## Contents

### Review and Overview

1. **Goat is not a scapegoat in escalating anthelmintic resistance in small ruminants**  
   P.K. Sanyal  .......................................................... 1

### Research Papers

2. **PCR-RFLP analysis for exons of diacylglycerol acyltransferase-1 gene in Jamunapari goats**  
   Pallavi Singh, M.K. Singh, P.K. Rout and M.S. Dige  .............................................................. 9

3. **Estimation of (co) variance components for growth traits in Magra sheep**  
   Vivekanand, H.K. Narula, R.K. Joshi, H. Singh and A. Chopra  ................................................... 12

4. **Influence of environmental factors on production traits and heritability estimates of Magra sheep in an arid region**  
   H.K. Narula, A.K. Patel, Ashish Chopra and Vimal Mehrotra  .................................................. 21

5. **Performance of New Zealand White rabbits in subtropical climate of Sikkim**  
   R. Chandra, H.D. Karmakar, L.R. Chatlod and H. Rahman  .......................................................... 26

6. **Effect of floor type on body surface temperature and their relationship with physiological variables in kids during hot dry period**  
   N. Ramachandran and S.P. Singh  ................................................................................................. 30

7. **Evaluation of maize grain varieties for in vitro gas production and methane emission**  
   Shalini Vaswani, Ravindra Kumar, Vinod Kumar, Debashis Roy and Munendra Kumar  .................. 35

8. **Isolation, serotyping and antibiogram of *Escherichia coli* from neonatal kids**  
   Hardik I. Patel, I.H. Kalyani, Pramod S. Sakhare and Kishan K. Sharma  ..................................... 39

9. **Response to challenge infection in sheep selected for resistance and susceptibility to *Haemonchus contortus***  
   C.P. Swarnkar and D. Singh  ........................................................................................................ 43

10. **Study on pathological changes caused by *Oestrus ovis* in small ruminants of Jammu**  
    Taniya Saleem, R. Katoch, Anish Yadav and R. Godara  ................................................................. 52

11. **Histological changes in glands of uterine horn during different stages of pregnancy in goats**  
    Vijay Kumar, S.P. Singh, M.M. Farooqui, Chetna Gangwar, Prabhakar Kumar and Ajay Prakash  ........ 56

12. **Effect of foxtail millet flour on quality and storage stability of functional chevon sausages**  

13. **Effect of ginger oil on tenderization of spent goat meat**  
    S. Saranya, A. Kalaikannan, D. Santhi, S. Sureshkumar and A. Balasundaram  .......................... 68

14. **Colourless natural antimoth agents for woollens**  
    Ajay Kumar, P.K. Pareek, D.B. Shakyawar and V.V. Kadam  .......................................................... 73

### Short Communications

15. **Cytogenetic characterization of Macherla Brown sheep of Andhra Pradesh**  
    B. Nityanand, B. Ekambaram, B. Punya Kumari and J. Suresh  .................................................. 77

16. **PCR-SSCP analysis of exon 2 of myostatin (*MSTN*) gene in Marwari goats**  
    Jai Prakash Khichar, Gyan Chand Gahlot, Kiran, Vijay Kumar Agrawal and Kritika Gahlot  ............. 81

17. **Growth and wool yield of Nilagiri and Synthetic (Nilagiri x Merino crossbred) lambs under different systems of management**  
    C. Soundararajan, V. Palanisamy and M. Iyengar  ........................................................................ 84

18. **Growth performance of Nellore Jodipi sheep at an organized farm in Andhra Pradesh**  
    I. Satish Kumar, G. Gangaraju, C. Vijaya Kumar and Sapna Nath  .................................................. 87

19. **Effect of non-genetic factors and inbreeding levels on post-weaning growth traits of Chokla sheep**  
    Vinita Kumari, U. Pannu, A. Chopra, Anupam Buri and L.L.L. Prince  ........................................... 90

20. **Haemato-biochemical profiles of Malabari kids fed broiler concentrate diet**  

21. **Effects of sex and body region on the wool characteristics of Bhakarwal sheep**  
    Asiya Kazmi, Sarfaraz A. Wani, Asif H. Sofi, Masood Saleem Mir and Hilal Musadiq Khan  .......... 97

22. **Growth pattern and management practices of Black Bengal goats in tribal area of Jharkhand**  
    Maroof Ahmad and Dinesh Mahato  ............................................................................................... 101
23. Recovery of preantral follicles from goat ovarian cortex through mechanical and enzymatic procedures
   A.K. Sharma, S.S. Chaudhary and G. Puri

24. Evaluation of extenders for chilled preservation of Malabari buck semen
   Mayur Pawshe, Hiron M. Harshan, M.O. Kurien and Ambili John

25. Evaluation of urea molasses multinutrient block supplementation in Beetal cross goats
   V. Singh, Rajiv Singh and K. Hussain

26. Juvenile goitre in a kid: evaluation and treatment
   Vivek Joshi, Shahjahan Alam, A.G. Bhanuprakash and U. Dimri

27. Haemato-biochemical effects of lumbosacral epidural anaesthesia with ropivacaine and dexametomidine in goats
   Lalita Kumari, A.K. Sharma, Laxmi Kumari and M.P. Sinha

28. Histomorphological and scanning electron microscopic studies of thyroid gland in Jamunapari goats
   O.P. Choudhary and P.J. Doley

29. Age-related changes in cortical depth and neuronal cell packing density in cerebral cortex of goat
   A.M. Salankar, R.S. Dalvi, N.C. Nandeshwar, S.K. Sahatpure, M.G. Thorat and P.M. Gedam

30. Histological and histochemical studies on the moderator bands of prenatal goat
   S.K. Gupta, Archana Pathak, M.M. Farooqui and Ajay Prakash

31. Effect of space allowance on social behaviour of Osmanabadi kids
   Rameswar Panda, P.P. Ghorpade, H.Y. Pallampale and N.R. Dagli

32. Assessment of management practices followed by small ruminant farmers in Uttar Pradesh
   Deepak Singh, Priscilla Kerketta, Anand Kumar and Neeraj

33. Adoption of improved scientific goat rearing practices in Tamil Nadu
   P. Suresh Kumar and P. Vasanthakumar

Author index ........................................................................................................ (i)
Subject index ....................................................................................................... (ii)
Instructions for authors ...................................................................................... (iii)