

Dr. Rifat Ullah Khan

Research publications (Impact Factor Journals)

H-Index (38): <https://www.webofscience.com/wos/author/record/H-4207-2015>

- 1) Hafeez, A., Awan, H., Naz, S., Alhidary, I.A., **R.U. Khan**, Konca, Y., Shakirullah, Rahman, H.U. and Selvaggi, M. 2024. Effect of graded levels of soybean oil supplementation as an energy source on broiler performance, carcass characteristics, and nutrient digestibility. *Pakistan Journal of Zoology*: <https://dx.doi.org/10.17582/journal.pjz/20240209140620>
- 2) Arooj, S., Naz, S., Qaisar, A., Satti, S., Razaq, A., Alhidary, I. **R.U. Khan**, and Tufarelli, V. 2025. Estimation of heavy metals enrichment and geo-accumulation associated with habitat quality from selected wildlife parks. *Soil and Sediment Contamination* 34: 1-18. <https://doi.org/10.1080/15320383.2024.2328038>
- 3) Hafeez, A., Sikandar, R., Naz, S., Alhidary, I.A., **R.U. Khan**, Terricone, S. 2024. Impact of eggs storage time and duration of fumigation on hatchability, embryonic mortality and characteristics of day old chicks. *Pakistan Journal of Zoology* <https://dx.doi.org/10.17582/journal.pjz/20240602050103>
- 4) Nasir, J.A., Chand, N., Naz, S., **R.U. Khan**, Alhidary, I., Abdulrehamn, S.H. and Tufarelli, V. 2024. In vitro screening of antibacterial efficacy of stem waste of oyster mushrooms (*Pleurotus ostreatus*) against different *Escherichia coli* strains and in vivo effects against *E. coli*-induced infection in Japanese quails. *Cogent Food and Agriculture*, 10: No. 1, 2422536 <https://doi.org/10.1080/23311932.2024.2422536>
- 5) Sultan, A., Aziz, T., Islam, Z., Uzair, M.S., Alhidry, I.A., **R.U. Khan**, and Tiwari, R. 2024. Effect of ginger-based zingibain enzyme on growth and intestinal health in Japanese quails. *Archives of Animal Breeding*
- 6) Hafeez, A., Saleem, U., Naz, S., Alhidary, I.A., **R.U. Khan**, Konca, Y. and Selvaggi, M. 2024. Dietary supplementation of betaine on growth performance, nutrient digestibility, blood biochemistry and intestinal histopathology in coccidia challenged birds. *Pakistan Journal of Zoology*
- 7) Shoukat, A., Tahir, M., Naz, S., **R.U. Khan**, Alhidary, I.A., Bib, S. and Ragni, M. 2024. Incorporating extruded rapeseed meal in broiler diets: effects on performance and nutrient absorption. *Pakistan Journal of Zoology*
- 8) Sultan, A., Aziz, T., Islam, Z., Uzair, M.S., Alhidary, I., **R.U. Khan** and Tiwari, R. 2024. Effect of ginger-based zingibain enzyme on growth and intestinal health in Japanese quails. *Archives of Animal Breeding*,
- 9) Alam, M, Chand, N., Naz, S., Khan, M., **R.U. Khan**, Alhidary, I.A., Abdelrahman, S. and Ragni, M. 2024. Comparative growth, production, carcass characteristics and reproduction performance of Naked Neck, Black Australorp and their crossbred chicken. *Italian Journal of Animal Science* 23: 1624-1634. <https://doi.org/10.1080/1828051X.2024.2418980>
- 10) Khan, A., Sultan, A., Islam, Z., Uzair, M.S., Alhidary, I.A., **R.U. Khan**, Naz, S., Momand, N.K and Tiwari, R. 2024. Optimizing growth performance, nutrients digestibility, immunity and gut health in broilers through ginger-derived phyto-protease enzyme (zingibain) supplementation. *Italian Journal of Animal Science* 23:

- 1695-1703. <https://doi.org/10.1080/1828051X.2024.2416586>
- 11) Ahsan, T., Tahir, M., **R.U. Khan**, Ahmad, S., Khan, N.A., Konca, Y., Alhidary, I.A., Abdelrahman, S.A., Tarricone, S. 2024. Impact of varying levels of soy hulls and β -mannanase enzyme supplementation on growth performance, carcass characteristics, nutrient utilization and blood biochemical profile in broiler chickens. *Italian Journal of Animal Science* 23: 1551-1560. <https://doi.org/10.1080/1828051X.2024.2410878>
 - 12) Islam, Z., Ikram, M., Naz, S., Sultan A., Khan, K., Alhidary, I.A., Tiwari, R. and **R.U. Khan**. 2024. Effect of selenium-enriched yeast diet on performance, biochemistry, and selenium concentration in meat and egg contents of laying Japanese quails. *Archive of Animal Breeding*. 67: 493-502. <https://doi.org/10.5194/aab-10-1-2024>
 - 13) Hafeez, A., Sikandar, R., Naz, S., Alhidary, I.A., **R.U. Khan**, and Tarricone, S. 2024. Impact of eggs storage time and duration of fumigation on hatchability, embryonic mortality and characteristics of day old chicks. *Pakistan Journal of Zoology* <https://dx.doi.org/10.17582/journal.pjz/20240602050103>
 - 14) Ahsan, T., Tahir, M., Naz, S., **R.U. Khan**, Alhidary, I.A., Abdelrahman, S.H. and Selvaggi, M. 2024. Effect of soy hulls as alternative ingredient on growth performance, carcass quality, nutrients digestibility and intestinal histological features in broilers. *Italian Journal of Animal Science* 23: 1336-1347 <https://doi.org/10.1080/1828051X.2024.2397495>
 - 15) Hafeez, A., Khan, R.U., Naz, S., Batool, S., **R.U. Khan**, Alhidary, I.A., Abdelrahman, S.H. and Tiwari, R. 2024. Ameliorative effect of Aloe vera supplementation on the growth indices, intestinal health and oocysts shedding under an experimentally challenged with coccidia in Japanese quails. *Italian Journal of Animal Science* 23: 1269-1278. <https://doi.org/10.1080/1828051X.2024.2391552>
 - 16) Ahmad, A., Sultan, A., Naz, S., Chand, N., Islam, Z., Alhidary, I.A., **R.U. Khan**, Abdelrahman, S.H. and Dai, S. 2024. Growth performance, nutrients digestibility, intestinal microbiota and histology altered in broilers fed maize- or sorghum-based diets. *Veterinary Quarterly* 44:1-8. <https://doi.org/10.1080/01652176.2024.2373295>
 - 17) Zada, T., Khan, S., Isalm, Z., Sultan, A., Khan, K., albekairi, T.H, Khan, A., Aziz, T. and **R.U. Khan**. 2024. Growth performance, serum biochemical profile and liver histopathology of broiler chickens supplemented with graded level of dried sprouted wheat grains. *Italian Journal of Animal Science*, 23: 880-886. [10.1080/1828051X.2024.2356213](https://doi.org/10.1080/1828051X.2024.2356213)
 - 18) Khan, M., Chand, N., Khan, S., Naz, S., Alrefaei, A.F., Chandrasekaran, A. and **R.U. Khan**. 2024. Partial replacement of soybean meal with *Musca domestica* larvae meal in broiler diets: implications for growth performance, nutrient utilization, hemato-biochemical profile and organoleptic characteristics. *Archives of Animal Breeding* 67: 247–257 <https://doi.org/10.5194/aab-67-247-2024>
 - 19) Hafeez, A., Ullah, S., Naz, S., Alrefaei, A.F., **R.U. Khan**, Abdelrahman, S., Losacco, C. and Selvaggi, M. 2024. Effect of dietary polyphenol rich grape (*vitis vinifera*) seed extract supplementation on production performance, egg quality, plasma MDA, reproductive performance and faecal microbiota of golden laying hens. *Journal of Applied Animal Research* 52: [10.1080/09712119.2024.2365748](https://doi.org/10.1080/09712119.2024.2365748)
 - 20) Sana, B., Chand, N., Naz, S., Alhidary, I.A., **R.U. Khan**, Shamsi, S., Losacco, C., and Tufarelli, V. 2024. Effect of f hempseed (*Cannabis sativa* L.) in diet on growth, gut health, and immunity in broilers. *Veterinary Quarterly* 44: 1-10. [10.1080/01652176.2024.2367214](https://doi.org/10.1080/01652176.2024.2367214)

- 21) Khan, S.M., **R.U. Khan**, Khan, H. and Khan, S. 2024. Effects of calcium supplementation on blood metabolites, subclinical mastitis and reproductive efficiency in poor performing postpartum dairy cows. *Pakistan Journal of Zoology*
- 22) Farooq, K., Sultan, A., Shah, A.A., **R.U. Khan**, Khan, R., Yasmeen, G and Khan, N.A. 2024. Maize silage and ryegrass fodder blend-based diets to optimize growth performance, nutrients digestibility, and methane gas production of fattening calves. *International Journal of Agriculture and Biological Engineering* 17: 75-81. [10.25165/j.ijabe.20241703.7899](https://doi.org/10.25165/j.ijabe.20241703.7899)
- 23) Sultan, A., Murtaza, S., Naz, S., Islam, Z., Alrefaei, A.F., **R.U. Khan**, Abdelrahman, S. and Chandrasekaran, A. 2024. Live performance, nutrient digestibility, immuneresponse and fecal microbial load modulation in Japanese quails fed a Bacillus-based probiotic alone or combination with xylanase. *Veterinary Quarterly*, 44: 1-9 [10.1080/01652176.2024.2364641](https://doi.org/10.1080/01652176.2024.2364641)
- 24) Sultan, A., Bibi, S., Naz, S., Islam, Z., Alrefaei, A.F., **R.U. Khan**, Abdelrahman, S. and Selvaggi, M. 2024. Effect of anise seed (*Pimpinella anisum* L.) and protease alone or in combination on growth performance, carcass characteristics, humoral immunity, nutrients digestibility and cecal microbiota in Japanese quails. *Food and Agriculture Immunology* 35:351 [0.1080/09540105.2024.2351362](https://doi.org/10.1080/09540105.2024.2351362)
- 25) Ayyub, A., Naz, S., Arooj, S., Alhidary, I., **R.U. Khan** and Pugliese, G. 2024. Seasonal variations in behavioral activity patterns of Antelope cervicapra in captivity. *Pakistan Journal of Zoology* <https://dx.doi.org/10.17582/journal.pjz/20231125050818>
- 26) Nasir, J.A., Chand, N., Hafeez, A. and **R.U. Khan**. 2024. Enhancing growth performance, immunity, and gut morphology in quails through oyster mushroom stem waste supplementation. *Pakistan Journal of Zoology* 56: 2301-2310. <https://dx.doi.org/10.17582/journal.pjz/20231115021054>
- 27) Guo, H., Wan, H., Lou, W., **R.U. Khan**, You, J., Huang, B., Hao, S., Li, G. and Dai, S. 2024. Deoxynivalenol and T-2 toxin cause liver damage and egg quality degradation through endoplasmic reticulum stress in summer laying hens. *International Journal of Biometeorology* 68: 1387-1396. [/10.1007/s00484-024-02674-w](https://doi.org/10.1007/s00484-024-02674-w)
- 28) Khan, S.M., **R.U. Khan**, Naz, S., Alrefaei, A.F., and Tufarelli, V. 2024. Interaction of blood calcium with milk yield, energy metabolites, subclinical mastitis, and reproductive performance in crossbred dairy cows. *Reproduction in Domestic Animals* 59:e14557. [10.1111/rda.14557](https://doi.org/10.1111/rda.14557)
- 29) Muhammad, M.D., Chand, N., Naz, S., Alhidary I.A., Shah, A.A., **R.U. Khan**, Losacco, C. 2024. Adaptation to Heat Stress in Broilers Using Dried Tomato Pomace and Zinc: Effects on Growth Performance, Oxidative Stress, Intestinal Features and Humoral Immunity. *Pakistan Journal of Zoology*
- 30) Naz, S., Bibi, G., Nadeem, R., Alhidary, I.A., Dai, S., Israr, M. and **R.U. Khan**. 2024. Evaluation of biological selenium nanoparticles on growth performance, histopathology of vital organs and genotoxicity in Japanese quails (*Coturnix coturnix japonica*). *Veterinary Quarterly* 44: 1-10. [10.1080/01652176.2024.2319830](https://doi.org/10.1080/01652176.2024.2319830)
- 31) Khan, R., Tahir, M., Naz, S., Alhidary, I.A., Shamsi, S., Dai, S., **R.U. Khan**, V. Tufarelli. 2024. Integrating dietary supplementation with poppy (*Papaver somniferum* L.) seed meal: effects on growth performance, nutrient digestibility, and faecal microbiota in broilers. *Archives of Animal Breeding* 67: 73-80. <https://doi.org/10.5194/aab-67-73-2024>, 2024

- 32) Kausar, S., Chand, N., Naz, S., Alhidary, I.A., Dai, S., Ayasan, T., **R.U. Khan**. 2024. In vitro and in vivo effects of methanolic extract of dietary ginger (*Zingiber officinale*) and onion (*Allium cepa*) supplementation on growth performance and fecal microbiota in *Escherichia coli* infected broiler chickens. *Livestock Science* 281:105416 <https://doi.org/10.1016/j.livsci.2024.105416>
- 33) Hafeez, A., Khan, D., Naz, S., Alonaizan, R., Al-Akeel, R.K., Israr, M. **R.U. Khan**. 2024. Effect of *Azolla pinnata* meal on growth, immunity, faecal *E. coli*, antioxidant capacity and gut histomorphology in Japanese quails. *Journal of Applied Animal Research* 52: 2310750 <https://doi.org/10.1080/09712119.2024.2310750>
- 34) Al-Atiyat, R.M., Suliman, G.M., Abu-Alruz, K., Al-Zyoud, F., Mamkagh, A., M. El-Waziry, A., Al-Owaimer, A.N. and **R.U. Khan**. 2024. Multivariate Discriminant Analysis on Differentiating Sheep Breeds Based on Live Body and Carcass Measurements. *Pakistan Journal of Zoology*, 56: 571-578. <https://dx.doi.org/10.17582/journal.pjz/20230816022706>
- 35) Bingqian, N., Shah, A.A., Ullah, S., **R.U. Khan**, Khan, M.S., Zaman A. and Muhammad, K. 2024. Exploring the role of insects as sustainable feed in aquaculture nutrition and enhancing antioxidant capacity, growth and immune response. *Turkish Journal of Fisheries and Aquaculture* 24 (5): TRJFAS24581
- 36) Gul, F., Amin, H., Naz, S., Khan, M.T., Alhidary, I.A., **R.U. Khan**, Pugliese, G. and Tufarelli V. 2024. Evaluation of blood minerals and oxidative stress changing pattern in pre-partum and post-partum Achai and Holstein Friesian dairy cows. *Reproduction in Domestic Animals* 59:e14525. DOI: 10.1111/rda.14525
- 37) Zhang X, Khan NA, Yao E, Kong F, Chen M, **R.U. Khan** et al. 2024. Effect of growing regions on morphological characteristics, protein subfractions, rumen degradation and molecular structures of various whole-plant silage corn cultivars. *PLoS ONE* 19(1): e0282547. <https://doi.org/10.1371/journal.pone.0282547>
- 38) Naz, S., Raza, N., Alhidary, I., Satti, S., Rafique, A., Batool, S., Shamsi, S., Dai, S. and **R.U. Khan**. 2024. Evaluation of copper nanoparticles on growth, organs histology and DNA damage in Japanese quails (*Coturnix coturnix japonica*). *Toxin Reviews* 43: 127-136. <https://doi.org/10.1080/15569543.2023.2298909>
- 39) Khan, M.I., Chand, N., Naz, S., Alonaizan, R., Hu, H. Shamsi, S. and **R.U. Khan**. 2024. Effects of zinc supplementation from organic and inorganic sources on growth, blood biochemical indices, and intestinal microarchitecture in broilers. *Veterinary Quarterly* 44 (1) 2298491 [10.1080/01652176.2023.2298491](https://doi.org/10.1080/01652176.2023.2298491)
- 40) Hafeez, A., Ali, S.S., Akhtar, J., Naz, S., Alrefai, A.F., Albeshr, M.F., Israr, M. and **R.U. Khan**. 2024. Impact of coriander (*Coriandrum sativum*), garlic (*Allium sativum*), fenugreek (*Trigonella foenum-graecum*) on zootechnical performance, carcass quality, blood metabolites and nutrient digestibility in broilers chickens. *Veterinary Quarterly* 44 (1):1-7 <https://doi.org/10.1080/01652176.2023.2300948>
- 41) Lou, W., Wu, W., Guo, H., Xiao, S., **R.U. Khan**, Zhang, X., Li, G. and Dai, S. 2024. Ameliorative Effect of Dietary Glutamine on Antioxidant Capacity of Broiler Chicks During Starter Phase Under Cold Stress. *Pakistan Journal of Zoology* 56: 2735-2742. <https://dx.doi.org/10.17582/journal.pjz/20221013091007>
- 42) Awan, A.K., Sultana, N., Khan, R.A., Sultana, R., Kalsoom, U., Sahibzada, F.A., **R.U. Khan**, Khan, N.A., Khan, N.A., Zaman, S.H., Shah, M.S. and Shah, A.A. 2024. Antioxidant and Antidiabetic Potentials of Punica granatum Peel Extracts in Alloxan Induced Diabetic Albino Rats. *Pakistan Journal of Zoology* 56: 2685-2694.

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- 44) Hafeez, A., Piral, Q., Naz, S., Almutairi, M.H., Alrefaei, A.F., Ayasan, T. **R.U. Khan**, and Losacco, C. 2023. Ameliorative effect of pomegranate peel powder on the growth indices, oocysts shedding, and intestinal health of broilers under an experimentally induced coccidiosis condition. *Animals* 13, 3790. <https://doi.org/10.3390/ani13243790>
- 45) Bingqian, N., Shah, A.A., Marta M., Wanapat, M., **R.U. Khan**, Ahmad, S., Ullah, S., Khan, M.S. and Shah, M.K., 2023. Insect bioactive compounds and their potential use in animal diets and medicine. *Entomological Research* 53: 429-443 *Research* <https://doi.org/10.1111/1748-5967.12682>
- 46) Imtiaz, M., Chand, N., Naz, S., Alhidry, I.A., Gul, S. and **R.U. Khan**. 2023. Effects of dietary inclusion of Moringa oleifera methanolic extract on productive performance, humoral immunity and nutrient digestibility in Japanese quails. *Journal of Applied Animal Research* 51: 743-748. [10.1080/09712119.2023.2278878](https://doi.org/10.1080/09712119.2023.2278878)
- 47) Hafeez, A., Ahmad, I., Naz, S., Alonaizan, R., Al-akeel, R.K., **R.U. Khan**, Tufarelli, V. 2023. Effect of Lemon (Citrus limon, L.) Peel Powder on Oocyst Shedding, Intestinal Health, and Performance of Broilers Exposed to E. tenella Challenge. *Animals* 13, 3533. <https://doi.org/10.3390/ani13223533>
- 48) Subhan, F., Chand, N., Naz, S., Alonaizan, R., Hu, H., Shamsi, S., and **R.U. Khan**. 2023. Effect of green tea (*Camellia sinensis* L.) as antimicrobial agent on growth performance and ileal histomorphology of broiler chickens. *Journal of Applied Animal Research* 51:771-775 <https://doi.org/10.1080/09712119.2023.2283183>
- 49) Nasir, J.A., Chand, N., Naz, S., Alhidary, I.A., **R.U. Khan**, Batool, S., Zelai, N.T., Pugliese, G., Tufarelli, V. and Losacco, C. 2023. Dietary Oyster Mushroom (*Pleurotus ostreatus*) Waste Inhibits Experimentally Induced Eimeria tenella Challenge in Japanese Quails Model. *Animals* 13, 3421. <https://doi.org/10.3390/ani13213421>
- 50) Raza, M.H., Tahir, M., Naz, S., Alhidary, I.A., **R.U. Khan**, Losacco, C., Tufarelli, V. 2023. Dried Date (*Phoenix dactylifera* L.) Meal Inclusion in the Diets of Broilers Affects Growth Performance, Carcass Traits, Nutrients Digestibility, Fecal Microbiota and Economics. *Agriculture* 13, 1978. <https://doi.org/10.3390/agriculture13101978>
- 51) Khan, M., Chand, N., Khan, S., Naz, S., Alrefai, A.F., Almutairi, M.K., Sifa, D. and **R.U. Khan**. 2023. Partial and Total Replacement of Soybean Meal with maggot larvae meal in Broiler Chicken Diets: Impact on growth performance, nutrients digestibility, Haematological Parameters and Intestinal Histomorphology. *Livestock Science* 277: 105355. <https://doi.org/10.1016/j.livsci.2023.105355>
- 52) Hafeez, A., Ali, S.S., Akhtar, J., Naz, S., Alhidary, I.A., Israr, M. and **R.U. Khan**. 2023. Garlic (*Allium sativum*), fenugreek (*Trigonella foenum-graecum*) and coriander (*Coriandrum sativum*): performance, nutrient digestibility and blood metabolites in broilers. *Journal of Applied Animal Research*, 51:1, 624-629. [10.1080/09712119.2023.2264966](https://doi.org/10.1080/09712119.2023.2264966)
- 53) Ullah, N., Khan, M. T., Naz, S., Alhidary, I. A., **R.U. Khan**, Losacco, C., Pugliese,

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- 54) Aslam, B., Hussain, A., Faisal, M.N., Sindhu, Z.D., **R.U. Khan**; Alhidary, I.A., Naz, S., Tufarelli, V. 2023. Curcumin Co-Encapsulation Potentiates Anti-Arthritic Efficacy of Meloxicam Biodegradable Nanoparticles in Adjuvant-Induced Arthritis Animal Model. *Biomedicines* 2023, 11, 2662. <https://doi.org/10.3390/biomedicines11102662>
- 55) Hafeez, A., Hassni, S.F., Naz, S., Alonaizan, R., Al-Akeel, R.K, Dai, S., Shamsi, S. and **R.U. Khan**. 2023. Impact of grape (*Vitis vinifera*) seed extract on egg production traits, nutrients digestibility, lipid peroxidation and fertility of golden laying hens (*Gallus gallus*) during early stage of production. *Veterinary Quarterly* 43: 1-7 <https://doi.org/10.1080/01652176.2023.2262543>
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- 61) Saeed, M., Aslam, F., Khan, M.S., Kamboh, A.A., Farooq, Z., **R.U. Khan**, Sultan, R., Moryani, A.A and Chen H. 2023. Nutritional significance and health benefits of quail's meat and eggs: an empirical review. *Pakistan Journal of Zoology* (Online): <https://dx.doi.org/10.17582/journal.pjz/20220507070529>
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- 63) Awan, A.K., Sultan, N., Khan, R.A., Sultana, R., Umm-e-Kalsoom, Sahibzada, F.A., **R.U. Khan**, Khan, N.A., Khan, N.A., Zaman, S.H., Shah, M.S. and Shah, A.A. 2023. Antioxidant and antidiabetic potentials of *Punica granatum* peel extracts in alloxan induced diabetic Albino rats. *Pakistan Journal of Zoology*, <https://dx.doi.org/10.17582/journal.pjz/20220515110519>
- 64) Aslam, B., Hussain, A., Sindhu, Z., Nigar, N., Jan, I.U., Alrefaei, A.F., Albeshr, M.F., Tufarelli V. and **R.U. Khan**. 2023. Polyphenols-rich polyherbal mixture attenuates

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