

# Contents

## Journal of Animal Research

Vol. 10, No. 6, December 2020

|  |     |
|--|-----|
| Leptospirosis a Neglected Re-emerging Zoonoses in India: An overview   | 853 |
| <i>Lata Jain and Vinay Kumar</i>   |     |
| Effect of Different Cryoprotectants in Cryopreservation of Dog Semen: A Review   | 859 |
| <i>Kaushal Kusum, Harendra Kumar, Raghavendra P. Mishra, Brajesh Kumar and Saurbh</i>  |     |
| Salmonella Load in Rui Fishes and Suggestive Remedies in Cooking Process of Bangladeshi Dish   | 869 |
| <i>Sabira Sultana, Bidduth Kumar Sarkar, Prema Modak and Sukalyan Kumar Kundu</i>  |     |
| Polymorphism of the Ovine Calpastatin (CAST) Gene and its Association with Productive Traits in Nellore Sheep  | 881 |
| <i>B. Ramadevi, B. Punya Kumari, K. Sudhakar, G. Gangaraju and U. Vinod</i>  |     |
| Down-Regulation of Rho GTPase-Activating Protein 7 (DLC1) in Tear Film and Modulation of Rho GTPase Dynamics by Rosuvastatin in Dogs Suffering from Keratoconjunctivitis Sicca | 889 |
| <i>Swapana, C.R., Aswathy Gopinathan, Kiranjeet Singh, Sasikala, R., Akshay Kumar, Sowbharenaya Chelladuraai, Naveen Kumar, Monalisa Sahoo and Ravi Kant Agrawal</i>           |     |
| Pharmacokinetics of Amikacin after Repetitive Intravenous Administration in Healthy Goats  | 899 |
| <i>Namrata Upadhyay, Nitesh Kumar, Arpita Shrivastav, Manoj Kumar Ahirwar, Swatantra Singh, Neeraj Shrivastava and Rajeev Ranjan</i>   |     |
| Circulative Oxidative Stress Indices and Ameliorative Potential of S-Adenosyl Methionine in Canine Sarcopes Infestation  | 907 |
| <i>Ankur Upadhyay, Mukesh Kumar Srivastava, Amangeet Parashar, P.N. Panigrahi, Jaideep Singh, Vimlesh Kumar, Anil Singh, Barkha Sharma and Shivani Rajoriya</i>                |     |

|   |     |
|---|-----|
| Effect of Different Levels of Rice Gluten Meal with and without Enzyme Supplementation on Duodenal Morphology of Broilers   | 917 |
| <i>Lakhvir Singh, Udeybir Singh, Devendra Pathak, J.S. Lamba and A.P.S. Sethi</i>   |     |
| Effect of Tomato Pomace Supplementation on the Nutritional Value of Dog Diet as Assessed by <i>In-Vitro</i> Digestibility   | 925 |
| <i>Charandeep Singh, A.P.S. Sethi, Udeybir Singh, O.P. Malav and Haneet Kaur</i>  |     |
| Effect of Transglutaminase and Egg White on Functional Properties and Microstructure of Fish Paneer from Tilapia and Common Carp  | 931 |
| <i>A. Sarojini, D. Sukumar and Vikas Kumar</i>  |     |
| Therapeutic Management, Genital Changes versus Blood Biochemical Constituents of Repeat Breeder Crossbred Cows  | 941 |
| <i>Lakshya Jyoti Dutta, Raju Deka, Keshab Chandra Nath, Dipak Bhuyan, Manjyoti Bhuyan, Manna Baruti, Durlav Prasad Bora and Indrajit Gayari</i>   |     |
| Immunoreactivity of PAX 6, Recoverin and Calbindin Activity in the Retina of Buffaloes with Ageing  | 949 |
| <i>Prasanth Babu A, Jagapathi Ramayya P, Nagamalleswari Y, Sreenu M and Lakshmi Kavitha K</i>   |     |
| Effect <i>Trigonella foenumgraecum</i> and <i>Tinospora cordifolia</i> feed additives on Carcass Traits of Broilers in Konkan Climatic Conditions of India                                  | 953 |
| <i>V.Y. Bharambe and Y.A. Garde</i>   |     |
| Effect of Feeding <i>Artocarpus heterophyllus</i> , <i>Terminalia bellerica</i> and <i>Carica papaya</i> Plant Leaves on Rumen Microbial Enzymes and Growth Performances in Assam Hill Goat | 961 |
| <i>Purabi Thakuria, Rita Nath, Dhruvajyoti Kalita, Probodh Borah, Champak Barman, Krishna Sharma, Satya Sarma and Rajib Sharma</i>  |     |
| Epidemiological Study on Ticks infestations in Cattle of Jharkhand and Therapeutic Evaluation of Cypermethrin, Deltamethrin and Flumethrin  | 967 |
| <i>Sudhanshu Shekhar and J.P. Singh</i>   |     |

|   |      |
|---|------|
| Secular Analysis of Domestic Animals Composition in Indian Context: Recent Evidence   | 973  |
| <i>Kailash Chand Bairwa, Harkesh Kumar Balai, Anju Yadav, Dasharath Prasad, Yogesh Murariya, Hari Singh and Girdhari Lal Meena</i>      |      |
| Effect of Supplementing Butyric Acid on Growth Performance and Carcass Quality Traits in Broiler  | 985  |
| <i>Kartik Tomar, Raj Kumar, Debashis Roy, Nazim Ali, S.P. Yadav, D.S. Sahu, Ajit Kumar, Mpho Nametso Moilwa and Manoj Kumar Bansala</i> |      |
| Incidence of Decreasing Population of House Crow ( <i>Corvus splendens</i> ) in Some Pockets of Malwa Region of Punjab, India           | 993  |
| <i>Manpreet Kaur and K.S. Khera</i>   |      |
| Influence of Biopreservatives and Vacuuming Packaging on Sensory Quality of Milk Solids based Khoa during Frozen Storage (-18±2 °C)     | 1001 |
| <i>Vaquil, P.K. Bhardwaj and Surender Kumar</i>   |      |
| A Guide on Hemato-Biochemical Profiles of Indigenous Manipuri Cattle  | 1009 |
| <i>Bhabesh Mili, Amrit Gogoi, Lalitankimi, Rajkumari Mandakini Devi, Tukheswar Chutia, Lalchawimawia Ralte and Malsawmkima</i>          |      |
| Effect of Heat Stress on Reproductive Performance, Blood Biochemical and Physiological Parameters of Sows Following Mating              | 1015 |
| <i>Suresh Kumar, Champak Barman, G. Kadirvel, G. Khargharia, Geetima Barman and D.J. Rajkhowa</i>                                       |      |
| Studies on Productive Performance and Biometry in Traditionally Reared Indigenous Goats of Andhra Pradesh                               | 1021 |
| <i>Lakshmi Parvathi, A., Punya Kumari, B., Sakuntala Devi, K., Ravindra Reddy, Y. and Vinod, U.</i>                                     |      |
| Adult Body Weights and Morphometric Traits of Ganjam Goats of Odisha and Prediction of Body Weights from Body Measurements              | 1029 |
| <i>Dillip Kumar Karna, Aditya Prasad Acharya, Bhabesh Chandra Das, Gangadhar Nayak and M.R. Dibyadarshini</i>                           |      |
| Seasonal Prevalence and Antibigram Studies of Bovine Mastitis in Southern Haryana   | 1037 |
| <i>Jinu Manoj and Manoj Kumar Singh</i>   |      |

|   |      |
|---|------|
| Mode of Inheritance of Immunocompetence Traits in Three Japanese Quail Populations  | 1043 |
| <i>Monika, M., J.J. Rokade, Narayan, R., Snehasmita Panda, Jyotirmoy Saharia, Mukesh T. Nampalle and Suchismita Pradhan</i>   |      |
| Carcass Traits and Meat Composition of Hansli × CSML bird under Intensive and Semi-intensive Rearing Systems  | 1051 |
| <i>Abhijeet Champati, Lipismita Samal, Nrusingha Charana Behura, Prasad Kumar Pati, Soubhagya Muduli and Haresh Kashinathrao Popalghat</i>                            |      |
| Effect of Tulsi ( <i>Ocimum sanctum</i> ) Leaf and Ginger ( <i>Zingiber officinale</i> ) Powder as Feed Additives on Haemato-biochemical Parameters of Broiler Chicks | 1057 |
| <i>Kavita Shende, Rajesh Kumar Dhuria, Deepika Goklaney and Yogesh Kumar Barolia</i>  |      |
| Comparison of Growth Performance of Goat Kids Under Supplementation with Different Probiotics   | 1063 |
| <i>K. Smita Sivadasan and Shinoj Subramannian</i>   |      |
| <i>Azolla</i> Cultivation to Produce Sustainable Feed Ingredient: Chemical Composition and its Impact on Performance of Broiler Chickens                              | 1067 |
| <i>Rohan Kumar Sharma, A.K. Pathak, R.K. Sharma and Neelesh Sharma</i>  |      |
| Prevalence of H9N2 Avian Influenza Virus in Live Bird Markets of Eastern Madhya Pradesh   | 1077 |
| <i>Baleshwari Kurmi, Harshad Vinayak Murugkar, Manoj Kumar, Chakradhar Tosh, Shanmugasundaram Nagarajan, Asha Verma, Sushil Tripathi and Vijendra Pal Singh</i>       |      |
| Effect of Feeding Rice Based Distillers Dried Grains Solubles with and without Enzymes on Gut health of Broiler Chickens  | 1085 |
| <i>Om Prakash Dinani, Pramod Kumar Tyagi, J.S. Tyagi and J.J. Rokade</i>  |      |
| <b>SHORT COMMUNICATION</b>  |      |
| Effect of Melatonin Supplementation on Physiological Observations in Buffalo Calves under Summer Stress   | 1095 |
| <i>Vijay D. Dimple, Amol R. Padol, C.D. Malapure, Bhupesh P. Kamdi and Roshan M. Sarode</i>   |      |
| Evaluation of Morphometric Measurements to Estimate Body Weight in Crossbred Landly Pigs (Landrace*Desi)  | 1099 |
| <i>Anjali Kumari, Triveni Dutt, Amit Kumar, M.R. Verma and Rupasi Tiwari</i>  |      |