

Staff Handbook

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| Name | Prof. Dr. Ir. Zaenal Bachruddin, M.Sc., IPU., ASEAN Eng. | | |
| Post | Applied Biochemistry | | |
| Academic career | Professional Engineering (IPU) | Universitas Gadjah Mada | 2018 |
| | Professor (Prof) | Universitas Gadjah Mada | 2001 |
| | Doctorate | School of Biological Science, University of Wales, UK. | 1991 |
| | | | 1985 |
| | Graduate degree | Institute of Animal Science, Universitas Philippines Los Banos, Los Banos. | 1977 |
| Undergraduate degree | Universitas Gadjah Mada | | |
| Employment | Professor | Universitas Gadjah Mada | 2000-present |
| | Associate Professor | Universitas Gadjah Mada | 1993-2000 |
| Research and development projects over the last 5 years | <p><i>Research projects:</i></p> <ol style="list-style-type: none"> 1. <i>Improving the Quality of Fish by products industry by Fermentation of Lactic Acid Bacteria as Animal Feed (2021)</i> <i>Source of funds: Final Project Recognition, UGM</i> 2. <i>Isolation, Identification, and Selection of Lactic Acid Bacteria and Acetic Acid Bacteria from Rabbit Cecum and its application on Mitigation of Methane Production in the Rumen (2021)</i> <i>Source of funds: Final Project Recognition, UGM</i> 3. <i>Effect of Differences in Redox Potential Levels on Methane Mitigation by Lactic Acid Bacteria (Bal) and Acetic Acid Bacteria (Baa) from Rabbit Cecum on In vitro Rumen Microbial Fermentation analysis (2021).</i> <i>Source of funds: Graduate School Grants Faculty of Animal Science UGM</i> 4. <i>Mixture of Ruminant Cecum Lactic Acid Bacteria (BAL) for Mitigation of Rumen Methane Production by invitro analysis. (2021)</i> <i>Source of funds: Thematic Grants Laboratory Faculty of Animal Science UGM</i> 5. <i>Study of Superior Proteolytic Lactic Acid Bacteria and Its Application in Preservation and Improvement of Feed Protein Quality (2020)</i> <i>Source of funds: Final Project Recognition, UGM</i> 6. <i>The Effect of Addition of Protective Materials and Drying</i> | | |

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| | <p><i>Techniques on the Viability of Lactic Acid Bacteria and Its Application in Feed Fermentation (2020)</i></p> <p><i>Source of funds: Thematic Grants Laboratory Faculty of Animal Science UGM</i></p> <p>7. <i>Contribution of Basal Excretion to Total Excretion of Purine Derivatives in Urine of Male and Female Garut Sheep (2020)</i></p> <p><i>Source of funds: Postgraduate Grants, Faculty of Animal Science UGM</i></p> <p>8. <i>Effect of Storage Time on Chemical and Physical Quality of Block Fermented Protein Products with Addition of Turmeric (Curcuma Longa), Aerobic and Anaerobic Conditions (2019)</i></p> <p><i>Source of funds: Final Project Recognition Program, UGM</i></p> <p>9. <i>Lactic Acid Bacteria Starter Application and Herbs in Conservation and Improvement Feed Quality (2019)</i></p> <p><i>Source of funds: Final Project Recognition Program, UGM</i></p> <p>10. <i>Study of Natural Bioactive Compounds from Nutmeg Fruit, Seeds and Leaves (Myristica fragrance) and Its Applications in Improving Feed Quality and Livestock Productivity (2019)</i></p> <p><i>Source of funds: Thematic Research Grant for the Faculty of Animal Science UGM</i></p> <p>11. <i>Handling of Liquid Waste from the Leather Tanning Industry in Bantul Regency with a Combination of Physical, Chemical, and Microbiological Treatment (2019)</i></p> <p><i>Source of funds: Postgraduate Grants from the Faculty of Animal Science UGM</i></p> <p>12. <i>Increasing the Competitiveness of Fermented Complete Feed as Basalt Feed: Fermentation and Protection of Carbohydrates, Fats and Proteins as Supplementary Feed (2018)</i></p> <p><i>Source of funds: Industrial Technology Development Program (PPTI), Ristekdikti</i></p> <p>13. <i>Block Fermentation Protein Engineering as Feed Additive (2018)</i></p> <p><i>Source of funds: Prospective Technology-Based Start-up Company (CPPBT), Ristekdikti</i></p> <p>14. <i>Study of Natural Bioactive Compounds from Black Cumin Cake (Nigella sativa L.) and Its Application in Feed for Environmentally Friendly Livestock Development (Green Livestock) (2018)</i></p> <p><i>Source of funds: Laboratory Thematic Grant, Faculty of Animal Science UGM</i></p> |
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| | <p>15. <i>Effect of Addition of Agricultural Waste as a Source of Malate on Digestibility In Vitro (2018)</i></p> <p>Source of funds: Postgraduate Grant, Faculty of Animal Science UGM</p> <p>16. <i>Effect of Addition of Garlic on Chemical, Physical, Sensory Quality, Antioxidant Activity and Fatty Acid Profile of Chicken and Goat Doner Kebab (2018)</i></p> <p>Source of funds: Postgraduate Grant, Faculty of Animal Science UGM</p> <p>17. <i>Natural Bioactives as Feed Additive for Animal Feed : Production and Extraction of Natural Bioactives as Feed Additive for Sheep Animal Feed (2017)</i></p> <p>Source of funds: PUPT, DIKTI</p> <p>18. <i>Development of a Consortium of Microbial Agents for Bioremediation of Laying Chicken Livestock Waste as an Effort for Mitigation of Ammonia Pollution: Isolation and Identification of Nitrate Reducing Denitrification Microbes (Year II) (2017)</i></p> <p>Source of funds: PUPT, DIKTI</p> <p>19. <i>Screening and Characterization of Keratinolytic Bacteria from Puffer Fish Skin Waste (2017)</i></p> <p>Source of funds: PUPT, DIKTI</p> <p>20. <i>Utilization of Moist Ratio Based on Lactic Acid Bacterial Fermentation in Ruminant Livestock Development (2017)</i></p> <p>Source of funds: PUPT, DIKTI</p> <p>21. <i>Plant Secondary Metabolites as Feed Additives: Effect of Patchouli Essential Oil (Pogostemon cablin Benth.) in In Vitro Rumen Fermentation (2017)</i></p> <p>Source of funds: Thematic Laboratory Faculty. UGM</p> <p>22. <i>Effect of Addition of Cashew Seed Oil in Feed on Rumen Microbial Protein Synthesis and Nitrogen Balance in Bligon Goats (2017)</i></p> <p>Source of funds: Postgraduate Grant from Faculty of Medicine. UGM</p> <p>23. <i>The Effect of Differences in Age of Rubber Plants on Weed Fermentation Characteristics (2017)</i></p> <p>Source of funds: Postgraduate Grant Faculty of Animal Science</p> <p>24. <i>Total Silage Concentrate Mix (STCK) Based by Food Industry Products: STCK Engineering and Its Application to the</i></p> |
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Performance of Goats, Mothers and Fattening of Bligon Goats (Chairman of 3 Researchers) (2016)

Source of funds: DIKTI (Competency Grant)

25. *Role of Secondary Metabolites in Livestock: Effect of Supages: Feed supplementation with Nutmeg (Myristica fragans) Essential Oil as a Source of Antioxidants on Goat Meat Quality (Member of 7 Researchers) (2016)*

Source of funds: Thematic Research Grant for Laboratory of the Faculty of Animal Science UGM

Community service over the last 5 years:

1. *MWA Forum 11 PTNBH (2020)*

Source of funds: Faculty of Animal Science UGM

2. *Sheep Village: Development of a Sheep Farming Center to Improve the Economy of the Community of Kadilanggon Village, Wedi District, Klaten Regency (2020)*

Source of funds: Kadilanggon Village Government, Wedi, Klaten

3. *Community Service Through Cultivation of Umbaran Layers to Produce Functional Eggs at IS ASWAJA Lintang Songo Islamic Boarding School, Pagergunung Hamlet, Piyungan, Bantul, Yogyakarta (2020)*

Source of funds: PT Widodo Makmur Unggas and Lab. Nutritional Biochemistry Faculty. UGM

4. *Community Service Through Cultivation of Umbaran Layers to Produce Functional Eggs in the Dasawisma Women's Association of Dewi Sari, Buyutan, Gading Sari, Sanden, Bantul, Yogyakarta (2020)*

Source of funds: PT Widodo Makmur Unggas and Lab. Nutritional Biochemistry Faculty. UGM

5. *Community Service Through Cultivation of Umbaran Layers to Produce Functional Eggs at the Irsyadul Anam Islamic Boarding School, Kiyudan, Selomartani, Kalasan, Sleman, Yogyakarta (2020)*

Source of funds: PT Widodo Makmur Unggas and Lab. Nutritional Biochemistry Faculty. UGM

6. *Community Service Based on Development of Assisted Villages in Balak Hamlet, Pendoworejo Village, Girimulyo District, Kulonprogo Regency (2020)*

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| | <p><i>Source of funds: Indonesian Association of Biochemistry and Molecular Biology</i></p> <p>7. <i>Development of Environmentally Friendly Livestock Using Feed Supplement Technology Based on Natural Bioactive Tropical Plants at the Ayo Angon Cattle Group, Buyutan Hamlet, Ngalang Village, Gedangsari District, Gunung Kidul Regency (2020)</i></p> <p><i>Source of funds: Thematic Grant for Laboratory Service Faculty of Animal Science UGM</i></p> <p>8. <i>The Amazing Livestock Microbes (2020)</i></p> <p><i>Source of funds: Faculty of Animal Science UGM</i></p> <p>9. <i>Resource Person for Livestock Chat with the theme "Poultry Industry Overview-Feed Technology to Improve Poultry Gastrointestinal Performance" (2020)</i></p> <p><i>Source of funds: Faculty of Animal Science UGM</i></p> <p>10. <i>The Prospect of Fat Bypass in Animal Production (2020)</i></p> <p><i>Source of funds: Faculty of Animal Science UGM</i></p> <p>11. <i>Empowerment of Livestock Farmers through Plasma Core Institutions: Demonstration of Fattening Sheep and Forage Animal Feed in Summersari Village, Moyudan District, Sleman Regency (2019)</i></p> <p><i>Source of funds: Faculty of Animal Science UGM</i></p> <p>12. <i>PKM at Banyusoco Playen Gunung Kidul (2019)</i></p> <p><i>Source of funds: Ristekdikti</i></p> <p>13. <i>Extension on Total Mixture Ration (TMR) Based on Fermentation and Institutional Empowerment of Livestock Plasma-Core (2019)</i></p> <p><i>Source of funds: Faculty of Animal Science Universitas Gadjah Mada</i></p> <p>14. <i>Free Lecture Speaker: Farmers, We Serve "Quality Animal Feed" (2019)</i></p> <p><i>Source of funds: Faculty of Animal Science UGM</i></p> <p>15. <i>Natural Methane Reducing (NMR)-Based Livestock Group PkM in Banyusoco Village, Playen District, Gunung Kidul Regency (2018)</i></p> <p><i>Source of funds: Community Service Grants for Development of Fostered Villages, Gadjah Mada University</i></p> <p>16. <i>Application of Super Block fermented protein as a feed supplement to improve the performance of dairy cows in the</i></p> |
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| | <p><i>Smesta Cooperative (Merapi Sejahtera Cow) (2018)</i></p> <p><i>Source of funds: Grant TTG, Ristekdikti</i></p> <p>17. <i>Application of Forage Fermentation Technology as a Solution for Fulfilling Animal Feed Needs in Peri-Urban Areas at Irsyadul Anam Islamic Boarding School, Kiyudan, Selomartani, Kalasan, Sleman, Yogyakarta (2018)</i></p> <p><i>Source of funds: Thematic Service Grants for Laboratory of the Faculty of Animal Science UGM</i></p> <p>18. <i>Cut Poultry Feed and Various Feed Ingredients in Quality Livestock Ration. Free Lecture Materials For You Our Farmers Serve (2018)</i></p> <p><i>Source of funds: Faculty of Animal Science UGM</i></p> <p>19. <i>Plot Demonstration of Marriage Management and Feed Engineering on Ruminant Cattle to Produce Healthy and Twins in Duwet Rejo Karang Tengah Village Gunung Kidul (2017)</i></p> <p><i>Source of funds: TTG, BOPTN</i></p> <p>20. <i>Introduction of Forage Preservation Methods with Application of Fermentation Technology Based on Local Feed Sources to the Ruminant Livestock Group Association of Triharjo Village, Pandak, Bantul (2016)</i></p> <p><i>Source of funds: Thematic Grants for the Faculty of Animal Science</i></p> <p>21. <i>The Importance of Milk Replacer Based on Herbal Medicine and Fermentation BAL Superior Milk Powder for Twin Cempe (2016)</i></p> <p><i>Source of funds: Service Grants for Postgraduate Program Faculty of Animal Science UGM</i></p> <p>22. <i>Socialization of the Importance of Natural Bioactive-Based Milk Replacer and BAL Fermented Milk for Twin Sheep (2016)</i></p> <p><i>Source of funds: IbM (Science and Technology for the Community), DIKTI</i></p> <p>23. <i>Integrated Local Potential-Based Community Empowerment for Food Independent, Energy Independent, and Prosperous Productive Communities in Kerek, Jenu, and Merakurak Districts, Tuban Regency, East Java (2016)</i></p> <p><i>Source of funds: BPPTNBH (BH PTN Funding Assistance)</i></p> <p>24. <i>Open House "The World of Animal Feed" at the service activity "To You Our Farmers Are Devoted" (21 September 2016) (2016)</i></p> <p><i>Source of funds: BI, PT SANTORI</i></p> |
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| Industry collaborations over the last 5 years | <p>CV. Gumukmas Multi Farm. Jl. Sultan Agung no 42 Krajan, Purwoasri, Gumukmas, Jember – East Java 68165</p> <p>HNR Farm. Address: Joholanang rt 03 rw17 Sindumartani Ngrmplak Sleman</p> |
| Patents and proprietary rights | <p><i>Fermentation-Based Supplementary Feed and Its Manufacturing Process (Zaenal Bachruddin, Asih Kurniawati) (Simple Patent)-Granted</i> 2021</p> |
| Important publications over the last 5 years | <p>Total number of publications: 69</p> <ol style="list-style-type: none"> 1. <i>The Effect of the Purple Sweet Potato (Ipomoea Batatas L.) on the Fish Waste Silage Composition (Muhammad Zulfikar Fikri, Zaenal Bachruddin, Asih Kurniawati and Chusnul Hanim) (2021)</i> Publisher: <i>Advances in Biological Sciences Research, volume 18 9th International Seminar on Tropical Animal Production (ISTAP 2021). ATLANTIS PRESS</i> 2. <i>The Effect of Total Mixture Concentrate Based on Tofu Waste Silage as Feed on Performance of Lambs. Yafri Hazbi, Zaenal Bachruddin*, Nafiatul Umami and Lies Mira Yusiati (2021)</i> Publisher: <i>Advances in Biological Sciences Research, volume 18 9th International Seminar on Tropical Animal Production (ISTAP 2021). ATLANTIS PRESS</i> 3. <i>Lactic Acid Bacterial Fermentation Feed as Basal Ration: Addition Effect of Protein and Carbohydrate Protection on Rumen Fermentation of Bligon Goat Moh. Ikmal Khoirozzadit Taqwa, Zaenal Bachruddin, Lies Mira Yusiati, Nafiatul Umami, and Muhlisin (2021)</i> Publisher: <i>Advances in Biological Sciences Research, volume 18 9th International Seminar on Tropical Animal Production (ISTAP 2021). ATLANTIS PRESS</i> 4. <i>Effect of purple sweet potato levels (Ipomoea batatas L.) carbohydrate sources on fermentation kinetics and lactic acid production by Lactobacillus paracasei (Tasminto, D., Bachruddin, Z., Kurniawati, A., Muhlisin) (2021)</i> Publisher: <i>IOP Conference Series: Earth and Environmental Science, 2021, 686(1), 012048</i> 5. <i>Effect of addition cilembu sweet potato extract (Ipomoea batatas Cilembu) as a prebiotic source for the kinetics of fermentation and lactic acid production by Lactobacillus paracasei (Swithenia, F., Bachruddin, Z., Kurniawati, A., Yusiati, L.M.) (2021)</i> Publisher: <i>IOP Conference Series: Earth and Environmental</i> |

Science, 2021, 686(1), 012046

6. *Effect of addition cilembu sweet potato extract (Ipomoea batatas Cilembu) as a prebiotic source for the kinetics of fermentation and lactic acid production by Lactobacillus paracasei (Swithenia, F., Bachruddin, Z., Kurniawati, A., Yusiati, L.M.) (2021)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2021, 686(1), 012046

7. *Effect of yellow sweet potato extract (Ipomoea batatas L.) as a prebiotic source for the kinetics of fermentation and the production of lactic acid by Lactobacillus paracasei (Barus, W.L., Bachruddin, Z., Hanim, C., Yusiati, L.M.) (2021)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2021, 686(1), 012047

8. *Antibacterial effects of Kepok Banana bunch (Musa paradisiaca L.) against Staphylococcus aureus (Maryati, T., Nugroho, T., Bachruddin, Z., Pertiwiningrum, A.) (2021)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2021, 637(1), 012046

9. *Explorasi dan Studi Komposisi Botani Gulma di Perkebunan Karet PTPN IX Kebun Getas sebagai Pakan Ternak Ruminansia (H Harwanto, B Suwignyo, Z Bachruddin, G Pawening) (2021)*

Publisher: Jurnal Ilmu Peternakan dan Veteriner Tropis (Journal of Tropical Animal and Veterinary Science), 11(1): 40-48

10. *Nutrient content, fiber fraction and ethanol production of three cultivars (Pennisetum purpureum Scumach.) (2020)*

Publisher: E3S Web of Conferences 200, 03008 (2020)

11. *The exploration of banana bunch as a new vegetable tanning agent (2020)*

Publisher: IOP Conf. Series: Materials Science and Engineering, Volume 980, 012019

12. *Effect of Combination of Protected and Non-Protected Corn Oil Supplementation on in Vitro Nutrient Digestibility (Anam, M.S., Yusiati, L.M., Hanim, C., Bachruddin, Z., Astuti, A.) (2020)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 478(1), 012026

13. *Effect of Cinnamon Bark Meal (Cinnamomun burmanni Ness ex Bl) on in Vitro Methane Production and Rumen Methanogens Diversity (Hadianto, I., Yusiati, L.M., Bachrudin, Z., Suhartanto, B., Hanim, C., Kurniawati, A.) (2020)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 478(1), 012027

14. *The effect of turmeric (Curcuma longa L.) powder addition as natural antibiotic on the quality of milk replacer for lamb during storage (Devi, H., Bachruddin, Z., Hanim, C., Muhlisin) (2020)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 462(1), 012009

15. *Antibacterial Activity of Maja Fruit Extract Against Escherichia coli and Its Potential as Urease Inhibitor for Reducing Ammonia Emission in Poultry Excreta (Fitriyanto, N.A., Lewa, N., Prasetyo, R.A., Kurniawati, A., Erwanto, Y., Bachruddin, Z., Muhlisin, Wihandoyo) (2020)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 465(1), 012006

16. *In vitro gas production kinetics as influenced by the combination of Leucaenaleucocephala, Swietenia mahagoni, and Artocarpus heterophyllus as a tannin source (Aanas, M., Muhlisin,, Bachruddin, Z., Yusiati, L.M.) (2020)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 465(1), 012036

17. *The Effect of Bromelain from Pineapple (Ananas comosus) on Increasing Protein Digestibility of Milk Replacer for Lamb (Putriana, L., Bachruddin, Z., Hanim, C., Kurniawati, A., Yusiati, L.M., Widayati, O.) (2020)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 478(1), 012030

18. *Condition of Rumen Fermentation as Impacted by Supplementation of Fermented Rice Brand Using In Vitro Gas Production Technique (Z Zuratih, SPS Budhi, Z Bachruddin) (2020)*

Publisher: Jurnal Ilmu Ternak dan Veteriner 25 (2), 74-80

19. *Heating Effect on Rumen Digestion of Protein Feeds Fermented by Lactid Acid Bacteria (Sanjaya, H.L., Bachrudin, Z., Kurniawati, A., Hanim, C., Yusiati, L.M.) (2020)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2020, 478(1), 012029

20. *Effects of cinnamon bark meal (Cinnamomum burmanni Ness ex Bl) as protein protection agent on in vitro rumen fermentation characteristic (Hadianto, I., Yusiati, L.M., Bachrudin, Z., Suhartanto, B., Hanim, C.) (2019)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012060

21. *The effect of addition of turmeric (Curcuma longa L.) on the rancidity process of concentrate feed based on lactic acid bacteria fermentation during aerobic storage (Pangistika, A.W., Bachruddin, Z., Kurniawati, A., Utomo, R., Hanim, C.) (2019)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012099

22. *The effect of aerated storage system and turmeric (Curcuma longa L.) addition on the quality of lactic acid bacteria fermented feed (Hardiansyah, D., Bachruddin, Z., Yusiati, L.M., Hanim, C., Astuti, A.) (2019)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012100

23. *Effect of cinnamon bark meal (Cinnamomum burmanni Ness ex Bl) addition as cinnamaldehyde source on in vitro nutrient digestibility (Hadianto, I., Yusiati, L.M., Bachruddin, Z., Suhartanto, B., Hanim, C.) (2019)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012058

24. *Effect of banana and mango waste product as malic acid source on methane gas production (Saputro, W.S., Hanim, C., Yusiati, L.M., Bachruddin, Z., Pertiwinigrum, A.) (2019)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012026

25. *Growth optimization of Bacillus subtilis 11A isolated from Indonesian native chicken (Gallus domesticus) for bacteriocin production (Cahya, V.A., Hanim, C., Yusiati, L.M., Bachruddin, Z., Erwanto, Y.) (2019)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012013

26. *Growth and production of 2 cultivars (Pennisetum purpureum Schumach.) on regrowth phase (Ananta, D., Bachruddin, Z., Umami, N.) (2019)*

Publisher: IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012033

27. *Isolation And Identification Of Bacteriocin Producing Lactic Acid Bacteria From Rumen Fluid Of Thin Tail Sheep (O Widayati, Z Bachruddin, C Hanim, LM Yusiati, N Umami) (2019)*

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| | <p><i>Publisher: ON UNIVERSAL WELLBEING (ICUW 2019), 147</i></p> <p>28. <i>The Effects of Tanning with Kepok Banana (Musa Paradisiaca L) Bunch on the Physical Quality of Rabbit Skin (T Maryati, A Pertiwiningrum, Z Bachruddin) (2019)</i></p> <p><i>Publisher: Int. J. Recent Technol. Eng. 8, 12564-7</i></p> <p>29. <i>Effect of the Addition of Sodium Nitrate in a Total Mixed Ration with Fermented Tofu Waste on Methane Production from the Rumen Fluid (Z. Bachruddin, S. Latiefah and L.M. Yusiati) (2019)</i></p> <p><i>Publisher: Pakistan Journal of Nutrition, 18: 408-412.</i></p> <p>30. <i>Effects of Lemongrass Leaves as Essential Oil Sources on Rumen Microbial Ecology and Nutrient Digestibility in an in vitro System (Insani Hubi Zulfa, Zaenal Bachruddin and Asih Kurniawati) (2019)</i></p> <p><i>Publisher: Pakistan Journal of Nutrition, 18: 254-259.</i></p> <p>31. <i>Effects of Lemongrass leaves as Essential Oil Sources on Rumen Microbial Ecology and Nutrient Digestibility in an in vitro System (2019)</i></p> <p><i>Publisher: Pakistan Journal of Nutrition, Vol. 18 No. 3: 278-285</i></p> <p>32. <i>The Potential of Hydrolysate from Rabbit Meat Protein as an Angiotensin Converting Enzyme Inhibitor (2019)</i></p> <p><i>Publisher: Buletin Peternakan Vol. 43 (1): 31-37, February 2019</i></p> <p>33. <i>Bacteriocin Activity of Lactic Acid Bacteria Isolated from Rumen Fluid of Thin Tail Sheep (2019)</i></p> <p><i>Buletin Peternakan 43 (3): 158-165</i></p> <p>34. <i>Effect of Cashew Nutshell Oil Supplementation as Phenol Source for Protein Protection on In Vitro Nutrient Digestibility (2019)</i></p> <p><i>Publisher: Buletin Peternakan 43 (4): 225-230, November 2019</i></p> <p>35. <i>The Estimation of Rumen Microbial Protein Synthesis Based on Urinary Purine Derivates Excretion of Bligon Goats Fed by Fermented Feed and Peanut Straw (2018)</i></p> <p><i>Publisher: E-Proceedings 18th AAAP Congress 2018, 1-5 Aug. 2018, Kuching, Malaysia. pp. 100</i></p> <p>36. <i>Optimizing of Protease Purification from Bacillus cereus TD5B by Ammonium Sulfate Precipitation (2018)</i></p> <p><i>Publisher: Chemical Engineering Transactions Vol. 63. Page 709-714.</i></p> <p>37. <i>Kajian Pendapatan Pemeliharaan Domba Jantan dengan Pakan</i></p> |
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| | <p><i>Konsentrat Fermentasi Menjelang Idul Adha (2018)</i></p> <p><i>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. 212-217. ISBN: 978-979-1215-33-6</i></p> <p>38. <i>The Estimation of Rumen Microbial Protein Synthesis Based on Urinary Purine Derivates Excretion of Bligon Goats Fed by Fermented Feed and Peanut Straw (2018)</i></p> <p><i>Publisher: IOP Conf. Series: Earth and Environmental Science 387 (2019) 012055</i></p> <p>39. <i>Teknologi Fermentasi pada Industri Peternakan (Z Bachruddin) (2018)</i></p> <p><i>Publisher: UGM PRESS</i></p> <p>40. <i>Kebijakan Pembangunan Peternakan Indonesia Dalam Tata Kelola Otonomi Daerah: Studi Kasus Di Kabupaten Tana Tidung, Kalimantan Utara (R Ahmad Romadhoni Surya Putra, Pipit Tita Adhitya, Endy Triyannanto, Zaenal Bachruddin, I Gede Suparta Budisatria, Nanung Agus Fitriyanto, Ali Agus) (2018)</i></p> <p><i>Publisher: Prosiding Seminar Nasional: Sekolah Tinggi Penyusunan Pertanian (STPP) Magelang, 693-701</i></p> <p>41. <i>Isolation and characterization of protease-producing bacteria from puffer fish skin waste (Wibowo, R.L.M.S.A., Bachruddin, Z., Fitriyanto, N.A., Fitriyanto, N.A., Nakagawa, T., Hayakawa, T., Pertiwiningrum, A.) (2018)</i></p> <p><i>Publisher: Asian Journal of Microbiology, Biotechnology and Environmental Sciences, 2018, 20(October), pp. S47–S52</i></p> <p>42. <i>Optimizing of protease purification from bacillus cereus TD5B by ammonium sulfate precipitation (Winarti, A., Fitriyanto, N.A., Jamhari, Pertiwiningrum, A., Bachruddin, Z., Pranoto, Y., Erwanto, Y.) (2018)</i></p> <p><i>Publisher: Chemical Engineering Transactions, 2018, 63, pp. 709–714</i></p> <p>43. <i>Screening and Characterization of Keratinolytic Bacteria from Puffer Fish Skin Waste (2017)</i></p> <p><i>Publisher: Pakistan Journal of Nutrition Vol. 16 (7): 488-496, 2017. ISSN: 1680-5194. Published by: ANSInet. DOI: 10.3923/pjn.2017.488.496</i></p> <p>44. <i>Effect of Manganese (Mn²⁺) Addition on Cocoa Pod</i></p> |
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Fermentation with Phanerochaete chrysosporium (2017)

Publisher: Pakistan Journal of Nutrition Vol. 16 (7): 508-513, 2017. ISSN: 1680-5194. DOI: 10.3923/pjn.2017.508.513

45. *The Effect Additional of Sodium Carbonate as Buffer in Utilization of Tofu Byproduct Lactic Acid Bacteria Fermentation as Basal Ration on Rumen Fermentation Bligon Goat During Lactation (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 112-116. ISBN: 978-979-1215-29-9

46. *Isolation of Bacteria Producing Enzyme Collagenase from Waste of Pufferfish (Arothon reticularis) Skin (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 374-379. ISBN: 978-979-1215-29-9

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| <p>Activities in specialist bodies over the last 5 years</p> | <ul style="list-style-type: none"> - Yogyakarta RGM Cooperative - CV. Gumukmas Multi Farm - HNR Farm |