

Personal Information

Dr. Muhammad Uzair Mukhtar, DVM, MS, PhD

DOB: 21/09/1989

Present Address: Chengguan District, Lanzhou City, P.R. China.

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Citizenship: Pakistan

Residence Permit: P.R. China (2020)



Education

- 3.2017 - 1.2020 **PhD, Lab of Vector and Vector borne diseases (OIE Reference Lab)**
Lanzhou veterinary research institute, Chinese Academy of Agricultural sciences (CAAS) Beijing, China.
PhD-Preventive veterinary sciences
Research group: Tick-borne bacterial diseases.
Research Area: MOLECULAR MECHANISM OF ANAPLASMA OVIS TYPE 4 SECRETION SYSTEM (T4SS)
Techniques learned and used so far:
- Basic Molecular techniques such as DNA Extraction, RNA Extraction, DNA & RNA quantification
 - Primer designing
 - ELISA kits (FMDV, PPR)
 - Polymerase Chain Reaction (PCR)
 - Nested PCR
 - Gel electrophoresis
 - Gel Extraction
 - DNA Ligation
 - Bait Construction for PPI
 - Phylogenetic analysis
 - SDS-Page (Protein Electrophoresis)
- 1.2013 - 8.2015 **MS, Faculty of Medicine, Quaid e Azam University**
Department of Medical Entomology and Disease Vector Control
Health Services Academy, Pakistan
MS-Medical Entomology and Disease Vector Control (MEDVC)
(Public Health Entomology)
Title of the dissertation: “Larvicidal activities of different botanicals against *Aedes aegypti* (dengue fever vector) under laboratory Conditions”.
Specialty in MS-MEDVC:
- Entomological investigation and Vector Control Methods
 - Medically important mosquito Taxonomy
 - Epidemiological investigation
 - Use of World Health Organization (WHO) insecticide resistance status kits.

- 8.2007 - 7.2012 **Dr. of Veterinary Medicine,**
Faculty of Veterinary Sciences, Bahaudin Zakariya University, Pakistan
Practicum/Internship: Poultry Research Institute (**PRI**), Rawalpindi
Specialty in Vet. Med:
- Diagnostic skills and clinics
- Basic Lab Skills (Especially Microbiological Lab)
- Histological techniques
- Livestock Management
- Poultry Production

Conferences and Short trainings

- 11.2018 Successfully completed a 14 day International training workshop on **Major Trans-Boundary Animal diseases diagnosis Technology** organized by Lanzhou Veterinary Research institute, CAAS, P.R. China.
- 6.2015 Successfully completed a 15 day course on **Fish Handling, Transportation and Marketing** organized by the Fish Development Board, Islamabad and the University of Veterinary Sciences, Lahore
- 4.2015 Successfully completed 5 days of training on the **Basics of Project Proposal Writing** Organized by AHK-NCRD Establishment Division Government of Pakistan, Islamabad.
- 4.2015 Successfully completed a 3 day training on **Logical Framework Analysis (LFA)** for Development Sector organized by AHK-NCRD Establishment Division Government of Pakistan, Islamabad.
- 11.2014 Participated in SIX days sub-regional workshop on **Integrated Vector Management** organized by World Health Organization Pakistan in Islamabad.
- 12.2013 Participated in 4th Annual **Public Health Scientific Conference** Organized by the Health Services Academy, Islamabad.
- 10.2010 Participated in the National Conference on “**Strategies to Improve Red Meat Production in Pakistan**” at the Faculty of Veterinary Sciences, Bahauddin Zakariya University, Multan.

Work Experience

- 11.2016 – 3.2017 **Lab of Tropical Vet. Medicine and Vector Biology**
Hainan University, Haikou, Hainan P.R. China.
Position: Research Assistant/Prospective PhD student
Key Responsibilities:
- Mosquito Identification
- Maintaining Mosquito Colonies
- Use of Molecular techniques
- Designing Research Proposals
- Research Paper write-up
- 1.2016 – 9.2016 **Society of Health and Social Development**, Islamabad.
Position: Research Associate (Ended upon project completion)
Key Responsibilities:
- Insecticide resistance testing of malaria vector
- Project Proposal writing
- Report writing
- Project management & implementation

8. 2014 – 12.2015 **Punjab Health Department**, Rawalpindi.
Position: Public Health Entomologist (Ended upon contract completion)
Key Responsibilities:
- Disease Vector Identification
- Monitoring of vector surveillance teams
- Quality assurance of Chemical Control intervention teams
- 2.2012 – 5.2012 **Poultry Research Institute (PRI)**, Rawalpindi.
Position: Internee (Fixed Term)
Key Responsibilities:
- Farm Management
- Poultry Lice and Mite control
- Laboratory Diagnosis of different poultry diseases.

Publications

- Yang J., Liu Z., Niu Q., **Mukhtar M. U.**, Guan G., Liu G., Luo J., and Yin H. (2018)
A novel genotype of "Anaplasma capra" in wildlife and its phylogenetic relationship with those of human. *Emerging Microbes & Infections*. DOI: 10.1038/s41426-018-0212-0
- Mukhtar M. U., Mukhtar M., Iqbal N. (2018) Dengue fever is an emerging public health concern in the city of Multan, Pakistan: its seroprevalence and associated risk factors.**
Microbiology and Immunology. DOI: 10.1111/1348-0421.12649
- Mukhtar, M. U.,** Han, Q., Liao, C., Haq, F., Arslan, A., & Bhatti, A. (2018) **Seasonal Distribution and Container Preference Ratio of the Dengue Fever Vector (Aedes aegypti, Diptera: Culicidae) in Rawalpindi, Pakistan.** *Journal of Medical Entomology*. doi: 10.1093/jme/tjy010
- Arslan, A., Rathor, H. R., **Mukhtar, M. U.**, Mushtaq, S., Bhatti, A., Asif, M., ... & Ahmad, J. F. (2016). **Spatial distribution and insecticide susceptibility status of Aedes aegypti and Aedes albopictus in dengue affected urban areas of Rawalpindi, Pakistan.** *Journal of Vector Borne Diseases*. 53(2), 136.
- Zaki, A. B., Munir, M. A., Hassan, S. A., Khan, I. A., **Mukhtar, U.**, Arsalan, A., & Mushtaq, S. (2016). **Adulticidal Efficacy of Azadirachta Indica (Neem Tree), Sesamum Indicum (Til) and Pinus Sabinaena (Pine Tree) Extracts Against Aedes Aegypti under Laboratory Conditions.** *Pakistan Journal of Medical Research*. 55(1), 11.
- Hammad, M., Bhatti, A., **Mukhtar, M. U.**, Arslan, A., & Mushtaq, S. (2015). **Susceptibility/resistance of selected insecticides in Anopheles mosquitoes of district Mirpur Khas, Sindh, Pakistan.** *Journal of entomology and zoology studies*, 3(6), 321
- Mukhtar, M. U.,** Mushtaq, S., Arslan, A., Zaki, A. B., Hammad, M., & Bhatti, A. (2015). **Laboratory study on larvicidal activity of different plant extracts against Aedes aegypti.** *International journal of Mosquito Research*. 2(3), 127
- Mushtaq, S., **Mukhtar, M. U.**, Arslan, A., Bakhtyar, A., Zaki, M. H., & Bhatti, A. (2015). **Probing the residual effects of Deltamethrin on different surfaces against malaria and dengue vector in Pakistan by designing laboratory model.** *Journal of entomology and zoology studies*. 3(4), 440
- Arslan, A., **Mukhtar, M. U.**, Mushtaq, S., Zakki, A. B., Hammad, M., & Bhatti, A. (2015). **Comparison of Susceptibility Status of laboratory and field populations of Aedes aegypti against Temephos in Rawalpindi.** *Journal of entomology and zoology studies*. 3(4), 374

Haq F, Mukhtar MU, Haider M,. (2018) **Mosquito Avoidance Practices and Knowledge of Dengue Fever and Its Vector among Urban & Rural community of District Hafizabad, Pakistan.** (Under Review: Journal of Arthropod borne diseases)

Articles In Newspapers

1. Understanding the dengue fever and its control (Daily Times)

<https://dailytimes.com.pk/writer/muhammad-uzair/>

2. Zika Virus threat in Pakistan (Daily Times)

<https://dailytimes.com.pk/337288/zika-virus-4/>

Research related software's

DNA Star

CLC Genomics workbench

Mega 6

SPSS 16

Minitab

Languages

Urdu

Native speaker

English

18 years of Education.

Chinese

Basic Oral knowledge

References

Dr. Jifei Yang

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