

## STAFF HANDBOOK

Name : Prof. Ir. Ismaya, M.Sc., Ph.D.  
 Post : Reproduksi Ternak  
 Academic carrer : S1 UGM  
 S2 Universiti Pertanian Malaysia  
 S3 James Cook University Australia

### Research over the last 5 years

No.	Judul Penelitian <i>Research Title</i>	Tahun <i>Year</i>	Sumber Dana <i>Source of Funds</i>
1.	Evaluasi Metabolit Darah dan Estrogen pada Sapi pPerah Laktasi dengan Pemberian Suplementasi Energi dan Protein	2020	Hibah Tematik Laboratorium Fakultas Peternakan UGM
2.	Uji Integritas DNA Spermatozoa Post thawing dari Semen Beku Sexing dan Unsexing Sapi Eksotik	2019	Penelitian Dosen Muda, UGM
3.	Respon Estrus Lokal Dengan Perlakuan Controlled Internal Drug Release Intravaginal dan Hormon Prostaglandin	2019	Hibah Penelitian Tematik Laboratorium Fakultas Peternakan UGM
4.	Rekayasa Teknik Pembekuan Sperma Domba (Ovis aries) Dengan Bantuan Micro Controller	2018	Hibah Tematik Laboratorium, Fakultas Peternakan UGM
5.	Bioaktif Natural sebagai Feed Additive Pakan Ternak : Produksi dan Ekstraksi Bioaktif Natural sebagai Feed Additive Pakan Ternak Domba (Anggota dari 5 Peneliti)	2017	PUPT, DIKTI
6.	Meningkatkan Produktivitas Ternak Kalkun: Pengaruh Imbangan Jantan dan Betina Terhadap Tingkah Laku Perkawinan, Fertilitas dan Daya Tetas Telur (Tahun I) (Ketua dari 5 Peneliti)	2017	PUPT, DIKTI
7.	Pemanfaatan Ransum Basah (Moist Ration) Berbasis Fermentasi Bakteri Asam Laktat pada Pengembangan Ternak Ruminansia (Anggota dari 7 Peneliti)	2017	Calon Perusahaan Pemula Berbasis Teknologi (CPPBT)
8.	Profil Biokimia Darah Sapi Potong yang Mengalami Kejadian Kawin Bersilang (Anggota dari 3 Peneliti)	2017	Tematik Laboratorium Fak. Peternakan UGM
9.	Pengaruh Etanol dan Tween 80 Sebagai Pelarut Vitamin E dalam Bahan Pengencer Andromed pada Pembuatan Semen Beku Domba Ekor Gemuk (Anggota dari 5 Peneliti)	2017	Hibah Pascasarjana Fak. Peternakan UGM
10.	Silase Total Campuran Konsentrat (STCK) Berbasis by Produk Industri Pangan: Rekayasa STCK dan Aplikasinya Terhadap Kinerja Anak Kambing,	2016	HIKOM DIKTI

No.	Judul Penelitian <i>Research Title</i>	Tahun <i>Year</i>	Sumber Dana <i>Source of Funds</i>
	Induk dan Penggemukan kambing Bligon Bligon (Anggota dari 3 Peneliti)		
11.	Meningkatkan Produktivitas Ternak Kalkun: Pengaruh Imbangan Jantan dan Betina terhadap Tingkah Laku Perkawinan, Fertilitas dan Daya Tetas Telur (Ketua dari 2 Peneliti)	2016	PMDSU DIKTI
12.	Pengaruh Imbangan Jantan dan Betina Kalkun dalam Sistem Perkawinan terhadap Fertilitas Telur (Ketua dari 4 Peneliti)	2016	Hibah Penelitian Laboratorium Fakultas Peternakan UGM

#### Community Service over the last 5 years

No.	Judul Kegiatan <i>Activity Title</i>	Tahun <i>Year</i>	Sumber Dana <i>Source of Funds</i>
1.	Pendampingan dan Perbaikan Pengelolaan Pakan pada Masa Transisi untuk Perbaikan Kinerja Reproduksi Sapi Perah di Kelompok Ternak Sapi Perah Ploso Kerep, Cangkringan, Sleman	2020	Hibah Tematik Pengabdian Laboratorium Fakultas Peternakan UGM
2.	Peningkatan Kinerja Reproduksi Ternak Melalui Perbaikan Kualitas Pakan di Kelompok Ternak Domba Sidomukti, Murangan, Triharjo, Sleman	2019	Fakultas Peternakan Universitas Gadjah Mada
3.	Penguatan Kelompok Peternak Kambing PE Melalui Perbaikan Recording Reproduksi dan Pengenalan Deteksi Estrus	2018	Hibah Pengabdian Tematik Laboratorium Fakultas Peternakan UGM
4.	Demonstrasi Plot Manajemen Perkawinan dan Rekayasa Pakan pada Ternak Ruminansia untuk Menghasilkan Anak Kembar dan Sehat di Duwet Rejo Desa Karang Tengah Gunung Kidul	2017	TTG BOPTN
5.	Penguatan Kelompok Peternak Sapi Perah Melalui Perbaikan Rekording Reproduksi	2017	Hibah Tematik Laboratorium Fak. Peternakan UGM
6.	Meningkatkan Reproductivitas Ternak Kambing di Pondok Pesantren Taruna Al Quran Jogjakarta	2016	Hibah Tematik Pengabdian Fakultas Peternakan
7.	Meningkatkan Produktivitas dan Reproductivitas Ternak Kambing di Pondok Pesantren Taruna Al Quran (PPTA) Sleman, Yogyakarta	2016	IbM (IPTEKS bagi Masyarakat), DIKTI

#### Important publications over the last 5 years

No.	Judul Publikasi <i>Publication Title</i>	Tahun <i>Year</i>	Penerbit <i>Publisher</i>
1.	Effect of Different Bovine Serum Albumin (BSA) Levels on the Sperm Viability of Ongole Cross Bred Bull during 5°C Storage	2020	IOP Conference Series: Earth and Environmental Science, 2020, 478(1), 012068

No.	Judul Publikasi <i>Publication Title</i>	Tahun <i>Year</i>	Penerbit <i>Publisher</i>
	(Rachmawati, A., <b>Ismaya</b> , Widyobroto, B.P., Bintara, S., Susilawati, T.)		
2.	The genotype of growth hormone gene that affects the birth weight and average daily gain in crossbred beef cattle (Hartatik, T., Fathoni, A., Bintara, S., <b>Ismaya</b> , Panjono, Widyobroto, B.P., Agus, A., Budisatria, I., Leroy, P.)	2020	Biodiversitas, 2020, 21(3), pp. 941–945
3.	Morphometry of Male Reproductive Organ and Sperm Evaluation of Belgian Blue Crossbred Cattle as a Candidate of Superior Bull (Riyan Nugroho Aji, Panjono, Ali Agus, Budi Prasetyo Widyobroto, Tety Hartatik, I Gede Suparta Budisatria, <b>Ismaya</b> , Akhmad Fathoni, Dwi Astuti, and Sigit Bintara)	2020	Buletin Peternakan 44 (4): 200-202, November 2020
4.	Single Nucleotide Polymorphism of Sex Determining Region-Y Gene Coding Sequences in Belgian Blue Bull and Wagyu Bull Crossbred Cattle (Hartatik, T., Bintara, S., <b>Ismaya</b> , I., Panjono, P., Widyobroto, B.P., Agus, A., <b>Budisatria</b> , <b>I.G.S.</b> , Leroy, P.)	2020	IOP Conference Series: Earth and Environmental Science, 2020, 478(1), 012020
5.	The effect of 0.6 and 0.8% Bovine Serum Albumin (BSA) levels in the Cauda Epididymal Plasma-2 (CEP-2) diluent to maintain Ongole Crossbred post-Thawing motility sperm (Rachmawati, A., <b>Ismaya</b> , Widyobroto, B.P., Bintara, S., Susilawati, T.)	2019	IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012034
6.	Fertility duration of commercial laying hen inseminated with native chicken semen (Asmarawati, W., Kustono, Widayati, D.T., Bintara, S., Aji, R.N., <b>Ismaya</b> )	2019	IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012063
7.	Phenotypic characteristics of Belgian Blue x Brahman Cross and Wagyu x Brahman Cross crossbred population (Adi, L.L.N., Agus, A., Panjono, Widyobroto, B.P., Budisatria, I.G.S., <b>Ismaya</b> , Bintara, S., Hartatik, T.)	2019	IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012036
8.	The effect of Andromed® and coconut water + 20% egg yolk as diluent on semen motility of Belgian Blue cattle (Aji, R.N., Panjono, Agus, A., Widyobroto, B.P., Hartatik, T., Budisatria, I.G.S., <b>Ismaya</b> , Fathoni, A., Kumala, S., Bintara, S.)	2019	IOP Conference Series: Earth and Environmental Science, 2019, 387(1), 012127
9.	Association of IGF1BP-3 gene polymorphism g. 3.930 G>A with birth size and birth	2019	Journal of the Indonesian Tropical Animal Agriculture,

No.	Judul Publikasi <i>Publication Title</i>	Tahun <i>Year</i>	Penerbit <i>Publisher</i>
	weight in crossbred beef cattle (Hartatik, T., Priyadi, D.A., Panjono, P., Bintara, S., <b>Ismaya, I.</b> , Budisatria, I.G.S., Widyobroto, B.P., Agus, A.)		2019, 44(4), pp. 356–363
10.	The Effects of Different DMA Level on Sperm Quality of Bangkok Chicken Offspring (YLRE Nugraheni, <b>I Ismaya</b> , S Harimurti)	2019	Journal of Livestock Science and Production 3 (1), 131-135
11.	Pre-Weaning Growth of Calves of Brahman Cross Cows Sired with Wagyu and Belgian Blue Bulls (Panjono, A. Agus, T. Hartatik, S. Bintara, <b>I. Ismaya</b> , B.P. Widyobroto, I.G.S. Budisatria, D.A. Priyadi, P. Leroy and N. Antoine-Moussiaux)	2018	Book of Abstracts of the 69th Annual Meeting of the European Federation of Animal Science, Dubrovnik, Croatia, 27-31 August 2018. eISBN: 978-90-8686-871-1   ISBN: 978-90-8686-323-5. <a href="https://doi.org/10.3920/978-90-8686-871-1">https://doi.org/10.3920/978-90-8686-871-1</a> Volume 24. Wageningen Academic Publishers. pp. 384
12.	Evaluation of Etawah Grade Doe Fertility Based on Milk Urea Nitrogen Levels (Diah Tri Widayati, Diwari Ikasari, Sigit Bintara, <b>Ismaya</b> Natawihardja, Kustono o and Yustina Yuni Suranindyah)	2018	International Journal of Dairy Science. Vol. 12 No. 4 Page 295-300.
13.	Reproductive Efficiency on Beef Cow using Ongole Cross Bred Liquid Semen with CEP-2 Diluent +0.6% Bovine Serum Albumin (BSA) (Rachmawati, A., <b>Ismaya</b> , Widyobroto, B.P., Bintara, S., Susilawati, T. & Anggraini, L.J.)	2018	E-Proceedings 18th AAAP Congress 2018, 1-5 Aug. 2018, Kuching, Malaysia. pp. 64
14.	Pengamatan Visual Vulva Dan Perubahan Behavior Sapi Estrus Pada Pemeliharaan Di Tingkat Peternak (Endang Baliarti, Prabowo Priambodo, <b>Ismaya</b> , Agung Budiyanto, M. Danang Eko Yulianto)	2018	Dipresentasikan di Seminar Nasional Teknologi dan Agribisnis Peternakan, UNSOED
15.	Motilitas Post-Thawing Spermatozoa Sapi Peranakan Ongole dalam Pengencer Cauda Epididymal Plasma-2 Dengan Level Bovine Serum Albumin yang Berbeda (Achadiah Rachmawati, <b>Ismaya</b> , Budi Prasetyo Widyobroto, Sigit Bintara dan Trinil Susilawati)	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. 167-172. ISBN: 978-979-1215-33-6
16.	The Effect of Age on the Quality of Semen	2018	Buletin Peternakan

No.	Judul Publikasi <i>Publication Title</i>	Tahun <i>Year</i>	Penerbit <i>Publisher</i>
	Turkeys ( <i>Meleagris gallopavo</i> ) (Riyan Nugroho Aji, <b>Ismaya</b> , Sri Harimurti, Heru Sasongko, Sigit Bintara, Widya Asmarawati)		Vol. 42 No. 4, hal. 290-294, 2018. ISSN-0126-4400/E-ISSN-2407-876X. <a href="https://journal.ugm.ac.id/buletinpeternakan/article/view/31372/22950">https://journal.ugm.ac.id/buletinpeternakan/article/view/31372/22950</a>
17.	Aplikasi Inseminasi Buatan pada Induk Sapi Potong Menggunakan Semen Cair Sapi Peranakan Ongole dengan Pengencer Cauda Epididymal Plasma-2+ 0, 6% Bovine Serum Albumin (A Rachmawati, <b>I Ismaya</b> , BP Widyobroto, S Bintara, T Susilawati)	2018	Jurnal Ilmu-Ilmu Peternakan (Indonesian Journal of Animal Science) 28 (3): 247-258
18.	Evaluation of Etawah Grade Die Fertility Based on Milk Urea Nitrogen Levels	2017	International Journal of Dairy Science Vol. 12 No 4, 2017. Pages: 295-300 eISSN: 1811-9751, pISSN: 1811-9743. DOI:10.3923/ijds.2017.295.300. URL: <a href="http://scialert.net/abstract/?doi=ijds.2017.295.300">http://scialert.net/abstract/?doi=ijds.2017.295.300</a>
19.	Estradiol Concentration and Estrous Behaviour in Tropical Heifers Supplemented with Undegradable Protein	2017	Journal of Animal and Veterinary Advances, 2017, Vol. 16, Issue: 1. Page No.: 24-31. ISSN: 1680-5593. DOI: 10.3923/javaa.2017.24.31. URL: <a href="http://medwelljournals.com/abstract/?doi=javaa.2017.24.31">http://medwelljournals.com/abstract/?doi=javaa.2017.24.31</a>
20.	Effect of Different Levels of Dimethylacetamide (DMA) on Sperm Quality of Bangkok Rooster Chicken and Sperm Survivability in Reproductive Tract of Hen	2017	Pakistan Journal of Nutrition Vol. 16 (3): 144-147, 2017. ISSN: 1680-5194. DOI: 10.3923/pjn.2017.144.147
21.	The effect of different bovine albumin serum in cauda epididymal plasma-2 diluter to Ongole filial sperm motility during chilling storage	2017	Program and Abstract Book of the Sixth SAADC Conference, Batu 16 – 19 October 2017 “Wisdom of Using Local Resources for Development of Sustainable Animal Production in Developing Countries”. Batu City, Indonesia. Page: 128
22.	The Effect of Bacteriocins Producing Mix culture of Lactic Acid Bacteria on	2017	International Ruminant Seminar, Universitas

No.	Judul Publikasi <i>Publication Title</i>	Tahun <i>Year</i>	Penerbit <i>Publisher</i>
	Staphylococcus. aureus and Escherichia. coli Growth		Diponegoro, Semarang, Indonesia, 24 October 2017
23.	Profile of progesterone hormone on Ongole grade cattle does after synchronization of estrus with implant controlled internal drug release (CIDR) on pregnancy rate	2017	The 2nd International Conference on Tropical Agriculture (ICTA), 2017. Program and Abstract Book. UGM, Yogyakarta, Indonesia, 26–27 October 2017. Page: 126
24.	The Effect of Bull ( <i>Bos indicus</i> ) and Extender Medium to Additional Antioxidant $\alpha$ -tocopherol of Cryopreservation Sperm Post-Thawing to Minimize of Repeat Breeding	2017	Proceedings of The 2nd International Conference on Animal Nutrition and Environment (ANU-NUE2017). Volume II. Khon Kaen, Thailand, November 1-4, 2017 “Towards the Betterment of Animal Productivity, Conserving Resources and Environment” Pages: 312-318. ISBN: 978-616-438-084-4
25.	The Proportion of X and Y Sperm, Viability and Motility of Ram Spermatozoa After Separated with White Egg Albumin	2017	Buletin Peternakan Vol. 41 (1) Februari 2017, hal. 1-7. DOI: <a href="https://doi.org/10.21059/buletinpeternak.v41i1.9130">https://doi.org/10.21059/buletinpeternak.v41i1.9130</a> . URL: <a href="http://journal.ugm.ac.id/buletinpeternakan/pages/view/Publication%20EtHics%20and%20Malpractice%20Statement">http://journal.ugm.ac.id/buletinpeternakan/pages/view/Publication%20EtHics%20and%20Malpractice%20Statement</a>
26.	Bioteknologi Inseminasi Buatan pada Sapi dan Kerbau	2017	Buku. Penerbit: Gadjah Mada University Press. 117 hal. . ISBN: 979-420-848-5. eISBN; 979-420-848-5. Cet. 2. 2017
27.	Libido and Semen Quality of Bligon and Ettawa Cross-Bred Bucks	2016	IGA 2016 12 <sup>th</sup> International Conference on Goats, Antalya, Turkey. 25-30 September 2016
28.	In Vivo Sperm Capacitation in the Female Reproductive Tract of Merino Ewes	2016	12 <sup>th</sup> International Scientific Conference of Agricultural, Animal and Veterinary Research, United Arab Emirates. 10-11 September 2016
29.	Effect of High Rumen Undegraded Protein (HRUP) Supplementation on Estrous	2016	Asian Journal of Animal Sciences Volume 10, Issue 3,

No.	Judul Publikasi <i>Publication Title</i>	Tahun <i>Year</i>	Penerbit <i>Publisher</i>
	Response and Progesterone Hormone Profile in Dairy Cows Raised under Indonesia Tropical Environmental Condition (Penulis ke-3 dari 3)		2016, Pages 1-7. ISSN: 1819-1878
30.	The Impact of Balanced Energy and Protein Supplementation to Milk Production and Quality in Early Lactating Dairy Cows (Penulis ke-3 dari 5)	2016	Journal of the Indonesian Tropical Animal Agriculture Vol. 41(2):83-90. ISSN: 2460-6278
31.	Impact of High Rumens Undegraded Protein (HRUP) Supplementation to Blood Urea Nitrogen and Reproduction Performance in Early Lactation Dairy Cows (Penulis ke-3 dari 3)	2016	International Journal of Dairy Science 11(1): 28-34
32.	Identification of Reproductive Performance of Ettawa crossed Breed Goats on Different Body Condition Score Using Vaginal Smear (Penulis ke-4 dari 6)	2016	Proceedings of The 17 <sup>th</sup> Asian-Australasian Association of Animal Production Societies Animal Science Congress, 22-25 August 2016, Fukuoka Japan
33.	The Effect of Level Vitamin E Addition in the Diet on Blood Profile of Bligon Goat (Penulis ke-2 dari 4)	2016	Proceedings of the 1 <sup>st</sup> UGM International Conference on Tropical Agriculture (ICTA), 25-26 October, 2016. Yogyakarta, Indonesia

### Courses

1. Ilmu Reproduksi Ternak
2. Teknologi Reproduksi
3. Fisiologi Ternak
4. Ilmu Lingkungan Ternak
5. Infertilitas dan Sterilitas
6. Fisiologi Lingkungan Ternak Tropik
7. Peningkatan Efisiensi Reproduksi Ternak
8. Endokrinologi Ternak Lanjut
9. Fisiologi dan Reproduksi Ternak
10. Pendekatan Molekuler untuk Pemuliaan dan Reproduksi Ternak

### Achievements/Awards

No.	Prestasi/Penghargaan <i>Achievements/Awards</i>	Tahun <i>Year</i>
1.	-	-