

# Dr. Muhammad Latif

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Date of Birth: 12-11-1979

CNIC:363025256681-5



## Application For

## Associate Professor of Zoology

I am keen to embark on a career where I can serve the research group in a challenging and dynamic environment towards a successful career by making the best out of my professional abilities and interpersonal skills. Qualified for a challenging and decision-making assignments. I see myself as an active contributor to a team of dedicated and ambitious people teaching and working on projects that involve blend of Zoology and thereby enhance my knowledge and personality.

## Work Experience

- Assistant Professor (TTS): Department of Zoology, University of Education (Multan Campus) 11<sup>th</sup> September 2017 Continue
- **Assistant Professor (IPFP):** Department of Zoology, University of Education (FSD Campus) 9<sup>th</sup> May 2016- to 8<sup>th</sup> May 2017
- **Part Time Lecturer:** Bahauddin Zakariya University, Multan Pakistan

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## Education

### PhD in Zoology

➤ **Bahauddin Zakariya University, Pakistan**

**Major:** Fisheries

**Session:** 2016

**Thesis:** "*Biology and Body composition of Channa marulius (Soul) from two natural habitats of pakistan*"

### M. Phil in Zoology

➤ **Bahauddin Zakariya University, Pakistan**

(Institute of pure and applied biology)

**Major:** Molecular Physiology

**Session:** 2003-2006

**CGPA:** 3.91/4.00

**Thesis:** "*Study on Glaucoma in Relation to Different Factors and their Associates Among Patients visiting Eye OPD Nishtar Hospital Multan Pakistan.*"

### Master in Zoology

➤ **Bahauddin Zakariya University, Pakistan**

(Institute of pure and applied biology)

**Major:** Zoology

**Marks:** 689/1200 (59%)

**Session:** 2000-2002

➤ **Bahauddin Zakariya University, Pakistan**

(Govt. College Bosan Road, Multan)

**Major:** Chemistry, Botany, Zoology

**Bachelor in Science****Marks:** 469/800 (59%)**Session:** 1998-2000**Intermediate****➤ BISE, Multan**

(Govt. Science College, Multan)

**Major:** Pre-Medical**Marks:** 731/1100 (66.5%)**Session:** 1995-1998**Matriculation****➤ BISE, Multan**

(Govt. Pilot Secondary School, Multan)

**Major:** Science**Marks:** 647/850 (76%)**Session:** 1993-1995**Languages****➤** Fluent in English, Urdu, Punjab, Saraiki)**Skills**

- Whole Exome Sequence
- Sanger Sequencing
- PCR
- Gel electrophoresis
- Spectrophotometry
- HPLC
- Microtomy

## Computer Expertise / Software's

- MS Office
- Mini Tab
- Statistix
- Endnote

## Publications

1. Mustafa S, Hussain MF, Latif M, Ijaz M, Asif M, Hassan M, Faisal M, Iqbal F. A Missense Mutation (c.1037 G > C, p. R346P) in PAPSS2 Gene Results in Autosomal Recessive form of Brachyolmia Type 1 (Hobaek Form) in A Consanguineous Family. *Genes* 2022, 13, 2096. <https://doi.org/10.3390/genes13112096> (IF. 3.91).
2. Ali S, Hassan Bin Asad MH, Javed MA, Javed T, Al-Kharaman YM, Latif M, Mohsin S, Nawaz T, Farid Hasan SM, Iqbal J, Babak B. A novel synthetic derivative of biaryl guanidine as a potential BACE1 inhibitor, to treat Alzheimer's disease: In-silico, in-vitro and in-vivo evaluation. *Pakistan Journal of Pharmaceutical Sciences*. 2022 Sep 1;35(5). (IF.0.684)
3. Waqas A, Nayab A, Shaheen S, **Latif M**, Rafeeq MM, Ziaullah MS, Umair M 2022. Biallelic Variant in the tRNA methyltransferase domain of the AlkB Homolog 8 causes Syndromic Intellectual Disability. *Frontiers in Genetics*, 776. (IF. 4.772)
4. Tanveer M, Farooq M, Amjad M, Asif M, Kashif, M, Latif M, Khan A, Aktas M, Said MB, Iqbal F 2022. "Molecular prevalence, associated risk factors and phylogeny of *Anaplasma marginale*, *Theileria ovis* and *T. lestoquardi* in sheep from Pakistan." *Comparative Immunology, Microbiology and Infectious Diseases*: 101822. (IF.2.729 )
5. Ahmad, N, Hussain SM, Azam SM ,Shahzad M, Noureen A,Yaqoob R, **Latif M** 2022. Effects of Se nanoparticles supplementation on growth performance, hematological parameters and nutrient digestibility of *Labeo rohita* fingerling fed sunflower meal-based diet. *Brazilian journal of biology*" 84. (IF. 1.651)

6. Mustafa S, Bukhari F, Aftab MZ, Asif M, Amjad M, Ijaz M, **Latif M**, Iqbal F 2021. A Missense Mutation in *COL10A1* Gene in a Pakistani Consanguineous Family with Schmid Type Metaphyseal Chondrodysplasia. Pakistan Journal of Zoology. **(IF. 0.68)**
7. Jaleel W, Li Q, Shi Q, Qi G, **Latif M**, Ali S, Yasin NA, Lyu L, He Y 2021. Using GCMS to find out the Volatile Components in the Aroma of Three Different Commercial Fruits in China. The Journal of Animal & Plant Sciences, 31(1):166-174. **(IF. 0.57)**
8. Mustafa S, Akhtar Z, Asif M, Amjad M, Ijaz M, **Latif M**, Hassan M, Faisal M, Iqbal F 2020. Novel missense variants in FGFR1 and FGFR3 causes short stature in enrolled families from Pakistan. Meta Gene
9. Abbas S, Sherazi M, Khan A, Alyami HS, **Latif M**, Qureshi ZUR, Majeedullah, Asad MHHB 2021. Investigation of Plantago *ovata* Husk as Pharmaceutical Excipient for Solid Dosage Form (Orodispersible Tablets) BioMed Research International. <https://doi.org/10.1155/2021/5538075> **(IF. 3.246)**
10. Din MU, Ali A, Yasir M, Jilani MI, Shoaib S, **Latif M**, Ahmad A, Naz S, Aslam F, Iqbal M, Nazir A 2021. Chemical Composition and *in vitro* Evaluation of Cytotoxicity, Antioxidant and Antimicrobial Activities of Essential Oil Extracted from Myristica Fragrans Houtt. Polish Journal of Environmental studies. 30(2):1585-1592 **(IF. 1.871)**
11. Bokhari TH, Bano S, Tanveer M, Khan SG, Hina S, Jilani MI, **Latif M**, Ibrahim SM, Iqbal M, Nazir A 2020. Estimation of Mineral Composition, Antioxidant, Antimicrobial, Biofilm Activity and HPLC Profile of *Halothamnus auriculus*. Polish Journal of Environmental studies. 30(2):1557-1562 **(IF. 1.871)**

12. Wasim M, Mannan A, Ullah K, Yameen MA, **Latif M**, Ahmad T, Ullah M, Amirzada MI, Khan HU, Maheen S, Khan SA, Jamil QA, Asad MHHB, Hussain I 2020. Effect of varying quantities of polymer on preparation and stability evaluation of carbamazepine cocrystals with dicarboxylic acid cofomers. Pakistan Journal of Pharmaceutical sciences. 3(4):1755-1761. **(IF. 0.682)**
  
13. Munir T, **Latif M**, Mahmood A, Malik A, Shafiq F 2020. Influence of IP-injected ZnO-nanoparticles in Catla catla fish:hematological and serological profile. Naunyn-Schmiedeberg's Archives of Pharmacology. **(IF. 3.195)**
  
14. Aslam N, Javed T, Khalid S, Shaheen N, Fatima S, **Latif M**, Afzal M, Afzal S, Abbas K, Yameen MA, Al-Kharaman YMSA, Amirzada MI, McCleary RJR, Rizvanov AA, Asad MHHB 2020. Antiprotease Activity of Indigenous Medicinal Plants against Pakistani *Echis carinatus* Venom. Pharmacognosy Magazine. 16 (69):416-421. **(IF. 0.948)**
  
15. Yasin S, Mustafa S, Ayesha A, **Latif M**, Hassand M, Faisal M, Makitief O, Iqbal F, Naz S 2020. A novel homozygous missense variant in MATN3 causes spondyloepimetaphyseal dysplasia Matrilin 3 type in a consanguineous family. European Journal of Medical Genetics **(IF. 2.465)**
  
16. Mustafa S, Akhtar Z, **Latif M**, Hassan M, Faisal M, Iqbal F 2020. Novel nonsense mutation in NPR2 gene causing Acromesomelic dysplasia, type Maroteaux in a consanguineous family in Southern Punjab (Pakistan). Genes & Genomics. (42):847–854 **(IF. 2.164)**
  
17. Aslam S, Khosa T, Akbar A, **Latif M**, Chaudhary MA, Shaikh SR, Iqbal F 2020. Single nucleotide polymorphism (rs7543472) in EPHA2 gene is associated with age-related cataract in subjects enrolled from Multan in southern Punjab: A case-control study. Journal of Medical Association. (70):583-90 **(IF. 0.642)**

18. Imran M, Javed T, Jabeen A, Mehnaz G, Ullah K, Shaheen N, Khalid S, Amirzada MI, Yameen MA, Hasan FSM, Shah SH, Rauf K, Schenk G, McGeary R, Pieters L, **Latif M**, Al-Kahraman YMSA, Asad MHHB 2020. Synthesis, characterization and docking studies of amide ligands as anti-leishmanial agents Pakistan Journal of Pharmaceutical Science. (33)1(Suppl):385-392. **(IF. 0.863)**
  
19. Akram IA, Akhtar S, Khadija G, Awais MM, **Latif M**, Noreen A, Mobeen M, Sajjad F, Sardar Z, Iqbal S, Ashiq MN, Iqbal F 2020. Synthesis, characterization, and biocompatibility of lanthanum titanate nanoparticles in albino mice in a sex-specific manner. Naunyn-Schmiedeberg's Archives of Pharmacology. (393):1089–1101. **(IF.3.00)**
  
20. Akhtar N, Iqbal S, Shahzad FM, **Latif M**, Iqbal F 2020. Oral supplementation of Ficus religiosa leaf extract adversely affects the selected behavioral aspects of male albino mice. Biologia **(IF.1.653)**
  
21. Jaleel W, Saeed S, Naqqash MN, Sial MU, Ali M, Zaka SM, Sarwar ZM, Ishtiaq M, Qayyum MA, Qurat Ul Aine, Anwar A, Sarmad M, Azad R, **Latif M**, Ahmed F, Islam W, Khan KA, Ghramh HA 2020. Effects of temperature on baseline susceptibility and stability of insecticide resistance against *Plutella xylostella* (Lepidoptera: Plutellidae) in the absence of selection pressure. Saudi Journal of Biological Sciences. (27):1–5 **(IF.4.05)**
  
22. Ahmad MS, Mehmood MA, Luo H, Shen B, **Latif M**, Ghani WAWAK, Alkhatabi NA, Aloqbi AA, Jambi EJ, Gull M, Rashid U 2019. Pyrolysis and Thermogravimetric Study to Elucidate the Bioenergy Potential of Novel Feedstock Produced on Poor Soils While Keeping the Environmental Sustainability Intact. Sustainability (11): 3592 **(IF. 3.251)**

23. Hussain SM, Ahmad N, Rasul A, Shahzad MM, **Latif M**, Arsalan MZUH, Umair M, Shafqat HH 2019. Efficacy of Nano-Cr Particles Supplemented Sunflower Meal Based Diets on Growth Performance, Digestibility and Hematology of *Catla catla* Fingerlings. Pakistan Journal of Zoology. 51(5):1943-1952. **(IF. 0.831)**
  
24. Fatima S, Javed T, Khalid S1, Shaheen N, Aslam N, **Latif M**, Siddique FA, Bibi S, Mohsin S, Yameen MA, Abid SMA, Khan SA, Najam A, Afzal K, Hasan SMF, McCleary JRR, Asad MHHB 2019. Evaluation of different Pakistani medicinal plants for inhibitory potential against *Echis carinatus* induced Phospholipase A2toxicity. Pakistan Journal of Pharmaceutical Science. 32(5): 2269-2277. **(IF. 0.682)**
  
25. Zahra J, Iqbal S, **Latif M**, Ali M, Shad MA, Tabish TH, Ashiq MN, Iqbal F 2017. A note on the Biocompatibility of Zinc oxide Nanoparticles in male albino mice. Nanoscience and Nanotechnology Letters. 9(3): 380-387 **(IF. 1.128)**
  
26. Qamar M, Irfan M, **Latif M**, Ain QA, Aktas M, Shaikh RS, Iqbal F 2017. Molecular Detection and Prevalence of Hepatozoon canis in Dogs from Punjab (Pakistan) and Hematological Profile of Infected Dogs. Vector-borne and Zoonotic Diseases. 17 (3): 179-184. **(IF. 2.133)**
  
27. **Latif M**, Ali M and Iqbal, F 2015. Seasonal Variations in Hematological and Serum Biochemical Profile of Channa marulius are Complementary to the Changes in Water Quality Parameters of River Chenab in Pakistan. Pakistan Journal of Zoology. 47(6). 1699-1707. **(IF 0.831)**
  
28. **Latif M**, Ali M, Iqbal F and Iqbal R 2016. Seasonal Variations in Hematological and serum biochemical profile of Channa



marulius from Indus River in Pakistan. International Journal of Innovative and Applied Research. 4(4): 9-15

29. Tabish MT, Ashiq MN, Ullah MA, Iqbal S, **Latif M**, Ehsan MF, Iqbal F 2016. Biocompatibility of Cobalt Iron Oxide magnetic nanoparticles in male rabbit. The Korean Journal of Chemical Engineering. **(33)**: 2222–2227. **(IF 3.309)**.
30. Hameed H, Faryal M, Aslam MA, Akbar A, Saad AB, Pasha MB, **Latif M**, Shaikh RS, Ali M, Iqbal F 2016. Association of Polymorphisms (rs 1799782, rs25489 and rs25487) in XRCC1 and (rs 13181) XPD genes with Acute Coronary Artery Syndrome in Subjects from Multan, Pakistan. Pakistan Journal of Pharmaceutical Sciences. 29(3):869-76 **(IF 0.682)**.
31. Taqddus A, Saad ABA, Pasha B, **Latif M**, Safdar S, Shaikh RS, Ali M, Iqbal F 2014. Association of Endothelial Nitric Oxide Synthase (eNOS) Gene Polymorphism (Glu 298 Asp) with Coronary Artery Disease in Subjects from Multan (Pakistan). Pakistan Journal of Pharmaceutical Sciences. . 27(2): 357-363. **(IF 0.682)**
32. Zulfiqar S, Shah Nawaz S, Ali M, Bhutta AM, Iqbal S, Hayat S, Qadir S, **Latif M**, Kiran N, Saeed A, Ali M, Iqbal F 2012. Detection of Babesia bovis in blood samples and its effect on the hematological serum biochemical profile in large ruminants from Southern Punjab (Pakistan). Asian Pacific Journal of Tropical Biomedicine. 2(2): 104-108. **(IF 1.545)**
33. Umer, K., Iqbal, F., Iqbal, R., Naeem, M., Qadir, S., **Latif, M.**, Shaikh, R. S. and Ali, M., 2011. Effect of Various Nutrient combination and growth Body Composition of Rohu (Labeo Rohita). African Journal of Biotechnology. 10(62): 13605-13609.

34. Latif, A., Ali, M., Kaoser, R., Iqbal, R., Umer, K., **Latif, M.**, Qadir, S. and Iqbal, F., 2012. Effect of cadmium chloride and ascorbic acid exposure on the vital organs of freshwater Cyprinid, *Labeo rohita*. *African Journal of Biotechnology*. 11(33): 8398-8403.
  35. Tassaduqe, K., Ali, M., Salam, A., **Latif, M.**, Afroz, N., Masood, S. and Umar, S. (2004) Studies on the Chemical Composition and Presentation of Gallstones in Relation to Sex and Age among Human Population of Multan. *Journal of Biological Sciences*. 4(4): 470-473.
  36. Tassaduqe, K., Ali, M., Salam, A., **Latif, M.** and Zahra, T. (2004) Study of the Seasonal Variations in the Physico Chemical and Biological Aspects of Indus River Pakistan. *Pakistan Journal of Biological Sciences*. 6(21): 1795-1801.
  37. Tassaduqe, K., Ali, M., Salam, A., Kanwal, L., Afroz, N., Masood, S., **Latif, M.**, and Umar, S. (2003) Studies on the Chemical Composition and Presentation of Urinary Stones in Relation to Sex and Age Among Human Population of Multan, *Pakistan Journal of Medical Sciences*. 3(5-6): 401-410.
  38. Ali, M., Salam, A., Gohar, S., Tassaduqe, K. and **Latif, M.** (2004) Studies on Fillet Composition of Fresh Water Farmed *Labeo rohita* in Relation to Body Size, Collected from Government Fish Seed Hatchery Mian Channu. *Journal of Biological Sciences*. 4(1): 40-46.
  39. Tassaduqe, K., Ali, M., Salam, A., **Latif, M.**, Afroz, N., Masood, S. and Umar, S. (2004) Hypertension in Relation to Obesity, Smoking, Stress, Family history, Age and Marital Status among Human Population of Multan, *Pakistan Journal Medical Sciences*. 4(1): 30-35.
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## **Certifications/Honors**

- Won SRGP of worth 0.45million PKR by HEC Pakistan
- Received Dr Abdus Salam Gold Medal from Zakarian Association of Zoologist in 2016.
- Won Indigenous 5000 Scholarship by HEC Pakistan of Batch V for PhD studies in 2010.
- National Cadet Corps (N.C.C.) Certificate in 1996.
- 4 Weeks Computer Training Programme

## **Conferences/Trainings**

## **Workshops/Seminars**

### **Seminar Organized**

- Seminar on silent killers Manage well, Live well University of education Multan Campus 09-Feb-2022.
- Seminar on Genetic Insights of Human Dwarfism University of education Multan Campus 16-Dec-2021
- Seminar on Pulmonary disease, University of Education Multan Campus, 2020.
- Tailoring of nanostructure with unique surface chemistry and its application, University of Education Multan Campus, 2020
- Role of creatine monohydrate supplementation in stroke, University of Education Multan Campus, 2020
- Hepatitis, University of Education Faisalabad Campus, 2019
- International symposium on Wild life, University of Education Faisalabad Campus, March 2019
- Seminar on Microalgae, University of Education Faisalabad Campus, 2018

### **Guest Speaker**

- *As Key note Speaker stress management techniques in Academics Student Counseling center university of Education Lahore Multan Campus (18 January, 2022)*
- *As Key note Speaker –New Horizon in the field of Zoology in modern era. Govt Post graduate Emerson College Multan, (29th March, 2019).*
- As Oral speaker in 1st international conference on Applied Zoology, October 2018.

- As Oral speaker in 48<sup>th</sup> Cardiocon, November, 2018.
- International Zoological Congress held in 28th Feb to 2<sup>nd</sup> March 2017 at Government College University Faisalabad, Pakistan.
- 30th Pakistan Congress of Zoology (International). March 2nd-4th, 2010 held at University of Agriculture Faisalabad, Pakistan.
- International Zoological Congress held in 27th Feb to 1st March 2007 at Bahauddin Zakariya University Multan Pakistan.
- Two Days Conference of National Core Group in Life Sciences Held in 15-16 November 2006 at Bahauddin Zakariya University Multan Pakistan.

### **Trainings**

- 8 Days workshops on Capacity building programme by Qasim Ali Shah Foundation 29-Feb-2020 to 25-July-2020.
- 05 Days Virtual Training on Biorisk management 14-December- 20 to 18-December 2020.
- 9 Days workshop -cum- training on Fisheries and Aquaculture 28-october-20 to 6- November-2020 by African Asian Rural Development organization (AARDO)
- 9 Days workshop -cum- training on Advanced Techniques in Fishing and Fish Processing 31-August-21 to 09- September-2021 by African Asian Rural Development organization (AARDO)

### **Administrative Experience**

- Working as **coordinator Zoology department** from 14-10-2019 till date at UE Multan campus.
- Worked as **coordinator Zoology department** from 1-2-2018 of UE Faisalabad campus.
- Worked as **state officer** UE Faisalabad campus from 23-1-2017-30-9-2017
- Worked as **Hostel Superintendent Boys** Hostel UE Faisalabad campus from 1-10-2017 to 31-10-2018.

	<ul style="list-style-type: none"> <li>➤ Worked as <b>Security Focal person</b> UE multan campus from 30-5-2016 to 15-9-2016</li> </ul>
<b>Ph.D Thesis supervised</b>	<ul style="list-style-type: none"> <li>➤ Molecular and genetics insights of human dwarfism in affected families collected from Pakistan</li> </ul>
<b>M.phill Thesis supervised</b>	<ul style="list-style-type: none"> <li>➤ Detection of RUNXI exon 5 alterations in acute myeloid leukemia (AML) patients central punjab, Pakistan.</li> <li>➤ Role of Probiotics (Ecotec) supplementation on the growth performance and nutrient digestibility of <i>Labeo rohita</i> fingerlings fed with linseed meal-based diet.</li> <li>➤ Partial replacement of Fish meal with locally available black seeds (<i>Nigella sativa</i>) for rohu ( <i>Labeo rohita</i>) fingerlings.</li> <li>➤ Effect of Phytase supplemented Moringa based diets on growth performance of Tilapia (<i>Oreochromis niloticus</i>) fingerlings.</li> <li>➤ Effect of shisha smoking on hematological parameters of human.</li> <li>➤ Molecular detection of various vector borne blood parasites in African Lion (<i>Panthera leo</i>): A pioneer study in Pakistan.</li> <li>➤ Effect of variable doses of Neodymium zirconate and zinc sulphate on antioxidant profile of selected vital organs of male albino mice</li> </ul>
<b>MSc Thesis supervised</b>	<ul style="list-style-type: none"> <li>➤ Effect of Short-Term Exposure of Imidacloprid on the Hematology and Selected Parameters of Serum Biochemistry in Genetically Improved Tilapia (<i>Oreochromis niloticus</i>).</li> <li>➤ Comparison of Hematological Changes Caused by Various Sub-lethal Doses of Imidacloprid in Genetically Improved Tilapia (<i>Oreochromis niloticus</i>).</li> <li>➤ Comparative Evaluation of Selected Metals in the Blood Serum of Head and Neck Cancer Patients</li> <li>➤ Assessment of Selected Metals in the Nails of Breast Cancer Patients</li> </ul>

- Comparative Evaluation of Selected Metals, TSH, FT<sub>4</sub>, FT<sub>3</sub> and PTH in the Blood Serum of Hypothyroid Patients With Thyroid Cancer
- Efficacy of Chicken Feathers Digested by Bacillus sp. to Promote Pea Growth Activity
- Efficacy of Chicken Feathers Digested by Chryseobacterium sp. to Promote Pea Growth Activity
- Effect of Sublethal Doses of Zinc Oxide Nanoparticles on Liver Histology of Thaila (*Catla catla*).
- Evaluation of Zinc Oxide Nanoparticles on Blood Biochemistry of Thaila (*Catla catla*) by Intraperitoneal Injection
- Growth Performance of Thaila (*Catla catla*) Following exposure to Zinc Oxide Nanoparticles.

### Hobbies & Interests

- Exploration of new software's and technologies
- Improvement in experimental, communicational and intellectual skills at deep level.
- Designing new experiments.
- Internet browsing and surfing.
- Nature loving, book reading.

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### REFERENCES

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