

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

Livest. Anim. Res.
Vol. 18, No. 3, November 2020

Livestock & Animal Research

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



Published by Universitas Sebelas Maret (UNS) associated with
Ikatan Sarjana Peternakan Indonesia (ISPI)

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. 18 No. 3, November 2020

PUBLISHER

Sebelas Maret University associated with Ikatan Sarjana Peternakan Indonesia (ISPI)

CHIEF EDITOR

Muhammad Cahyadi

ASSOCIATE EDITORS

Dian Meididewi Nuraini

Yuli Yanti

EDITORIAL BOARDS

Kusuma Adhianto	University of Lampung, Indonesia
Adi Magna Patriadi Nuhriawangsa	Sebelas Maret University, Indonesia
Sigit Prastowo	Sebelas Maret University, Indonesia
Dyah Maharani	Universitas Gadjah Mada, Indonesia
Slamet Diah Volkandari	Indonesian Institute of Sciences, Indonesia
Sutrisno Hadi Purnomo	Sebelas Maret University, Indonesia
Muhlisin	Gadjah Mada University, 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

Ari Kusuma Wati	Sebelas Maret University, Indonesia
Tommy Wibowo	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.

ABOUT JOURNAL

Livestock and Animal Research (Livest. Anim. Res.) publishes original research article in the field of livestock and other animal research. This journal previously titled as Sains Peternakan: Jurnal Penelitian Ilmu Peternakan 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 Ikatan 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 (Garuda Rujukan Digital), i-Focus, i-Journals, and Udledge.s.

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: sains.peternakan@uns.ac.id and livest.anim.res@gmail.com

Subscription Rate (Not including shipping and handling):

IDR 100.000/edition and IDR 350.000/year (Indonesian subscribers); 50 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 (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 Ikatan 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), i-Focus, i-Journals, and Udledge.s.

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

Identifikasi potensi wilayah Kabupaten Nganjuk sebagai sentra pengembangan produksi sapi potong (Nanang Febrianto, Jaisy Agniarahim Putritamara, Awang Tri Satria)	200-207
Pengaruh pemberian limbah serah wangi (<i>Cymbopogon nardus</i>) fermentasi sebagai substitusi pakan basal terhadap kualitas semen domba ekor tipis (Elmy Mariana, Nanda Riski, Cut Intan Novita)	208-216
Potensi penggunaan limbah ikan Leubiem (<i>Chanthidermis maculatus</i>) sebagai sumber protein dalam ransum terhadap produktivitas itik petelur (Muhammad Daud, Muhammad Aman Yaman, Zulfan Zulfan)	217-228
Pemodelan usaha ternak Kambing Senduro menuju penguatan kelembagaan korporasi di Kabupaten Lumajang (Soetrio Soetrio, Triana Dewi Hapsari, Abdullah Muhlis)	229-239
Pengaruh perbedaan rasio menir kedelai proteksi dan tanpa proteksi terhadap konsumsi, pencernaan dan nilai nutrisi pakan Domba Ekor Gemuk (Joko Riyanto, Susi Dwi Widyawati, Sudibya Sudibya)	240-245
Reducing the number of microorganisms and organic carbon by implementation of APS (Advanced Ponds System) in the wastewater of dairy goat with added liquid probiotics (Rendi Fathoni Hadi, Bayu Setya Hertanto, Ari Kusuwa Wati)	246-252
Strategi pemanfaatan limbah tanaman pangan sebagai sumber pakan ternak sapi potong di Kabupaten Situbondo (Endang Tri Rahayu, Eka Handayanta, Rika Suwistin Oktaviana)	253-264
Comparison of the reproductive performance of the Kacang goats on three synchronization methods (Yendraliza Yendraliza, Rahmi Febrianti, Muhamad Rodiallah)	265-273
Analisis potensi sabut kelapa serta strategi penggunaannya sebagai bahan baku pakan ternak ruminansia (Mochamad Denta Risman Muzaki, Sunarso Sunarso, Agus Setiadi)	274-288
Pengaruh iradiasi Gamma terhadap kandungan nutrisi, fenol dan aktivitas biologis tanin daun nangka (<i>Artocarpus heterophyllus</i>) (Teguh Wahyono, Yunida Maharani, Dedi Ansori, Shintia Nugrahini Wahyu Hardani, Sandra Hermanto, Wahidin Teguh Sasongko, Faiz Nur Faiqoh)	289-299
Faktor risiko mastitis subklinis pada Kambing Peranakan Etawah di Kecamatan Kokap, Kulonprogo, Yogyakarta (Morsid Andityas, Clara Ajeng Artdita, Nur Ika Prihanani)	300-310
Mitigasi risiko kesejahteraan hewan, kehalalan, dan keamanan rantai pasok industri daging ayam broiler skala menengah (Pramitha Surya Noerdyah, Retno Astuti, Sucipto Sucipto)	311-325