

Staff Handbook

Name	<i>Dr. Muhsin Al Anas</i>		
Post	<i>Animal Nutrition</i>		
Academic career	<i>Post-doctoral qualification</i>	<i>Fulbright Visiting Scholar United State of America</i>	<i>2021-2022</i>
	<i>Professional Engineering (Ir.)</i>	<i>Universitas Gadjah Mada</i>	<i>2020-2021</i>
	<i>Doctorate (Animal Science)</i>	<i>Universitas Gadjah Mada</i>	<i>2016-2020</i>
	<i>Undergraduate degree (Animal Science)</i>	<i>Universitas Gadjah Mada</i>	<i>2010-2015</i>
Employment	<i>Lecturer</i>	<i>Universitas Gadjah Mada</i>	<i>2020-present</i>
Research and development projects over the last 5 years	<p><i>Research projects:</i></p> <ol style="list-style-type: none"> <i>1. The substitution of soybean meal with jack bean (Canavalia ensiformis) for broiler feed (2021-Present)</i> <i>Resource of funds: PT. Widodo Makmur Perkasa and Faculty of Animal Science UGM Research Grant</i> <i>2. Monitoring system of broiler welfare, health, and productivity using sound analysis with CZN-15E sensor connected on ARDUINO-UNO (2021-Present)</i> <i>Resource of funds: Directorate of Higher Education, Ministry of Education, Culture, Research, and Technology</i> <i>3. Respiration Chamber with Smart Technology for Calculating Greenhouse Gases Production on Ruminants in Real Time Applied with IOT System (2021-Present)</i> <i>Resource of funds: Directorate of Higher Education, Ministry of Education, Culture, Research, and Technology</i> <i>4. Development of Bio char Feed Additive Technology With Essential Oil Supplement to Reduce Aflatoxin B1 Toxicity in Broiler (2021-Present)</i> <i>Resource of funds: Directorate of Higher Education, Ministry of Education, Culture, Research, and Technology</i> <i>5. Development of Rumen Undegradable Nutrient Technology to Improve Efficiency of Feed Utilization and Weight Gain of Sheep (2021-Present)</i> <i>Resource of funds: Directorate of Higher Education, Ministry of Education, Culture, Research, and Technology</i> <i>6. Development of Essential Oil Combination to Inhibit Regulation of Aflr Aspergillus flavus Gene on Aflatoxin B1 Synthesis in Maize (2021-Present)</i> 		

	<p><i>Resource of funds: Directorate of Higher Education, Ministry of Education, Culture, Research, and Technology</i></p> <p>7. <i>Nano-Bio char Pellet Technology with Tannin and Essential Oil Supplement as A Methane-Reduction Feed Additive in Ruminants (2021-Present)</i></p> <p><i>Resource of funds: Directorate of Higher Education, Ministry of Education, Culture, Research, and Technology</i></p> <p>8. <i>Improving Broiler Productivity with Guanidino Acetic Acid (Creamino) in Feed (2021-Present)</i></p> <p><i>Resource of funds: PT. Widodo Makmur Perkasa</i></p> <p>9. <i>The Substitution of Soybean Meal with Palm Kernel Meal and Palm Kernel Hydrolysed as A Protein Source in Broiler Feed (2021-Present)</i></p> <p><i>Resource of funds: PT. Widodo Makmur Perkasa</i></p> <p>10. <i>Improving The Productivity and Quality of Duck Meat with Supplementation of Krill and Shrimp Meal as Protein Feed Source (2021-Present)</i></p> <p><i>Resource of funds: PT. PT.Agru Cipta Solusindo</i></p> <p>11. <i>Improving Omega-3 in Eggs with Feed Supplementation Containing with Krill and Shrimp Meal in Laying Hen Feed (2021-Present)</i></p> <p><i>Resource of funds: PT. Agru Cipta Solusindo</i></p> <p>12. <i>Study of Various Protein Feed to Improve Poultry Productivity (2021-Present)</i></p> <p><i>Resource of funds: PT. PT.Agru Cipta Solusindo</i></p> <p>13. <i>The Efficacy of Toxisorb on Broiler and Layer (2021-Present)</i></p> <p><i>Resource of funds: Clariant Indonesia</i></p> <p>14. <i>Effect of Myristica fragrans Essential Oil Supplementation in Feed on Gastrointestinal Growth, Carcass Quality, and Broiler Productivity (2020)</i></p> <p><i>Resource of funds: Faculty of Animal Science UGM Research Grant</i></p> <p>15. <i>Impact of GUSTOR BP70 and Essential Oils (EO-FIT POULTRY) on Small Intestinal Histology and Growth Performances in Broiler (2019-2020)</i></p> <p><i>Resource of funds: NOREL Animal Nutrition, Spain</i></p> <p>16. <i>Dietary Natural-Guard (Blend Essential Oils) Improve Chicken</i></p>
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	<p><i>Productivity (Layer And Broiler) (2018-2019)</i></p> <p><i>Resource of funds: PT. Central Proteina Prima</i></p> <p>17. <i>Evaluation of Toxin Binders to Ameliorate Aflatoxicosis B1 in Broiler Productivity (2018)</i></p> <p><i>Resource of funds: EW Nutrition</i></p> <p>18. <i>Development of Agromix Super (Premix) as Immune Stimulator to Improve Productivity and Livestock Product Quality (2017-2019)</i></p> <p><i>Resource of funds: Directorate of Higher Education, Ministry of Education, Culture, Research, and Technology</i></p> <p>19. <i>Effect of Agromix Booster Supplementation on The Development of Gastrointestinal Tract, Productivity, and Product Quality of Laying Hens (2017-2019)</i></p> <p><i>Resource of funds: Directorate of Higher Education, Ministry of Education, Culture, Research, and Technology</i></p> <p>20. <i>Reduction of Aflatoxin Toxicity in Broiler with Sulphur Amino Acids (2017-2019)</i></p> <p><i>Resource of funds: Directorate of Higher Education, Ministry of Education, Culture, Research, and Technology</i></p> <p><i>Community service over the last 5 years:</i></p> <p>1. <i>Technology Transfer of Duck Breeding in Bulan Village, Wonosari, Kalten Region, Central Java (2021-Present)</i></p> <p><i>Resource of funds: Individual fund from youth farmer group</i></p> <p>2. <i>Gembala Gunung: Development of Extensive Sheep Breeding in Ayo Angon Livestock Group, Buyutan, Nagalang Village, Gedangsari, Gunungkidul, Yogyakarta (2021-Present)</i></p> <p><i>Resource of funds: Directorate of Higher Education, Ministry of Education, Culture, Research, and Technology</i></p> <p>3. <i>Food Bank: Development of Young Generations that Care about Food Security during Pandemic Covid- 19 Situation in Pedak Village, Karangbendo, Bantul, (2021-Present)</i></p> <p><i>Resource of funds: Directorate of Higher Education, Ministry of Education, Culture, Research, and Technology</i></p> <p>4. <i>Training on Breeding and Livestock Management Business of Free-Ranch Chicken in Sleman Regency, Yogyakarta (2021-Present)</i></p> <p><i>Resource of funds: Government Agency of Agriculture, Food,</i></p>
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	<p><i>and Marine, Sleman District</i></p> <p>5. <i>Feed Concentrate Production Containing Rumen- Undegradable Nutrient in Ayo Angon Livestock Group, Ngalang Village, Gedangsari, Gunungkidul, Yogyakarta (2021-Present)</i></p> <p><i>Resource of funds: Faculty of Animal Science Grant for Empowerment</i></p> <p>6. <i>Village Youth Hope to Develop a Livestock Farm in Ngalang Village, Gedangsari, Gunungkidul (2021-Present)</i></p> <p><i>Resource of funds: Faculty of Animal Science Grant for Empowerment</i></p> <p>7. <i>Sustainable Integrated Farming: “Maggot Farm” The Solution of Waste Management in Gondangsari Village, Pakis, Magelang, Central Java (2021-Present)</i></p> <p><i>Resource of funds: Faculty of Animal Science Grant for Empowerment</i></p> <p>8. <i>Feed Management Training for Farmer (2021)</i></p> <p><i>Resource of funds: Red Meat Cattle Partnership, Australia</i></p> <p>9. <i>Ayo Angon: “Skills for Future Livestock Farmers” Youth Empowerment Program in Livestock Sector to Improve Their Skills and Prosperity Level in Ngalang Village, Gedangsari, Gunungkidul (2020-Present)</i></p> <p><i>Resource of funds: Australia Alumni Grant Scheme</i></p> <p>10. <i>Sheep Village: Development of Sheep Breeding Center to Improve the Society Economy in Kadilanggon Village, Wedi District, Klaten Regency (Cooperated with BUMDES Kadilanggon) (2020-Present)</i></p> <p><i>Resource of funds: Kadilanggon Villange Fund</i></p> <p>11. <i>Socialization and Training about Layer Breeding to Produce Functional Eggs in Mekar Women Farmers Groups Ngalian, Widomartani, Ngemplak, Sleman (2021)</i></p> <p><i>Resource of funds: Government Agency of Agriculture, Food, and Marine, Sleman District</i></p> <p>12. <i>Development of Eco-Friendly Livestock using Feed Supplement Technology based on Natural Bioactive ff Tropical Plants in Ayo Angon Farmer Group, Buyutan, Ngalang Village, Gedangsari, Gunungkidul (2020)</i></p> <p><i>Resource of funds: Faculty of Animal Science Grant for Empowerment</i></p>
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	<p>13. <i>Happy Chicken Breeding: The Effort of Providing Food Protein Source Independently (2020)</i></p> <p><i>Resource of funds: PT. Widodo Makmur Unggas</i></p> <p>14. <i>Community Services through Free-Ranch Laying Hens Breeding to Produce Functional Eggs at Pondok Pesantren Is Aswaja Lintang Songo, Pagergunung, Piyungan, Bantul(2020)</i></p> <p><i>Resource of funds: PT Widodo Makmur Unggas and Laboratory of Nutritional Biochemistry, UGM</i></p> <p>15. <i>Community Services through Free-Ranch Laying Hens Breeding to Produce Functional Eggs at Dasawisma Dewi Sari Women Group, Buyutan, Gading Sari, Sanden, Bantul (2020)</i></p> <p><i>Resource of funds: PT Widodo Makmur Unggas and Laboratory of Nutritional Biochemistry</i></p> <p>16. <i>Community Services for Developing the Village in Balak, Pendoworejo, Girimulyo, Kulonprogo Region (2020)</i></p> <p><i>Resource of funds: Society of Biochemistry and Molecular Biology Indonesia</i></p> <p>17. <i>Community Services for Developing The Village in Balak, Pendoworejo, Girimulyo, Kulonprogo Region (2020)</i></p> <p><i>Resource of funds: Society of Biochemistry and Molecular Biology Indonesia</i></p> <p>18. <i>Introduction of Poultry Industry-Feed Technology for Improving Poultry Gastrointestinal Activities (2020)</i></p> <p><i>Resource of funds: Universitas Gadjah Mada Fund</i></p> <p>19. <i>Community Services through Free-Ranch Laying Hens Breeding to Produce Functional Eggs at Pondok Pesantren Irsyadul Anam, Kiyudan, Selomartani, Kalasan, Sleman, Yogyakarta (2020)</i></p> <p><i>Resource of funds: PT Widodo Makmur Unggas and Laboratory of Nutritional Biochemistry</i></p> <p>20. <i>Development of Eco-Friendly Livestock Using Feed Supplement Technology based on Natural Bioactive of Tropical Plants in Ayo Angon Farmer Group, Buyutan, Ngalang Village, Gedangsari, Gunungkidul (2020)</i></p> <p><i>Resource of funds: Faculty of Animal Science Grant for Empowerment</i></p> <p>21. <i>Training of Feed Technology Development in Manunggal Farmer Group, Sayegan, Sleman, Yogyakarta (2020)</i></p> <p><i>Resource of funds: Laboratory of Nutritional Biochemistry,</i></p>
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	<p><i>Faculty of Animal Science UGM</i></p> <p>22. <i>Development of Apprentice Program for Improving the Skills of Animal Science Graduated Students in Cattle Industry (2019)</i></p> <p><i>Resource of funds: Indonesia-Australia Red Meat Cattle Partnership</i></p> <p>23. <i>Improvement Of Feed Processing Skills In Sedyo Rukun Farmer Group, Berbah, Sleman (2018-2019)</i></p> <p><i>Resource of funds: Empowerment Grant, Ministry of Education, Culture, Research, and Technology</i></p>
Industry collaborations over the last 5 years	<p>1. <i>Technology Development of Black Soldier Fly Larvae (BSF-L) Oil-Based Feed Supplement</i></p> <p><i>Partner: Ministry of Education, Culture, Research, and Technology</i></p> <p>2. <i>"Technology Development of Black Soldier Fly Larvae (BSF-L) Oil-Based Feed Supplement"</i></p> <p><i>Partner: PT Magalarva Sayana Indonesia</i></p>
Patents and proprietary rights	-
Important publications over the last 5 years	<p><i>Total number of publications: 14</i></p> <p>1. <i>The effect of aflatoxin B1 on productivity, small intestine morphology, and nutrient digestibility of broiler (Muhsin Al Anas)</i></p> <p><i>Publisher: Journal of Advance in Biological Science Research, Penerbit Atlantis Press–Springer Nature. https://www.atlantispress.com/proceedings/series/absr</i></p> <p>2. <i>The Potency of Traditional Market Vegetable Waste as Ruminant Feed in the Special Region of Yogyakarta (2021)</i></p> <p><i>Publisher: Advances in Animal and Veterinary Sciences</i></p> <p>3. <i>Impact of Natural Oil Blend Formulation (NOBF) on Calves during Transportation (2021)</i></p> <p><i>Publisher: Asian Journal of Animal and Veterinary Advances</i></p> <p>4. <i>Effect of methionine supplementation to lower aflatoxicosis B1 on intestinal morphology in broilers (2020)</i></p> <p><i>Publisher: Livestock Research for Rural Development</i></p> <p>5. <i>Survey of aflatoxin B1 contamination in broiler feed from small-scale farms in Special Region of Yogyakarta, Indonesia (2020)</i></p> <p><i>Publisher: Livestock Research for Rural Development</i></p> <p>6. <i>Increasing in productivity of laying hen fed by natural guard essential</i></p>

	<p><i>oils supplementation (2020)</i></p> <p><i>Publisher: International Journal of Current Advanced Research</i></p> <p>7. <i>Efficacy of natural herbal formulation "NATURALGUARD" as AGP replacement on swine productivity in Indonesia (2020)</i></p> <p><i>Publisher: International Journal of Current Advanced Research</i></p> <p>8. <i>In vitro gas production kinetics as influenced by the combination of Leucaena leucocephala, Swietenia mahagoni, and Artocarpus heterophyllus as a tannin source (2020)</i></p> <p><i>Publisher: IOP Conferences series Earth and Environment.</i></p> <p>9. <i>The effect of BAV addition as feed additive in laying hen ration on quality and chemical composition of egg (2020)</i></p> <p><i>Publisher: IOP Conferences series Earth and Environment</i></p> <p>10. <i>Effect of Leucaena leucocephala leaves as tannin source on rumen microbial enzyme activities and in vitro gas production kinetics (2020)</i></p> <p><i>Publisher: OP Conferences series Earth and Environment</i></p> <p>11. <i>Effect of blend of natural essential oils addition in the drinking water on productivity, carcass yield and meat quality of broiler (2019)</i></p> <p><i>Publisher: IOP Conferences series Earth and Environment</i></p> <p>12. <i>Effect of Leucaena leucocephala substitution on in vitro rumen fermentation and methane emission in thin tailed-sheep (2019)</i></p> <p><i>Publisher: IOP Conferences series Earth and Environment</i></p> <p>13. <i>Protein Binding Capacity of Different Forages Tannin (2018)</i></p> <p><i>Publisher: IOP Conferences series Earth and Environment.</i></p> <p>14. <i>Calliandra calothyrsus as tannins source for in vitro methane production inhibitor agent (2017)</i></p> <p><i>Publisher: nternational Seminar on Tropical Animal Production.</i></p>
<p>Activities in specialist bodies over the last 5 years</p>	<p>-</p>