



Lasbela University

of Agriculture, Water & Marine Sciences

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Name:	Dr. Muhammad Altaf Hussain		
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Research Area:	Meat product and Pathogenic Bacteria		
QUALIFICATION			
DEGREE	PASSING YEAR	MAJORS	UNIVERSITY
Doctor OF Veterinary Medicine (DVM)	2007	Science	Sindh Agriculture Tandojam
M.Phil. Veterinary Microbiology	2010	Science	Sindh Agriculture Tandojam
PhD Animal Product Processing Engineering (Technology)	2020	Science	Northeast Agriculture university China
PUBLICATIONS (NATIONAL/INTERNATIONAL)			
<ol style="list-style-type: none">1. Altaf Hussain M, Wang W, Sun C, Gu L, Liu Z, Yu T, Ahmad Y, Jiang Z, Hou J. Molecular Characterization Of Pathogenic Salmonella Spp From Raw Beef In Karachi, Pakistan. Antibiotics. 2020 Feb;9(2):73.. SCI (IMF-2.921)2. Hussain MA, Rind R, Adil M, Khan M, Farmanullah, SikandarA,Waheed U, Salim M (2014).Seroprevalence of Brucellosis in sheep and humans in District Kohat, Pakistan. Adv. Anim.Vet. Sci. 2 (9): 516-523. \cite3. 1. Hussain, M. A. et al. Multifunctional role of brassinosteroid and its analogues in plants. Plant Growth Regul. (2020). doi:10.1007/s10725-020-00647-84. Muhammad Altaf Hussain,ShaziaNazir, Imran Rashid, Mujeeb-ur-Rehman, Farmanullah and Shaukat Hayat(2014)A Study on Seroprevalence of Brucellosis in Caprine in Kohat (Khyber PakhtoonKhwa ,Lasbela University Journal of Science and Technology (LUJST)			

5. Hu, Jialun, Yue Liu, Liming Cheng, Ruijie Shi, Abdul Qayum, Akhunzada Bilawal, G. Munkh-Angalan, Muhammad Altaf Hussain, Zhanmei Jiang, and Bo Tian. "Comparison in bioactivity and characteristics of Ginkgo biloba seed polysaccharides from four extract pathways." *International Journal of Biological Macromolecules* (2020). SCI (**IMF#4.784**)
6. Liu, Zhijing, Fei Liu, Changbao Sun, Wan Wang, Da Gao, Jiage Ma, Cong Xu, Zhanmei Jiang, Juncai Hou, and Muhammad Altaf Hussain. "Study of the Alleviation Effects of a Combination of Lactobacillus Rhamnosus and Inulin on Mice with Colitis." *Food & Function* (2020). SCI (**IMF#3.241**)
7. Jiang, S., **Altaf hussain, M.**, Cheng, J., Jiang, Z., Geng, H., Sun, Y., Sun, C., Hou, J., Effect of heat treatment on physicochemical and emulsifying properties of polymerized whey protein concentrate and polymerized whey protein isolate, *LWT - Food Science and Technology* (2018), doi: 10.1016/j.lwt.2018.08.028. SCI (**IMF#3.714**)
8. Sun C, Gu L, **Hussain MA**, Chen L, Lin L, Wang H, Pang S, Jiang C, Jiang Z and Hou J (2019) Characterization of the Bioactivity and Mechanism of Bactenecin Derivatives Against Food-Pathogens. *Front. Microbiol.* 10:2593. doi: 10.3389/fmicb.2019.02593 SCI (**IMF-4.259**)
9. Li J, Zhao J, Wang X, Qayum A, **Hussain MA**, Liang G, Hou J, Jiang Z and Li A (2019) Novel Angiotensin-Converting Enzyme-Inhibitory Peptides From Fermented Bovine Milk Started by Lactobacillus helveticus KLDS.31 and Lactobacillus casei KLDS.105: Purification, Identification, and Interaction Mechanisms. *Front. Microbiol.* 10:2643. doi: 10.3389/fmicb.2019.02643 (**IMF-4.259**)
10. Hou, J., Feng, X., Jiang, M., Wang, Q., Cui, C., Sun, C., **Hussain, M.A.**, Jiang, L., Jiang, Z. and Li, A., 2019. Effect of NaCl on oxidative stability and protein properties of oil bodies from different oil crops. *LWT*, 113, p.108263. SCI (**IMF-3.714**)
11. Ma, Ling, Aili Li, Tianqi Li, Meng Li, Xindi Wang, **Muhammad Altaf Hussain**, Abdul Qayum, Zhanmei Jiang, and Juncai Hou. "Structure and characterization of laccase-crosslinked α -lactalbumin: Impacts of high pressure homogenization pretreatment." *LWT* 118 (2020): 108843. (**IMF-3.714**)
12. Khojastekey, M., Kalantar, M., Ahmed, J. Z., Khan, S., **Hussain, M. A.**, Khan, R., et al. (2019). Promoting the Reproductive Performance and Economic Indices of Zandi Ewes

under an Accelerated Lambing System. *Pak. J. Zool.* 2020,52, 97–105.
doi:10.17582/journal.pjz/2020.52.1.97.105.**SCI (IMF-0.790)**

13. JuncaiHou 1,* , Zhijing Liu , Songsong Cao , Haimei Wang , Chenggang Jiang ,**Muhammad Altaf Hussain** and Shiyue Pang (2018) Broad-Spectrum Antimicrobial Activity and Low Cytotoxicity against Human Cells of a Peptide Derived from Bovine α -S1-Casein Molecules 2018, 23, 1220; doi:10.3390/molecules23051220 SCIE (**IMF# 3.098**)
14. Ishfaq Muhammad, He Wang, Xiaoqi Sun, Xinghe Wang, Meiyu Han, ZiyinLu, Ping Cheng1, **Muhammad A. Hussain** and Xiuying Zhang (2018) Dual Role of Dietary Curcumin Through Attenuating AFB1-Induced Oxidative Stress and Liver Injury via Modulating Liver Phase-I and Phase-II Enzymes Involved in AFB1 Bioactivation and Detoxification *Pharmacol.*, 25 May 2018 | <https://doi.org/10.3389/fphar.2018.00554> SCIE **IMF (3.845)**
15. Changbao Sun, Yingying Li, Songsong Cao, Haimei Wang, Chenggang Jiang, Shiyue Pang, **Muhammad Altaf Hussain**, Juncai Hou (2018) Antibacterial activity and mechanism of action of bovine lactoferricin derivatives with symmetrical structure accepted international journal of Molecular science SCI (**IMF 4.183**)
16. Hyeonsoo Jo, Jangwook Choi, Ishfaq Muhammad, Muhammad Usman Akhtar, Xiang Li, Jun Bao, Shinmook Choi, Syed Waqas Ali Shah, Abdul Qayum, **Muhammad Altaf Hussain** & Jaehee Lee (2018): Determination of hydraulic retention time using a Piecewise linear regression analysis in the anaerobic digestion process, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, DOI: 10.1080/15567036.2018.1548517 SCI(**IMF-0.984**)
17. Baseer, N. U., Durrani, F. R., & Sohail, S. M. **Muhammad Altaf Hussain**, Mohammad Salim, Mujahidalishah, Effect of Four Medicinal Plants (*Withania somnifera*, Liquorice, *Allium sativum* and *Berberis lycium*) Mixture Extraction the Hematological and Hypolipidemic Characteristics in Broiler Chicks. *Electronic J Biol*, 12(4).
18. 1. Baseer, N. et al. Immune Stimulatory and Hepatoprotective Effects of Poly Herbs (*Withania Somnifera* , Liquorice , *Allium Sativum* and *Berberis lycium*) Mixture Extract in Broilers. 8883, (2020).
19. Gu, Liya, Changbao Sun, Lijun Chen, Shiyue Pang, **Muhammad Altaf Hussain**, Chenggang Jiang, Jiage Ma, Zhanmei Jiang, and JuncaiHou. "Non-perfectly Amphipathic α -Helical Structure Containing the XXYXX Sequence Improves the Biological Activity of

Bovine α 2-Casein Antimicrobial Peptides." *Journal of agricultural and food chemistry* 68, no. 28 (2020): 7520-7529. (IMF-4.192)

20. 1. Javed, K., Salim, M., Khan, M., Ali, S. & **Hussain, M. A.** Scholars Journal of Agriculture and Veterinary Sciences Abbreviated Key Title :Sch J Agric Vet Sci Genetic Factors Consequence on Productive and Reproductive Recital Traits of Kajl ... Scholars Journal of Agriculture and Veterinary Sciences Genetic Facto. (2020).
doi:10.36347/sjavs.2020.v07i05.001
21. Sajjad Ahmad, Muhammad Sarwar Khan, WaqarulHaq, Farmanullah, **Muhammad Altaf Hussain** (2012). Incidence and therapeutic trials on Primary and secondary bloats in buffaloes. Lasbela University Journal of Science and Technology (LUJST). Vol-1:Pp-23-30,ISSN-2306-8256
22. Shaukat Hayat, M. Faizul Hassan, Haider Hayat, Sardar Ali, Tariq Khan, **Muhammad Altaf Hussain**, Kausarzeb, M. S. Sarwar, Rashid Iqbal and Javaid Iqbal (2014) Subclinical Mastitis In Cows In Swat Area: Prevalence And Associated Microorganisms . Paper submitted to Lasbela University Journal of Science and Technology (LUJST).
23. Khalid Khan ,Gulawar Khan , MahjabeenZahri, Illahi Bakhsh Marghazani, and **Mohammad Altaf** (2016) Role of Livestock in Poverty Reduction: A Case Study of District Lasbela, Balochistan, *Lasbela, U. J. Sci. Techl., vol. , pp. 153-156, 2015*
24. 1. Javed, K., Salim, M., Kakar, I. & Rehman, I. U, **Muhammad Altaf Hussain** Consequence of birth year , type , sex , season and flock on birth weight trait of Kajli sheep. (2020). doi:10.29328/journal.ivs.1001024
25. Baseer, N, Abdul Hafeez, Syed Muhammad Sohail, Muhammad Ijaz, Farman Ullah, Mohammad Salim, **Muhammad Altaf Hussain**, Momen Khan, IhsanUllahKakar , Sakandar Khan, Mehmoodul Hassan, Sajjad Ahmad, Khalid Khan, Khan Mir Khan and Imran Khan. Immune Stimulatory and Hepatoprotective Effects of Poly Herbs (Withaniasomnifera, Liquorice, Allium sativum and Berberislycium) Mixture Extract in Broilers. Sch. J. Agric. Vet. Sci. 7, 139–143 (2020).
26. Farmanullah, Khalid Javed, IllahiBukhshMarghazani, Momen Khan, Muhammad Salim, **Muhammad Altaf Hussain**, Sajjad Ahmad, Sibghatullah (2013). Influence of environmental factors on various performance traits of Kajli sheep. 11th World conference on Animal production at WCAP 2013, held on October 15-20,2013 in Beijing, china .WCAP2013-1-04-008.<http://www.ciccst.net/conf/visitor/confmanagee.asp>

27. Farmanullah, Khalid Javed, IllahiBukhshMarghazani, Momen Khan, Muhammad Salim, **Muhammad Altaf Hussain**, Sajjad Ahmad, Sibghatullah (2013). To study the breeding values of Kajli sheep in different traits for comparative ranking. 11th World conference on Animal production at WCAP 2013, held on October 15-20,2013 in Beijing,china .WCAP2013-1-02-017. <http://www.ciccst.net/conf/visitor/confmanagee.asp>

PAPER PRESENTATIONS IN NAITONAL CONFERENCES

1. Farmanullah, Khalid Javed, IllahiBukhshMarghazani, Momen Khan, Muhammad Salim, **Muhammad Altaf Hussain**, Sajjad Ahmad, Sibghatullah (2013). Influence of environmental factors on various performance traits of Kajli sheep. 11th World conference on Animal production at WCAP 2013, held on October 15-20,2013 in Beijing,china .WCAP2013-1-04-008.<http://www.ciccst.net/conf/visitor/confmanagee.asp>
2. Farmanullah, Khalid Javed, IllahiBukhshMarghazani, Momen Khan, Muhammad Salim, **Muhammad Altaf Hussain**, Sajjad Ahmad, Sibghatullah(2013). To study the breeding values of Kajli sheep in different traits for comparative ranking. 11th World conference on Animal production at WCAP 2013, held on October 15-20,2013 in Beijing,china .WCAP2013-1-02-017. <http://www.ciccst.net/conf/visitor/confmanagee.asp>

3. International Conference on Solid Waste Management. Bhubaneswar, India. Pg 316.

TEACHING EXPERIENCE

Designation	From	To	Organization
Assistant Professor	2011	2021	Lasbela University of Agriculture, Water & Marine Sciences
Associate Professor	2021	Till now	Lasbela University of Agriculture, Water & Marine Sciences

WORKSHOPS/SEMINARS/TRAININGS ATTENDED AND CONDUCTED:

1. Research Tools, Techniques & Proposal Development Four days 20/5/2013 to 23/5/2013 at LUAWMS, Pakistan
2. Ensuring Training Effectiveness Three days 12/06/12 to 14/6/12 LUAWMS, Pakistan
3. Secrets of successful Entrepreneurship One day 12/11/12 to 12/11/12 LUAWMS, Pakistan
4. Ensuring training effectiveness Three days 12/6/12 to 14/6/12 LUAWMS, Pakistan
5. Advance Econometrics Four Days 9/5/12 to 12/5/12 LUAWMS, Pakistan

6. International conference on Agriculture ,Food and Animal science Three days 12/3/2008 to 14/3/2008 Sindh Agriculture university Tando jam
7. Curriculum Development & Question Paper setting Two days 24/11/2011 to 25/11/2011 LUAWMS, Pakistan
8. Advance Economics Four Days 9/4/2012 to 12/4/2012 LUAWMS, Pakistan
9. Framework for Economics growth of Pakistan One day 24/9/2011 to 24/9/2011 LUAWMS, Pakistan
10. Certificate of skill and proficiency in the field of poultry dairy farming 1 year diploma Islamabad Academy
11. WEBINAR ON MALARIA; VECTOR BIOLOGY AND CONTROL One day 5/5/2021 to 5/5/2021 One day web seminar University of Punjab Lahore
12. Virtual international conference on zoonosis as a threat to global threat One day 20/4/2021 to 20/4/2021 One day web seminar conference UVAS Lahore, Pakistan Through Webinar
13. International Camelid Symposium 4 days 22/6/2020 to 26/6/2020 Four days web Conference , LUAWMS, Pakistan Through Webinar
14. Digital Teaching and Assessment; Challenges for Students One day 26/11/2020 to 26/11/2020 One days web seminar RIPHAH University of Islamabad Through Webinar
- 15. Technology for Improving Agriculture Productivity One day Nov 27, 2020 to Nov 27, 2020 CRISPR/Cas**
16. One day Virtual Seminar on —Diabetes Day|| under Theme Coronavirus and Diabetes. One day 14November 2020 to 14 November 2020 Department of Microbiology Molecular Genetics University of the Punjab, Lahore. In collaboration with Pakistan Academy of Family Physician (PAFP) Pakistan.

SHORT BIOGRAPHY:

Position & Department: Associate Professor, Faculty of Veterinary and Animal Science, Lasbela University of Agriculture Water and Marine Sciences, (LUAWMS).

Research Interests: Animal Products Engineering is an ever-expanding profession, in meat processing, contamination of meat through pathogenic bacteria, packaging, and preservation of meat and consumer food safety. Phenotypic and Genotypic Characterization of Salmonella and E. coli O157:H7 from the Meat of Livestock Animals .Raw and undercooked meat and poultry can make you sick. Most raw poultry contains Campylobacter. It also may contain Salmonella, Clostridium perfringens, and other bacteria.Meat and poultry may become contaminated during slaughter by small amounts of intestinal contents. Pakistan largest meat -producing country) needs to be exploited in processing and production technology of meat production to compete in the World market utilizing effective resources. Opportunities for value-added products: Nutritional and Functional foods are the potential areas yet to be designed and roofed in

Pakistan. To accomplish the needs of industrial technology in this regard is a fascinating challenge. Hence, to work with the objectives stated herein is of great personal and professional interest, while simultaneously providing services for safe, qualitative and versatile food with respect better communications for science and humanity.