

CURRICULUM VITAE

MUHAMMAD ASIM

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Personal information:

- Domicile : Swabi (K.P.K)
- Date of Birth : 11th April 1989
- Nationality : Pakistani
- NIC# : 16202-5727887-9
- Passport # : DZ1858871
- Marital status : Single

Objectives:

- *Seeking challenging and responsible position where my education, ability, potentials can be fully and effectively utilized with opportunities of growth, enhancement of knowledge and to serve in building the nation.*
- *To find place in an organization of repute and class that would provide me with the opportunity to fulfill my goals.*

Educational Profile:

- **PhD Aquaculture (86.8%)**
2016- 2019. College of Fisheries, Huazhong Agricultural University, China)
Thesis Title: *Functional Characterization of Cyclophilin A during Red spotted Grouper Nervous Necrosis Virus (RGNNV) infection*
Supervisor: Prof Dr Jianguo Su
- **MS Aquaculture (83.5%)**
2013-2016. College of Fisheries, Huazhong Agricultural University, China)
Thesis Title: *Effects of Glutamine on Redspotted Grouper Nervous Necrosis virus (RGNNV) replication*
Supervisor: Prof Dr Li Lin
- **MSc Zoology (3.4 cGPA)**
2009-2011. Department of Zoology, Abdul Wali Khan University Mardan (AWKUM), Pakistan

- **BSc Biological Sciences (53.27 %)**
2007-2009. Government Degree College No 2 Mardan, University of Peshawar, Pakistan.
- **FSc Pre-Medical (66.90%)**
2005-2007. Government Degree College No 2 Mardan, BISE Mardan.
- **SSc Science (67.80%)**
2005. Government High School Kalu khan Swabi, BISE Mardan.
- **Bachelor of Education (B. Ed) Science (72.50 %)**
2012-2013. Sarhad University of Science & Information Technology, Peshawar.

Subjects studied:

- *Applied Microbiology*
- *Bioinformatics*
- *Biostatistics*
- *Fish Disease Management*
- *Evolution and Systematics*
- *Biotechnology*
- *Cell & Molecular Biology*
- *Modern Parasitology*
- *Endocrinology*
- *Disease Pathology*
- *Biochemistry*
- *Fish biology*
- *Advances in aquaculture*
- *Aquaculture Immunology*

Research Interests:

- Zoology, Aquaculture, Virology & Molecular Biology

Research skills and techniques:

- *Bioinformatics related softwares*
- *Statistics related softwares*
- *Working in BSL-2 & BSL-3 lab*
- *Primer designing*
- *Sequence & Phylogenetic analysis*
- *Gene Cloning*
- *RT-PCR & qRT-PCR*

- *Gel Electrophoresis & Gel Extraction*
- *Bacterial transformation*
- *Plasmid construction*
- *RNA Silencing*
- *Cell Culture, Cell infection and MTS analysis for Cell proliferation*
- *SDS-PAGE & Western Blotting*
- *Immune Fluorescence Assay (IFA)*

Publications:

1. **Muhammad Asim**, V. Sarath Babu, Zhendong Qin, Lijuan Zhao, Jianguo Su, Jun Li, Jiagang Tu, Hongyan Kou, Li Lin. Inhibition of Cyclophilin A on the replication of red spotted grouper nervous necrosis virus associates with multiple pro-inflammatory factors. *Fish Shellfish Immunol.* 92 (2019) 172–180 (IF: 3.2)
2. **Muhammad Asim**, Sanjie Jiang, Lizhu Yi, Wenjie Chen, Lindan Sun, Lijuan Zhao, Muhammad Nasir Khan Khattak, Jiagang Tu, Li Lin, Glutamine is required for red-spotted grouper nervous necrosis virus replication via replenishing the tricarboxylic acid cycle, *Virus Research*, 2017, 227, 245 (IF: 2.5)
3. **Muhammad Asim**, Jianguo Su, Lin Li. Cyclosporine A inhibits Red Spotted Grouper Nervous Necrosis Virus (RGNNV) replication at the late step of viral life cycle. (Manuscript).
4. Feifei Zheng, **Muhammad Asim**, Jiangfeng Lan, Lijuan Zhao, Shun Wei, Nan Chen, Xiaoling Liu, Yang Zhou & Li Lin, Molecular Cloning and Functional Characterization of Mannose Receptor in Zebrafish (*Danio rerio*) during Infection with *Aeromonas sobria*. *Int. J. Mol. Sci.* 2015, 16, 10997-11012; (IF: 3.2).
5. Wenwen Wang, **Muhammad Asim**, Lizhu Yi, Abeer M. Hegazy, Xianqin Hu, Yang Zhou, Taoshan Ai & Li Lin, Abortive Infection of Snakehead Fish Vesiculovirus in ZF4 Cells Was Associated with the RLRs Pathway Activation by Viral Replicative Intermediates. *Int. J. Mol. Sci.* 2015, 16, 6235-6250; (IF: 3.2).
6. Zhendong Qin, V. Sarath Babu, Quanyuan Wan, Meng Zhou, Risheng Liang, **Muhammad Asim**, Lijuan Zhao, Jun Li, Jiangfeng Lan, Li Lin Transcriptome analysis of Pacific white shrimp (*Litopenaeus vannamei*) challenged by *Vibrio parahaemolyticus* reveals unique immune-related genes.. *Fish Shellfish Immunol.* 77 (2018) 164–174 (IF: 3.2)
7. Wenjie Chen, Lizhu Yi, Shuangshuang Feng, Xiaodan Liu, **Muhammad Asim**, Yongcan Zhou, Jiangfeng Lan, Sanjie Jiang, Jiagang Tu, Li Lin, Transcriptomic profiles of striped snakehead fish cells (SSN-1) infected with red-spotted grouper nervous necrosis virus (RGNNV) with an emphasis on apoptosis pathway, *Fish Shellfish Immunol.* 2017, 60, 346 (IF: 3.0)
8. Xingxing Dong, Zhendong Qin, Xianqin Hu, Jiangfeng Lan, Gailing Yuan, **Muhammad Asim**, Yang Zhou, Taoshan Ai, Jie Mei & Li Lin, Molecular cloning and functional characterization of cyclophilin A in yellow catfish (*Pelteobagrus fulvidraco*). *Fish Shellfish Immunol.* 45 (2015) 422-430 (IF: 3.0)

9. Weidong Zhou, Yulei Zhang, Yi Wend, Wei Ji, Yang Zhou, Yachan Ji, Xiaoling Liu, Weimin Wang, **Muhammad Asim**, Xufang Liang, Taoshan Ai, Li Lin, Analysis of the transcriptomic profilings of Mandarin fish (*Siniperca chuatsi*) infected with *Flavobacterium columnare* with an emphasis on immune responses. Fish Shellfish Immunol. (2015); 43(1):111-9. (IF: 3.0)
10. Guangxin Liu, Zeming Li, Peixiao Luo, Liyue Liu, Junfa Yuan, Yang Zhou, **Muhammad Asim**, Xueqin Liua & Li Lin, Low-cost, specific and sensitive detection of infectious spleen and kidney necrosis virus by loop-mediated isothermal amplification. J Aqua Cult. (2014), Vol 1, Issue 1: 003
11. Liyue Liu, Bibo Zhu, Shusheng Wu, Li Lin, Guangxin Liu, Yang Zhou, Weimin Wang, **Muhammad Asim**, Junfa Yuan, Lijuan Li, Min Wang, Yuanan Lu, Huanling Wang, Jianbo Cao & Xueqin Liu, Spring viraemia of carp virus induces autophagy for necessary viral replication. Cell Microbiol. 2015;17(4):595-605. (IF: 4.8)
12. Xiaoling Liu, Xiaocheng Tang, Li Wang, Jie Li, Hong Wang, Shun Wei, Rui Fang, Wei Ji, Gailing Yuan, Nan Chen, Zemao Gu, Xueqin Liu, Weimin Wang, **Muhammad Asim**, Yang Zhou & Li Lin, Molecular cloning and expression analysis of mannose receptor in blunt snout bream (*Megalobrama amblycephala*). Mol Biol Rep. (2014); 41(7): 4601-11 (IF: 1.9)
13. Li Wang, Lichun Liu, Yang Zhou, Xiaoheng Zhao, Mingjun Xi, Shun Wei, Rui Fang, Wei Ji, Nan Chen, Zemao Gu, Xueqin Liu, Weimin Wang, **Muhammad Asim**, Xiaoling Liu & Li Lin, Molecular cloning and expression analysis of mannose receptor C type 1 in grass carp (*Ctenopharyngodon idella*). Dev Comp Immunol. (2014); 43(1):54-8. (IF:3.2)
14. Liu XD, Huang JN, Weng SP, Hu XQ, Chen WJ, Qin ZD, Dong XX, Liu XL, Zhou Y, **Asim M**, Wang WM, He JG, Lin L, Infections of nervous necrosis virus in wild and cage-reared marine fish from South China Sea with unexpected wide host ranges. J Fish Dis. (2015) 38(6):533-40 (IF:2.0)
15. W J Xu Z D Qin H Shi N Jiang Y Zhou X L Liu J J Xie G S Wang W M Wang M Asim L B Zeng L Lin. Mass mortality associated with a viral-induced anaemia in cage-reared large yellow croaker, *Larimichthys crocea* (Richardson). J Fish Dis. (2015) 38(5):499-502 (IF:2.0)
16. Lichun Liu, Yang Zhou, Xiaoheng Zhao, Hong Wang, Li Wang, Gailing Yuan, **Muhammad Asim**, Weimin Wang, Lingbing Zeng, Xiaoling Liu, Li Lin, Oligochitosan stimulated phagocytic activity of macrophages from blunt snout bream (*Megalobrama amblycephala*) associated with respiratory burst coupled with nitric oxide production. Dev Comp Immunol. (2014) 47(1):17-24 (IF: 3.6)

Honors and Professional Membership:

- Winner of Huazhong Agricultural University Scholarship for PhD in Aquaculture (2016-2019)
- Winner of Chinese Government Scholarship for MS Aquaculture Sciences (2013- 2016).
- Member of World Society for Virology (WSV)
- Member of American Fisheries Society (AFS)

Conference and seminars attended:

- Attended 3 days “*International workshop on Fundamental techniques in Viral diseases diagnostics*” organized by Comstech Secretariat Islamabad.
- Attended “*Comstech webinar on pandemic lessons for science communication*” organized by Comstech Secretariat Islamabad.
- Attended “*Comstech webinar on Innovation policy for OIC states*” organized by Comstech Secretariat Islamabad.
- Attended “*Hands-on Training Workshop on Scientific Research Tools*” Organized by Department of scientific research and development, international college, HZAU, Wuhan, PR China.
- Attended 33rd *International congress of Zoology* organized by Zoological Society of Pakistan at Islamabad.
- Attended National seminar on “*Emerging trends & prospects in Fisheries Management*” organized by Fisheries Department Punjab at Chashma Reservoir, Punjab.

Experience:

- As Research officer at National Institute of Virology, International Center for Biological and Chemical Sciences, University of Karachi.
- As Lecturer of Zoology in Islamia Science College, Shewa adda, Swabi (2011- 2012).

Languages:

- English, Urdu, Pashto, Chinese.

References

- **Dr Lin Li**
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- **Dr Jianguo Su**
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