

CURRICULUM VITAE

Dr. Assar Ali Shah

Associate Professor



CONTACT INFORMATION

Mir Nader Shah Food Grain Dealer Near Sadder Police Station, Bannu,
Khyber Pakhtunkhwa, Pakistan

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Google Scholar: <https://scholar.google.com/citations?user=Praeg9oAAAAJ&hl=en>

Researchgate: https://www.researchgate.net/profile/Shah_Assar_Ali2

PERSONAL INFORMATION

Father's Name: Amir Ali Shah

Nationality: Pakistani

Domicile: Bannu

Date of Birth: 05-04-1985

Gender: Male

Marital Status: Married

Permanent Address: Salima Sikander Khal Issaky, Bannu, Pakistan.

ACADEMIC BACKGROUND

DEGREE	University/ Board	DIVISION	YEAR
Postdoctoral (Animal Nutrition and Feed Science)	Khon Kaen University, Thailand.	1 st	2023
Postdoctoral (Animal Nutrition and Feed Science)	Jiangsu Academy of Agricultural Sciences, China.	1 st	2020
Ph. D (Animal Nutrition and Feed Science)	Nanjing Agriculture University, China.	1 st	2018
M. Sc (Hons) (Animal Nutrition)	University of Agricultural Peshawar, Pakistan	1 st	2013
Doctor of Veterinary Medicine (DVM)	Gomal College of Veterinary Sciences D. I. Khan, Pakistan	1 st	2010

Ph. D and Postdoc research title

- Effects of the isolated lactic acid bacteria on fermentation quality of sweet sorghum, elephant, and king grasses.
- Endophytic *Bacillus megaterium* effect on the microbial community, chemical composition, and stabilization properties of hybrid *Pennisetum* and their effect on the rabbit.
- Nutritional composition of various insects and potential uses of alternative protein sources in animal diets and their effect on digestibility

Research area

- Animal Nutrition; Gut microbiota; Microbial fermentation, Endophytic and Lactic acid bacteria; Plant Microbiology; Forage Management and Utilization; Plant Sciences; Silage Science; Poultry Sciences.

Experience

- Associate Professor at University of Veterinary and Animal Sciences, Swat, Pakistan. 05-2025—to date
- Assistant Professor at *Faculty of veterinary and Animal sciences*, Gomal University, Dikhan, Pakistan. 09-2023—09-2025
- Visiting Teaching/ lecturer in the Department of Zoology, University of Science and Technology, Bannu. 03-2021—03-2022
- Two Year Teaching Experience in Jiangsu Academy of Agricultural Sciences China. 10-2018—09-2020
- One Year Experience University Poultry Farming. 01-2009—01-2010
- Three Year Work in Civil Veterinary Dispensary. 02-2010—27-2014
- Three Month Work in Marketing (PACIFIC Pharmaceuticals Ltd). 01-2010—06-2010
- One Year Veterinary Officer in NRSP Livestock Project. 05-2010—27-2013
- Dairy Products Preparation Value Addition& Marketing (LTC). 05-2010—05-2010

- Information & Communication Tech. Centre(Gov. Technical & Vocational Centre D. I. Khan) 06-2008—08-2008

Academic Service

Editor-in-Chief: Journal of Animal and Plant Research

Associate Editor: Frontiers in Animal Sciences

❖ Work as reviewer

- Journal of the Science of Food and Agriculture
- Reproduction in Domestic Animal
- Journal of Animal Physiology and Animal Nutrition
- Microbiology Open
- Frontiers in Microbiology
- PlasOne
- Molecules MDPI
- Insects MDPI

Internship Program

- Veterinary Research Institute Peshawar.
- Civil Veterinary Hospital Bannu.
- Animal Husbandry In-service Training Institute Peshawar.
- Government Poultry Farm Peshawar.
- Government Cattle Breeding & Dairy Farming Harichand.
- Live Stock Experiment Station Jaba District Mansehra.

Paper under review

- 4 paper is under review
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Scholarship won

- CSC Scholarship for Ph. D 2014

Awards

- 17th AB/CABI Outstanding Research Award from Animal Bioscience Journal, Korea.
- Three time excellent student awards from Nanjing Agricultural University, Nanjing, China.
- Best publications awards from Jiangsu Academy Agricultural Sciences (JAAS), Nanjing, China

Software for Data Analysis

- | | | |
|--------------|--------------------|-------------------|
| ➤ SPSS | ➤ GraphPad Prism 5 | ➤ Adobe Photoshop |
| ➤ Statistics | ➤ MEAG 6.06 | ➤ HPLC |
| ➤ SAS | ➤ NCBI | ➤ Cell Culture |
| ➤ Excel | ➤ PCR | |

Conferences

- Past GCHERA conference 2015
- 9th GCHERA conference 2017

Research Publications

I have a total of 45 publications. 15 first authors, 15 corresponding authors , and 15 as co-author papers.

First author papers

1. **Shah, A.A.**, Alwashmi, A.S., Abalkhail, A. and Alkahtani, A.M., 2025. Emerging Challenges in *Klebsiella pneumoniae*: Antimicrobial Resistance and Novel Approach. *Microbial Pathogenesis*, p.107399.
2. **Shah, A. A.**, Totakul, P. Matra, M. Cherdthong, A. Hanboonsong Y & Wanapat M. (2021) Nutritional composition of various insects and potential uses as alternative protein sources in animal diets. *Animal Bioscience* 00:1-15 (**HEC-Y 31**) **IF: 2.509**
3. **Shah, A. A.** & Wanapat M. (2021) *Gryllus testaceus* walker (Crickets) farming

- management, chemical composition, nutritive profile, and their effect on animal digestibility. *Entomological Research* 00: 1-12. **(HEC-X 30) IF: 1.358**
4. **Shah, A. A.,** Liu, Z., Qian, C., Wu, J., Tao, Z., Zhang, X. & Zhong, X. (2021) Evaluation of biological and chemical additives on microbial community, fermentation characteristics, aerobic stability and in-vitro gas production of SuMu No. 2 elephant grass. *Journal of The Science of Food and Agriculture*; 00:1-8 **(HEC - W 29) IF:4.125**
 5. **Shah, A. A.,** Liu, Z., Qian, C., Wu, J., Khan, S. Tao, Z., Zhang, X., Khan, I, U & Zhong, X. (2020) Effects of Natamycin and *Lactobacillus plantarum* on chemical composition, microbial community, and aerobic stability of *Hybrid pennisetum* at different temperatures. *RSC Advances Journal*. 10: 8692-8702. **(HEC-W 27) IF:4.036**
 6. **Shah, A. A.,** Liu, Z., Qian, C., Wu, J., Tao, Z., Zhang, X. & Zhong, X. (2020) Ensiling of whole plant Hybrid pennisetum with Natamycin and *Lactobacillus plantarum* impacts on fermentation characteristics and meta- genomic microbial community at low temperature. *Journal of The Science of Food and Agriculture*.100: 3378-33857. **(HEC-W 26) IF:4.125**
 7. **Shah, A. A.,** Liu, Z., Qian, C., Wu, J., & Zhong, X. (2020) Effect of endophytic *Bacillus megaterium* colonization on structure strengthening, microbial community, chemical composition and stabilization properties of Hybrid Pennisetum. *Journal of The Science of Food and Agriculture* 100: 1164-1173. **(HEC-W 25) IF:4.125**
 8. **Shah, A. A.,** Liu, Z., Qian, C., Wu, J., Sultana, N., & Zhong, X. (2019) Potential effect of the microbial fermented feed utilization on physicochemical traits, antioxidant enzyme, and trace mineral analysis in rabbit meat. *Journal of Animal Physiology and Animal Nutrition*, 104: 767-775. **(HEC-W 24) IF:2.718**
 9. **Shah, A. A.,** Khan, I. U., Sahibzada, F. A., Tauseef, I., Kalsoom, U. E., & Sultana, N. (2019). Biological and biochemical characteristics of male reproductive system, serum metabolites and carcass quality of Japanese quails by supplementation of *Pinus ponderosa* needle and α - tocopherol acetate. *Reproduction in Domestic Animals*, 54(10)1348-1356. **(HEC-W 22) IF:1.858**
 10. **Shah, A. A.,** Xianjun, Y., Zhihao, D., Junfeng, L., & Shao, T. (2018). Effect of lactic

- acid bacteria treated King grass silage on the performance traits and serum metabolites in New Zealand White Rabbits (*Oryctolagus cuniculus*). *Journal of Animal Physiology and Animal Nutrition* 102(2):e902-e908. **(HEC-W 21) IF:2.718**
11. **Shah, A. A.**, Xianjun, Y., Zhihao, D., Junfeng, L., & Shao, T. (2017). Isolation and molecular identification of lactic acid bacteria from King grass and their application to improve the fermentation quality of sweet Sorghum. *World Journal of Microbiology and Biotechnology*. 34(1): 4 **(HEC-X 20) IF:3.277**
 12. **Shah, A. A.**, Xianjun, Y., Zhihao, D., Junfeng, L., & Shao, T. (2017). Microbiological and chemical profiles of elephant grass inoculated with and without *Lactobacillus plantarum* and *Pediococcus acidilactici*. *Archives of Microbiology*, 200(2), 311-328. **(HEC-X 19) IF:2.667**
 13. **Shah, A. A.**, Xianjun, Y., Zhihao, D., Siran, W., & Tao, S. (2017). Effects of lactic acid bacteria on ensiling characteristics, chemical composition and aerobic stability of king grass. *Journal of Animal and Plant Sciences*, 27(3), 747-755. **(HEC-X 18) IF: 0.570**
 14. **Shah, A. A.**, Khan, M. S., Khan, S., Ahmad, N., Alhidary, I. A., Khan, R. U., & Shao, T. (2016). Effect of different levels of alpha tocopherol on performance traits, serum antioxidant enzymes, and trace elements in Japanese quail (*Coturnix coturnix japonica*) under low ambient temperature. *Revista Brasileira de Zootecnia*, 45(10), 622-626. **(HEC-X 5) IF: 1.000**
 15. **Shah, A. A.**, Memon, M., Ali, G., Khan, A. Z., XianJun, Y., QinHua, L., & Tao, S. (2016). Careful surgery, management and treatment of bovine calf actinomycosis (lumpy jaw). *Academia Journal of Agricultural Research*, 4(2), 86-90. **IF:0.00**

Corresponding author papers

1. Alsuwat, M.A., **Shah, A.A., (Corresponding author)**, Ullah, S., Khan, R.U., Alissa, M. and Khan, M.S., 2025. Microbial Biofilm Formation to Mitigate Foodborne Pathogens Strategies and Control Measures. *Indian Journal of Microbiology*, pp.1-16.
2. Fu, C., **Shah, AA., (Corresponding author)**, Alissa, M., Meshari A.A, Ullah, S., Khan, MS., Ali Zaman A. (2024) Exploring the potential of insect gut microbes for advancing renewable energy production. *Journal Applied Entomology*, 00 1-10. **IF:1.90**
3. Fu, C., Cheema, W.A., Mobashar, M., Shah, A.A. and Alqahtani, M.M., 2024. Insects as

Sustainable Feed: Enhancing Animal Nutrition and Reducing Livestock Environmental Impression. *Journal of Animal Physiology and Animal Nutrition*.

4. Bingqian, N., **Shah, A. A (Corresponding author)**., Matra, M., Wanapat, M., Ullah Khan, R., Ahmad, S., Ullah, S., Shuaib Khan, M. and Kamal Shah, M., 2023. Insect bioactive compounds and their potential use in animal diets and medicine. *Entomological Research*, 53(11), pp.429-443. **IF:1.30**
5. Fu, C., **Shah* A.,A (Corresponding author)**., Khan, R. U., Khan, M. S., & Wanapat, M. (2023). Emerging trends and applications in health-boosting microorganisms-specific strains for enhancing animal health. *Microbial Pathogenesis*, 106290. **IF:3.90**
6. Awan, A. K., Sultana, N., Khan, R. K., Sultana R.,Kalsoom, U., Sahibzada, F. A., Khan, R.U., Khan, R. U., Khan, N. A., Zaman, S. H., Shah, M. S., **Shah* A.,A (Corresponding author)** (2023) Antioxidant and Antidiabetic Potentials of Punica granatum Peel Extracts in Alloxan-Induced Diabetic Albino Rats. *Pakistan Journal of Zoology*, 00:1-10 (**HEC-X 28**) **IF: 0.831**
7. Khan, N.U., Usman, T., Sarwar, M.S., Ali, H., Gohar, A., Asif, M., Rabbani, F., Khan, R.U., Sultana, N., Khan, N.A., Mobashar, M., **Shah* A.,A (Corresponding author)**., Wanapat, M. (2022). The prevalence, risk factors analysis and evaluation of two diagnostic techniques for the detection of *Cryptosporidium* infection in diarrheic sheep from Pakistan. *Pols One* 17(7):e0269859 (**HEC-W 34**) **IF: 3.752**
8. Mobashar, M., Aqeel, Q., Khan, M.T., **Shah, A.A(Corresponding author)**, Abdel-Wareth, A.A.A., Khan, S., Ahmad, N., Ullah, S & Haq- Amanullah (2021) Dietary supplementation effect of Alfalfa and Prangos pabularia hay impact on feed intake, growth performance, In-vivo and In-saco nutrient degradability in Kari sheep. *Pakistan Journal of Zoology*, 02:1-16 (**HEC-X 28**) **IF: 0.831**
9. Khaliq, A., Alam, S., Khan, I. U., Khan, D., Naz, S., Zhang, Y., & **Shah, A. A* (Corresponding author)**, (2020). Integrated control of dry root rot of chickpea caused by *Rhizoctonia bataticola* under the natural field condition. *Biotechnology Reports*, 25, e00423. (**HEC-Y 17**) **IF: 2.010**
10. Wazha Mugabe, Gaolebale Segolame Mpapho, John Kamau¹, Wam-eotsile Mahabile, Shalaulani James Nsoso, Kealeboga Dipheko and **Assar Ali Shah,* (Corresponding author)**, (2018) Occurrences of Goat Mastitis and Milking Management in the Oodi

Agricultural Region, Botswana. *Pakistan Journal of Zoology*, Vol. 50, Iss. 3, pp 809-815.
(HEC-X 13) IF:0.831

11. Mudasir Nazar, Murad Ali Khan, **Assar Ali Shah* (Corresponding author)**, Sadeeq Ur Rahman, Ikramullah Khan, Ahsan Ullah, Irfan Ullah Khan, Muhammad Shuaib. (2018). Occurrence and transplacental transmission of *Anaplasma marginale* in dairy cattle: a comprehensive report on the comparative susceptibility of local and exotic cattle breeds. *Slovenian Veterinary Research*. 55 (3): 183 – 191. **(HEC-Y 12) IF:0.922**
12. Mugabe, W., Moatswi, B., Nsinamwa, M., Akanyang, L., Dipheko, K., Matthews, N., & **Shah, A. A. (Corresponding author)**, (2017). Dry Matter Biomass Productivity and Composition of Grasses along Grazing Gradient in Fenced and Unfenced Grazing Areas of the Gaborone North, Botswana. *Journal of Animal Research and Nutrition*, 2(2). **IF:0.00**
13. Mugabe, W., Nsoso, S. J., Mpapho, G. S., Kamau, J. M., Mahabile, W., **Shah*, A. A., (Corresponding author)**, & Shah, I. A. (2017). Occurrence of Caprine Mastitis and its Etiological Agents and Associated Selected Risk in Mid Lactating Goats in the Oodi Extension Area of Kgatleng District, Botswana. *Journal of Agricultural Research* 2: 014-020. **(HEC-Y 8) IF:0.00**
14. Mugabe, W., Akanyang, L., Nsinamwa, M., Moatswi, B., Matthews, N., Dipheko, K., ... & **Shah, A. A*. (Corresponding author)**, (2017). Fodder tree species composition and density in grazing gradients of fenced and unfenced grazing areas of the Gaborone North, Botswana. *Sarhad Journal of Agriculture*, 33(2), 306-314. **HEC-Y 6) IF:0.00**
15. Ullah, N., **Shah*, A. A., (Corresponding author)**, Nazar, M., Ali, G., Khan, I. U., Rahman, A., & Shah, I. A. (2016) Influence of Breed, Age and Sex of Indigenous Cattle on Sensory Parameters of raw and cooked Beef Meat at Peshawar. *Journal of Life Science and Biotechnology* 17: 477-506. **IF:0.00**

Co-author papers

1. Zhang, H., Hu, L., Du, X., **Shah, A.A.**, Ahmad, B., Yang, L. and Mu, Z., 2023. Response and Tolerance of *Macleaya cordata* to Excess Zinc Based on Transcriptome and Proteome Patterns. *Plants*, 12(12), p.2275.
2. Rasheed, A., Noor, M., Usman, T., Bilqees, R., Afnan, M., Gul, S., Khan, N.U., Khattak, S., Khattak, I. and **Shah, A.A.**, 2022. Drugs being tested against COVID-19 to slow

down its spread and find effective treatment: A systematic review. *International Journal of Endorsing Health Science Research (IJEHSR)* 10(2):255-272.

3. Shuaib, M., Hafeez, A., Islam, A., **Shah, A.A.**, Ullah, S. (2022) Effect of dietary inclusion of soybean hulls in the diet on feed proximate analysis, egg quality parameters and economics during peak egg production stages in laying hens. *Pakistan Journal of Zoology*, 00:1-7 **(HEC-X 33) IF: 0.831**
4. Khan, I. U., **Shah, A. A.**, Sahibzada, F. A., Hayyat, A., Nazar, M., Mobashar, M., Tariq, A., & Sultana, N. (2019). Carcass characteristics and serum biochemical profile of Japanese quail by the supplementation of pine needles and vitamin E powder. *Biologia*, 74, 993-1000. **(HEC-Y 23) IF:1.653**
5. Umair, M., Jabbar, S., Senan, A. M., Sultana, T., Nasiru, M. M., **Shah, A. A.**, & Jianhao, Z. (2019). Influence of Combined Effect of Ultra-Sonation and High-Voltage Cold Plasma Treatment on Quality Parameters of Carrot Juice. *Foods*, 8(11), 593. **(HEC-W 15) IF:5.561**
6. Rostami, H., Seidavi, A., Dadashbeiki, M., Asadpour, Y., Simões, J., **Shah, A.A.**, Laudadio, V., Losacco, C., Perillo, A. and Tufarelli, V., 2018. Supplementing dietary rosemary (*Rosmarinus officinalis* L.) powder and vitamin E in broiler chickens: evaluation of humoral immune response, lymphoid organs, and blood proteins. *Environmental Science and Pollution Research*, 25(9):8836-8842. **(HEC-W 14) IF:5.190**
7. Ali, G., Liu, Q., Yuan, X., Dong, Z., Desta, S. T., Li, J., **Shah A. A.**, & Shao, T. (2017). Characteristics of lactic acid bacteria isolates and their effects on the fermentation quality of acacia (*Sophora japonica* L.) leaf silage at low temperatures. *Grassland Science*. 63(3):141-149. **(HEC-X 11) IF:1.440**
8. Ehab Bo Trabi, Xianjun Yuan, Junfeng Li, Zhihao Dong, **Assar Ali Shah** and Tao Shao* (2017) Effect of applying glucose and lactic acid bacteria on the fermentation quality, chemical compositions and in vitro digestibility of mulberry (*Morus Alba*) leaf silage. *Pakistan Journal of Zoology*, vol. 49(6), pp 2271-2277. **(HEC-X 10) IF:0.831**
9. Akhtar, K., Shah, S. W. A., **Shah, A. A.**, Shoaib, M., Haleem, S. K., & Sultana, N. (2017). Pharmacological effect of *Rubus ulmifolius* Schott as antihyperglycemic and antihyperlipidemic on streptozotocin (STZ)-induced albino mice. *Applied Biological Chemistry*, 60(4), 411-418. **(HEC-Y 9) IF: 3.206**

10. Wen, A., Bai, X., Dai, S., **Shah, A.A.** and Hu, H., (2017) Effect of dietary sodium diacetate on growth performance, carcass characteristics, meat quality, intestinal pH and *Escherichia coli* of broilers. *Animal Production Science*. 58(7):1323-1328. **(HEC-X 7) IF: 1.570**
11. Hu, H., Bai, X., **Shah, A. A.**, Dai, S., Wang, L., Hua, J., & Jiang, J. (2016). Interactive effects of glutamine and gamma-aminobutyric acid on growth performance and skeletal muscle amino acid metabolism of 22–42-day-old broilers exposed to hot environment. *International journal of biometeorology*, 60(6): 907-905. **(HEC-W 4) IF: 3.738**
12. Hu, H., Bai, X., Wen, A., **Shah, A. A.**, Dai, S., Ren, Q., & Wang, L. (2016). Assessment of interactions between glutamine and glucose on meat quality, AMPK, and glutamine concentrations in pectoralis major meat of broilers under acute heat stress. *Journal of Applied Poultry Research*, 25(3) 370-378. **(HEC-X 3) IF:2.162**
13. Meena M., **Shah, A. A.**, Khan, A, Z., Sifeddein, A., XianJun, Y., QinHua, L., Alhaag, H. Y., Khan, A. K., Nazar, M., Shah, I. A., and Tao Shao (2016). Careful Surgery, Management and Treatment of Feline (Cat) Breast Cancer, *Journal of Animal Nutrition*. 1(2), 1-4. **IF:0.00**
14. Hu, H., Bai, X., **Shah, A. A.**, Wen, A. Y., Hua, J. L., Che, C. Y., & Dai, S. F. (2015). Dietary supplementation with glutamine and γ -aminobutyric acid improves growth performance and serum parameters in 22- to 35- day- old broilers exposed to hot environment. *Journal of Animal Physiology and Animal Nutrition*. 100 (2):361-370. **(HEC-W 2) IF: 2.718**
15. Chand, N., Naz, S., Shah, Z., Khan, S., **Shah, A. A.**, & Khan, R. U. (2014). Growth Performance and Immune Status of Broilers Fed Graded Levels of Albizia lebbeck Seeds. *Pakistan Journal of Zoology*, 46(2), pp. 574-577, **(HEC-X 1) IF:0.831**

Abstracts Published in National and International Proceedings/Conferences

- 1) **Shah Assar Ali**, Rifat Ullah Khan, Muhammad Saleem Khan, Sarzamin Khan, Nazir Ahamd and Muhammad Humayun. 2013. *Effect of different levels of vitamin E on the performance traits, serum antioxidant enzymes and trace minerals in Japanese quail (Coturnix coturnix Japonica)*. Proceedings of 2nd International Dairy Science Park, Nov 18-20, University of Agriculture, Peshawar, Pakistan. Page: 142.
- 2) Assar Ali Shah^{1*}, Shakeeb Ullah, Muhammad Shuaib Khan, Muhammad Kamal Shah, Ali Zaman⁴, Faiqah Ramzan, Haiwad Gul., 2024. *Impact of climate change on fodder*

production, processing, and conservation. International Conference on “Fodder Production in Climate Shift Paradigm: Better Nutrition for Better Dairy Production” November 29-30, 2023
file:///C:/Users/ASSAR%20ALI%20SHAH/Downloads/IFC%20Abstract%20Book.pdf