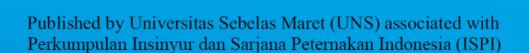
p-ISSN: 2721-5326 e-ISSN: 2721-7086

Livest. Anim. Res. Vol. 21, No. 1, March 2023

Animal Research

Accredited Sinta 2 according to the decree No.10/E/KPT/2019



Livestock and Animal Research

Accredited by Directorate General of Strengthening for Research and Development, Ministry of Research, Technology and Higher Education of the Republic of Indonesia No. 10/E/KPT/2019

Vol. 21 No. 1, March 2023

PUBLISHER

Sebelas Maret University associated with Perkumpulan Insinyur dan Sarjana Peternakan Indonesia (ISPI)

CHIEF EDITOR

Muhammad Cahyadi

ASSOCIATE EDITORS

Dian Meididewi Nuraini Yuli Yanti Ari Kusuma Wati

EDITORIAL BOARDS

Kusuma AdhiantoUniversity of Lampung, IndonesiaAdi Magna Patriadi NuhriawangsaSebelas Maret University, IndonesiaSigit PrastowoSebelas Maret University, IndonesiaDyah MaharaniUniversitas Gadjah Mada, Indonesia

Slamet Diah Volkandari Badan Riset dan Inovasi Nasional, Indonesia

Sutrisno Hadi Purnomo Sebelas Maret University, Indonesia
Muhlisin Universitas Gadjah Mada, Indonesia
Joko Riyanto Sebelas Maret University, Indonesia
Muhammad Halim Natsir Brawijaya University, Indonesia
Ahmad Pramono Sebelas Maret University, Indonesia

Pita Sudrajad Indonesian Agency for Agricultural Research and Development,

Indonesia

Teguh Wahyono Center for Isotopes and Radiation Application, Indonesia

Lilik Retna Kartikasari Sebelas Maret University, Indonesia Cahya Setya Utama Diponegoro University, Indonesia Siwi Gayatri Diponegoro University, Indonesia Dian Wahyu Harjanti Diponegoro University, Indonesia

TECHNICAL EDITORS

Baharudin Trilaksono Sebelas Maret University, Indonesia Wahyu Aji Nugroho Sebelas Maret University, Indonesia

SCOPE OF JOURNAL

The interest of Livestock and Animal Research covering: 1) Animal Production System; 2) Animal Breeding and Genetics; 3) Animal Physiology and Reproduction; 4) Animal Nutrition and Feeding Technology; 5) Technology of Animal Product; 6) Animal Biotechnology; 7) Animal Behavior and Welfare; 9) Socio-Economics in the field of Animal Research, and 10) Animal health. The objects of the research can be livestock, laboratory, exotic, and/or wild animals. This journal uses blind review where all the review processes using anonymous system so that both reviewer and author identities are not revealed during the process.

p-ISSN 2721-5326 e-ISSN 2721-7086

ABOUT JOURNAL

Livestock and Animal Research (Livest. Anim. Res.) publishes original research article in the field of livestock and other animal research. This journal is published three times a year: March, July, and November by Sebelas Maret University associated with Perkumpulan Insinyur dan Sarjana Peternakan Indonesia (ISPI). The first edition with new journal-title is published in July 2020 (Vol. 18 No. 2). Livestock and Animal Research has been accredited and categorized as Sinta 2 by Directorate General of Strengthening Research and Development – Ministry of Research, Technology and Higher Education, Republic of Indonesia in 2019 (No. 10/E/KPT/2019). In addition, this journal has been indexed by Crossref, Google Scholar, Mendeley, Garuda (Garda Rujukan Digital), and Sinta.

SECRETARIAT OF LIVESTOCK AND ANIMAL RESEARCH

Department of Animal Science, Faculty of Agriculture, Sebelas Maret University

Jl. Ir. Sutami 36A Kentingan, Surakarta, Jawa Tengah 57126, Tel./Fax. 0271-637457

Website: https://jurnal.uns.ac.id/lar

Email: livest.anim.res@mail.uns.ac.id and livest.anim.res@gmail.com

Subscription Rate (Not including shipping and handling):

IDR 150.000/edition and IDR 350.000/year (Indonesian subscribers); 100 US\$ (Foreign subscribers) Bank account: BNI KCP UNS No. 0504863862, a.n. Muhammad Cahyadi, SWIFT CODE: BNINIDJASLO

Livestock and Animal Research

Accredited by Directorate General of Strengthening for Research and Development, Ministry of Research, Technology and Higher Education of the Republic of Indonesia No. 10/E/KPT/2019

HISTORY

Livestock and Animal Research abbreviated as Livest. Anim. Res. (p-ISSN 2721-5326 e-ISSN 2721-7086) publishes original research article in the field of livestock and other animal research. This journal previously titled as Sains Peternakan: Jurnal Penelitian Ilmu Peternakan (published from 2007-2020 with p-ISSN 1693-8828 and e-ISSN 2548-9321) and changed into Livestock and Animal Research in order to broaden the distribution and increase the visibility of the journal. This journal is published three times a year: March, July, and November by Sebelas Maret University associated with Perkumpulan Insinyur dan Sarjana Peternakan Indonesia (ISPI). The first edition with new journal-title is published in July 2020 (Vol. 18 No. 2) while previous editions remain the same as the previous journal that can be accessed through website: https://jurnal.uns.ac.id/Sains-Peternakan. Livestock and Animal Research has been accredited and categorized as Sinta 2 by Directorate General of Strengthening Research and Development – Ministry of Research, Technology and Higher Education, Republic of Indonesia in 2019 (No. 10/E/KPT/2019). In addition, this journal has been indexed by Crossref, Google Scholar, Mendeley, Garuda (Garda Rujukan Digital), and Sinta.

Livestock and Animal Research

Accredited by Directorate General of Strengthening for Research and Development, Ministry of Research, Technology and Higher Education of the Republic of Indonesia No. 10/E/KPT/2019

LIST OF CONTENTS

Comparison of reproductive performance of Gembrong goats and male Boerka goats (Husnurrizal Husnurrizal, Daffa Gustia Putra Akbar, Tongku Nizwan Siregar, Hafizuddin Hafizuddin, Sri Wahyuni, Anwar Anwar, Arie Febretrisiana)	1-8
The intensity of the magnetic field on different sex of fetus and accuracy of sex detection using gold ring pendulum (Mawakia Anwar, Daud Samsudewa, Zainul Muhlisin, Jatmiko Endrosuseno)	9-13
Evaluation of primers targeting chromo helicase DNA-binding gene (CHD) for molecular sexing identification in four bird families (Fauziah Fitriana, Riza Resita, Yuda Disastra, Dian Ritma Setyorini, Aris Haryanto, Fatkhanuddin Aziz)	14-20
Reproductive performance of buffalo cows (<i>Bubalus bubalis</i>) atsmall farmsin Sukoharjo Regency, Central Java, Indonesia (Murninur Alifia, Joko Riyanto, Ratih Dewanti, Muhammad Cahyadi, Ari Kusuma Wati, Wari Pawestri, Yuli Yanti)	21-28
Breeding strategy and contract farming model to promote Boer Cross population continuity: A case study at Sadhana Arif Nusa Company Lombok Island West Nusa Tenggara Province, Indonesia (Lalu Ahmad Zaenuri1, I Wayan Lanus Sumadiasa, Lalu Wira Pribadi)	29-41
Cases of cow reproductive disorders at The Northern Bandung Dairy Farmer Cooperative by using Geographic Information System (GIS) approach (Yoga Triyatjaya, Nurcholidah Solihati, Septiyani Septiyani)	42-50
Small intestine histologic neuronal features of type-2 diabetes mellitusrats treated with ethanolic extract red betel leaf (<i>Piper crocatum</i>) nanoparticle (EERbLNp) (Tri Wahyu Pangestiningsih, Roza Azizah Primatika, Teguh Budipitojo, Woro Danur Wendo)	51-60