Staff Handbook

Name	*Prof. Ir. Diah Tri Widayati, MP., Ph.D., IPM.*		
Post	*Reproduction and Embryology*		
Academic career	*Professional Engineering (IPM)*	*Universitas Gadjah Mada*	*2018*
	Professor (Prof)	*Universitas Gadjah Mada*	*2020*
	Doctorate	*Nagoya University I Japan*	*2004*
	Graduate degree	*Universitas Gadjah Mada*	*1999*
	Undergraduate degree	*Universitas Gadjah Mada*	*1991*
Employment	*Professor*	*Universitas Gadjah Mada*	*2020-present*
	Associate Professor	*Universitas Gadjah Mada*	*2006-2020*
	Assistant Professor	*Universitas Gadjah Mada*	*2001-2006*
Research and development projects over the last 5 years	*Research projects:* 1. *Detection of Livestock Spermatozoa DNA Chromatin Damage to Increase the Success of Artificial Insemination (Leader of 2 researchers, Recognition Research Final Project 2021) (2021)* *Source of Funds: Directorate of Research Universitas Gadjah Mada* 2. *Iron (Fe) Levels and Parameters of Dairy Goat Blood Serum Profiles in Different Parturition (Leader of 2 researchers, Final Project Research 2021) (2021)* *Source of Funds: Directorate of Research Universitas Gadjah Mada* 3. *Detection of Chromatin Damage to Beef Spermatozoa DNA (Leader of 3 Researchers, Multidisciplinary Research Pre-Proposal) (2021)* *Source of Funds: Directorate of Research Universitas Gadjah Mada* 4. *The Biochemical Composition of Blood and Estrogen Hormones in Dairy Cattle That Have Normal Cycles and Repeated Mating (Leader of 2 researchers, Recognition Research Final Project 2020) (2020)* *Source of Funds: Directorate of Research Universitas Gadjah Mada* 5. *Evaluation of Blood Metabolites and Estrogens in Lactation Dairy Cattle with Energy and Protein Supplementation (Leader of 5 researchers, Laboratory Thematic Grant Research 2020) (2020)* *Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada* 6. *The Effect of Added Glutathione on the Quality of Sheep Spermatozoa (Leader of 4 researchers, Research Grant Research Postgraduate Program 2020) (2020)* *Source of Funds: Faculty of Animal Science Universitas Gadjah Mada Postgraduate Research Grants* 7. *The Use of Antioxidants Combination of Genistein and Glutathione to Reduce the Oxidative Stress of Frozen Semen and the Success Rate*		

	of Artificial Insemination in Ongole Breeds (Research member from 3 researchers) (2020) *Source of Funds: PMDSU, DIKTI* 8. *Identification of Fertility of Holstein Friesian Breeds Based on Blood Biochemical Levels and Estrogen Hormones (Leader of 3 researchers) (2019)* *Source of Funds: RTA, Directorate of Research Universitas Gadjah Mada* 9. *Local Sheep Estrus Response with Controlled Internal Drug Release Intravaginal Treatment and Prostaglandin Hormone (Research member from 8 researchers, 2019 Laboratory Thematic Research Grant) (2019)* *Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada* 10. *Evaluation of the Success of the Artificial Insemination Program in the Bojonegoro Residency Area (Leader of 4 researchers) (2019)* *Source of Funds: Faculty of Animal Science Universitas Gadjah Mada Postgraduate Research Grants* 11. *Use of Antioxidants Combination of Genistein and Glutathione to Reduce Frozen Semen Oxidative Stress and Success Rate of Artificial Insemination in Ongole Breeds (Research member from 3 researchers) (2019)* *Source of Funds: PMDSU, DIKTI* 12. *Identification of fertility in Friesian Holstein-breed dairy cattle based on blood urea nitrogen and leptin levels (Leader of 4 researchers) (2018)* *Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada* 13. *Use of Antioxidants Combination of Genistein and Glutathione to Reduce Oxidative Stress of Frozen Semen and Success Rate of Artificial Insemination in Ongole Breeds (Research member from 3 researchers) (2018)* *Source of Funds: PMDSU, DIKTI* 14. *Biochemical Profile of Blood and Steroid Hormones in Semi-Intensively Raised Ettawa Crossbreed Goats (Leader of 4 Researchers) (2018)* *Source of Funds: PMDSU, DIKTI* 15. *Effect of Nutrition and Metabolic Hormones on Fertility in Holstein Friesian Breeds in People's Farms (Leader of 4 Researchers) (2018)* *Source of Funds: PMDSU, DIKTI* 16. *Evaluation of Dairy Cattle Productivity, Motivation and Social Network of Farmers in the Sarono Makmur Farmer Group, Sleman. (Research member from 4 researchers) (2017)*

	Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada 17. *Effect of Nutrition and Metabolic Hormones on Fertility in Holstein Friesian Breeds in People's Farms (Leader of 4 Researchers) (2017)* *Source of Funds: PMDSU, DIKTI* 18. *Biochemical Profile of Blood and Steroid Hormones in Semi-Intensively Raised Ettawa Crossbreeds (Leader of 4 Researchers) (2017)* *Source of Funds: PMDSU, DIKTI* 19. *Biochemical Profile of Beef Cattle Blood Experiencing Interbreeding (Leader of 3 Researchers) (2017)* *Source of Funds: Laboratory Thematic Research Grants, Faculty of Animal Science Universitas Gadjah Mada* *Community service over the last 5 years* 1. *Evaluation of the Reproductive Performance of Dairy Cattle after Improvement of Feed Management During the Transition Period in the Ngrangkah Umbulharjo Dairy Cattle Group, Cangkringan, Sleman (Leader of Researchers) (2021)* *Source of Funds: Faculty of Animal Science Universitas Gadjah Mada* 2. *Assistance of Pasteurized Goat Milk Production in Kebunharjo Dairy Cattle Group, Samigaluh, Kulonprogo Yogyakarta (Member of Researchers) (2020)* *Source of Funds: Faculty of Animal Science Universitas Gadjah Mada* 3. *Assistance and Improvement of Feed Management during the Transition Period to Improve Reproductive Performance of Dairy Cattle in the Ploso Kerep Dairy Cattle Group, Cangkringan, Sleman (Member of Researchers) (2020)* *Source of Funds: Faculty of Animal Science Universitas Gadjah Mada* 4. *Improving Livestock Reproductive Performance Through Improving Feed Quality in the Sidomukti Sheep Group, Murangan, Triharjo, Sleman (Leader of Researchers) (2019)* *Source of Funds: Faculty of Animal Science Universitas Gadjah Mada* 5. *Assistance in Feed Management During the Transitional Period of Dairy Cattle in the Ploso Kerep Group, Cangkringan, Sleman (Member) (2019)* *Source of Funds: Faculty of Animal Science Universitas Gadjah Mada* 6. *Strengthening PE Goat Farmer Groups through Improvement of Reproductive Recording and Introduction of Estrus Detection*

	(Member of Researchers) (2018) *Source of Funds: Faculty of Animal Science Universitas Gadjah Mada* 7. *Strengthening of Dairy Cattle Breeding Groups through Improvement of Reproductive Records (Leader of Researchers) (2017)* *Source of Funds: Faculty of Animal Science Universitas Gadjah Mada*
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	*Total number of publications: 42* 1. *Evaluation of Sperm DNA Fragmentation using TUNEL Assay in Different Animal Species (K. D. Prihantoko, M. Arif, A. Kusumawati, A., **D. T.Widayati**, and A. Budiyanto) (2022)* *Publisher: Advances in Animal and Veterinary Sciences, Vol. 10, No. 1, 2022* 2. *Influence of Intracellular Reactive Oxygen Species in Several Spermatozoa Activity in Indonesian Ongole Bull Cryopreserved Sperm.(K. D. Prihantoko, A. Kusumawati, M. Pangestu, **D. T. Widayati**, and Budiyanto, A.) (2022)* *Publisher: American Journal of Animal and Veterinary Sciences, Vol. 17, No. 1, 2022* 3. *Nitrogen Supplementary Feeding with Energy Sources Concentrated in Ettawa Crossbreed Does (Kustantinah, R N Khoirunnisa, **Diah Tri Widayati**, Ismaya Ismaya, Ristianto Utomo, Fajar Ajimukti Atmojo) (2021)* *Publisher: Advances in Biological Sciences Research, Volume 18 Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021)* 4. *Storage Period of Liquid Semen Eligible for Insemination in Thin Tail Sheep Semen Diluted with Egg Yolk Citrate with the Addition of Noni (Morinda citrifolia Linn) Fruit Extract (Sigit Bintara, Ismaya Ismaya, **Diah Tri Widayati**, Riyan Nugroho Aji, Widya Asmarawati) (2021)* *Publisher: Advances in Biological Sciences Research, Volume 18 Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021)* 5. *The Effect of Glutathione Addition in Diluent Semen on Ram Spermatozoa Quality (Muthiah Syafitri, Teguh Ari Prabowo, Pradita Iustitia Sitaresmi, Lies Mira Yusiati, Sigit Bintara, **Diah Tri Widayati)** (2021)* *Publisher: Advances in Biological Sciences Research, Volume 18*

	Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021) 6. *Estrous Characteristics of Lactating Saanen Ettawah Crossbred (SAPERA) Does on Different Parturition (Seraphina Kumala, Yustina Yuni Suranindyah, **Diah Tri Widayati**) (2021)* *Publisher: Advances in Biological Sciences Research, Volume 18 Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021)* 1. *Post Partum Estrus of Brahman Cross Cows Inseminated with Limousine Straw in Smallholder Farm (Rahmat Anwar, Sigit Bintara, I Gede Suparta Budisatria, **Diah Tri Widayati**, Endang Baliarti) (2021)* *Publisher: Advances in Biological Sciences Research, Volume 18 Proceedings of the 9th International Seminar on Tropical Animal Production (ISTAP 2021)* 7. *The Effect of Different Dietary Energy and Protein Sources on Blood Profile of Crossbreed Holstein Dairy Cows Raised in Small Stake Holder Farms. (M. F. Hudaya, P. I. Sitaresmi, and **Widayati, D. T.**) (2021)* *Publisher: World'S Veterinary Journal, Vol. 11, No.2, 2021* 8. *Storage Period of Liquid Semen Eligible for Insemination in Thin Tail Sheep Semen Diluted with Egg Yolk Citrate with the Addition of Noni (Morinda citrifolia Linn) Fruit Extract. (S. Bintara, Ismaya, **D. T. Widayati,** R. N. Aji, and W. Asmarawati) (2021)* *Publisher: Advances in Biological Sciences Research, Vol. 18, 247-50, 2021* 9. *Post Partum Estrus of Brahman Cross Cows Inseminated with Limousine Straw in Smallholder Farm. (R. Anwar, S. Bintara, I G. S. Budisatria, **D. T. Widayati,** and E. Baliarti) (2021)* *Publisher: Advances in Biological Sciences Research, Vol. 18, 232-7, 2021* 10. *The Effect of Glutathione Addition in Diluent Semen on Ram Spermatozoa Quality. (M. Syafitri, T. A. Prabowo, P. I. Sitaresmi, L. M. Yusiati, S. Bintara, and **D. T. Widayati**) (2021)* *Publisher: Advances in Biological Sciences Research, Vol. 18, 251-5, 2021* 11. *Estrous Characteristics of Lactating Saanen Ettawah Crossbred (SAPERA) Does on Different Parturition. (S. Kumala, Y. Y. Suranindyah, and **D. T. Widayati**)(2021)* *Publisher: Advances in Biological Sciences Research, Vol. 18, 256-9, 2021* 12. *Nitrogen Supplementary Feeding with Energy Sources Concentrated in Ettawa Crossbreed Does. (Kustantinah, R. N. Khoirunnisa, **D. T. Widayati,** Ismaya, R. Utomo, and F. A. Atmojo) (2021)* *Publisher: Advances in Biological Sciences Research, Vol. 18, 112-5,*

	2021 13. *Effects Of Storage Duration On Mitochondrial Activity And Dna Fragmentation Of Post-Thawed Spermatozoa From Several Ongole Grade Bull In Indonesia. (K. D. Prihantoko, A. Kusumawati,* ***D.T. Widayati****, and Pangestu, M.) (2020)* *Publisher: Veterinary Practitioner,Vol. 21, No. 2, 2020* 14. *Blood Metabolic and Estradiol Level of Repeat Breeder and Fertile in Friesian Holstein Cross Breed Cows in the Tropic. (M. A. Darmawan, Y. Y.Suranindyah, and* ***D. T. Widayati)*** *(2020)* *Publisher: Pakistan Journal of Biological Sciences, Vol. 23, No. 11, 2020* 15. *Effect of Follicle-Stimulating Hormone on Bligon Goat Oocyte Maturation and Embryonic Development Post In Vitro Fertilization (****D. T. Widayati****, and M. Pangestu) (2020)* *Publisher: Veterinary World Vol. 13, No. 11,2020* 16. *Behavior and Blood Profile in Friesian-Holstein Dairy Cattle In The Special Region of Yogyakarta, Indonesia (M. F. Hudaya, P. I. Sitaresmi, C. T. Noviandi, B. P. Widyobroto, and* ***D. T. Widayati****) (2020)* *Publisher: Journal Animal Behaviour and Biometeorology, Vol. 8 No: 4, 2020* 17. *Effects of Body Condition Score and Estrus Phase on Blood Metabolites and Steroid Hormones in Saanen Goats in The Tropics (P. I. Sitaresmi, B. P. Widyobroto, S. Bintara, and* ***D. T. Widayati****) (2020)* *Publisher: Veterinary World, Vol. 13, May 2020* 18. *Association of SNP T125A on Kiss1 Gene with Reproduction Hormone Levels in Kaligesing Goat (G. Hardyta,* ***D. T. Widayati****, and D. Maharani) (2020)* *Publisher: Indonesian Tropical Animal Agriculture Vol. 45, No. 4, 2020* 19. *The Acrosome Integrity Examination of Post-Thawed Spermatozoa of Several Ongole Grade Bull in Indonesia using Giemsa Staining Method (K. D. Prihantoko, F. Yuliastuti, H. Haniarti, A. Kusumawati,* ***D. T. Widayati****, and A. Budiyanto) (2020)* *Publisher: IOP Conference Series: Earth and Environmental Science, Vol. 478, No. 1, 2020* 20. *The Effect of Genistein on The Plasma Membrane Integrity of Frozen Ongole Grade Bull Semen Based on Skim Milk-Soy Lecithin Extender (K. D. Prihantoko, F. Yuliastuti, H. Haniarti, A. Kusumawati,* ***D. T. Widayati****, and A. Budiyanto) (2020)* *Publisher: IOP Conference Series: Earth and Environmental Science, Vol. 465, No. 1, 2020* 21. *Progesterone Level of Normal Cycling and Repeat Breeding Ongole*

	*Grade Cattle (**D. T. Widayati**, M. A. Darmawan, and Joanna da Costa Freitas) (2019)* *Publisher: IOP Conference Series: Earth and Environmental Science, Vol. 387, No. 1, 2019* 22. *Exfoliative Vaginal Cytology of Saanen Goat (Capra Hircus) During Estrus Cycle (P. I. Sitaresmi, B. P. Widyobroto, S. Bintara, and **D. T. Widayati**) (2019)* *Publisher: IOP Conference Series: Earth and Environmental Science, Vol. 387, No. 1, 2019* 23. *The Correlation Between Blood Metabolic and Reproductive Performance on The Holstein-Friesian Crossbred Dairy Cattle (M. A. Darmawan, Y. Y. Suranindyah, and **D. T. Widayati**) (2019)* *Publisher: IOP Conference Series: Earth and Environmental Science, Vol. 387, No. 1, 2019* 24. *Physiological Conditions of Bali Cattle Based 0n Daily temperature-humidity Index (THI) in Oil Palm Plantation (T. D. Putra, S. Bintara, **D. T. Widayati**, Panjono and E. Baliarti) (2019)* *Publisher: IOP Conference Series: Earth and Environmental Science, Vol. 387, No.1, 2019* 25. *Fertility Duration of Commercial Laying Hen Inseminated with Native Chicken Semen (W. Asmarawati, Kustono, **D. T. Widayati**, S. Bintara, R. N. Aji, and Ismaya) (2019)* *Publisher: IOP Conference Series: Earth and Environmental Science, Vol. 387, No. 1, 2019* 26. *The Effect of Protected Soybean Groats and Lemuru Fish Oil Supplementation in Ration On Performance of Ongole Crossbred Cattle (J. Riyanto, A. Pramono, D. V. Aditya, E. Baliarti, L. M. Yusiati, **D. T. Widayati**, T. Hartatik, Aryogi, and D. Pamungkas) (2019)* *Publisher: IOP Conference Series: Earth and Environmental Science, Vol. 387, No.1, 2019* 27. *Seasonal Effect on Productivity of Bali Cattle in Oil Palm Plantation in Riau Province, Indonesia (H. Maulana, Panjono, E. Baliarti, **D. T. Widayati**, and I. G. S. Budisatria) (2019)* *Publisher: IOP Conference Series: Earth and Environmental Science, Vol. 387, No. 1, 2019* 28. *Determination of The Best Nonlinear Function to Estimate Brahman Female Cattle Growth (A. H. K. Amrullah, D. Maharani, and **D. T. Widayati**)(2019)* *Publisher: KnE Life Sciences, Vol. 4, No. 11, 2019* 29. *Blood and Hormonal Profile Association with The Length of Estrous Cycle in Saanen Etawah Crossbreed Goat (P. I. Sitaresmi, P. K. Astuti, B. P. Widyobroto, S. Bintara, and **D. T. Widayati**) (2019)* *Publisher: Asian Journal of Biological Sciences, Vol. 12, No. 2, 2019*

	30. *Cortisol and Blood Urea Nitrogen Profiles in Fertile and Repeat-Breeder Holstein-Friesian Crossbred Cattle (**D. T. Widayati**, Adiarto, B. P. Widyobroto, and Y. Y. Suranindyah) (2019)* *Publisher: Pakistan Journal of Biological Science, Vol. 22, No. 7, 2019* 31. *Estrus Detection Through Vaginal pH in Saanen Etawah Crossbreed Goats (**D. T. Widayati**, P. I. Sitaresmi, S. Bintara, and B. P. Widyobroto) (2018)* *Publisher: Pakistan Journal of Biological Sciences, Vol. 21, No. 8, 2018* 32. *Blood Biochemical Profile in Fertile and Repeat Breeder Ongole Cross Breed Cattle (**D. T. Widayati**, S. Bintara, I. Natawihardja, and D. Maharani) (2018)* *Publisher: Pakistan Journal of Biological Sciences, Vol. 21, No. 4, 2018* 33. *Application of A Tunnel-Ventilated Barn on The Physiological Responses, Milk Yield, and Dry Matter Intake of Dairy Cattle in Tropical Area During the Wet Season (A. A. Yano, Adiarto, and **D. T. Widayati**) (2018)* *Publisher: Journal of Animal Behaviour and Biometeorology, Vol. 6, No. 4, 2018* 34. *Exfoliative Vaginal Cytology and Vaginal Acidity Profile in Ettawa-Saanen Grade Does (P. I. Sitaresmi, B. P. Widyobroto, S. Bintara, and **D. T. Widayati**) (2018)* *Publisher: International Journal of Pure and Applied Mathematics, Vol. 118, No. 24, 2018* 35. *Pelatihan Proses Pasteurisasi Sebagai Upaya Menumbuhkan Kemandirian Pemasaran Susu Kambing di Kelompok Sukorejo I, Turi, Sleman (Y. Y. Suranindyah, T. Haryadi, dan **D. T. Widayati**) (2018)* *Publisher: Abdimas Altruis: Jurnal Pengabdian Kepada Masyarakat, Vol. 1, No. 1, 2018* 36. *Supplementation of Follicle Stimulating Hormone into In Vitro Maturation Medium to Increase Oocytes Maturation and 4 Cell Stadium Embryo Development of Bligon Goat (Y. Achadri, S. Bintara, and **D. T. Widayati**) (2018)* *Publisher: Bulletin Peternalan, Vol. 42, No. 2, 2018* 37. *Evaluation of Etawah Grade Does Fertility Based on Milk Urea Nitrogen Levels (**D. T. Widayati**, D. Ikasari, S. Bintara, I. Natawihardja, Kustono, and Y. Y. Suranindyah) (2017)* *Publisher: International Journal of Dairy Science Vol. 12, No 4, 2017* 38. *Progesterone and Biochemical Profile of Ettawa-Saanen Crossbreed Goats in Turi Area, Yogyakarta-Indonesia (P. I. Sitaresmi, B. P. Widyobroto, S. Bintara, and **D. T. Widayati**) (2017)*

	Publisher: International Journal of Dairy Science Vol. 12, No 4, 2017 39. *Predicting the Age and Weight at Puberty of Ongole Grade Cattle Using Nonlinear Mathematical Model in Kebumen Farmer Association (D. Maharani, A. H. K. Amrullah, **D. T. Widayati**, Sumadi, A.Fathoni, and M. Khusnudin) (2017)* *Publisher: Journal of the Indonesian Tropical Animal Agriculture, Vol. 42, No. 4, 2017* 40. *Evaluation of Quality and Shelf-Life of Pasteurized Goat Milk Produced under Smallholder Condition in A Farmer Group (Y. Y. Suranindyah, T. S. Haryadi, and **D. T. Widayati**) (2017)* *Publisher: International Journal of Food and Biosystems Engineering, June 2017 Vol 4, No. 1, 2017* 41. *Evaluation of Friesian Holstein Grade Cattle Fertility Based the Level of Milk Urea (**D. T. Widayati**. Y. Y. Suranindyah, L. Rahmah, and B. P. Widyobroto) (2017)* *Publisher: Jurnal Kedokteran Hewan, Vol. 11, No. 1, 2017* 42. *Study on Vaginal Epithelial Cells in Ongole Grade Cattle Suspected Reach Puberty (A. H. K. Amrullah, **D. T. Widayati**, and D. Maharani) (2017)* *Publisher: Proceedings The 7th Yogyakarta Seminar on Tropical Animal Production 'Contribution of Livestock Production on Food Sovereignty in Tropical Countries. Pp. 748-752. 12-14 September. Yogyakarta, Indonesia*
Activities in specialist bodies over the last 5 years	*Organisation* — *Role* — *Period* 1. *The Institution Engineers Indonesian* — *Member* — *2018-present* 2. *Endocrine Society (International)* — *Member* — *2021-present* 3. *Indonesian Animal Reproduction Association* — *Member* — *2021-present*