

Staff Handbook

Name	<i>Prof. Dr. Ir. Sumadi, MS.</i>		
Post	<i>Animal Breeding and Statistics</i>		
Academic career	<i>Professor (Prof)</i>	<i>Universitas Gadjah Mada</i>	<i>2006</i>
	<i>Doctorate</i>	<i>IPB University</i>	<i>1993</i>
	<i>Graduate degree</i>	<i>IPB University</i>	<i>1985</i>
	<i>Undergraduate degree</i>	<i>Universitas Gadjah Mada</i>	<i>1978</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>
Research and development projects over the last 5 years	<p><i>Research projects:</i></p> <ol style="list-style-type: none"> 1. <i>Estimated Body Weight of PO Cattle at BPTU-HPT Sembawa Using Body Size Dimensions (2020)</i> <i>Source of funds: Thematic Grants from the Faculty of Animal Science UGM</i> 2. <i>Potential and Genetic Analysis of Sumba Ongole Cattle in East Sumba Regency, East Nusa Tenggara Province (2019)</i> <i>Source of funds: Basic Research for Excellence in Higher Education, Ristekdikti</i> 3. <i>Estimation of Genetic Parameters of Growth Traits and Identification of MC4R Genes in Ongole Breeds at BPTU-HPT Sembawa, Kebumen and UPT-HMT Tuban (2019)</i> <i>Source of funds: Thematic Research Grants for Laboratory of the Faculty of Animal Science UGM</i> 4. <i>Potential and Genetic Analysis of Sumba Ongole Cattle in East Sumba Regency, East Nusa Tenggara Province (2018)</i> <i>Source of fund: Basic Research for Higher Education Excellence (PDUPT), Ristekdikti</i> 5. <i>Estimation of Body Weight on Sumba Ongole Cattle in East Sumba Regency Using Body Size Dimensions. (2018)</i> <i>Source of funds: Laboratory Thematic Grant, Faculty of Animal Science UGM</i> 6. <i>Identification of BMP-15 and GDF-9 Gene Polymorphisms of Etawah Crossbreeds at BBPTU-HPT Pelaihari, South Kalimantan (2018)</i> <i>Source of funds: Postgraduate Grant, Faculty of Animal Science UGM</i> 7. <i>Identification and Analysis of FABP4 Gene Polymorphisms and Their Relationship with Growth Traits in Ongole Breeds</i> 		

	<p><i>Kebumen Cattle (2017)</i></p> <p><i>Source of funds: Thematic Laboratory of the Faculty of Animal Science UGM</i></p> <p>8. <i>Selection of Weaning Weight to Produce Superior Males and Sows in Ongole Crossbreeds in Kebumen Regency, Central Java (Head of 4 Researchers) (2016)</i></p> <p><i>Source of funds: PUPT DIKTI</i></p> <p>9. <i>Identification of Purity of Kebumen Ongole Breeds Based on Cytochrome B (Cyt-b) and SRY Genes (Member of 3 Researchers) (2016)</i></p> <p><i>Source of funds: Thematic Research Grants for Laboratory of the Faculty of Animal Science UGM</i></p> <p><i>Community service over the last 5 years:</i></p> <p>1. <i>Assistance of Breeders for Members of the Cooperative for Business Facilities for the Prosperous Residents of Cangkringan Sleman in an Effort to Provide Dairy Cattle Seeds Independently During the 2020 Covid-19 Pandemic Period UGM (2020)</i></p> <p><i>Source of funds: UGM</i></p> <p>2. <i>Training and Application of Livestock Body Weight Estimation Formulas Using Body Size Dimensions at the Ongole Breeders Association of Kebumen (2020)</i></p> <p><i>Source of funds: Thematic Grants for Laboratory Service Faculty of Animal Science UGM</i></p> <p>3. <i>Integrated Livestock Program Training and Assistance in Selobanteng Village, Banyuglugur District, Situbondo Regency-East Java (2019)</i></p> <p><i>Source of funds: PT PJB UP Paiton</i></p> <p>4. <i>Revitalization of Livestock Recording Activities at the Ongole Breeders Association of Kebumen (2019)</i></p> <p><i>Source of funds: Faculty of Animal Science Universitas Gadjah Mada</i></p> <p>5. <i>Counseling on Inbreeding Prevention through Marriage Arrangements and Artificial Insemination in Kebumen Ongole Crossbreeds in Klirong District, Kebumen Regency, Central Java (2018)</i></p> <p><i>Source of funds: Thematic Service Grants Laboratoruim Faculty of Animal Science UGM</i></p>
--	---

	<p>6. <i>Beef Beef "Breeding". Free Lecture Materials For You Our Breeders Serve (2018)</i></p> <p>Source of funds: Faculty of Animal Science UGM</p> <p>7. <i>Beef Cattle "Breeding" (Free Lecture "For You Farmers We Serve") (2017)</i></p> <p>Source of funds: Self Funds</p> <p>8. <i>Training on Procedures for Selection of Ongole Kebumen Cow Breeds Through Simulation of Livestock Contests in Klirong District, Kebumen Regency, Central Java Province (2017)</i></p> <p>Source of funds: Thematic Grant of the Faculty of Laboratories. UGM</p> <p>9. <i>Training on Procedure for Selection of Ongole Breeds (PO) Based on Quantitative and Qualitative Characteristics in Klirong District, Kebumen Regency, Central Java (2016)</i></p> <p>Source of funds: Thematic Grants for the Faculty of Animal Science UGM</p>
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<p><i>Total number of publications: 41</i></p> <p>1. <i>Body weight, body measurements and slaughter characteristics of madura cattle raised in Pamekasan District, East Java Province, Indonesia (Prihandini, P.W., Maharani, D., Sumadi) (2020)</i></p> <p><i>Publisher: Biodiversitas, 2020, 21(8), pp. 3415–3421</i></p> <p>2. <i>Association between the Melanocortin-4 Receptor (MC4R) Gene Polymorphisms and Growth Trait in Sumba (Fathoni, A., Sumadi, S., Budisatria, I.G.S., Sari, A.P.Z.N.L., Maharani, D.) (2020)</i></p> <p><i>Publisher: Iranian Journal of Applied Animal Science, 2020, 10(4), pp. 603–609</i></p> <p>3. <i>Sequencing and Phylogenetic Melanocortin-1-receptor (MC1R) Gene of Bali Cows in Kupang District, Nusa Tenggara Timur Provincy of Indonesia (Arnold Christian Tabun, Sumadi, Cardial Levenson Octovianus Leo Penu, Johanis A Jermias, S.D Volkandari, T Hartatik and I Gusti Nyoman Gde Bidura) (2020)</i></p> <p><i>Publisher: International Journal of Fauna and Biological Studies 2020; 7(3): 1 -6</i></p>

4. *Dairy Content as Selection Method for High Production Cow in Sarana Usaha Warga Sejahtera Cooperative Sleman* (Yuni Suranindyah, Sumadi, Dyah Maharani, Akhmad fathoni, Glorina Desviani, Nurulia Hidayah) (2020)

Publisher: Programme Book The 2nd International Conference on Community Engagement and Education for Sustainable Development (ICCEESD) 2020. Yogyakarta 24-25 November 2020, page: 140

5. *Breeding value of candidate bulls based on birth weight in Kebumen Ongole Grade Cattle* (Akhmad Fathoni, Sumadi, Dyah Maharani) (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 52-55. ISBN: 978-979-1215-37-4. Published by: Faculty of Animal Science Universitas Gadjah Mada

6. *Melanocortin-4 receptor (MC4R) gene polymorphism and its effect on growth traits in Madura cattle* (Prihandini, P.W., Sumadi, Suparta, G., Maharani, D.) (2019)

Publisher: Journal of the Indonesian Tropical Animal Agriculture, 2019, 44(1), pp. 38–46

7. *Identification of single nucleotide polymorphisms in GDF9 gene associated with litter size in Garut sheep* (Rahmawati, R.Y., Sumadi, Hartatik, T.) (2019)

Publisher: Indonesian Journal of Biotechnology, 2019, 24(1), pp. 51–56

8. *Polymorphism of the SNP g. 1180 C>T in leptin gene and its association with growth traits and linear body measurement in Kebumen Ongole Grade cattle* (Fathoni, A., Maharani, D., Aji, R.N., Choiri, R., Sumadi, S.) (2019)

Publisher: Journal of the Indonesian Tropical Animal Agriculture, 2019, 44(2), pp. 125–134

9. *Artificial Insemination on the Etawah Grade Goats Using Frozen Semen of Gembrong Goat* (Bayu Andri Atmoko, Sigit Bintara, I Gede Suparta Budisatria, Dyah Maharani, Jafendi H P Sidadolog, Sumadi, Lies Mira Yusiati, and I Made Londra) (2019)

Publisher: KnE Life Sciences. Volume 2019: 149-155. The UGM Annual Scientific Conference Life Sciences 2016 25–26 October 2016

10. *The Estimation of Stock Availability and Population Dynamics on Ongole Grade and Limousin-Ongole Grade Cattle in Tuban Regency, East Java Province (Nasuha, Sumadi) (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 70-74. ISBN: 978-979-1215-37-4. Published by: Faculty of Animal Science Universitas Gadjah Mada

11. *The allele and genotype distribution in SNP g. 408 C>G of the FABP4 gene in Kebumen Ongole grade cattle (Akhmad Fathoni, Dyah Maharani, Sumadi, Tety Hartatik) (2019)*

Publisher: Proceedings ISAG 37th International Society for Animal Genetics Conference (2019), page 92-92. University of Lleida, 7 Juli 2019 - 12 Agustus 2019. https://www.isag.us/Docs/Proceedings/ISAG2019_Proceedings.pdf

12. *Metodologi Penelitian (Sumadi, Akhmad Fathoni) (2019)*

Publisher: Buku. Edisi 2 cetakan 1. 131 halaman. Penerbit: Lintang Pustaka Utama. ISBN: 978-623-7514-06-0

13. *Identification of MC4R gene and its association with body weight and body size in Kebumen Ongole Grade cattle (Maharani, D., Fathoni, A., Sumadi, Hartatik, T., Khusnudin, M.) (2018)*

Publisher: Journal of the Indonesian Tropical Animal Agriculture, 2018, 43(2), pp. 87–93

14. *Haplotype diversity of partial cytochrome b gene in Kebumen ongole grade cattle (Hartatik, T., Maharani, D., Sidadolog, J.H.P., Fathoni, A., Sumadi) (2018)*

Publisher: Tropical Animal Science Journal, 2018, 41(1), pp. 8–14

15. *Estimates of heritability and breeding values for growth traits in Madura Cattle reared in Pamekasan Regency (Prihandini, P.W., Maharani, D., Suparta, G., Sumadi) (2018)*

Publisher: Asian Journal of Microbiology, Biotechnology and Environmental Sciences, 2018, 20(3), pp. 1040–1043

16. *Genotype analysis of partial growth hormone gene (GH891Mspl) in Pesisir cattle and Simmental-Pesisir crossbred cattle (Hartatik, T., Putra, D.E., Volkandari, S.D., Kanazawa, T., Sumadi) (2018)*

Publisher: Journal of the Indonesian Tropical Animal Agriculture, 2018, 43(1), pp. 1–8

17. Sumadi, Tety Hartatik *Identifikasi Grade Pada Bibit Sapi Aceh Betina di Pusat Pembibitan Indrapuri (2018)*

Publisher: Jurnal Peternakan VoL. 15 No. 1 Halaman 9-14. ISSN: 1829 – 8729

18. *Estimasi Nilai Ripitabilitas Berat Badan Kambing Peranakan Ettawa di Balai Pembibitan Ternak Unggul dan Hijauan Pakan Ternak Pelaihari, Kalimantan Selatan (Sumadi, Alfiona Annisa, Endang Baliarti, dan Akhmad Fathoni) (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. 157-160. ISBN: 978-979-1215-33-6

19. *Estimasi Nilai Natural Increase (NI) Sapi Peranakan Ongole di Kecamatan Tanjung Sari, Kabupaten Lampung Selatan, Provinsi Lampung (Sumadi, Endang Baliarti, Gracia Henreita Suci Aprilia, dan Akhmad Fathoni) (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. 151-156. ISBN: 978-979-1215-33-6

20. *Identification of Distribution Single Nucleotide Polymorphism of Cytochrome B Gene in Kebumen Ongole Grade Cattle and Brahman Cattle(2017)*

Publisher: Proceedings Abstract Book 36th International Society for Animal Genetic Conference (ISAG 2017) di Dublin, Irlandia, 16 – 21 Juli 2017. In University College Dublin (UCD).Page:75

21. *Phylogenetic Tree Analysis for Ongole Grade (Kebumen Cattle) Based on Partial SRY Gene (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 681-685. ISBN: 978-979-1215-29-9

22. *Identification Single Nucleotide Polimorphism of Melanocortin 4 Receptor Gene in Madura Cattle (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 691-695. ISBN: 978-979-1215-29-9

23. *The Estimation of Natural Increase, Population Dynamics and Output of The 7th International Seminar on Tropical Animal*

Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 760-764. ISBN: 978-979-1215-29-9
Cattle in Klaten Central of Java (2017)

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 760-764. ISBN: 978-979-1215-29-9

24. *Estimate the Milk Production of Friesian Holstein (Fh) Based on Incomplete Record in Balai Besar Pembibitan Ternak Unggul-Hijauan Pakan Ternak (BBPTU-HPT) Baturraden, Banyumas, Central Java (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 765-768. ISBN: 978-979-1215-29-9

25. *The Correlation of Body Measurements and Weights of Ongole Crossbred (PO) Cattle in Kebumen Regency (2017)*

Publisher: The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 880-884. ISBN: 978-979-1215-29-9

26. *The Estimation of Breeding Value of Rams at Technical Implementation Unit Development Center for Livestock Breeding in Margawati Garut, West Java (2017)*

Publisher: Proceeding of the 1st International Conference on Tropical Agriculture. Springer, Cham. (Springer Link) p-ISBN: 978-3-319-60362-9 e- ISBN: 978-3-319-60363-6

27. *Breeding Value of Sires Based on off Spring Weaning Weight As a Recommendation for Selecting Kebumen Ongole Grade Cattle (2017)*

Publisher: "J. Indonesian Trop. Anim. Agric. Vol. 42(3):160-166, September 2017. pISSN 2087-8273 eISSN 2460-6278
<http://ejournal.undip.ac.id/index.php/jitaa>. DOI:
10.14710/jitaa.42.3.160-166"

28. *Estimasi Dinamika Populasi dan Penampilan Reproduksi Sapi Peranakan Ongole di Kabupaten Kebumen Provinsi Jawa Tengah (2017)*

Publisher: "Buletin Peternakan Vol. 41 (3): 230-242, Agustus 2017 ISSN-0126-4400 E-ISSN-2407-876X DOI: https://doi.org/10.21059/buletinpeternak.v41i3.13618"

29. *Estimasi Ketersediaan Bibit Sapi di Pulau Sumatera (2017)*

Publisher: Prosiding Seminar Nasional III Sapi dan Kerbau, 4-5 Oktober 2017 di Hotel Inna Muara Padang. Penyelenggara:

Fakultas Peternakan Universitas Andalas, Padang. Hal. 16-30. ISBN: 978-602-6953-21-6

30. *Estimasi Ketersediaan Bibit Kerbau di Pulau Sumatera (2017)*

Publisher: Prosiding Seminar Nasional III Sapi dan Kerbau, 4-5 Oktober 2017 di Hotel Inna Muara Padang. Penyelenggara: Fakultas Peternakan Universitas Andalas, Padang. Hal. 31-43. ISBN: 978-602-6953-21-6. Penerbit: Andalas University Press

31. *Asosiasi Gen MC4R terhadap Ukuran-Ukuran Tubuh Sapi Peranakan Ongole Kebumen pada Saat Lahir dan Sapih (Penulis ke-2 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, halaman: 163

32. *Pemeringkatan Pejantan dan Induk Domba Ekor Gemuk Berdasarkan Nilai Parameter Genetik di Pt Hrl Internasional, Pacet, Mojokerto, Jawa Timur (Penulis ke-1 dari 4) (2016)*

Publisher: Prosiding Simposium Nasional Penelitian dan Pengembangan Peternakan Tropik Tahun 2016. Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta. ISBN: 978-979-1215-28-2, halaman: 164-168

33. *Perbedaan Profil Biokimia Darah pada Kambing Gembrong Fase Estrus dan Diestrus (Penulis ke-5 dari 8) (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: 169-172

34. *Pemeringkatan Produktivitas Induk Kambing Peranakan Etawah Berdasarkan Mutu Genetiknya di Unit Pelaksana Teknis Pembibitan Ternak dan Hijauan Makanan Ternak Malang, Jawa Timur (Penulis ke-1 dari 3) (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: 185-192

35. *Short Communication: Genetic Identification of Local Pigs, and Imported Pigs (Landrace and Duroc) Based on Cytochrome b Sequence Analysis (Penulis ke- 4 dari 5) (2016)*

Publisher: Journal Biodiversitas, Vol.17, No. 1, 2016, pages: 270-274. ISSN: 1412-033X,

	<p>36. <i>Short Communication: Identification of Growth Hormone Gene Polymorphism for Beef Cattle in Pesisir Selatan District, West Sumatra, Indonesia (Penulis ke-2 dari 4) (2016)</i></p> <p><i>Publisher: Journal Biodiversitas, Vol.17, No. 2, 2016. pages: 711-715. ISSN: 1412-033X</i></p> <p>37. <i>Genetic Diversity of Ongole Crossbred Cattle in Kebumen based on MC4R Gene (Penulis ke 2 dari 8) (2016)</i></p> <p><i>Publisher: Proceedings of The 17th Asian-Australasian Association of Animal Production Societies Animal Science Congress, 22-25 August 2016, Fukuoka Japan</i></p> <p>38. <i>Artificial Insemination on the Etawah Grade Does Using Frozen Semens of Gembrong Goat (Penulis ke-5 dari 8) (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>39. <i>Sperm Quality of Gembrong Goat in Bali before and after Freezing (Penulis ke-5 dari 8) (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>40. <i>Estimation of Breeding Value of Rams at Unit Pelaksanaan Teknis Dinas Balai Pengembangan Perbibitan Ternak Domba (UPTD-BPPT) Margawati, Garut, West Java (Penulis ke-1 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>41. <i>Estimation of MPPA (Most Probable Producing Ability) Value of Kebumen Ongole Crossbred Cattle Based on Offsprings Weaning Weight (Penulis ke-1 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>Activities in specialist bodies over the last 5 years</p>	<p>-</p>