

Scientist

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**Date of Joining ICAR:** 11th April 2023

**Date of Joining NRC on Mithun:** 19th July 2023

**Discipline:**Animal Physiology

**Area of Specialisation:**Stress physiology, Lactation and Immunophysiology

**Research Accomplished:**

* **Somagond, Y. M**., Alhussien, M. N., & Dang, A. K (2023). Repeated Injection of Multivitamins and Multiminerals During the Transition Period Enhances Immune Response by Suppressing Inflammation and Oxidative Stress in Cows and their Calves. Frontiers in Immunology, 14, 538. (IF – 8.786)
* Nagargoje, S. D., **Somagond, Y. M**., Panda, B. S., & Dang, A. K. (2023). Enzymes in mastitis milk. In Enzymes Beyond Traditional Applications in Dairy Science and Technology (pp. 37-56). Academic Press.
* Devi, P., Singh, M., **Somagond, Y. M**., & Aggarwal, A. (2021). Alleviation of heat stress by Chlorophytum borivilianum: impact on stress markers, antioxidant, and immune status in crossbred cows. Tropical Animal Health and Production, 53(3), 1-10. (IF – 1.893)
* **Somagond, Y. M**., Singh, S. V., & Deshpande, A. (2019). Effect of dietary supplementation of astaxanthin, prill fat and combination on stress indicators, milk yield and composition during heat stress in buffaloes. *Biological Rhythm Research*, 53(5), 665-675. (IF – 1.362)
* Devi, P., Singh, M., and **Somagond, Y. M.** (2021). Comparative Efficacy of Physiological Responses and Skin Temperatures in Indigenous and Crossbred Cattle Supplemented with Chlorophytum borivilianum in Summer Season. *Indian Journal of Animal Research*. DOI: 10.18805/IJAR.B-4539. (IF – 0.427)
* **Somagond, Y. M**., Singh, S. V., Deshpande, A., Sheoran, P., & Chahal, V. P. (2021). Effect of dietary supplementation of astxanthin, prill fat and their combination on antioxidants and immunity status of lactating buffaloes during heat stress. *Buffalo Bulletin*, 40(3), 451-463. (IF – 0.20)
* **Somagond, Y. M**., Singh, S. V., Deshpande, A., Sheoran, P., & Chahal, V. P. (2021). Infrared thermography to assess thermoregulatory reactions of buffaloes supplemented with antioxidant and dense energy source in summer season. *Journal of Agrometeorology*, 23(3), 243-248. (IF – 0.27)
* Deshpande, A., Singh, S. V., **Somagond, Y. M**., Sheoran, P., Naskar, S., & Chahal, V. P. (2020). Physio-biochemical responses and growth performance of buffalo heifers to betaine supplementation during hot humid season under field conditions. *Indian Journal of Animal Science*, 90, 416-423. (IF – 0.29)
* **Somagond, Y. M**., Singh, S. V., Deshpande, A. D. I. T. Y. A., Sheoran, P., & Chahal, V. P. (2020). Physiological responses, energy metabolites and prolactin levels of buffaloes supplemented with dietary astaxanthin, prill fat and their combination during heat stress. *Indian Journal of Animal Science*, 90, 55-60. (IF – 0.29)
* Singh, S. V., **Somagond, Y. M**., & Deshpande, A. (2021). Astaxanthin–King of antioxidants as immune modulator and anti-inflammatory for enhancing productive performance and health of animals. *Indian Journal of Dairy Science*, 74(1), 1-7. (IF - 0.21)
* Singh, S. V., **Somagond, Y. M**., & Deshpande, A. (2021). Nutritional management of dairy animals for sustained production under heat stress scenario. *Indian Jornal Animal Science*, 91, 337-49. (IF – 0.29)
* Singh, S., Deshpande, A. D., & **Somagond, Y. M**. (2022). Betaine: A potent feed additive for amelioration of adverse effect of heat stress in livestock and poultry. *Indian Journal of Animal Science*, 241-256. (IF – 0.29)

**Awards & Honours:**

* Animal Physiologists Association (APA) Best MVSc Thesis Award 2019
* Best Poster Presentation Award in Animal Physiologists Association - 2019
* Best Oral Presentation in National Seminar AGMET-2020 Kerala Agriculture University, Thrissur, Kerala
* Best Poster Presentation 48th Dairy Industry Conference, Dairying for Health & Wealth, 2020.
* SAPICON Best Thesis Award - S. C. Sud Memorial Best Doctoral Thesis Award 2023

**Member of the Societies:**

* Life member of Animal Physiologists Association of India (APA/222/2019)
* Life member of Society of Animal Physiologists of India (SAPI-23/04/0797)