

Staff Handbook

Name	<i>Prof. Dr. Ir. Zuprizal, DEA., IPU., ASEAN Eng.</i>		
Post	<i>Poultry Nutrition</i>		
Academic career	<i>Professional Engineering (IPU)</i>	<i>Universitas Gadjah Mada</i>	<i>2018</i>
	<i>Professor (Prof)</i>	<i>Universitas Gadjah Mada</i>	<i>2006</i>
	<i>Post-doctoral qualification</i>	<i>Universite Montpellier I France</i>	<i>1999</i>
	<i>Doctorate</i>	<i>University The Rennes I France</i>	<i>1992</i>
	<i>Graduate degree</i>	<i>University The Rennes I France</i>	<i>1989</i>
	<i>Undergraduate degree</i>	<i>Universitas Gadjah Mada</i>	<i>1984</i>
Employment	<i>Professor</i>	<i>Universitas Gadjah Mada</i>	<i>2006-present</i>
	<i>Associate Professor</i>	<i>Universitas Gadjah Mada</i>	<i>2001-2006</i>
	<i>Assistant Professor</i>	<i>Universitas Gadjah Mada</i>	<i>2000-2001</i>
Research and development projects over the last 5 years	<p><i>Research projects:</i></p> <ol style="list-style-type: none"> 1. <i>Benefits of Nanoencapsulated Bay Leaf Extract (Syzygium polyanthum) as an Antibacterial Agent on Intestinal Health and Broiler Chicken Productivity (2020)</i> <i>Resource of funds: Final Project Recognition, UGM</i> 2. <i>Evaluation of Cinnamon Oil Nano-Particles and Drinking Water Temperature on Antimicrobial Activity and Small Intestine Histomorphology of Broiler Chickens (2020)</i> <i>Resource of funds: Doctoral Dissertation Research, PTNBH-Kemenristekdikti</i> 3. <i>Use of Nanoencapsulation of Temu Kunci (Boesenbergia Pandurata Roxb. Schlecht.) Extract as Antibacterial Agent on Growth Performance of Broiler Chickens (2020)</i> <i>Resource of funds: Faculty of Animal Science UGM Postgraduate Grants</i> 4. <i>Application of Novel Drug Delivery System Based on Nano-Encapsulation of Soursop Leaf Extract (Annona muricata Linn) as an Antibacterial and Antioxidant Alternative in Broiler Chicken (2019)</i> <i>Resource of funds: Final Project Recognition Program, UGM</i> 5. <i>Study on the Utilization of Atung Fruit Seeds (Parinarium glaberrimum Hassk.) As a Source of Phytochemicals in Feeds to Increase Feed (2019)</i> <i>Resource of funds: Final Project Recognition Program, UGM</i> 		

	<p>6. <i>Effect of Supplementation of Leaf Extract Meliaazedarach L. Gratisis Nano Technology through Drinking Water on Intestinal Health and Growth Performance of Broiler Chickens</i></p> <p><i>Resource of funds: Faculty of Animal Science UGM, Laboratory Thematic Research Grants</i></p> <p>7. <i>Effect of Drinking Water Temperature on Growth Performance, Small Intestine Histomorphology and Stress Levels of Broiler Chickens</i></p> <p><i>Resource of funds: Faculty of Animal Science UGM Postgraduate Grants</i></p> <p>8. <i>The Use of Noni (Morinda citrifolia) Extract Based on Nanotechnology as an Alternative to Natural Antioxidants and Anti-Bacterials in Layers</i></p> <p><i>Resource of funds: Basic Research for Higher Education Excellence (PDUPT), Ristekdikti</i></p> <p>9. <i>The Use of Nano-Particle Technology on Phytobiotics and Its Effect on Growth Performance, Digestive Health and Quality of Broiler Chicken Meat</i></p> <p><i>Resource of funds: Master Education Research towards Doctorate for Superior Bachelors (PMDSU), Ristekdikti</i></p> <p>10. <i>Antimicrobial and Immunomodulator Effects of Indonesian Local Herbs: Application of Nano-Particles in Broiler Chickens</i></p> <p><i>Resource of funds: Masters Education Research towards Doctorate for Superior Bachelors (PMDSU), Ristekdikti</i></p> <p>11. <i>Nutritional Status of Kacang Goats that Get Supplementary Feeds from Plant Nitrogen Sources</i></p> <p><i>Resource of funds: Laboratory Thematic Grant, Faculty of Animal Science UGM</i></p> <p>12. <i>Evaluation of the Use of Forage in Kacang Goats in the Jatikuning Women's Farmer Group, Gunungkidul, Yogyakarta</i></p> <p><i>Resource of funds: Laboratory Internal Fund, Faculty of Animal Science UGM</i></p> <p>13. <i>Use of Noni Extract (Morinda citrifolia) Based on Nano Technology as an Alternative to Natural Antioxidants and Antibacterial in Layers</i></p> <p><i>Resource of funds: PUPT, DIKTI</i></p> <p>14. <i>Antimicrobial and Immunomodulator Effects of Indonesian Local Herbs: Application of Nano-Particles in Broiler Chickens</i></p>
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	<p><i>Resource of funds: PMDSU, DIKTI</i></p> <p>15. <i>The Use of Nano-Particle Technology on Phytobiotics and Its Effect on Growth Performance, Digestive Health and Quality of Broiler Chicken Meat</i></p> <p><i>Resource of funds: PMDSU, DIKTI</i></p> <p>16. <i>Evaluation of the Use of Forage and Nutritional Status of Livestock in Kacang Goats in the Jatikuning Women's Farmer Group, Gunungkidul, Yogyakarta</i></p> <p><i>Resource of funds: Faculty of Animal Science UGM, Laboratory Thematic Research Grants</i></p> <p>17. <i>Phytobiotic Nano-Particle Supplementation and Its Effect on Intestinal Microbial Populations and Growth Performance and Quality of Broiler Chicken Meat (Member of 7 Researchers)</i></p> <p><i>Resource of funds: Faculty of Animal Science UGM, Laboratory Thematic Research Grants</i></p> <p>18. <i>Effect of Purple Rosella Flower Powder Supplementation (Hibiscus oleifera) in Feed on Productivity and Carcass Quality of Broiler Chickens (Member of 3 Researchers)</i></p> <p><i>Resource of funds: Faculty of Animal Science UGM Postgraduate Research Grants</i></p> <p>19. <i>Use of Morinda citrifolia Extract with Nano-Encapsulation as Phytobiotic-Based Antioxidant and Antibacterial in Layers (Leader of 3 Researchers)</i></p> <p><i>Resource of funds: Faculty of Animal Science UGM Postgraduate Research Grants</i></p> <p>20. <i>The Use of Nano-Particle Technology on Phytobiotics and Its Effect on Growth Performance, Digestive Health and Quality of Broiler Chicken Meat (Leader of 4 Researchers)</i></p> <p><i>Resource of funds: PMDSU DIKTI</i></p> <p>21. <i>Antimicrobial and Immunomodulator Effects of Indonesian Local Herbs: Application of Nano-Particles in Broiler Chickens (Leader of 4 Researchers)</i></p> <p><i>Resource of funds: PMDSU DIKTI</i></p> <p>22. <i>Improving Turkey Livestock Productivity: Effects of Male and Female Balance on Mating Behaviour, Fertility and Egg Hatchability (Member of 2 Researchers)</i></p> <p><i>Resource of funds: PMDSU DIKTI</i></p> <p>23. <i>Use of Noni Extract (Morinda citrifolia) Based on Nano</i></p>
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Technology as an Alternative to Natural Antioxidants and Antibacterial in Layers (Leader of 3 Researchers)

Resource of funds: PUPT DIKTI

24. Use of Morinda citrifolia Extract with Nano-Encapsulation as Phytobiotic-Based Antioxidant and Antibacterial in Layers (Leader of 3 Researchers)

Resource of funds: Faculty of Animal Science UGM Postgraduate Research Competency Grant

Community service over the last 5 years:

1. Proud to be a Successful Breeder during the Covid-19 Pandemic (2020)

Resource of funds: Faculty of Animal Science UGM

2. As a Guest Lecturer for S1, S2 and S3 Students at the Faculty of Animal Science and Agriculture, UNDIP "Potential for Utilization of Indonesian Local Plant-Based Phytobiotics to Produce Healthy Poultry Products" (2020)

Resource of funds: Faculty of Animal Science and Agriculture UNDIP

3. Utilization of "Leaf Meal" as a Source of Protein in the Development of Kacang Goats in Wonolagi Hamlet, Playen District, Gunungkidul (2020)

Resource of funds: Faculty of Animal Science UGM Laboratory Service Thematic Grant

4. Introduction of Total Mixed Ration (TMR) for Kacang Goat Development at KWT Sumber Rejeki, Wonolagi, Ngleri, Playen Gunungkidul (2019)

Resource of funds: Faculty of Animal Science UGM

5. Application of Alfafa (Medicago sativa L.) as Diversification of Forage Sources for Animal Feed for Ettawa Crossbreed Goats in the Women Farmers Group (KWT) Gama Turgo Lestari, Turgo, Pakem, Sleman, Yogyakarta (2019)

Resource of funds: Faculty of Animal Science UGM

6. Free Lecture Speaker: For You Farmers, We Serve "Quality Animal Feed" (2019)

Resource of funds: Faculty of Animal Science UGM

7. Guidance of KWT Gama Turgo Lestari (Daily Goat Breeding)

	<p><i>Resource of funds: independent</i></p> <p>8. <i>Guidance of KWT Gama Ngudi Lestari (Slaughter Goat Breeding) (2018)</i></p> <p><i>Resource of funds: independent</i></p> <p>9. <i>Development of a Combination of Odot Grass and Calliandra calothyrsus at Sumber Rejeki KWT, Wonolagi, Ngleri, Playen, Gunung Kidul (2018)</i></p> <p><i>Resource of funds: Faculty of Animal Science UGM Laboratory Thematic Service Grants</i></p> <p>10. <i>Application of Forage as a Natural Anthelmintic to Kacang Goats in the Women's Farmer Group in Ngelosari Hamlet, Piyungan, Bantul, Yogyakarta (2017)</i></p> <p><i>Resource of funds: Faculty of Animal Science UGM Laboratory Thematic Service Grants</i></p> <p>11. <i>Application of Forage as a Natural Anthelmintic to Goats in the Women's Farmer's Group in Banyusoco Hamlet, Playen, Gunungkidul (2017)</i></p> <p><i>Resource of funds: Faculty of Animal Science UGM Postgraduate Research Competency Grant</i></p> <p>12. <i>Application of Matched Feed to Ettawa Crossbreed (PE) Goats in Tanon Hamlet, Ngrawan Village, Getasan District, Salatiga, Central Java (2016)</i></p> <p><i>Resource of funds: Faculty of Animal Science UGM, Laboratory Thematic Research Grants</i></p>
Industry collaborations over the last 5 years	-
Patents and proprietary rights	<p><i>Methods of Making Nanoparticles as Additives for Broiler Chicken Feed Substitute for Synthetic Antibiotics (Sundari, Zuprizal, Tri Yuwanta, Ronny Martien) 2016</i></p> <p><i>Turmeric Extract (Curcuma domestica Val.) Nanocapsules and Its Use for Broiler Chicken Feed Additives (Sundari, Zuprizal, Tri Yuwanta, Ronny Martien) 2016</i></p>
Important publications over the last 5 years	<p><i>Total number of publications: 65</i></p> <p>1. <i>Efficacy of Nano-Phytobiotics to Improve Growth Performance of Broiler Chickens: Evidence from a Meta-Analysis (Andri, F., Dono, N.D.D., Sasongko, H., Zuprizal (2021)</i></p> <p><i>Publisher: Journal of Advanced Veterinary Research, 2021, 11</i></p>

(4), pp. 195 – 202.

2. *Cellulolytic and mannanolytic aerobic bacteria isolated from Buffalo rumen (Bubalus babalis) and its potency to degrade fiber in palm kernel meal (Sari, S.L.A., Triyanto., **Zuprizal**., Prijambada, I. D. (2021)*

Publisher: Society for Indonesian Biodiversity, 2021, 22(7), pp. 2829-2837.

3. *Cinnamon bark oil and coconut oil emulsions modified small intestinal motility and barrier function in laying hens in an ex vivo experiment (Baskara, A.P., Sharma, S., Sener-Aydemir, A., Koger, S., Ariyadi, B., Dono, N.D., **Zuprizal**, Z., Metzler-Zebeli, B.U.O (2021)*

Publisher: British Poultry Science, 2021, 62(3), pp. 435–442.

4. *Optimizing antioxidant properties of salam (Syzygium polyanthum) leaf extract through nanoencapsulation technology (Afifah, A.N., Dono, N.D., **Zuprizal**) (2021)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2021, 686(1), 012040

5. *The use of nanoencapsulation god's crown (Phaleria macrocarpa) fruits extract in drinking water on growth performance in broiler chickens (N Ningsih, B Ariyadi, **Zuprizal**) (2021)*

Publisher: Jurnal Ilmu Peternakan Terapan 4 (2), 84-91

6. *Effect of Dietary Nano-encapsulated Mindi (Melia azedarach Linn.) Leaf Extract on Growth Performance and Intestinal pH of Broiler Chickens (2020)*

Publisher: IOP Conf. Series: Earth and Environmental Science 478 (2020) 012025

7. *Replacement of fish meal with fermented Moringa leaves meal and its effect on the growth performance of red tilapia (Oreochromis sp.) (2020)*

Publisher: AACL Bioflux Vol. 13 No. 3: 1622-1632 ISSN 1844-9166 (online)

8. *The potential use of essential oil nanoemulsion as a novel alternative to antibiotics in poultry production-A review (2020)*

Publisher: Iranian Journal of Applied Animal Science, 2020, 10(2), pp. 203–212

9. *Effect of self-nanoemulsifying drug delivery system (SNEDDS) of cinnamon bark essential oil on broiler chicken performance*

(2020)

*Publisher: Livestock Research for Rural Development. 32: Article #91. ISSN: 0121-3784. Fundaci3n CIPAV, Cali, Colombia
<http://www.lrrd.org/lrrd32/6/aji.p32091.html>*

10. *The Effect of Nano-Encapsulation Phaleria macrocarpa Fruits Extract in Drinking Water on the Digestive Tract and Carcass Characteristic of Broiler Chickens (2020)*

Publisher: Buletin Peternakan 44 (1): 1-5, February 2020

11. *Effects of Probiotic, Prebiotic, and Synbiotic Mixed Culture Based on Wheat Pollard on Productivity of Kampung's Chicken (CS Utama, Z Zuprizal, C Hanim, W Wihandoyo) (2020)*

Publisher: Jurnal Ilmu Ternak dan Veteriner 25 (4), 196-205

12. *The effects of dietary seaweed inclusion on growth performance of broiler chickens: a systematic review and meta-analysis (F Andri, ND Dono, H Sasongko, Z Zuprizal) (2020)*

Publisher: F1000Research 9 (1087), 1087

13. *Processing of Mixed Culture Sinbiotics Originating from the Combination of Wheat Pollard as Prebiotics and Fermented Cabbage Juice as Probiotics through the Fermentation Process (CS Utama, Z Zuprizal, C Hanim, W Wihandoyo) (2020)*

Publisher: Jurnal Aplikasi Teknologi Pangan 9 (3): 133-148

14. *The Effect of Nanoencapsulated Phaleria macrocarpa Fruits Extract in Drinking Water on Jejunal Histomorphology of Broiler Chickens (2019)*

Publisher: Tropical Animal Science Journal. August 2019, 42(2):106-112. <http://journal.ipb.ac.id/index.php/tasj> (Institute Pertanian Bogor)

15. *Optimization of Self-Nanoemulsifying Drug delivery Systems of Lemongrass (Cymbopogon Citratus) Essential Oil (2019)*

Publisher: International Journal of Applied Pharmaceutics. Vol 11, Issue 1 (jan-Feb 2019) pages: 144-149.

16. *Calliandra calothyrsus and Artocarpus heterophyllus as anti-parasite for Bligon Goat (2019)*

Publisher: J. Indonesian Trop. Anim. Agric. (4):400-407, December 2019.

17. *Antibacterial activity and characterization of Annona muricata Linn leaf extract-nanoparticles against Escherichia coli FNCC-0091 and Salmonella typhimurium FNCC-0050 (2019)*

Publisher: IOP Conf. Series: Earth and Environmental Science

	<p>387 (2019) 012055</p> <p>18. <i>In Vitro antibacterial activity of Mindi (Melia azedarach Linn.) leaf extract with nanoencapsulation technology (2019)</i></p> <p><i>Publisher: IOP Conf. Series: Earth and Environmental Science 387 (2019) 012069</i></p> <p>19. <i>Antibacterial effects of essential oils of Cymbopogon citratus and Amomum compactum under self-nanoemulsifying drug delivery system (SNEDDS) (2019)</i></p> <p><i>Publisher: IOP Conf. Series: Earth and Environmental Science 387 (2019) 012071</i></p> <p>20. <i>Potential of atung seeds (Parinarium glaberrimum Hassk.) as a phytobiotic candidate in poultry ration based on nutrient composition, phytochemical and antibacterial properties (2019)</i></p> <p><i>Publisher: IOP Conf. Series: Earth and Environmental Science 387 (2019) 012072</i></p> <p>21. <i>Calliandra calothyrsus as a protein source in goat's diets: Study of feed intake and ruminal fermentation parameters (2019)</i></p> <p><i>Publisher: IOP Conf. Series: Earth and Environmental Science 387 (2019) 012109</i></p> <p>22. <i>Pengaruh Lama Pemanasan terhadap Kualitas Kimia Wheat Pollard yang Berpotensi sebagai Prebiotik (CS Utama, Z Zuprizal, C Hanim, W Wihandoyo) (2019)</i></p> <p><i>Publisher: Jurnal Aplikasi Teknologi Pangan 8 (3), 113-121</i></p> <p>23. <i>Consumer Preferences Towards Broiler Chicken Supplemented with Nanoencapsulated Liquid Turmeric Extract in Drinking Water (M Hidayat, Z Zuprizal, S Sundari, A Kusmayadi, AK Wati) (2019)</i></p> <p><i>Publisher: Animal Production 20 (2), 103-108</i></p> <p>24. <i>Intestinal Morphology of Native Chickens at 20 Weeks-old Supplemented by DL-methionine and L-lysine Hcl into Feed (CV Lisnahan, W Wihandoyo, Z Zuprizal, S Harimurti) (2019)</i></p> <p><i>Publisher: Journal of Tropical Animal Science and Technology 1 (1), 14-21</i></p> <p>25. <i>Aplikasi Teknologi Nanoenkapsulasi sebagai Delivery System Fitobiotik Alami untuk Ternak (U Maesaroh, ND Dono, Z Zuprizal) (2019)</i></p> <p><i>Publisher: Buletin Profesi Insinyur 2 (2), 91-95</i></p> <p>26. <i>Physical and Sensory Quality of Broiler Meat as Influenced by</i></p>
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Dietary Supplementation of Turmeric (Curcuma longa), Garlic (Allium sativum) and in Combinations as a Feed Additive (S Purwanti, Z Zuprizal, T Yuwanta, S Supadmo) (2019)

Publisher: Animal Production 20 (1), 61-69

27. *In Vitro Study: Optimization of Antimicrobial Activity of The Kapok Leaves Extract (Ceiba pentandra (L.) Gaertn.) using Nanoencapsulation Technology (Muhammad Hidayat, Zuprizal*, Bambang Ariyadi) (2019)*

Publisher: International Seminar on Tropical Animal Production (ISTAP)

28. *Growth Performance of Broiler Chickens Fed Diets Containing Amorphophallus companulatus Fermented with Bacillus subtilis (2019)*

Publisher: Proceedings The 8th ISTAP International Seminar on Tropical Animal Production "Prospects and Challenges for Sustainable Tropical Animal Production Systems", September 23-25, 2019, Yogyakarta, Indonesia. Page 220-224.

ISBN: 978-979-1215-37-4. <https://istap.ugm.ac.id/> Published by: Faculty of Animal Science Universitas Gadjah Mada

29. *The Influence of Nano-Encapsulation of Melastoma malabathricum L. Fruit Extract to Lipid Profile of Broiler Chicken (2019)*

Publisher: Buletin Peternakan 43 (4): 237-241, November 2019

30. *Effect of Nano-encapsulation of Noni (Morinda citrifolia) Fruit Extract on Jejunal Morphology and Microbial Populations in Laying Hens (2018)*

Publisher: Pakistan Journal of Nutrition Vol. 17 no. 1 Pages 34-38.

31. *Probiotic Testing of Lactobacillus brevis and Lactobacillus plantarum from Fermented Cabbage Waste Juice (2018)*

Publisher: Pakistan Journal of Nutrition Vol. 17 No. 7. Page 323-328.

32. *Formulation and Characterization of Self-Nano Emulsifying Drug Delivery Systems of Lemongrass (Cymbopogon citratus) Essential Oil (2018)*

Publisher: Malaysian Journal of Fundamental and Applied Sciences Vol. 14 No. 3. Page 360-363

33. *Self-nanoemulsifying drug delivery system (SNEDDS) of Amomum compactum essential oil: Design, formulation, and*

characterization (2018)

Publisher: *Journal of Applied Pharmaceutical Science* Vol. 8(06), pp 014-021, June, 2018

34. *Use of Calliandra calothyrsus and Artocarpus heterophyllus against Parasites and the Effects on Performance of Bligon Goats in Indonesia (2018)*

Publisher: *Proceedings of the 10th International Symposium on the Nutrition of Herbivores (ISNH 2018)*, Volume 9, Issue 3, ISSN: 2040-4700. 2-6 September 2018, Clermont-Ferrand, France, pp 700. <https://symposium.inra.fr/isnh2018>. Published by: Cambridge University Press

35. *Calcium Deposition in Egg Due to Substitution of Limestone by Eggshell Flour in Feed of Laying Hens (2018)*

Publisher: *Journal of the Indonesian Tropical Animal Agriculture* Vol. 43 No. 3 Hal. 257-264.

36. *The effect of dietary binahong [anredera cordifolia (Ten.) steenis] leaf meal supplementation on total ileal bacteria and jejunal histomorphology in broiler chickens (Widodo, N., Wihandoyo,, Zuprizal,, Dono, N.D.) (2018)*

Publisher: *International Journal of Poultry Science*, 2018, 17(10), pp. 473–478

37. *Isolasi dan Identifikasi Bakteri Asam Laktat Selulolitik yang Berasal dari Jus Kubis Terfermentasi (2018)*

Publisher: *Jurnal Aplikasi Teknologi Pangan* Vol. 7 No. 1 Hal. 1-5. ISSN: 2089-7693. <https://doi.org/10.17728/jatp.2155>. <https://jatp.ift.or.id/>

38. *Pengaruh Suplementasi DL-Metionin Dan L-Lisin Hcl Pada Pakan Standar Kafetaria Terhadap Berat Badan, Organ Dalam Dan Organ Reproduksi Ayam Kampung Fase Pullet (Cv Lisnahan, W Wihandoyo, Z Zuprizal, S Harimurti) (2018)*

Publisher: *Jurnal Ilmiah Peternakan Terpadu* 6 (2), 128-133

39. *Preferensi Konsumen Terhadap Daging Ayam Broiler Yang Diberi Nanoenkapsulasi Ekstrak Kunyit Cair Dalam Air Minum (M Hidayat, Z Zuprizal, S Sundari, A Kusmayadi, Ak Wati) (2018)*

Publisher: *Prosiding Seminar Teknologi Agribisnis Peternakan (STAP) Fakultas Peternakan Universitas Jenderal Soedirman*, 6: 249

40. *Performan Ayam Broiler dengan Penambahan Tepung Daun dalam Pakan (2018)*

Publisher: Sains Peternakan: Jurnal Penelitian Ilmu Peternakan Vol. 16 No. 2 Hal. 74-79. ISSN: 1693-8828. <http://dx.doi.org/10.20961/sainspet.16.2.74-79>. <https://jurnal.uns.ac.id/Sains-Peternakan>

41. *Pengaruh Senyawa Tanin Terhadap Nilai Degradasi Berdasarkan Produksi Gas Hasil Fermentasi Beberapa Spesies Hijauan Pakan Ternak 2018 Prosiding Simposium Nasional Penelitian dan Pengembangan Peternakan Tropik 2018 "Inovasi Teknologi Peternakan Menyongsong Era Industri 4.0". Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta, 5 November 2018. Hal. 62-64. ISBN: 978-979-1215-33-6*

42. *Pengaruh Pemberian Nano Enkapsulasi Ekstrak Buah Senduduk (Melastoma Malabathricum L.) Terhadap Lemak Subkutan, Viseral dan Abdominal Ayam Broiler (2018)*

Publisher: Prosiding Simposium Nasional Penelitian dan Pengembangan Peternakan Tropik 2018 "Inovasi Teknologi Peternakan Menyongsong Era Industri 4.0". Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta, 5 November 2018. Hal. 97-100. ISBN: 978-979-1215-33-6

43. *Pengaruh Suplementasi DL-Metionin dan L-Lisin HCL Terhadap Berat Badan dan Berat Organ Dalam Ayam Kampung Fase Starter (2018)*

Publisher: Prosiding Simposium Nasional Penelitian dan Pengembangan Peternakan Tropik 2018 "Inovasi Teknologi Peternakan Menyongsong Era Industri 4.0". Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta, 5 November 2018. Hal. 124-127. ISBN: 978-979-1215-33-6

44. *The Effect of Liquid Tumeric Extract Supplementation on Carcass Production and Chemical Quality of Broiler Meat (2017)*

Publisher: Journal of the Indonesian Tropical Animal Agriculture Vol. 42, No. 1:6-13, March 2017. pISSN 2087-8273 eISSN 2460-6278. Published by Faculty of Animal and Agricultural Sciences Diponegoro University and Indonesian Society of Animal Agriculture (ISAA)

45. *Utilization of Sago Waste with Cellulase Enzyme Fermentation as a Local Feed for Broilers in Southest Sulawesi (2017)*

Publisher: International Journal of Poultry Scicence. Vol. 16 (07): 266 - 273. Juni 2017.

46. *The Effect of Rhizobium Inoculation and Harvesting Time on the Quality and Biomass Productivity of Peanut Straw (Arachis hypogea) in Sandy Soil (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 178-184. ISBN: 978-979-1215-29-9

47. *Effects of Sago Waste as Local Feed Resource That Gives Cellulose Enzyme in Feed on Carcass and Organ Characteristics of Broiler Chickens (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 280-285. ISBN: 978-979-1215-29-9

48. *The Use of Nano-Encapsulation of Morinda citrifolia Fruit Extract in Drinking Water as Phytobiotic Based Feed Additive in Laying Hens (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 235-239. ISBN: 978-979-1215-29-9

49. *Addition of Feed Additive Binahong (Anredera cordifolia (Ten.) Steenis) Leaf Meal into Diets on Growth Performance of Broiler Chickens (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 298-302. ISBN: 978-979-1215-29-9

50. *The Effect of Fermentation on the Nutritional Content of Amorphophallus sp. as Poultry Feed (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 313-318. ISBN: 978-979-1215-29-9

51. *Isolation and Identification of Fungi Type from Juice of Cabbage Waste as Probiotic Agency (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 324-328. ISBN: 978-979-1215-29-9

52. *The role of sea crustacean Ocypode sp. on the growth performance of catfish Clarias sp. (2017)*

Publisher: The 2nd International Conference on Tropical Agriculture (ICTA), 2017. Program and Abstract Book. UGM, Yogyakarta, Indonesia, 26–27 October 2017. Page: 129

53. *Antibacterial Activity of Phaleria macrocarpa Fruit Extracts: An In Vitro Study (2017)*

Publisher: Proceedings of the 2nd International Conference on Animal Nutrition and Environment (ANU-NUE2017). 1-4

November 2017. Volume II. Pages: 270-274. Tropical Feed Resources Research and Development Centre (TROFREC), Department of Animal Science, Faculty of Agriculture, Khon Kaen University.

54. *Efficacy of Herbal Additives as Growth Promoter for Broiler Chickens under Infectious Disease Outbreak (2017)*

Publisher: Proceedings of the 5th International Seminar of Animal Nutrition & Feed Science (ISAINI), Mataram-Indonesia, 7-9 November 2017. Pages: 321-328. ISBN: 978-602-51437-0-0 eISBN: 978-602-51437-1-7

55. *Nutrient Evaluation of Fermented Amorphophalus Campanulatus as Poultry Feed (2017)*

Publisher: International Journal of Poultry Science. p-ISSN 1682-8356 e-ISSN: 1682-8356. Online first. DOI: 10.3923/ijps.2017

56. *Effect of Addition of Methionine and Lysine into Diets Based on Cafeteria Standards on the Growth Performance of native Chickens at Starter Phase. (2017)*

Publisher: International Journal of Poultry Science. p-ISSN 1682-8356 e-ISSN: 1682-8356. Online first. DOI: 10.3923/ijps.2017.

57. *Nutritional Composition and Anti-Nutrient Content of Elephant Foot am (Amorphophallus campanulatus) (2017)*

Publisher: Pakistan Journal of Nutrition online first 2017. pISSN: 1994-7984 e-ISSN; 1680-5194. Published by: Asian Network for Scientific Information.

58. *Pengaruh Penambahan Fitase dalam Memprediksi Kebutuhan Non Phytate Phosphorus Ayam Pedaging Fase Starter (2017)*

*Publisher: Buletin Peternakan Vol. 41 (2): 150-155, Mei 2017
ISSN-0126-4400 E-ISSN-2407-876X DOI:
<https://doi.org/10.21059/buletinpeternak.v41i2.12200>*

59. *Konsumsi dan Kecernaan Nutrien pada Kambing Kacang yang Mendapat Pakan Tambahan Sumber Protein di Kelompok Wanita Sumber Rejeki, Wonolagi, Gunungkidul (Penulis ke-4 dari 5) (2016)*

Publisher: Prosiding Simposium Nasional Penelitian dan Pengembangan Peternakan Tropik Tahun 2016. Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta. ISBN: 978-979-1215-28-2, hal: 70

60. *Potensi Limbah Ampas Sagu sebagai Sumber Bahan Pakan Lokal Ayam Broiler di Kabupaten Konawe Provinsi Sulawesi Tenggara (Penulis ke-2 dari 4) (2016)*

	<p><i>Publisher: Prosiding Simposium Nasional Penelitian dan Pengembangan Peternakan Tropik Tahun 2016. Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta. ISBN: 978-979-1215-28-2, hal: 115-122</i></p> <p>61. <i>Formulasi Nanopartikel Ekstrak Air Serai dan Kapulaga (Penulis ke-5 dari 5) (2016)</i></p> <p><i>Publisher: Prosiding Simposium Nasional Penelitian dan Pengembangan Peternakan Tropik Tahun 2016. Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta. ISBN: 978-979-1215-28-2, hal: 129-134</i></p> <p>62. <i>Feed Evaluation Based on Tannin Content and Gas Production of Twelve Tropical Feedstuffs (Penulis ke-5 dari 6) (2016)</i></p> <p><i>Publisher: Proceedings of the 1st UGM International Conference on Tropical Agriculture (ICTA), 25-26 October, 2016. Yogyakarta, Indonesia</i></p> <p>63. <i>Biosintesis dan Karakterisasi Nano-Enkapsulasi Ekstrak Buah Mengkudu (Morinda citrifolia) dengan Kitosan-Sodium Tripolifosfat sebagai Kandidat Antioksidan Alami (Penulis ke-4 dari 4) (2016)</i></p> <p><i>Publisher: Prosiding Simposium Nasional Penelitian dan Pengembangan Peternakan Tropik Tahun 2016. Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta. ISBN: 978-979-1215-28-2, hal: 22-28</i></p> <p>64. <i>Kebutuhan Kalsium Ayam Broiler Fase Starter dengan Penambahan Enzim Fitase (Penulis ke-4 dari 4) (2016)</i></p> <p><i>Publisher: Buletin Peternakan Vol. 40, No. 3 (2016). Hal. 170-177. ISSN: 0126-4400</i></p> <p>65. <i>Effect of a-Tocopherol and Ascorbic Acids on Performance and Blood Immunity Profile of Male Native Muscovy Duck (Penulis ke-2 dari 5) (2016)</i></p> <p><i>Publisher: Journal of the Indonesian Tropical Animal Agriculture Vol. 41(3):145-152. ISSN: 2460-6278</i></p>						
<p>Activities in specialist bodies over the last 5 years</p>	<table border="0"> <tr> <td><i>The Institution of Engineers Indonesia</i></td> <td><i>Vice Board of Animal Husbandry Engineering College</i></td> <td><i>2017-2020</i></td> </tr> <tr> <td><i>National Accreditation Body for Higher Education (BAN-PT)</i></td> <td><i>Assessor</i></td> <td><i>2019-2024</i></td> </tr> </table>	<i>The Institution of Engineers Indonesia</i>	<i>Vice Board of Animal Husbandry Engineering College</i>	<i>2017-2020</i>	<i>National Accreditation Body for Higher Education (BAN-PT)</i>	<i>Assessor</i>	<i>2019-2024</i>
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