

Personal Information:

- ✚ Name: Dr. Nikhil K.C
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Academics:

Dr. Nikhil K.C. earned his B.V.Sc. & A.H. degree from Veterinary College, Shivamogga (KVAFSU, Bidar) in 2015. Subsequently, he completed his M.V.Sc. and Ph.D. in Animal Biochemistry from ICAR-Indian Veterinary Research Institute, Bareilly, in 2017 and 2021, respectively. In 2020, he served as a research scholar at the College of Veterinary Medicine, NC State University, Raleigh, U.S.A. Driven by academic excellence, he secured top ranks in various competitive examinations and received prestigious fellowships, including the CAAST (Centre for Advanced Agricultural Science and Technology)-ACLH (Advanced Centre for Livestock Health) overseas training program fellowship funded by World Bank-ICAR. His notable achievements include securing the 2nd rank in ICAR-JRF in 2015, ICMR-JRF in 2017, and ICMR-SRF in 2019. In 2017, he attained the 1st rank in the All India Ph.D. entrance examinations conducted by ICAR-IVRI and ICAR-NDRI. Dr. Nikhil K.C. also received an MHRD fellowship from the government of India during his undergraduate program. He has an impressive publication record with research articles, review articles, and popular articles in esteemed international and national journals. Additionally, he authored a book and two laboratory manuals. Possessing eight years of extensive research experience, Dr. Nikhil K.C. is a dedicated and accomplished Scientist with expertise in Molecular Microbiology and host-pathogen interaction. He has a proven track record of publishing in renowned journals and contributing significantly to the scientific community. After working as an Assistant Professor in the Department of Veterinary Physiology and Biochemistry at NDVSU, Jabalpur for one year, he recently joined the Agriculture Research Service (ARS) in April 2023.

Research Areas: Host-Pathogen Interaction, Molecular Microbiology, Genome Recoding, Genome Editing, Proteomics, and Immunology.

Awards and Recognitions

- Recipient of “CAAST (Centre for Advanced Agricultural Science and Technology)-ACLH (Advanced Centre for Livestock Health) overseas training program” fellowship funded by World bank-ICAR (Indian Council of Agriculture Research).
- Recipient of “ICMR-SRF (2019)” by Indian Council of Medical Research, India.
- Recipient of “ICMR-JRF (2017)” by Indian Council of Medical Research, India.
- Recipient of “ICAR-JRF (2015)” by Indian Council of Agriculture Research, India.
- Recipient of “IVRI-Deemed University, Institutional Fellowship (2015)” by ICAR-IVRI, Deemed University, Bareilly, India.

- Recipient of MHRD (Ministry of Human Resource Development) fellowship by the government of India (2010-2015).
- Recipient of Karnataka Veterinary, Animal science and Fisheries University merit scholarship (2010, 2012).
- Recipient of Vidyasiri Scholarship funded by the government of Karnataka.
- Achieved 2nd rank in the All India postgraduate entrance examination (ICAR-AIEEPG) conducted by ICAR.
- Secured 1st rank in All India Ph.D. entrance examination conducted by ICAR-IVRI and ICAR-NDRI.
- Secured 1st rank in ICAR- ARS examination (2021) in the discipline of Animal Biochemistry.
- Best Oral Presentation and Poster Presentation (1st) in National symposium on recent trends in bioinformatics strategy for disease mechanism and biomedicine.
- Best Paper Award for the Oral Presentation presented in technical session on Biochemical interventions and Metabolomics during the 4th National seminar and Annual convention of SVBBI on Current Research in Veterinary Biochemistry and Biotechnology in the improvement of Animal Health and Production held on 4-5th Feb, 2020 at SVVU, Tirupati.
- Best Paper for the Poster presentation at 6th National Symposium and Annual Convention of SVBBI – 2023 at NDVSU, Jabalpur held on on 5th and 6th January 2023
- Best Paper for the Oral presentation at 7th Annual Convention of the Society and International symposium on “Multiomics to One Health: Challenges and Way Forward in Biomedical Research” to be organized by Division of Biochemistry, IVRI, Izatnagar on 14th and 15th December 2023.

Publications

Peer Reviewed/Refereed Journals:

1. **Nikhil, K. C.**, Noatia, L., Priyadarshini, S., Pashupathi, M., Gali, J. M., Ali, M. A., & Behera, P. (2022). Recoding anaerobic regulator fnr of Salmonella Typhimurium attenuates its pathogenicity. *Microbial Pathogenesis*, 105591. <https://doi.org/10.1016/j.micpath.2022.105591>.
2. Behera, P¹., **Nikhil, K. C**¹., Kumar, A¹., Gali, J. M., De, A., Mohanty, A. K., ... & Sharma, B. (2020). Comparative proteomic analysis of Salmonella Typhimurium wild type and its isogenic fnr null mutant during anaerobiosis reveals new insight into bacterial metabolism and virulence. *Microbial pathogenesis*, 140, 103936. <https://doi.org/10.1016/j.micpath.2022.103936>. (¹Equal contribution to the first author)
3. **Nikhil, K. C.**, Priyadarsini, S., Pashupathi, M., Ratta, B., Saxena, M., Ramakrishnan, S., ... & Kumar, A. (2021). Regulatory role of fnr gene in growth and TolA gene expression in Salmonella Typhimurium. *Indian Journal of Animal Research*, 55(7), 774-779.

4. Mani, Pashupathi, Swagatika Priyadarsini, **Nikhil K. Channabasappa**, Pravas Ranjan Sahoo, Rohit Singh, Meeta Saxena, Vikramaditya Upmanyu et al. "Role of narL gene in the pathogenesis of Salmonella Typhimurium." *Journal of Basic Microbiology* (2023).
5. **Nikhil, K. C.**, Rana, J., Patel, S. K., Agrawal, A., Govil, K., Singh, A., ... & Tiwari, S. P. (2022). Monkeypox: A global threat to domestic and wild animals–Correspondence. *International Journal of Surgery*, 107, 106974.
6. Patel, Shailesh K., Aditya Agrawal, **Nikhil K. Channabasappa**, Jigyasa Rana, Rajat Varshney, Ankush K. Niranjana, Dhruv N. Desai, Megha K. Pandey, Tejinder Kaur, and Sita P. Tiwari. "Recent outbreak of Sudan ebolavirus in Uganda and global concern." *International Journal of Surgery* (2023): 10-1097.
7. Patel, S. K., Sharma, K., Agrawal, A., **Nikhil, K. C.**, Niranjana, A. K., Pandey, M. K., ... & Tiwari, S. P. (2023). Viral spillover to humans: could Langya (LayV) virus cause a pandemic?. *QJM: An International Journal of Medicine*, 116(5), 332-334.
8. Patel, S. K., **Nikhil, K. C.**, Rana, J., Agrawal, A., Desai, D. N., Raghuvanshi, P. D., ... & Kaur, T. (2023). Sudan ebolavirus (SUDV) outbreak in Uganda: transmission, risk assessment, prevention, and mitigation strategies–correspondence. *International Journal of Surgery*, 10-1097.
9. **Channabasappa, Nikhil**. K., Niranjana, A. K., & Emran, T. B. (2023). SARS-CoV-2 variant omicron XBB. 1.5: challenges and prospects–correspondence. *International Journal of Surgery*, 109(4), 1054.
10. **Channabasappa, Nikhil**. K., Patel, S. K., Singh, D. R., Niranjana, A. K., Rana, J., Agrawal, A., ... & Tiwari, S. P. (2023). Vitamin D in therapy and management: armor against COVID-19–correspondence. *Annals of Medicine and Surgery*, 85(4), 1319.
11. Niranjana, A. K., Patel, S. K., **Channabasappa, Nikhil**. K., Rana, J., Agrawal, A., Kumar, R., ... & Singh, D. R. (2023). Resurgence of cholera in the COVID-19 era: a global health concern. *Annals of Medicine and Surgery*, 85(4), 1321.
12. Patel, S. K., Rana, J., Agrawal, A., **Channabasappa, N. K.**, Niranjana, A. K., & Emran, T. B. (2023). Mpox and the need for improved diagnostics–correspondence. *Annals of Medicine and Surgery*, 85(4), 1323.
13. Agrawal, A., Rana, J., Patel, S. K., **Channabasappa, N. K.**, Niranjana, A. K., & Emran, T. B. (2023). Melting of permafrost: rise of Zombies. *IJS Global Health*, 6(3), e133.
14. **Nikhil, K. C.**, Pruthviraj, D. R., Aderao, G. N., & Kumar, K. P. H. (2020). CRISPR-Cas9: a promising genome editing tool. *Journal of Experimental Zoology, India*, 23(1), 1-12.
15. Swagatika, P., **Nikhil, K. C.**, Barkha, R., Pashupathi, M., Parthasarathi, B., & Ajay, K. (2019). Effect of mutation resulted from error prone PCR on the strength of promoter activity. *Journal of Experimental Zoology, India*, 22(2), 981-986.
16. Ratta, B., Priyadarsini, S., **Channabasappa, N. K.**, Mani, P., Saxena, M., Saravanan, R., & Kumar, A. (2020). Optimization of recombinant glycoprotein D (gD) based indirect ELISA for detection of antibodies against bovine herpesvirus-1. *Adv. Anim. Vet. Sci*, 8(8), 853-860.

Books

1. Agrwal A., **K.C, Nikhil.**, Patel, Shailesh K (2023). “Animal Biochemistry at glance”. Elite Publishing House (ISBN 978-93-95185-73-8).
2. Rawat, K., Agrwal, A., **K C, Nikhil**, Priyadarsini S (2022). “Recent clinical techniques in veterinary biochemistry – I. Elite Publishing House (EPH).
3. Agrwal, A., Priyadarsini, S., **K C, Nikhil**, Rawat, K (2022). “Recent clinical techniques in veterinary biochemistry – II. Elite Publishing House (EPH).