

PERSONAL INFORMATION

Dr. Muhammad Uzair Mukhtar
DVM, MS, PhD

Current Position: Assistant Professor,
Institute of Public Health,
Lahore.

HEC Approved PhD Supervisor
(Ref. HEC/HRD/ASA/2022/112090)

DOB: 21/09/1989

Marital status: Married

Present Address: Umer block, Sector B,
Street 33, H#560,
Bahria Town, Lahore

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Multan, Pakistan

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Citizenship: Pakistan



EDUCATION

3.2017 - 1.2020 **PhD, Chinese Academy of Agricultural Sciences (CAAS), Beijing China**

Research group: Tick-borne diseases

Degree title: Ph.D. Preventive veterinary science

Title of the dissertation: Profiling the proteins cross-talking with the VirD4 and VirB10 of *Anaplasma ovis* in salivary gland of *Dermacentor silvarum*

1.2013 - 8.2015 **MS, Health Services Academy,
Department of medical entomology and disease vector control
Quaid-i-Azam University, Pakistan**

Degree title: MS. Medical entomology and disease vector control

Title of the dissertation: Larvicidal activities of different botanicals against *Aedes aegypti* under laboratory conditions.

8.2007 - 7.2012

DVM, Faculty of veterinary science
Bahauddin Zakariya University, Pakistan.
Degree title: Doctor of Veterinary Medicine (D.V.M)

RESEARCH PROFILE

Research Publications	19
Impact factor	>36
Citations	196
h-index	8
i10-index	8

PUBLICATIONS

1. **Mukhtar MU.**, Iqbal N., Yang J., Nawaz Z., and Peng TL (2022). The first molecular identification of tick-borne pathogens in wild animals from Lohi Bher Zoo, Pakistan. *Parasitology Research* (<https://doi.org/10.1007/s00436-022-07666-6>) **IF: 2.383**.
2. **Mukhtar M.U.**, Iqbal N., Yang J., et al. (2020) Identification and evaluation of UL36 protein from *Dermacentor silvarum* salivary gland interacting with *Anaplasma ovis* VirB10. *Parasites & Vectors* 13:105. **IF: 3.120** (<https://doi.org/10.1186/s13071-020-3975-9>)
3. Iqbal N., **Mukhtar M.U.**, (co-first author), Yang, J. et al. (2019) First molecular evidence of *Anaplasma bovis* and *Anaplasma phagocytophilum* in bovine from central Punjab, Pakistan. *Pathogens* 8: 155. **IF: 3.405** (<https://doi.org/10.3390/pathogens8030155>)
4. **Mukhtar M.U.**, Mukhtar M., Iqbal N., et al. (2021) The emergence of Dengue Fever in Sheikhpura, Pakistan: its seroprevalence and risk factors assessment during 2014 -17. *Journal of Infection in Developing Countries*. **IF: 1.2** (<https://doi.org/10.3855/jidc.13976>)
5. **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* 55: 1–5. **IF:1.66** (<https://doi.org/10.1093/jme/tjy010>)
6. **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* 62: 729–31. **IF: 1.442** (<https://doi.org/10.1111/1348-0421.12649>)
7. Iqbal N., **Mukhtar M.U.**, Yang J., et al. (2021) Identification and evaluation of midgut protein RL12 of *Dermacentor silvarum* interacting with *Anaplasma ovis* VirD4. *Ticks and Tick-Borne Diseases*. **IF: 2.7** (<https://doi.org/10.1016/j.ttbdis.2021.101677>)
8. Han R., Yang J., **Mukhtar M.U.**, Chen Z., et al. (2019) Molecular detection of *Anaplasma* infections in ixodid ticks from the Qinghai-Tibet Plateau. *Infectious Diseases of Poverty* 8:12. **IF: 3.220** (<https://doi.org/10.1186/s40249-019-0522-z>)

9. Wang H., Yang J., **Mukhtar M.U.**, Liu Z, Zhang M and Wang X. (2019) Molecular detection and identification of tick-borne bacteria and protozoans in goats and wild Siberian roe deer (*Capreolus pygargus*) from Heilongjiang Province, northeastern China. *Parasites & Vectors* 12:296. **IF: 3.120** (<https://doi.org/10.1186/s13071-019-3553-1>)
10. Arslan A., Rathor H R., **Mukhtar M. U.**, Mushtaq S., Bhatti A., 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. **IF: 0.559** (<https://pubmed.ncbi.nlm.nih.gov/27353583/>)
11. 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* 7:210. **IF: 6.212** (<https://doi.org/10.1038/s41426-018-0212-0>)
12. Yang J., Wang X., Wang J., Liu Z., Niu Q., **Mukhtar M.U.**, Guan G., and Yin H. (2021) Molecular survey of tick-Borne pathogens reveals diversity and novel organisms with veterinary and public health significance in wildlife from a national nature reserve of China. *Frontiers in Veterinary Science*. **IF: 3.412** (<https://doi.org/10.3389/fvets.2021.682963>)
13. **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 **IF: Nil** (<https://www.dipterajournal.com/archives/2015/2/3/B/2-2-58>)
14. 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. **IF: Nil**
15. Mushtaq S., **Mukhtar M.U.**, Arslan A., Bakhtyar A Z. & 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. **IF: Nil** (<https://www.entomoljournal.com/vol3Issue4/3-4-129.1.html>)
16. 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. **IF: Nil** (<https://www.entomoljournal.com/archives/2015/vol3issue6/PartE/3-6-1.pdf>)
17. Rashid M., Liu J., Guan G., Wang J., Li Z., Hassan M.A., Rashid M.I., **Mukhtar M.U.**, Luo, J. and Yin, H., (2019). In vitro influence of *Theileria annulata* on the functions of bovine dendritic cells for stimulation of T lymphocyte proliferation. *Parasitology* 1–11. **IF:2.73** (<https://doi.org/10.1017/S0031182019001227>)
18. Rashid M., Guan G., Luo J., Zhao S., Wang X., Rashid M I., Hassan M A., **Mukhtar M U.**, Liu J, Yin H. (2019) Establishment and expression of cytokines in a *Theileria annulata*-Infected Bovine B Cell Line. *Genes* 10(5):329. **IF: 3.331** (<https://doi.org/10.3390/genes10050329>)
19. Nawaz Z., Rasool M H., Siddique A B., Zahoore M A., Naz A., Ali S., and **Mukhtar, M U.** (2020) Frequency and molecular detection of *Giardia intestinalis* in children attending

pediatrics of Punjab, Pakistan, *Jundishapur J Microbiol* 2020; 13(1): e97080. **IF: 0.593** (doi: 10.5812/jjm.97080)

20. Zaki A B., Munir M A., Hassan S A., Khan I. A., **Mukhtar M 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. **IF: Nil** (<https://www.pakmedinet.com/25389>)

PROFESSIONAL EXPERIENCE

04. 2022 – Present **Institute of Public Health,
Department of Medical Entomology and Parasitology
Position:** Assistant Professor
- Programs & Courses:**
M.Phil. Community Medicine (Medical Entomology and Parasitology)
MPH (Medical Entomology and Parasitology)
BS-MLT (Parasitology)
03. 2022 – Present **Health Services Academy,
Department of Medical Entomology and Disease Vector Control
Position:** Visiting Faculty
- Program & Courses:**
PDG-MEDVC (Vector Biology and Control)
10. 2021 – 10.2022 **Faculty of Veterinary Medicine
Universiti Malaysia Kelantan, Malaysia
Position:** Post-Doctoral Fellow- Publication Scheme (Online)
- Key Responsibilities:**
- Research article write-up and publishing
 - Designing research experiments
 - Dissertation writing guidance to students
11. 2021 – 03.2022 **USF Health, Department of Molecular Medicine
University of South Florida
Position:** Post-Doctoral Research Scholar
Reason of leaving: Job transition
Research Direction:
Tick-Pathogen interaction and protein structure function in *Borrelia burgdorferi*.
- 11.2016 – 3.2017 **Lab of tropical veterinary medicine and vector biology
Hainan University, Haikou, P.R. China
Position:** Research assistant /Prospective Ph.D. student
Reason of leaving: Transfer to CAAS for PhD studies

Key responsibilities:

- Guided undergrads in mosquito identification
- Maintaining and rearing of mosquito colonies
- Designing research proposals
- Research paper write-up

8. 2014 – 12.2015

Punjab health department, Rawalpindi

Position: Public Health Entomologist

Reason of leaving: Ended upon completion

Key Responsibilities:

- Disease vector identification
- Monitoring of vector surveillance teams
- Quality assurance of chemical control intervention team

RESEARCH PROJECTS

1. PhD research project: Profiling the proteins cross-talking with the VirD4 and VirB10 of *Anaplasma ovis* in salivary gland of *Dermacentor silvarum*, Lanzhou Veterinary Research Institute funded by National Key R&D Program of China, National Science Foundation China, and Jiangsu Co-innovation Center program for Prevention and Control of Important Animal Infectious Disease and Zoonosis.

Aim of the project: To screen *Dermacentor silvarum* salivary gland proteins that interacts with *A. ovis* Type IV Secretion System components (i.e., VIRB10 and VIRD4) and to explore the interaction between *Anaplasma ovis* and *D. silvarum*.

2. Molecular detection of *Anaplasma bovis* and *Anaplasma phagocytophilum* in bovine from Pakistan, Lanzhou Veterinary Research Institute funded by National Key R&D Program of China, National Science Foundation China, and Jiangsu Co-innovation Center program for Prevention and Control of Important Animal Infectious Disease and Zoonosis.

Aim of the project: Molecular identification and genetic analysis of *Anaplasma* spp. in Pakistan.

SCHOLARSHIPS AND AWARDS

1. Won Beijing municipal government scholarship for the year 2018.
2. Won the Graduate School of Chinese Academy of Agricultural Sciences (GSCAAS) Ph.D. scholarship for the year (2017-2019).
3. A scholarship was awarded by the Health Services Academy for MS-MEDVC (2013-14)

NATIONAL AND INTERNATIONAL TRAININGS AND CONFERENCES

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|----------|---|
| 08. 2022 | Organized Hybrid International Webinar on Dengue Vector Surveillance and Control at Institute of Public Health, Lahore. |
| 06. 2022 | Participated and contributed in a 3 days Capacity Building Workshop on Promotion of One Health for Infectious Disease Prevention & Control at University of Health Sciences, Lahore. |
| 01. 2022 | Passed the examination Aseptic Technique for Rodent Survival Surgery for University of South Florida- Institutional Animal Care and Use Committee. |
| 01. 2022 | Passed the examination Rodent Basic Biomethodology for University of South Florida- Institutional Animal Care and Use Committee. |

- 11.2020 Poster presentation in the **6th World One Health Congress** (Virtual Edition) sponsored and organized by the One Health Platform, Geneva, Switzerland.
- 11.2020 Participated in **Awareness Seminar on Breast Cancer** conducted by the Institute of Public Health, Lahore.
- 10.2019 Completed a 21days international training workshop on **Mycoplasma isolation and identification in animals** sponsored and organized by the state key laboratory of etiological biology, Lanzhou Veterinary Research Institute, P.R. China.
- 08.2019 Completed a 21 days international training workshop on **Traditional Chinese veterinary medicine and techniques** sponsored by the ministry of science and technology (MOST), P.R. China.
- 11.2018 Completed a 14 days international training workshop on **Major trans-boundary animal diseases diagnosis technology** sponsored by the ministry of science and technology (MOST), P.R. China.
- 06.2015 Completed a 15 days course on **Fish handling, transportation and marketing** organized and sponsored by the Fish Development Board, Islamabad and the University of Veterinary Sciences, Lahore.
- 04.2015 Completed a 5 days training on the **Basics of project proposal writing** organized by the AHK-NCRD establishment division government of Pakistan, Islamabad.
- 04.2015 Completed a 3 days training on **Logical framework analysis (LFA)** for development sector organized by the AHK-NCRD establishment division government of Pakistan, Islamabad.
- 11.2014 Participated in a 6 days sub-regional workshop on **Integrated vector management** organized by the World Health Organization Pakistan in Islamabad.
- 12.2013 Participated as moderator in the 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 Bahauddin Zakariya University, Multan.

MEMBERSHIP

1. American Society for Microbiology (Since 2020)

REVIEWER FOR JOURNALS

1. Parasites & Vectors
2. Journal of Medical Entomology
3. Frontiers in Medicine
4. Frontiers in Public Health
5. Frontiers in Microbiology
6. South Asian Journal of Parasitology
7. Journal of Bioresource Management

ARTICLES IN NEWSPAPERS & OPINION INTERVIEWS

1. Flood and disease (Pakistan Observer, 10th Sep 2022)
<https://www.thenews.com.pk/print/989927-flood-and-disease>
2. One health: Not an option but a necessity (Pakistan Observer, 29th June 2022)

<https://pakobserver.net/one-health-not-an-option-but-a-necessity-by-dr-m-uzair-mukhtar/>

3. Are We Ready For A Longer Mosquito Season From Climate Change? (The Friday Times, 27th May 2022)

<https://www.thefridaytimes.com/2022/05/27/are-we-ready-for-a-longer-mosquito-season-from-climate-change/>

4. West Nile Fever: Pakistan Must Get Ready for Yet Another Vector-Borne Disease (The Friday Times, 16th March 2022)

<https://www.thefridaytimes.com/2022/03/16/west-nile-fever-pakistan-must-get-ready-for-yet-another-vector-borne-disease/>

5. Will ‘Clean and Green Pakistan’ Help Reduce Vector-Borne Diseases? (The Friday Times 1st March 2022)

<https://www.thefridaytimes.com/2022/03/01/will-clean-and-green-pakistan-help-reduce-vector-borne-diseases/>

6. Leishmaniasis at the door (The News International 17th Oct 2021)

<https://www.thenews.com.pk/print/900979-leishmaniasis-at-the-door>

7. Eid Alert (The News International 18th July 2021)

<https://www.thenews.com.pk/print/865612-eid-alert>

8. Dengue forthcoming, Covid19 concentrated upon (Daily Times Pakistan 13th July 2020)

<https://dailytimes.com.pk/639589/dengue-forthcoming-covid-19-concentrated-upon/>

9. Transcript of my telephonic interview with Profit Magazine in Pakistan Today.

Why you need to pay attention to the locust invasion?

(<https://profit.pakistantoday.com.pk/2020/06/01/hey-shehri-babu-here-is-why-you-need-to-pay-attention-to-the-locust-invasion/>)

10. A news report published by Chinese Academy of Agricultural Sciences (CAAS) to acknowledge my Ph.D. work. (https://mp.weixin.qq.com/s/P1nbj0rpq8Wao_hJmjzGgQ)

11. Global warming triggering recrudescence of mosquito-borne diseases? (Daily Times Pakistan 24th August 2019)

(<https://dailytimes.com.pk/453388/global-warming-triggering-recrudescence-of-mosquito-borne-diseases/>)

12. Ebola Virus: A journey away (Daily Times Pakistan 8th August 2019)

(<https://dailytimes.com.pk/444723/ebola-virus-a-journey-away/>)

13. Declining entomofauna and collapsing natural ecosystem (Daily Times Pakistan 9th April, 2019) <https://dailytimes.com.pk/374563/aftereffects-biodiversity/>

14. Citizen scientists and mosquito APP (Daily Pakistan Observer 3rd Feb, 2019)

<https://pakobserver.net/citizen-scientists-mosquito-app/>

15. Climate change and vector borne diseases in Pakistan (Daily Times Pakistan 15th Jan, 2019)

<https://dailytimes.com.pk/344236/vector-borne-diseases/>

16. Zika virus threat in Pakistan (Daily Times Pakistan 28th Dec, 2018)
<https://dailytimes.com.pk/337288/zika-virus-4/>

17. Why the dengue situation in Pakistan could be a looming disaster (**Telephonic Interview** with Alison Booth reporter from Break Dengue organization (Belgium) 20th Nov, 2018)
<https://www.breakdengue.org/dengue-in-pakistan-looming-disaster/>

18. Understanding the dengue fever and its control (Daily Times Pakistan 7th Oct, 2018)
<https://dailytimes.com.pk/writer/muhammad-uzair/>

BIOINFORMATION AND STATISTICAL SOFTWARE'S

1. Lasergene 7
2. CLC Genomics workbench
3. Mega 6
4. SPSS 16
5. Minitab

REFERENCES

Will be furnished on demand