



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 5318

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di Scienze Farmacologiche e Biomolecolari

Scientist- in - charge: Prof.ssa Alessandra Polissi

[IJAZ AHMAD]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	AHMAD
Name	IJAZ
Date of birth	[26, 07, 1982]

PRESENT OCCUPATION

Appointment	Structure
May 2011 till date (Assistant Professor)	Teaching and Research

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
PhD	Pharmacology and Microbiology	Huazhong Agricultural University Wuhan, China	2016
Master	Bacteriology, Virology and Immunology	Uppsala University, Sweden	2013
Master	Pharmacology	Sindh Agricultural University Tandojam, Pakistan	2008
Degree of medical specialization	NA	NA	NA
Degree of European specialization	NA	NA	NA
Other (Doctor of Veterinary Medicine)	Veterinary Medicine Pharmacology, Microbiology, Parasitology,	Sindh Agricultural University Tandojam, Pakistan	2005



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
2016-2022	Member of "American Society of Microbiology"	Washington, DC USA
2016	International Society of anti-infective Pharmacology (ISAP)	Wisconsin, USA
2017	International Society of Infectious diseases (ISID).	Brookline, USA
2009	Member of Pakistan Veterinary medical council	Islamabad

FOREIGN LANGUAGES

Languages	level of knowledge
English	Excellent
Urdu	Excellent
Pashto	Excellent
Chinese	Beginner

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2016	Research Contribution Award from Huazhong Agricultural University Wuhan China
2012	Chinese Government Scholarship for PhD degree
2008	Winner of Quid-e-Azam Aligarh scholarship during M.S degree program.
2001	Scholarship holder and merit winner throughout DVM degree program.

TRAINING OR RESEARCH ACTIVITY

Activities in Year 2021:

Key note Speaker:

6th virtual journal club "Microbiology and antimicrobial resistance" arranged by National Institute of Health, Islamabad, May 19, 2021.

Training

- 1- Successfully completed COMSTECH-ICCBS online Certificate Course entitled, "***Optimum use of Analytical and Preparative HPLCs***", Organized by COMSTECH Secretariat, Islamabad, Pakistan in Collaboration with International Centre for Chemical and Biological Sciences, University of Karachi, Pakistan, during March 11-12, 2021.
- 2- Completed An Advance Training Course on "***How to Establish Halal Products testing Laboratory***" arranged by OIC Ministerial Standing Committee on Scientific and Technological Cooperation in COMSTECH, Islamabad, Pakistan during June 8-10, 2021.
- 3- Participated in Webinar entitled "***Trends of antimicrobials sales at national and provincial level***". In November 18, 2021.
- 4- Participation in one day hands on "***Ultrasonography training in dairy cattle***" organized at college of



veterinary sciences, the University of Agriculture, Peshawar dated January 06, 2022.

Reviewer of Journal:

Frontier in Veterinary Sciences
Journal of Herbal Medicine
Journal of Pharmaceutical Research International

Activities in Year 2020:

Lists of Grants:

Completed Project as a CO-PI:

- 1- Title: Molecular characterization of *Mycoplasma capricolum* subsp. *capripneumoniae* *Pakistan* strain for the establishment of effective diagnostics and vaccines under PAK-US Project (20.4 million).

Ongoing Project as a PI:

- 1- Funding from HEC under NRPU "Effect of different dosage of Enrofloxacin on clinical efficacy and resistance development against fowl typhoid. (3.9 million)

Project Submitted:

1- Project submitted to Higher education Commission Islamabad and World Bank

Title: Establishment of Regional Center for Determination and Screening of Drug Residues in Food Commodities at University of Haripur (60 Million PKR).

2- Project submitted to Higher education Commission Islamabad and World Bank

Title: Development of phytogenic prebiotics to produce economical, safe and health poultry products (10.6 million).

Seminar organizer:

- 1- Seminar organized on "Novel Corona Virus Emergence, Threats and Prevention" held on 27th February, 2020 at The University of Agriculture Peshawar, Pakistan.

Participation in Workshop:

- 1- Training on online classes in The University of Agriculture Peshawar from (May 2020).

Reviewer of Journal:

Microbial Pathogenesis
Plos One
Journal of Herbal Medicine

Activities in Year 2019:

Trainings

- 1- Training on Biorisk Management in The University of Agriculture Peshawar from (October 31 to November 01, 2019) in collaboration with Health Security Partner.
- 2- Workshop on "acupuncture use in veterinary" held on 17 January 2019 in The University of Agriculture Peshawar.
- 3- Workshop on "Integration of ICT in Agriculture and Applied Research" held on 21st February 2019 at the University of Agriculture Peshawar

Participation in Workshop:

- 1- Biological waste management held in Islamabad.



2- Biosafety

3- HULTZ PRIZE (Leading A Generation to Change the World) on 22 November at the University of Agriculture Peshawar

Presentation in Conference:

4th International Conference on Agriculture, Food and Animal Sciences held on January 21-22, 2019 organized by Sindh Agriculture University, Tandojam and Higher Education Commission, Islamabad, Pakistan.

Conference Organized:

As a organizer in the conference on “Microbiology Infectious Diseases and Health Safety” held from April 4- 5, 2019 in the University of Swabi.

Reviewer of Journal:

Microbial Pathogenesis



PROJECT ACTIVITY

Year	Project
2008	Master degree project title: "Diclofenac Induced effects in Goat"
2011	Master degree project (5 months experience in Project) title: " Shielding of biomaterials and transplant organ from innate immunity"
2012-2016	PhD Degree Project title: "Pharmacokinetic-Pharmacodynamic Modeling for Cefquinome against Staphylococcus aureus Causing Septicemia in Cattle"
2018-2019	Principal Investigator of project title: "In vitro Pharmacodynamics study of Enrofloxacin against local isolates of Escherichia Coli"
2018-2020	Principal Investigator of project title: "Effect of different dosage of Enrofloxacin on clinical efficacy and resistance development against fowl typhoid."
2017-2020	Co-Principal Investigator of project title: Title: Molecular characterization of Mycoplasma capricolum subsp. capripneumoniae Pakistan strain for the establishment of effective diagnostics and vaccines under PAK-US Project.

PATENTS

Patent

CONGRESSES AND SEMINARS

Date	Title	Place
21 to 23 November 2011	Organizer in the "International Workshop on Dairy Science Park"	The University of Agriculture Peshawar, Pakistan
24-28 April, 2018	Participation in the Master trainer workshop on (Bio Prism Laboratory Safety Training Initiative Program)	Margala Hotel Islamabad organised by Pakistan Biological Safety Association and National Institute of Health USA
26 Decemeber 2018	Presentation: As Resource Person in Training Workshop on "Developing a Winning Research Proposal"	The University of Agriculture Peshawar, Pakistan
29-31 July, 2019	Certificate of Completion "Bio-Waste Management workshop"	COMSTECH Secreteriat, Islamabad.Pakistan
January 21-22, 2019	Presentation: 4 th International Conference on Agriculture, Food and Animal Sciences "Development of HPLC medthod for the determination of Cefquinome"	Sindh Agriculture University, Tandojam and Higher Education Commission, Islamabad, Pakistan
21th February 2019	Organizer: Workshop on "Integration of ICT in Agriculture and Applied Research"	The University of Agriculture Peshawar, Pakistan
October 31 to November 01, 2019	Organizer "Training on Biorisk Management"	The University of Agriculture Peshawar, Pakistan in collaboration with Health Security Partner.



22 nd November, 2019	Participation as a Judge at “Hult Prize the University of Agriculture Peshawar, Pakistan”	The University of Agriculture Peshawar, Pakistan
27 th February, 2020	Seminar organized on “Novel Corona Virus Emergence, Threats and Prevention”	The University of Agriculture Peshawar, Pakistan
April 4- 5, 2019	Organizer of National conference on “Microbiology Infectious Diseases and Health Safety”	University of Swabi, Pakistan



PUBLICATIONS

Books
Book Chapter: In book: Fighting Antimicrobial Resistance Title: PK/PD for prediction and contain of antimicrobial resistance Authors: Abdul Sajid, Saeed Ahmed, Muhammad ABU Bakr Shabbir, Muhammad Kashif Maan, Ijaz Ahmed, Li Jun, Zonghui Yuan and Haihong Hao DOI: 10.5599/obp.15.10
Articles in reviews
Review Papers (Full-Length Review Papers in Professional Referred <i>International Journals</i>).
1. Ahmed S, Ning J, Cheng G, Ahmad I , Li J, Mingyue L, Qu W, Iqbal M, Shabbir MA, Yuan Z (2017). Receptor-based screening assays for the detection of antibiotics residues - A review. <i>Talanta</i> , 1(166):176-186. Impact Factor: 4.07 Number of Citations: 21
2. Ahmad I , Lingli Huang, Haihong Hao, Pascal Sanders, Zonghui Yuan: Application of PK/PD Modeling in Veterinary Field: Dose Optimization and Drug Resistance Prediction (2016). <i>BioMed Research International</i> , 2016(8): 5465678. Impact Factor: 2.134 Number of Citations: 25
Research Papers Publications
<u>Research Publications in impact factor journals (2022)</u>
1. Ijaz Ahmad , Haihong Hao, Zafar Iqbal, Pascal Sanders, Saeed Ahmed, Lingli Huang, Zonghui Yuan. New HPLC Method for Determination of Cefquinome in Cattle Plasma and its Application for Pharmacokinetic Study. <i>Pakistan Journal of Zoology</i> (accepted). 2022
<u>Research Publications in impact factor journals (2021)</u>
1- Mumtazur Rahman, Farhan Anwar Khan, Umar Sadique, Ijaz Ahmad , Shakoor Ahmad, Faisal Ahmad, Hayatullah Khan, Muhammad Saeed, Faiz Ur Rehman, Ibrar Hussain, M. Faraz Khan, M. Izhar ul Haque and Hanif-ur-Rehman. In-vitro Susceptibility of <i>Mycoplasma capricolum</i> Subsp. <i>capripneumoniae</i> Pakistan Strain to Commercially Available Quinolones. <i>Pakistan J. Zool.</i> , pp 1-7, 2021 (0.28). 2- Zahir Shah, Shakoor Ahmad, Ijaz Ahmad , Taif Shah, Farhan Anwar Khan, Haq Amanullah. Antinociceptive, physiologic and biochemical effects of electroacupuncture combined with xylazine in hybrid goats. <i>Vet Anaesth Analg</i> 2021 Sep;48(5):671-678. doi: 10.1016/j.vaa.2021.06.014.
<u>Research Publications in impact factor journals (2020)</u>
3. Muqadar Shah, Hafsa Zaneb, Saima Masood, Anas Sarwar Qureshi, Haq Aman Ullah, Arbab Sikandar, Salahud Din, Ijaz Ahmad, Muhammad Shoaib Khan, Habib Ur Rehman, Muhammad Usman. Effect of single or combined supplementation of zinc and probiotics on muscle and bone characteristics and haematobiochemical profile in broilers. <i>Veterinari Medicina</i> , 65, 2020 (03): 134–142. (0.66) 4. Fang Wang, Kun Mi, Ijaz Ahmad, Shuyu Xie, Hafiz Iftikhar Hussain, Zonghui Yuan, Menghong Dai, Lingli Huang, Antibacterial activity of cyadox against <i>Clostridium perfringens</i> in broilers and a dosage regimen design based on pharmacokinetic-pharmacodynamic modeling. <i>Microbial Pathogenesis</i> , Volume 141, April 2020, 103981. (2.914) 5. Saeed Ahmed, Jianan Ning, Dapeng Peng, Ting Chen, Ijaz Ahmad, Aashaq Ali, Zhixin Lei,



Muhammad Abu bakr Shabbir, Guyue Cheng & Zonghui Yuan (2020) Current advances in immunoassays for the detection of antibiotics residues: a review, Food and Agricultural Immunology, 31:1, 268-290, DOI: 10.1080/09540105.2019.1707171. (2.398)

6. Faisal Ahmad, Hayatullah Khan, Farhan Anwar Khan, Bryan D. Carson, Umar Sadique, Ijaz Ahmad, Muhammad Saeed, Faiz Ur Rehman, Hanif Ur Rehman. The first isolation and molecular characterization of Mycoplasma capricolum subsp. capripneumoniae Pakistan strain: A causative agent of contagious caprine pleuropneumonia. Journal of Microbiology, Immunology and Infection. <https://doi.org/10.1016/j.jmii.2020.06.002>. (3.943)
7. Muhammad Ishfaq., Wanying Hu., Mohammad Zeb Khan., Ijaz Ahmad., Wenxin Guo., Jichang Li 2020. Current Status of Vaccine Research, Development and Challenges of Vaccines for Mycoplasma gallisepticum. Poultry Science <https://doi.org/10.1016/j.psj.2020.06.014>. (1.24)

2. **Research Publications in impact factor journals (2019)**

8. Muhammad Ishfaq, Wei Zhang, Wanying Hu, Syed Waqas Ali Shah, Yuhao Liu, Jian Wang, Zhiyong Wu, **Ijaz Ahmad**, Jichang Li (2019). Antagonistic Effects of Baicalin on Mycoplasma gallisepticum-Induced Inflammation and Apoptosis by Restoring Energy Metabolism in the Chicken Lungs. Infection and Drug Resistance, Volume 2019: 3075—3089 (IF: 1.47).
9. Tasbihullah, Sadeeq ur Rahman, Tariq Ali, Umer Saddique, Shakoor Ahmad, Muhammad Shafiq, Sultan Ayaz, Hamayun Khan, **Ijaz Ahmad**, Asadullah, Raheela Taj, Hafiz Nidaullah and Alamgir Khan (2019). High Occurrence Rate of Multidrug-Resistant ESBL-Producing E. coli Recovered from Table Eggs in District Peshawar, Pakistan. Pakistan Journal of Zoology, vol. 50(0) (IF: 0.79).
10. Khan H, Khan FA, Sadique U, Ahmad S, Hassan ZU, Ahmad F, Shah M, **Ahmad I**, Shah Z, Rehman ZU (2019). Genotoxic and toxicopathological effect of aflatoxin B1 in grass carp (Ctenopharyngodon idella). Kafkas Univ Vet Fak Derg, (Article in Press). DOI: 10.9775/kvfd.2019.21988 (0.458).
11. Saeed AHMED, **Ijaz AHMAD**, Shakoor AHMAD, Zahir SHAH, Muqadar SHAH, Farhan Anwar KHAN, Ijaz AHMAD. Analysis of Pilus Biogenesis Genes in Bacteria Expressing Type IV Pili. Journal of the Faculty of Veterinary Medicine, Kafkas University (2019).

Research Publications in impact factor journals (2018)

12. Lingli Huang, Haiyang Zhang, Mei Li, Ijaz Ahmad, Yulian Wang and Zonghui Yuan. Pharmacokinetics-pharmacodynamics modelling of tylosin against streptococcus suis in pigs. BMC Veterinary Research (2018) 14:319. (IF: 2)
13. Ahmed S, Ahmad I, Ahmad S, Shah Z, Shah M, Khan FA, Ahmad I: Analysis of pilus biogenesis genes in bacteria expressing type IV pili. Kafkas Univ Vet Fak Derg, 25 (1): 125-128, 2019. (IF: 0.45).

Book Chapter Published:

- 1- PK/PD for prediction and contain of antimicrobial resistance (July 2018). In book: Fighting Antimicrobial Resistance. DOI: 10.5599/obp.15.10, pp.371-388

Research Publications in impact factor journals before (2018)

12. Peng Zhang, Haihong Hao, Jun Li, **Ijaz Ahmad**, Guyue Cheng, Dongmei Chen, Yanfei Tao, Lingli Huang, Yulian Wang, Menghong Dai, Zhenli Liu, Zonghui Yuan: The Epidemiologic and Pharmacodynamic Cutoff Values of Tilmicosin against Haemophilus parasuis. Frontiers in Microbiology 03/2016; 7(108). DOI:10.3389/fmicb.2016.00385 (IF: 4.16).



<p>13. Liye Wang, Lingli Huang, Yuanhu Pan, Kamil Kuča, Blanka Klímová, Qinghua Wu, Shuyu Xie, Ijaz Ahmad, Dongmei Chen, Yanfei Tao, Dan Wan, Zhenli Liu, Zonghui Yuan: Metabolism and Disposition of Aditoprin in Swine, Broilers, Carp and Rats. <i>Scientific Reports</i> 02/2016; 6:20370. DOI:10.1038/srep20370 (IF: 5.22).</p>
<p>14. Sher Ali Khan, Peiyuan Zhou, Xiaoyu Liu, Hong Li, Jingna Li, Zia Ur Rehman, Ijaz Ahmad: Response of vitamins A, E, hematological and serum biochemical markers in Crucian carp (<i>Carassius auratus gibelio</i>) exposed to environmental Pb(2+) and Cd(2+). <i>Acta biochimica Polonica</i> 09/2015; 62(3). DOI:10.18388/abp.2015_1036 (IF: 1.18).</p>
<p>15. Dan Wan, Xu Wang, Qinghua Wu, Pingping Lin, Yuanhu Pan, Adeel Sattar, Lingli Huang, Ijaz Ahmad, Yuanyuan Zhang, Zonghui Yuan: Integrated Transcriptional and Proteomic Analysis of Growth Hormone Suppression Mediated by Trichothecene T-2 Toxin in Rat GH3 Cells. <i>Toxicological Sciences</i> 07/2015; 147(2). DOI:10.1093/toxsci/kfv131 (IF: 3.88).</p>
<p>16. Kuang X, Hao H, Dai M, Wang Y, Ahmad I, Liu Z, Zonghui Y. Serotypes and antimicrobial susceptibility of <i>Salmonella</i> spp. isolated from farm animals in China. <i>Frontiers in Microbiology</i> 06/2015; 6. DOI:10.3389/fmicb.2015.00602 (IF: 4.16)</p>
<p>17. Ahmad I, Hao H, Huang L, Sanders P, Wang X, Chen D, Tao Y, Xie S, Xiuhua K, Li J, Dan W and Yuan Z (2015) Integration of PK/PD for dose optimization of Cefquinome against <i>Staphylococcus aureus</i> causing septicemia in cattle. <i>Front. Microbiol.</i> 6:588. doi: 10.3389/fmicb.2015.00588 (IF: 4.16).</p>
<p>18. Hao H, Liu J, Kuang X, Dai M, Cheng G, Wang X, Peng D, Huang L, Ahmad I, Ren N, Liu Z, Wang Y, Yuan Z. Identification of <i>Campylobacter jejuni</i> and determination of point mutations associated with macrolide resistance using a multiplex TaqMan MGB real-time PCR. <i>J Appl Microbiol.</i> 2015 Jun;118(6):1418-25. doi: 10.1111/jam.12793. Epub 2015 Apr 14.(IF: 2.15).</p>
<p>19. Juan Li, Lingli Huang, Yuanhu Pan, Dongmei Chen, Xu Wang, Ijaz Ahmad, Yanfei Tao, Zhenli Liu, Zonghui Yuan: Tissue Depletion of Quinocetone and Its Five Major Metabolites in Pigs, Broilers, and Carp Fed Quinocetone Premix. <i>Journal of Agricultural and Food Chemistry</i> 10/2014; DOI:10.1021/jf5042867 (IF: 3.10).</p>
<p>20. Haihong Hao, Huafang Pan, Ijaz Ahmad, Guyue Cheng, Yulian Wang, Menghong Dai, Yanfei Tao, Dongmei Chen, Dapeng Peng, Zhenli Liu, Lingli Huang, Zonghui Yuan: Susceptibility Breakpoint of Enrofloxacin against Swine <i>Salmonella</i> spp.. <i>Journal of clinical microbiology</i> 06/2013; 51(9). DOI:10.1128/JCM.01096-13 (IF: 3.63).</p>
<p>21. Khan, S. B., U. Sadique, F. A. Khan, I. Ahmad, Z. U. Rehman, M. A. Khan, M. Idrees and Z. Shah 2013. Factors affecting efficacy and immunological response against Peste des petites</p>



ruminants (PPR) vaccines in small ruminants. The Journal of Animal and Plant Sciences, 23(1 Suppl.): 43-46. (IF: 0.638)
22. Ahmad, I. , T. A. Qureshi, U. Sadique, S. A. Khan, S. Ahmed, Z. U. Rehman, S. Bahadar and M. Mushtaq 2013. Hematological effects of Diclofenac sodium in Goats. The Journal of Animal and Plant Sciences, 23(1 Suppl.): 103-107. (IF: 0.638).
23. Shah, Z., A. B. Kalhore, A. B. Kachiwal, I. Ahmad , H. Sattar, M. A. Khan, Z. U. Rehman, F. A. Khan, T. Hussain, H. A. Ullah 2013. Comparative studies on sedative and analgesic effects of xylazine and Detomidine in goats. The Journal of Animal and Plant Sciences, 23(1 Suppl.): 39-42. (IF: 0.638)
24. Ahmad, I. , T. A. Qureshi, F. A. Khan, S. A. K. Mughal, U. Sadique, Z. Shah, S. Khan, Z. U. Hassan 2012. Evaluation of biochemical effects of Diclofenac sodium in goats. The Journal of Animal and Plant Sciences, 22(2 Suppl.): 1-4. (IF: 0.638)
25. Khan, S.A., T. Hussain, M. A. Qureshi, G. Ahmed, S. A. Fazlani, I. Ahmed and F. A. Khan 2011. Evaluation of serological response of chicks against Angara disease agent through indirect haemagglutination test. African Journal of Microbiology Research Vol. 5(23). pp. 3991-3993. (IF: 0.539)
26. Khan, S.A., G. Ahmed, T. Hussain, S. A. Fazlani, I. Ahmad and F. A. Khan 2011. In vivo pathogenicity of hydropericardium hepatitis syndrome (Angara disease). African Journal of Biotechnology Vol. 10(62), pp. 13664-13671. (IF: 0.57).
27. Khan, F. A., Z. I. Chaudhry, M. I. Ali, S. Khan, N. Mumtaz & I. Ahmad 2009. Detection of Mycobacterium avium subsp. Paratuberculosis in tissue samples of cattle and buffaloes. Trop Anim Health Prod. 42: 633-638. (IF: 1.115).

Congress proceedings

Proceedings of the International Workshop on "Dairy Science Park" November 21-23, 2011 Peshawar, Pakistan.

1. **Ahmad, I.**, T. A. Qureshi, F. A. Khan, S. A. K. Mughal, U. Sadique, Z. Shah, S. Khan, Z. U. Hassan 2012. Evaluation of biochemical effects of Diclofenac sodium in goats. The Journal of Animal and Plant Sciences, 22(2): 1-4. Impact Factor: 0.638
Number of Citations: 3
2. **Ahmad, I.**, T. A. Qureshi, U. Sadique, S. A. Khan, S. Ahmed, Z. U. Rehman, S. Bahadar and M. Mushtaq 2013. Hematological effects of Diclofenac sodium in Goats. The Journal of Animal and Plant Sciences, 23(1 Suppl.): 103-107. Impact Factor: 0.638
Number of Citations: 7

OTHER INFORMATION

Served as a Director Advanced studies and Research (DASAR) nominee in several board of studies.

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: Peshawar Pakistan, 07/05/2022

SIGNATURE