

Indian Journal of Animal Research

Editorial Board

Chief Editor	:	K.M.L. Pathak Ex-Vice Chancellor, DUVASU, Mathura
Associate Chief Editor	:	L.D. Singla, Professor, G.A.D.V.A.S.U., Ludhiana
Managing Editor	:	Gaurav Gupta, A.R.C.C., Karnal

Editors

N.B. Shridhar, K.V.A.F.S.U., Bengaluru	C. Valli, TANUVAS, Kattupakkam
M.R. Saseendranath, K.V.A.S.U., Mannuthy	Z.A. Pampori, SKUAST-K, Srinagar

Members

Mustapha Debboun, USA	C. Balachandran, Chennai
A.K. Srivastava, New Delhi	A.K. Mishra, Karnal
Narayan Dutta, Izatnagar	Nitin Tyagi, Karnal
A.K. Ghosh, Pantnagar	M. Gnana Prakash, Hyderabad
A.J. Dhami, Anand	Ramneek Verma, Ludhiana
Om Hari Chaturvedi, Kullu	Deepak B. Patil, Gandhinagar
Archana Verma, Karnal	A.K. Thiruvankadan, Namakkal
Minakshi Prasad, Hisar	S.N.S. Randhawa, Ludhiana
R. Richard Churchil, Chennai	R.N. Chatterjee, Hyderabad
Pankaj Kumar, Patna	K.K. Bonia, Khanapara
S.K. Rastogi, Pantnagar	Daljeet Chhabra, Mhow
Sanjeev Kumar, Izatnagar	Arun K. Tomar, Avikanagar
Gorakh Mal, Palampur	Ashwani Kumar, Ludhiana
J.K. Jena, New Delhi	

Executive Members

Jafrin Ara Ahmed, Jammu	Sushila Maan, Hisar
Olusiji Frederick Smith, Nigeria	Ni Nyoman Suryani, Indonesia
Shiv Kumar Sharma, Bikaner	Avdhesh Kumar, Pantnagar
N. Rajanna, Hyderabad	Nawab Nashiruddin, Jammu
S. Bharathi, Tirupati	Champak Bhakat, Nadia

Agricultural Research Communication Centre

294, Narsi Village Part 2, Sector 33, Karnal- 132 001, India.
E-mail : contact@arccjournals.com ; editor@arccjournals.com
Website: www.arccjournals.com

INDIAN JOURNAL OF ANIMAL RESEARCH

Volume 57 Issue 11, November 2023

NAAS Rating 6.43

CONTENT

Page No.

GENETICS AND BREEDING

Genetic Polymorphism in Prolactin Gene and its Effect on Test Day Milk Production Traits in Sahiwal Cattle

T. Karuthadurai, A.K. Chakravarty, A. Kumaresan, D.N. Das, A. Sakthivel Selvan, T. Chandrasekar, B.S. Pradeep Nag, Aneet Kour

1425

Characterization, Production and Reproduction Performance of Southern Odisha Goats

Surita Majumder, S.K. Dash, L. Samal, C. Mishra, D.K. Karna

1432

ANIMAL PHYSIOLOGY

Myrrh Attenuates Gonadal Toxicity and DNA Fragmentation Induced by Ethanol in Male Rats

Abeer Alahmari

1438

Physiological, Hematological, Biochemical and Thermographic Changes on Supplementation of Rumen Protected Methionine and Choline in Transition Surti Buffaloes

S.D. Rathwa, S.S. Chaudhary, V.K. Singh, S.B. Patel, T.D. Manat

1448

Evaluation of Cryoprotective, Cryocapacitation Inhibitory and Fertility Enhancing Potential of RU-486, Sericin and Taurine in Cattle and Buffalo Semen

Devangana Chaturvedi, A.J. Dhami, D.V. Chaudhari, A.C. Patel

1455

The Effect of Habitat Manipulation on Early Gonad Maturation of *Channa striata* in Captive Condition

Dushyant Damle, Rajesh Kumar, B. Ahilan, Bindu R. Pillai, P. Chidambaram, Pragyan Paramita Swain, Jackson Debbarma, J.K. Sundaray

1462

Impact of Extreme Hot Environmental Temperature Period on Marker Enzymes of Carbohydrate Metabolism in Non-descript Sheep from Arid Tracts of Rajasthan

Anandita Srivastava, Nalini Kataria

1469

BIOCHEMISTRY AND BIOTECHNOLOGY

Polymorphic Variants Analysis in *Peroxisome Proliferator-Activated Receptor Gamma Coactivator 1-Alpha* (PPARGC1A) Gene of Indian and Egyptian Buffaloes

Sonia Sihag, Hossam E. Rushdi, Anil Kumar, Alka Jangra, Mohamed S. Hassanane, Hamdy Abdel-Shafy, Vinod Chhokar

1474

Bactrian Camel (*Camelus bactrianus*) Milk Exosomes Promote Glucose Consumption in L6 Cells

Bin Yang, Zhuwei Guo, Pengbin Liu, Demtu Er

1480

ANATOMY AND HISTOLOGY

- Patho-morphological and Immunohistochemical Studies on Bovine Horn Core Carcinoma
Vivek Kumar, Dhananjay Kumar Jolhe, Ratan Chandra Ghosh, Rukmani Dewangan, Prashant M. Sonkusale, Sonu Sharma 1485
- Adipogenic Differentiation of Canine Hair Follicle Stem Cells (cHFSCs)
N. Hemavathi, Sabiha Hayath Basha, S. Usha Kumary, R. Sivashankar 1497
- Morphometrical Studies on the Exterior of the Heart of Pre-natal Non-descript Sheep
S.K. Sahu, U.K. Mishra, S. Sathapathy, S.M. Nanda 1502

NUTRITION

- Assessment of Phosphorus Mobilizing Capacity of *Bacillus* spp. Isolated from Mangrove Rhizospheric Sediment and its Potential Application in Aquaculture
S. Aruna, D. Manikandavelu, A. Uma, Cheryl Antony, N. Jayakumar 1506
- Sun-dried Stylo Hay (*Stylosanthes guianensis* CIAT 184) as Dietary Fibre Source in Rabbits
K.S. Kouadio, Y.M. Yapi, M. Kimse, K.J.B. Alla, T. Gidenne, E.N. Wandan 1512

HEALTH

- Formicidae Faunal Succession on Buried Rabbit Carcass: Implications for Forensic Entomology
F.A. Al-Mekhlafi, O. Al-Zahrani, M.S. Al-Khalifa, A.H. Al-Qahtni 1517
- Changes in Intestinal Microflora Diversity of Diarrhea Calves among Different Seasons using Metagenomic Sequencing Analysis
Yumei Cai, Yazi Li, Liyun Chang, Xiaoyue Wang, Chenghui Li, Zhiyong Liu, Lixue Dong 1525
- An Evaluation of Hybridoma based Anti-tick Vaccine against *H. Dromedarii* Tick Infesting Camels
Tahseen Ara, Asim Iqbal, Rehana Mushtaq, Nayab Khan, Arshia Sumbal 1532
- New Insights into the Role and Mechanism of Macrophage Migration Inhibitory Factor in *Epinephelus awoara* Infected with *Vibrio alginolyticus*
Z.Q. Zhu, G.H. Xu, Y.N. Chen, X. Yi, X.L. Jiang, X.J. Xu 1538
- Clinical Signs, Activity Indices and Prognostic Indicators in Dogs with Idiopathic Inflammatory Bowel Disease
M. Sandhya Bhavani, S. Kavitha, S. Vairamuthu, K. Vijayarani, Abid Ali Bhat 1544
- Application of Artificial Intelligence in Monitoring of Animal Health and Welfare
Ahmad Ali AlZubi, Maha Al-Zu'bi 1550
- Epidemiological Aspects of Equine Herpes Virus Infection in South Gujarat, India
J.A. Vala, M.D. Patel, S.M. Parmar, S.V. Mavadiya, S.A. Mehta, D.R. Patel 1556

MANAGEMENT AND PRODUCTION

Factor and Discriminant Analyses in the Morphostructure of Batur and Wonosobo Sheep Breeds

*Alek Ibrahim, I Gede Suparta Budisatria, Endang Baliarti, Widya Pintaka Bayu Putra,
Endang Tri Margawati, Bayu Andri Atmoko, Wayan Tunas Artama, Rini Widayanti*

1561

Impact of Non-genetic Parameters Altering Milk Yield Performance in Zebu Cows

M. Mohan, D.N. Das, K.P. Ramesha

1568

SHORT COMMUNICATION

Reports of Infectious Coryza in Peafowls (*Pavo cristatus*) at Solapur District of Maharashtra, India

R.K. Chittora, A.S. Jadhav, N.C. Upreti

1571

Esteemed Reviewers of This Issue

1574

Author Index of This Issue

1574-1575

Key words Index of This Issue

1575-1576

Print ISSN : 0367-6722

Online ISSN : 0976-0555

Print frequency : Monthly

National Academy of Agricultural Sciences (NAAS) Rating : 6.43

Impact Factor: .5 (2023)

Scientific Journal Ranking (SJR) : 0.263



Agricultural Research Communication Centre

294, Narsi Village Part 2, Sector 33, Karnal - 132 001, India

E-mail : contact@arccjournals.com ; editor@arccjournals.com

www.arccjournals.com