on Biodiversity: Techniques & Tools” held from 04-05th April 2019 at CUVAS, Bahawalpur.
14.	Attended three days training on “In-Service competency enhancement training for Young University Faculty” held from 28-30th January 2019 at CUVAS, Bahawalpur.
15.	Attended three day’s workshops on “6th National Workshop on Bio-Control Technology” held from 17 to 19th November 2015 at NIA Tandojam.
16.	Attended three day’s workshops on “5th National Workshop on Bio-Control Technology” held from 18 to 20 th June 2013 at NIA Tandojam.

PRESIDED TECHNICAL SECTION IN CONFERENCE

S. No.	Congress	Preside Over
1.	43 rd Congress of Zoology (International) at University of Okara, Okara. [2025]	Co-Chair
2.	2 nd International conference on Plant Protection Sciences (ICOOS- 2025), at Sindh Agriculture University, Tandojam. [2025]	Co-Chair
3.	42 nd Congress of Zoology (International) at University of Azad Jammu & Kashmir, King Abdullah Campus, Muzaffarabad. [2024]	Co-Chair
4.	41 st Congress of Zoology (International) at University of the Punjab, Lahore, Punjab. [2023]	Co-Chair

5.	1 st International conference on Plant Protection Sciences (ICOOS- 2022), at Sindh Agriculture University, Tandojam. [2022]	Co-Chair
6.	40 th Congress of Zoology (International) at Sindh Agriculture University, Tandojam, Sindh. [2020]	Co-Chair
7.	39 th Congress of Zoology (International) at Islamia College University, Peshawar KP. [2019]	Co-Chair

MEMBER OF PROFESSIONAL SOCIETIES

1.	Life-Fellow of Zoological Society of Pakistan, Pakistan
2.	Member of The Orthopterists' Society, USA
3.	Member of Sindh Entomological Society, Pakistan
4.	Member of Pakistan Entomology Society of Pakistan
5.	Member of Pakistan Society of Plant Protection
6.	Member of The Pakistan Association of Insect Scientist (PAIS)

SERVICE FOR JOURNALS

1.	Assistant Editor of University of Sindh Journal of Animal Sciences (USJAS)
2.	Associate Editor of Cholistan Journal of Veterinary and Animal Sciences (CJVAS)
3.	Reviewer for • Biology [MDPI] • Insects [MDPI] • Journal of Engineering Research and Sciences • Sindh University Research Journal (Science Series) • Sarhad Journal of Agriculture • Journal of Applied Research in Plant Sciences

B.S, MS/MPHIL. & PH.D. EXTERNAL EXAMINER

1.	University of Sindh, Jamshoro (Sindh)
2.	SBK Women University, Quetta (Baluchistan)
3.	Hazara University, Mansehra (KP)
4.	The Islamia University of Bahawalpur, Bahawalpur (Punjab)
5.	The Government Sadiq College Women University, Bahawalpur (Punjab)
6.	University of Karachi, Karachi (Sindh)
7.	Shah Abdul Latif University, Khairpur (Sindh)

REFERENCES

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- 2. Dr. Imran Khatri**
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- 3. Dr. Nazeer Ahmed**
Professor/Dean
Faculty of Life Sciences and Informatics,
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