EDITORIAL TEAM

Editor-in-Chief: Edy Kurnianto [Diponegoro University, Semarang-Indonesia]

Associate Editors:
- Agung Purnomoadi [Diponegoro University, Semarang-Indonesia]
- Joelal Achmad [Diponegoro University, Semarang-Indonesia]
- Kurnio [Diponegoro University, Semarang-Indonesia]
- Sugiharto [Diponegoro University, Semarang-Indonesia]

International Editorial Boards:
- Abdulmojeed Yakubu [Nasarawa State University, Nigeria]
- Anang Muhammad Legowo [Diponegoro University, Semarang-Indonesia]
- Arda Yildirim [Gaziosmanpasa University, Turkey]
- Atien Priyanti [Center for Animal Research and Development, Bogor-Indonesia]
- Budi Hartono [Brawijaya University, Malang-Indonesia]
- Budi Indarsoh [Mataram University, Mataram-Indonesia]
- Cece Sumanto [Bogor Agricultural University, Bogor-Indonesia]
- Chalong Wahirapakorn [Khon Kaen University, Thailand]
- Dian Wahyu Harjanti [Diponegoro University, Semarang-Indonesia]
- Juni Sumaramo [Jenderal Soedirman University, Purwokerto-Indonesia]
- Khalil [Andalas University, Padang-Indonesia]
- Muhammad Cahyadi [Sebelas Maret University, Surakarta-Indonesia]
- Mukh Arifin [Diponegoro University, Semarang-Indonesia]
- Ni Wayan Kurnia Karja [Bogor Agricultural University, Bogor-Indonesia]
- Nyoman Suthama [Diponegoro University, Semarang-Indonesia]
- Retno Adiwinarti [Diponegoro University, Semarang-Indonesia]
- Sumeet Sharma [Edmonton North Animal Hospital, Alberta, Canada]
- Sumiya [Bogor Agricultural University, Bogor-Indonesia]
- Takuro Oikawa [University of the Ryukyus, Japan]
- Tety Hartati [Gadjah Mada University, Yogyakarta-Indonesia]
- Titik Eko Wati [Diponegoro University, Semarang-Indonesia]
- Umar Paputungan [Sam Rutulangi University, Manado-Indonesia]
- Vincenzo Tufarelli [University of Bari ‘Aldo Moro’, Italy]
- Wan Zahari Muhammed [Universiti Malaysia Kelantan, Malaysia]

Layout Editor: Rahmat Wibowo [Diponegoro University, Semarang-Indonesia]

Editorial Address:
Journal of the Indonesian Tropical Animal Agriculture
Faculty of Animal and Agricultural Sciences, Diponegoro University
Campus Drh. Soejono Koesoemawardjo
Tembalang · Semarang 50275 INDONESIA
Phone/Fax : 024 - 7474750
JITAA E-mail: jjpt.fpundip@gmail.com
ISAA E-mail: isaa_ina@yahoo.com
JITAA Website: ejournal.undip.ac.id/index.php/jitaa

The front cover illustrates the sketch of leaves and seeds of legume and grass forming a buffalo’s horn (designed by Agung Purnomoadi)
MEDIA was the first academic bulletin at Faculty of Animal Science and Fisheries, Diponegoro University in 1975. Along with the development of livestock and fisheries field in the faculty, the faculty was splitted into the Faculty of Animal Science and Faculty of Fisheries. Consequently, there was a change of the journal name from MEDIA to Jurnal Pengembangan Peternakan Tropis (JPPT) in 1998.

JPPT awarded accreditation at the first time in 1999 by Directorate General of Higher Education, Republic of Indonesia. The accreditation was obtained every three years until 2011. JPPT is published on March, June, September and December.

JPPT was awarded the internationalization grant from 2009 to 2011. Consequently, JPPT no longer publish’s articles in Indonesian, but all articles have been published in English since September 2009. The name of JPPT, therefore, was changed officially to Journal of the Indonesian Tropical Animal Agriculture (JITAA) in 2009.

JITAA was accredited for a period of five years from 2011 to 2016. JITAA was accredited again by Directorate General of Strengthening for Research and Development-Ministry of Research, Technology and Higher Education-Republic of Indonesia in 2016 for a period of five years started from November 18, 2016 with No 60/E/KPT/2016. JITAA as the open access journal has been indexed by Scopus, Scimago Journal & Country Rank (SJR), Emerging Sources Citation Index (ESCI)-Clarivate Analytics, Asean Citation Index (ACI), Directory of Open Access Journal (DOAJ), Google Scholar, CAB International, EBSCO, SHERPA/RoMEO, GARUDA (Garba Rujukan Digital), Sinta-Science and Technology Index, Feedipedia and Crossref.

Journal of the Indonesian Tropical Agriculture (JITAA) is a double blind peer-reviewed publication devoted to disseminate all information contributing to the understanding and development of animal agriculture in the tropics by publication of original research papers. The topics of research are not only on Indonesian tropical animal agriculture, but also on other tropical regions of the world. The journal covers all aspect relating to animal agriculture, including animal breeding and genetics, animal feeding and nutrition, animal reproduction, animal biotechnology, animal physiology, animal production and technology, animal products technology, animal management and economics, animal products processing and animal by-products, animal microbiology, livestock farming systems, and other topics in relation to animal sciences.

SECTION I: Publication
1. All submitted manuscript are reviewed by at least two reviewers who expertise in their subject.
2. The originality, soundness, novelty and language are factors that are taken into account in review by reviewers.
3. The results of review are categorized into eligible to publish in Journal of the Indonesian Tropical Animal Agriculture (JITAA) without revision, eligible to publish in JITAA with minor revision, eligible to publish in JITAA with major revision, and rejection.
4. If authors are encouraged to revise and resubmit a manuscript, then there is no guarantee that the revised submission will be accepted.
5. Rejected manuscript not be re-reviewed.

SECTION II: Editor
1. Editors have full responsibility and authority to reject/accept an manuscript.
Editors should guarantee the quality of the papers published in JITAA.
Editors should provide all information needed by authors to improve the publication.
Editors should preserve the identity or anonymity of reviewers.
Editors should publish errata page when needed.
Editors should not allow any conflicts of interest among authors, reviewers and board members.

SECTION III: Authors
1. Authors have to certify that the manuscript has not previously been published or is not being considered for publication elsewhere.
2. Authors have to certify that manuscript submitted is free from plagiarism.
3. Authors state that experiment conducted is according to national, international or applicable regulations for conducting scientific research.
4. Authors have to follow the rule of guideline of JITAA.
5. Authors state that all data analyzed are real.

SECTION IV: Reviewers
1. Reviewers should evaluate a manuscript solely on academic merits, in which if a conflict of interest is detected it should be immediately notified to the editor.
2. Reviewers have to keep all information relating to the manuscript reviewed.
3. Reviewers should review a manuscript objectively.
4. Reviewers should notify clearly on unclear statement written by authors.
5. Reviewers should not review manuscripts in which they have conflicts of interest resulting from competitive or relationships with any of the authors.
6. If plagiarism is detected, reviewers should notify the editors immediately.

Authors could refer to International Standards for Editors and Authors (https://publicationethics.org/search?t=international-standards) by COPE (Committee on Publication Ethics)
CONTENTS

Growth hormone locus polymorphism in Ongole Grade and Fries Holland Grade bulls and its implications in the digestibility of feed - S. Maylinda and W. Busono 71 - 77

Expression of Recombinant Fusion Protein from Local Isolate of Newcastle Disease Virus and Antibody Response to Recombinant Fusion Protein in Broiler Chickens Post-Vaccination - R.W. Astuti, N. Wijayanti and A. Haryanto 78 - 90

Effect of turmeric and garlic supplementation to fermented Sauropsis androgynus-bay leaves containing diet on fat deposition and broiler meat composition - U. Santoso, Y. Fenita, K. Kususiyah and A. Agustian 91 - 102

Breast meat characteristics of broilers fed fermented mixture of cassava pulp and Moringa oleifera leaf meal - S. Sugiharto, E. Widiastuti, I. Isroli, T. Yudiarti, T. A. Sartono and H. I. Wahyuni 103 - 114

Effect of different transportation period on body weight loss, hematological and biochemical stress responses of sheep - L. Lendrawati, R Priyanto, A Jayanegara, W. Manalu and D. Desrial 115 - 123

In vitro ruminal biohydrogenation of C18 fatty acids in mixtures of Indigofera zollingeriana and Brachiaria decumbens - M. Makmur, M. Zain, Y. Marlida, K. Khasrad and A. Jayanegara 124 - 135


The optimation of cow-calf beef cattle and paddy farming integration on farmer household - T. Ekowati, E. Prasetyo and M. Handayani 143 - 152

Correlation between leptin and LH concentration during peri and postpartum to the onset of estrus postpartum in Bali cattle - D. N. D. I. Laksmi, I. G. N. B. Trilaksana, L. M. Sudimartini and I. W. N. F. Gunawan 153 - 159

Author Index 161

Acknowledgment 161