

DAFTAR PUSTAKA

- Aboagla, E. M. E., and T. Terada. 2004. Effects of Supplementation of Trehalosa Extender Containing Egg Yolk With Sodium Dodecyl Sulfate on The Freezability of Goat Spermatozoa. *Theriogenology*. 62: 809-818.
- Acar, Ü., O. S. Kesbiç., S. Yilmaz., N. Gültepe., and A. Türker. 2015. Evaluation Of The Effects Of Essential Oil Extracted From Sweet Orange Peel (*Citrus Sinensis*) On Growth Rate Of Tilapia (*Oreochromis mossambicus*) And Possible Disease Resistance Against *Streptococcus Iniae*. *Aquaculture*, 437, 282-286.
- Adhianto, K., dan Sulastri. 2007. Evaluasi Performan Produksi Kambing Peranakan Ettawa dan Boerawa Pada Sistem Pemeliharaan di Pedesaan. *Jurnal AGRITEK-Jurnal Ilmu-ilmu Pertanian, Teknologi Pertanian, Kehutanan, Terakreditasi Ditjen Dikti No.26/DIKTI/KEP/2005*, Volume 15, No.3, Juni 2007, hal 504--506.
- Adrabi, S. M. H., N. Ahmad., A. Abbas., and M. Anzar. 2001. Effect of Two Different Antibiotic Combinations on Fertility of Frozen Buffalo and Sahiwal Bull Semen. *Pakistan Vet. J.*, 21(4) : 166-169
- Afzalani, A. 2016. Pemanfaatan Minyak Atsiri (*Essential Oil*) Dari Kulit Jeruk Berastagi (*Citrus Sinensis, L.*) Sebagai Sumber Feed Additive Alami Serta Implikasinya Terhadap Efisiensi Fermentasi di Rumen, Profil Darah dan Performans Sapi Bali, Doctoral dissertation, Universitas Andalas, Padang.
- Agusta, A. 2010. Minyak Atsiri Tumbuhan Tropika Indonesia. ITB, Bandung.
- Akhter, S., M. S. Ansari., S. M. Andrabi., N. Ullah., and M. Qayyum. 2008. Effect of Antibiotics in Extender on Bacterial and Spermatozoal Quality of Cooled Buffalo (*Bubalus Bubalis*) Bull Semen. *Reprod. Domest. Anim.* 43, 272–278.
- Anzar, M., and E. F. Graham. 1995. Role of Sperm Motility and Acrosome Integrity in Thefiltration of Bovine Semen. *Theriogenology* 45 : 513-520.
- Arifiantini, I., T. Wresdiyati., dan E. F. Retnani. 2006. Pengujian Morfologi Spermatozoa Sapi Bali (*Bos Sondaicus*) Menggunaan “Williams”. *Jurnal Pengembangan Peternakan Tropis* 31 : 105 – 110.
- Arifin, M., Liman., dan K. Adhianto. 2012. Pengaruh Penambahan Konsentrat Dengan Kadar Protein Kasar Yang Berbeda Pada Ransum Basal Terhadap Performa Kambing Boerawa Pasca Sapih. *Jurnal Ilmiah Peternakan Terpadu*. Vol 1. No 1.

- Aurich, C., and J. Spergser. 2007. Influence Of Bacteria And Gentamicin on Cooled-Stored Stallion 407 Spermatozoa. Theriogenology; 67:912-918.
- Baba, A. R. 2008. Breeding and Reproduction of Goat in Malaysia. International Seminar on Dairy and Meat Goat Production. Indonesian Research Institute for Animal Production, Food and Fertilizer Technology Center-ASPAC, Bogor.
- Badan Standardisasi Nasional. 2014. Standar Nasional Indonesia. Badan Standardisasi Nasional, Jakarta. SNI 4869.3: 2014
- Ball, P. J. H., and A. R. Peters. 2004. Reproduction in Cattle. Third Edition. Blackwell Publishing. Victoria. Australia.
- Baril, G., B. Leboeuf., and J. Saumande. 1993. Syncronitation of Estrus in Goat: The Relationship Between Time of Occurrence of Estrus and Fertility Following Artificial Insemination. Theriogenology, 40 :621-628.
- Batubara, L. P., K. Simanihuruk., N. G. Ginting., and S. Elieser. 1998. Performance of Local Goat Production Cross Breeded With Boer Goats and Etawah Goats. Indonesian Center For Agricultural Library and Technology Dissemination, Pusat Perpustakaan dan Penyebaran Teknologi Pertanian.
- Bearden, H. J., and J. Fuquay. 1984. Applied Animal Reproduction, 2nd Edition, A Reston Book Prentice Hall Inc. Eagle Wood, New Jersey.
- Beconi, M.T., C.R. Francia, N.G. Mora, and M. A. Afranchino. 1993. Effect of Natural Antioksidant on Frozen Bovine Semen Presperation. Therionology 40: 841-851.
- Belitz, H. D and W. Grosch. 2009. Food chemistry. Edisi 4 Revisi. Berlin.
- Bielanski, A., 2007. Disinfection Procedures For Controlling Microorganisms In The Semen And Embryos Of Humans And Farm Animals. Theriogenology 68, 1–22
- Bourgou, S., F. Z. Rahali., I. Ourghemmi., and M. S. Tounsi. 2012. Changes of Peel Essential Oil Composition Of Four Tunisian Citrus During Fruit Maturation. Scientific World Journal. 2012: 528593.
- Brown, V.G., L.M . Schollum., and B. D. W. Jarvis . 1974. Microbiology of Bovine Semen and Artificial Breeding Practices Under New Zealand Conditions, N.Z. Jour. of Agric. Res. 17 : 431-442
- Charlers, E. S. 1985. Principle of Animal Agriculture. Prentice Hall Inc. Eagle Wood, New Jersey.

- Combs, G.F. 1992. The Vitamin: Fundamental Aspects in Nutrition and Health. Academic press. Inc. Sandiego, New York.
- Davis, I. S., R. W. Bratton., and R. H. Foote. 1963. Livability of Bovine Spermatozoa at 5⁰C, -25⁰C and -85⁰C in Tris-buffered and Citrate-buffered Yolk-glycerol. J. Dairy Sci., 46:333
- Devandra, C., dan M, Bruns,. 1994. Produksi Kambing di Daerah Tropis. Penerbit ITB. Bandung.
- Diemer, T., P. Huwe., H. W. Michelmann., F. Mayer., H. G. Schiefer., and W. Weidner. 2000. Escherichia Coli-induced Alterations of Human Spermatozoa an Electron Microscopy Analysis. Int. J. Androl. 23, 178–186.
- Dobson-Hill, B. C. 2009. Uterine Involution In The Dairy Cow : Comparative Study Between Organic and Conventional Dairy Cow. Massey University. Palmerston.
- Dumangas, P. B., and E. B. Perena. 1985. Current Trend on Semen Collection, Processing and Storage. The Impact of Artificial Insemination on Livestock Production in South East Asia Proceding Seminar Philipine Council For Agriculture and Resource, Research and Development.
- Dwidjoseputro, D. 2005. Dasar Dasar Mikrobiologi. Penerbit Djambatan. Jakarta.
- Evans, G., and W. M. C. Maxwell. 1987. Salamon's Artificial Insemination of Sheeps and Goats. Butterworths. London.
- Feradis. 1999. Penggunaan Antioksidan Dalam Pengencer Semen Beku dan Metode Sinkronisasi Estrus Pada Program Inseminasi Buatan Domba St. Croix. Program Pascasarjana Institut Pertanian Bogor. Bogor.
- Feradis. 2010. Reproduksi Ternak. Alfabeta, Bandung.
- Feradis. 2014. Bioteknologi Reproduksi pada Ternak. Alfabeta, Bandung.
- Fisher, K., and C. A. Phillips. 2006. The Effect of Lemon, Orange and Bergamot Essential Oils and Their Components on The Survival of Campylobacter Jejuni, Escherichia Coli O157, Listeria Monocytogenes, Bacillus Cereus and Staphylococcus Aureus in Vitro And Food Systems. J Appl Microbiol. 2006 Dec;101(6):1232-40.
- Fifi, A., Herdis., dan S. Said. 2013. Pembibitan Ternak dengan Inseminasi Buatan. Penebar Swadaya, Jakarta.

- Fisher, K., and C. A. Phillips. 2008. Potential Antimicrobial Uses of Essential Oils in Food: Is Citrus The Answer?. *Trends in Food Sci and Technology*, 19(3), 156-164.
- Frandsen, R. D. 1992. Anatomi dan Fisiologi Ternak. Gajah Mada University Press, Yogyakarta (diterjemahkan oleh Srigandono, B dan K. Praseno).
- Gadea, J., 2003. Semen Extenders Used In The Artificial Insemination of Swine, Span. *J. Agric. Res.* 1, 17–27.
- Gazali, M., and S. N. Tambing. 2002. Kriopreservasi sel spermatozoa. *J. Hayati* 9 (1) : 27 - 32.
- Gloria, A., A. Contri., L. Wegher., G. Vignola., D. Dellamaria., and A. Carluccio. 2014. The Effects of Antibiotic Additions to Extenders on Fresh and Frozen–Thawed Bull Semen. *Animal reproduction sci*, 150 (1-2), 15-23.
- Guenther, E. 1987. Minyak Atsiri. Jilid 1. Penerjemah S. Ketaren. UI Press, Jakarta.
- Ginting, S. P. 2009. Pedoman Teknis Pemeliharaan Induk dan Anak Kambing Masa Pra Sapih. Loka Penelitian Kambing Potong, Sei Putih.
- Ginting, S. P., dan F. Mahmilia. 2008. Kambing 'Boerka': Kambing Tipe Pedaging Hasil Persilangan Boer X Kacang. *Wartazoa*. Vol. 18 No. 3.
- Hafez, E. S. E., dan B. Hafez. 2000. Reproduction in Farm Animal 7 th ed. Lippincott Williams and Walkins, South Carolina.
- Hahn, G. 1972. Contribution to The freezing-preservation of Goat-Buck And Ram Semen. *World Rev. Anim. Prod.* 8:80.
- Halliwell, B., and J. M. C. Gutteridge. 1990. Free Radicals in Biology and Medicine. Clarendon Press, Oxford.
- Hammerstedt, R. H. 1993. Maintance of Bioenergetic Balance in Sperm and Prevention of Lipid Peroxidation: A Review of The Effect on Design of Storage Preservation System. *Reprod. Fert. Dev.* 5: 675-765.
- Hansel, W., and E. M. Corvey. 1983. Physiology of The Oestrus Cycle. *J. Anim. Sci (Suppl. 2)*, 57:404-412.
- Hasan, S., S. M. H. Andrabi., R. Munir., M. Jehangir., P. Shafique., M. Anzar., and N. Ahmad. 2000. Effect of New Antibiotic Combination on Post-Thaw Semen Quality of Buffalo and Sahiwal Bulls. *33rd Annual Meet. Soc. Study Reprod.*, 62: 157.

- Hastono, I., Inonu., A. Saleh dan N. Hidayanti. 2000. Penyerempakan Berahi Menggunakan CIDR Pada Domba Rakyat Di Kecamatan Nagrag. Seminar Nasional Peternakan dan Verteriner, Jakarta. 143-148.
- Herawati, F., dan L. Irawati. 2014. Terapi Antibiotik pada Infeksi Nosokomial. *Rasional*, 9(2).
- Herdiawan, I. 2004. Pengaruh Laju Penurunan Suhu dan Jenis Pengencer Terhadap Kualitas Semen Beku Domba Priangan. J.I. Ternak dan Vet. 9: 98-107.
- Herdis, M., Surachman dan I. Kusuma. 2001. Inseminasi Buatan Teknologi Tepat Guna Solusi Dalam Meningkatkan Populasi Ternak Akibat Krisis Ekonomi. Prosiding, Teknologi Untuk Negeri 2001. Jakarta, 19 – 20 Maret 2001. Badan Pengkajian dan Penerapan Teknologi. 7-11.
- Hernández-Avilés, C., R. Serafini, C. C. Love., S. R. Teague., K. A. LaCaze., S. D. Lawhon., and D. D. Varner. 2018. The Effects of Antibiotic Type and Extender Storage Method on Sperm Quality and Antibacterial Effectiveness in Fresh and Cooled-Stored Stallion Semen. *Theriogenology*, 122, 23-29.
- Ihsan, M. N., dan S. Wahjuningsih. 2011. Penampilan Reproduksi Sapi Potong di Kabupaten Bojonegoro. J. Ternak Tropika 12 (2) : 76-80.
- Inounu, I. N., A. Hidayati., Priyanti., dan B. Tiesnamurti. 2002. Peningkatan Produktivitas Domba Melalui Pembentukan Rumpun Komposit. Kumpulan Hasil Hasil Penelitian APBN Tahun Anggaran 2001. Balitnak Ciawi, Bogor. hlm.104–116.
- Inounu, I. 2014. Upaya Meningkatkan Keberhasilan Inseminasi Buatan Pada Ternak Ruminansia Kecil. Wartazoa, 24 (4), 201-209.
- Jainudeen, M. R. and E. S. E. Hafez. 1993. Sheep and Goats. in. Reproduction in Farm Animals. 6th Ed. E.S.E. Hafez (Ed). Lea and Febiger, Philadelphia.
- Jones, R. C., I. C. A. Martin., and K. R. Lapwoood. 1969. Studies of Artificial Insemination of Sheep. The Effects on Fertility of Diluting Ram Semen. Stage of Oestrus of The Ewe at Insemination and Injection of Synthetic Oxytocin. Aust. J. Agric. 20: 141-150.
- Kartasapoetra. 2001. Budidaya Tanaman Berkhasiat Obat. Rineka Cipta, Jakarta.
- Kartasudjana, R. 2001. Teknik Inseminasi Buatan Pada Ternak. Departemen Pendidikan Nasional. Jakarta.

- Kaunang, D., S. Suyadi., dan S. Wahjuningsih. 2014. Analisis Litter Size, Bobot Lahir dan Bobot Sapih Hasil Perkawinan Kawin Alami dan Inseminasi Buatan Kambing Boer dan Peranakan Etawah (PE). Jurnal Ilmu-Ilmu Peternakan, 23(3), 41-46.
- Ketaren, S. 1985. Pengantar Teknologi Minyak Atsiri. Balai Pustaka, Jakarta.
- Kotsampasi, B., B. Tsiplakou., C. Christodoulou., A. Mavrommatis., C. Mitsiopoulou., C. Karaiskou., and V. Christodoulou. 2018. Effects of Dietary Orange Peel Essential Oil Supplementation on Milk Yield and Composition, and Blood and Milk Antioxidant Status of Dairy Ewes. Animal Feed Science and Technology, 245, 20-31.
- Kostaman, T., dan I. K Sutama. 2005. Laju Pertumbuhan Kambing Anak Hasil Persilangan Antara Kambing Boer Dengan Peranakan Etawah Pada Priode Pra-Sapih. JITV 10: 106 – 112.
- Kurniawan, A., C. Kurniawan., N. Indraswati., dan M. Mudjijati. 2008. Ekstraksi Minyak Kulit Jeruk Dengan Metode Distilasi, Pengepresan dan Leaching. Widya Teknik, 7(1), 15-24.
- Land, R. B., and D. W. Robinson. 1985. Genetics of Reproduction in Sheep. Garden City Press Ltd, etchworth, Herts. England
- LeBlanc, S. 2005. Overall Reproductive Performance of Canadian Dairy Cows Challenge We Are Facing. Advance in Dairy Technology 17: 137-148.
- Leboeuf, B., E. Manfredi., P. Boue, A. Piacere., G. Brice., G. Baril., C. Broqua., P. Humblot., and M. Terqui. 1998. Artificial Insemination of Dairy Goats in France. Livestock Prod. Sci. 55: 193-203.
- Lenzi, A., F. Gandini., F. Lombrado, M. Picardo., V. Maresca., E. Penfili., F. Tramer., C. Boitani., and F. Dondero, 2002. Polyunsaturated Fatty Acids Of Germ Cell Membrans, Glutation and Glutathione Depended Enzyme-PGHPx. From Basic to Clinic. Contraception 65:301-304.
- Lestari, A., and S. Arreneuz. 2014. Uji Bioaktivitas Minyak Atsiri Kulit Buah Jeruk Pontianak (*Citrus nobilis Lour*) Terhadap Rayap Tanah (*Coptotermes curvignathus sp*). Jurnal Kimia Khatulistiwa, 3(2).
- Lidyana, F. 2013. Laporan Analisis Semen. Jurnal Universitas Negeri Jakarta, Jakarta.
- Lopes, F. P. 2002. Semen Collection and Evaluation in Ram. ANS 33161. University of Florida, Florida.

- Lorton, S. P., J. J. Sulifan., B. Bean., M. Kaproth., H. Kellgren and C. Marshall. 1988. A New Antibiotic Combination For Frozen Bovine Semen. 2. Evalution Of Seminal Quality. Theriogenology, 29: 593-607
- Lutony, T. L. 1994. Produksi dan Perdagangan Minyak Atsiri. Penebar Swadaya, Jakarta.
- Madigan, M. T., J. M. Martinko., P. V. Dunlap., and D. P. Clark. 2008. Brock Biology Of Microorganisms 12th edn. Int. Microbiol, 11, 65-73.
- Mahmilia, F. dan S. Elieser. 2008. Korelasi Lama Bunting Dengan Bobot Lahir, *Litter Size* dan Daya Hidup Kambing Boerka-1 Pros. Seminar Nasional Teknologi Peternakan dan Veteriner. Bogor,2008. Puslitbang Peternakan, Bogor.
- Makka, D. 2004. Tantangan dan Peluang Pengembangan Agribisnis Kambing Ditinjau Dari Aspek Pewilayah Sentra Produksi. Lokakarya Nasional Kambing Potong. Puslitbang Peternakan dan Loka Penelitian Kambing Potong, Bogor.
- Maxwell, W. M. C., and S. Salomon. 1993. Liquid storage of ram semen: a review. Reprod. Fertil. Dev.5: 29-46.
- Maxwell, W. M. C., and P. F. Watson. 1996. Recent progress in the preservation of ram semen. Anim. Reprod. Sci. 42: 55-65.
- Medeiros, C. M., F. Forell, A. T. Oliveira., and J. L. Rodrigues. 2002. Current status of sperm cryopreservation: why in n't better. Theriogenology. 57 : 327-344.
- Minitub. 2001. Certificate Andromed. Minitub Abfullund Labortechnik GmbH and Co KG. Germany.
- Monga, M., and J. A. Roberts. 1994. Spermagglutination by Bacteria: Receptorspecific Interactions. J. Androl. 15, 151–156.
- Morel, D. M. 1999. Equine Artificial Insemination. CABI Publishing, Wallingford.
- Morrell, J. M. 2006. Update On Semen Technologies For Animal Breeding. Reprod. Domest. Anim. 41, 63–67
- Muhtadin, A. F., R. Wijaya., P. Prihatin., and M. Mahfud. 2013. Pengambilan Minyak Atsiri dari Kulit Jeruk Segar dan Kering dengan Menggunakan Metode Steam Distillation. Jurnal Teknik ITS, 2(1), F98-F101.
- Nattadiputra, S dan S. Munaf. 2009. Aminoglikosida dan Beberapa Antibiotika Khusus, Kumpulan Kuliah Farmakologi, 631, Jakarta, EGC.

- Neild, D. N., B. M. Gadella., A. Agüero., T. A. E. Stout., and B. Colenbrander. 2005. Capacitation, Acrosome Function and Chromatin Structure in Stallion Sperm. *Anim reprod sci*, 89(1-4), 47-56.
- Nofa, Y., N. W. K. Karja., dan R. I. Arifiantini. 2018. Status Akrosom dan Kualitas Post-Thawed Spermatozoa pada Beberapa Rumpun Sapi dari Dua Balai Inseminasi Buatan. *Acta Veterinaria Indonesiana*, 5(2), 81-88.
- Ogbuewu, I. P., N. O. Aladi., I. F. Etuk., M. N. Opara., M. C. Uchegbu., I. C. Okoli., and M. U. Illoeje. 2010. Relevance of Oxygen Free Radicals And Antioxidants in Sperm Production and Function. *Journal of Veterinary Sciences* 3 (3): 138-164.
- Pamungkas, F. A., A. Batubara., M. Doloksaribu., dan E. Sihite. 2009. Petunjuk Teknis Potensi Plasma Nutfah Kambing Lokal Indonesia. Pusat Penelitian dan Pengembangan Peternakan, Departemen Pertanian.
- Partodihardjo, S. 1987. Ilmu Reproduksi Hewan. Fakultas Kedokteran Veteriner Jurusan Reproduksi Institut Pertanian Bogor.
- Paulenz, H., L. Sōderquist., T. A Dnøy., K. Soltun., P. A. Sæther., K. R. Fjellsøy, and K. A. Berg. 2005. Effect of Cervical and Vaginal Insemination With Liquid Semen Stored at Room Temperature on Fertility of Goats. *Anim. Rep. Sci.* 86 (2005) 109–117.
- Pracaya. 2001. Jeruk Manis: Varietas, Budidaya, dan Pasca Panen. Penebar Swadaya, Jakarta.
- Prahasta, A. 2010. Agribisnis Jeruk. Pustaka Grafika, Bandung.
- Prescott, L. M., J. P. Harleyand., and D. A. Klein. 2005. Microbiology. 6th Ed. McGraw-Hill Companies Inc. New York.
- Priyanto, L., R. I. Arifiantini., dan T. L. Yusuf. 2015. Deteksi Kerusakan DNA Spermatozoa Semen Segar dan Semen Beku Sapi Menggunakan Pewarnaan Toluidine Blue. *Jurnal Veteriner*, 16(1), 48-55.
- Purdy, P. H. 2006. A Review on Goat Sperm Cryopreservation. *Small Ruminant Research*, 63(3), 215-225.
- Purwanti, E., S. Syukur dan Z. Hidayat. 2005. Lactobacillus sp. Isolasi dari Biovicopitomega Sebagai Probiotik. Prosiding Lembaga Ilmu Pengetahuan Indonesia.
- Rabusin, M. 2018. Identifikasi Bakteri dalam Semen dan Efektifitas Antibiotik dalam Pengencer Semen Untuk Mengontrol Pertumbuhan Bakteri. Tesis. Institut Pertanian Bogor, Bogor.

- Reswari, R. 1994. Pengaruh Beberapa Bahan Pengencer Susu dan Lama Penyimpanan Terhadap Kualitas Semen Domba Ekor Gemuk. Fakultas Peternakan IPB, Bogor.
- Revell, S. G., and R. A. Mrode. 1994. An Osmotic Resistance Test For Bovine Semen. Anim.Reprod. Sci.. 36: 77-86.
- Ritar, A .J., and S. Salomon. 1983. Fertility of Fresh Andfrozen-Thawed Semen of The Angora Goat. Aust. Biol.Sci., 36 :49-59.
- Rizal, M., M. R. Toelihere., T. L. Yusuf., B. Purwantara., and P. Situmorang. 2003. Quality of Garut Ram Frozen Semen in Various Glycerol Concentrations. JITV 7(3): 194-199.
- Rizal, M., dan Herdis. 2008. Inseminasi Buatan Pada Domba. Jakarta. Rineka Cipta, Jakarta.
- Rizal, M., dan Herdis. 2010. Peran Antioksidan Dalam Meningkatkan Kualitas Semen Beku. Wartazoa Vol. 20 No. 3.
- Roca, J., J. A Carrizosa., I. Compos., A. Lafuente., J. M. Vasquez., and E. Martinez. 1997. Viability and Fertility of Unashed Murciano-Granadina Goat Spermatozoa Diluted in Tris-Egg Yolk Extender Andstored at 5°C. Small Rum. Res. 25: 147 – 153.
- Roca, J. M. Martinez., Vazquez., X. Lucas., I. Parrilla and E. A. Martinez. 2000. Viability and Fertility of Rabbit Spermatozoa Diluted In Tris- Buffer Extender and Stored at 15°C. Small Ruminant Research. 25 : 147-153.
- Rochim, A. 2009. Memproduksi 15 Minyak Asiri Berkualitas. Penebar Swadaya, Jakarta.
- Rodriguezgil, J. E., A. Montserrat., and T. Rigau. 1994. Effects of Hypoosmotic Incubation on Acrosome and Tail Structure on Canine Spermatozoa. Theriogenology. 42 :815-29.
- Ronald, B.S.M., and T. G. Prabhakar. 2001. Bacterial Analysis of Semen and Their Antibiogram. Ind. J. Anim. Sci. 71, 829–831.
- Saacke, R. G., and J. M. White. 1972. Semen Quality Tests and Their Relationship to Fertility. Prooceeding 4th Tech Conf on AI and Reprod NAAB.P.22-27.
- Sahare, M. G., A. D. Sawaimul., S. Z. Ali., and B. R, Kolte. 2009. Kidding Percentage and Twinning Ability in Osmanabadi Goat in Vidarbha Climatic Condition. Veterinary world, 2(2), 60.

- Salisbury, G. W. 1985. A Controlled Experiment in Feeding Wheat Germ Oils As A Supplement to The Normal Ration of Bulls Used For Artificial Insemination. J. Dairy Sci. 66:77-106.
- Salisbury, G. W., and N. L. Van DeMark. 1985. Fisiologi Reproduksi dan Inseminasi Buatan Pada Sapi. Terjemahan R. Djanuar. Gadjah Mada University Press, Yogyakarta.
- Salamon, S., dan W. M. C. Maxwell. 2000. Storage of Ram Semen. Anim Reprod Sci 62:77-111.
- Samoulidis, S and R. Hahn. 1973. Deep Freezing of Sheep and Goat Semen in Straw. Anim. Breed. 41:242.
- Sarwono, B. 2002. Beternak Kambing Unggul. Penerbit Penebar Swadaya. Jakarta
- Sastrosupadi, A. 2000. Rancangan Percobaan Praktis Bidang Pertanian Edisi Revisi. Kanisius, Yogyakarta.
- Setiadi, B. 2003. Alternatif Konsep Pembibitan dan Pengembangan Usaha Ternak Kambing. Potensi Ternak Kambing dan Propek Agribisnis Peternakan, Bengkulu.
- Setiadi, B., Subandriyo, M., Martawidjaja., I-K Sutama., D. Yulistiani., dan D. Priyanto. 2002. Evaluasi Keungulan Produktivitas Dan Pemantapan Kambing Persilangan. Kumpulan Hasil Hasil Penelitian Peternakan APBN Tahun Anggaran 2001. Balai Penelitian Ternak, Ciawi, Bogor. pp 123 – 142.
- Shin, S.J., D. H. Lein., V. H. Pattern., and H. H. Ruhnke., 1988. A New Antibiotic Combination for Frozen Bovine Semen, Control of mycoplasmas, ureaplasmas, Campylobacter Fetus ssp. Venerealis and Haemophilus Somnus in Frozen Bovine Semen. Theriogenology 29: 577–591.
- Shukla, S. N., B. B. Singh., N. S. Tomar., and B. S. Misra. 1992. Factors Affecting Prematozoon Motility in Preserved Semen. Indian Vet. J. 69: 856-857.
- Siburian, R. 2008. Isolasi dan Identifikasi Komponen Utama Minyak Atsiri Dari Kulit Buah Jeruk Manis (*Citrus sinensis L.*) Asal Timor, Nusa Tenggara Timur. Jurnal Natur Indonesia, 11(01).
- Sinha, S., B. C. Deka., M. K. Tamulu., and B. N. Borgohain. 1992. Effect of Equilibration Period and Glycerol Level in Tris Extender of Quality of Frozen Goat Semen. Indian Vet. J. 69 : 1107-1110.
- Siregar, P. 1992 Metabolit Oksigen Radikal Bebas dan Kerusakan Jaringan. Cermin Dunia Kedokteran. 80: 112-115.

- Siswono. 2003. Nutrisi Kuning Telur. Asiayam, Semarang.
- Sodiq, A dan Sadewo. 2008. Reproductive Performance and Preweaning Mortality of Peranakan Etawa Goat Under Production System of Goat Farming Group in Gumelar Banyumas. Animal production . Mei 2008 vol 10 no 2:67-72
- Steinbach, J., and R. H. Foote. 1967. Osmotic Pressure and pH Effects on Survival of Frozen or Liquid Spermatozoa. J. Dairy Sci. 50:205.
- Susilo, T. 2005. Efisiensi Reproduksi Program Inseminasi Buatan Terhadap Sapi Lokal Pada Daerah Lahan Basah dan Kering di Kabupaten Magelang Provinsi Jawa Tengah. Tesis Program Studi Magister Ilmu Ternak Program Pasca Sarjana Universitas Diponegoro Semarang.
- Suryana. 2010. Metodologi Penelitian Model Praktis Penelitian Kuantitatif dan Kualitatif. Buku Ajar Perkuliahan Universitas Pendidikan Indonesia, Bandung
- Suryohudoyo, P. 2000. Oksidan, Antioksidan dan Radikal Bebas.Kapita Selekta Ilmu Kedokteran. Agung Seto, Jakarta.
- Sutama, I. K., B. Setiadi., P. Situmorang., U. Adiati., I. G. M. Budiarso., T. Kostaman., Maulana., Mulyawan, dan R. Sukmana. 2000. Uji Kualitas Semen Beku Kambing Peranakan Etawah dan Kambing Boer. Laporan Bagian Proyek Rekayasa Teknologi Peternakan ARMP-II : 88-111.
- Suwarso. 1999. Peranan Rafinosa Dalam Pengencer Tris-Sitrat Kuning Telur Terhadap Semen Beku Kambing Peranakan Etawah. Program Pasca Sarjana Institut Pertanian Bogor, Bogor.
- Suyadi, T. Susilawati., dan N. Isnaini. 2004. Uji Coba Produksi Semen Beku Kambing Boer. Laporan Penelitian. Fakultas Peternakan. UB. Malang.
- Tambing, S. N., M. R. Toelihere., T. L. Yusuf., and I. K. Sutama. 2000. Effects of glycerol in tris extender on frozen semen quality of crossbred Etawah bucks. Jurnal Ilmu Ternak dan Veteriner. Vol 2. No 2.
- Tambing, S. N., I. K. Sutama., and M. Sariubang. 2009. Efficacy of concentration of egg yolk in Tris extender with and without seminal plasma on frozen semen quality of Saanen bucks. Jurnal Ilmu Ternak dan Veteriner 13(4): 315-322.
- Toelihere, M. R. 1993. Fisiologi Reproduksi pada Ternak. IPB Press, Bogor.
- Toelihere, M. R. 1993. Inseminasi Buatan Pada Ternak. Angkasa, Bandung.

- Tuli, R. K., R. Schnid-baulain., and W. Holtz. 1991. Influence of Thawing Temperature on Viability and Release of Glutamic Oxaloacetic Transminase in Frozen Semen From Boer Goats. *Anim. Reprod. Sci.* 25: 125-131.
- Varner, D. D., C. M. Scanlan., J. A. Thompson, B. W. Brumbaugh., and T. L. Blanchardl. 1998. Bacteriology of Preserved Stallion Semen and Antibiotics in Semen Extenders. *Theriogenology* ; 50:559- 405 573.
- Visser, I. J., E. A. Ter Laak., and H. B. Jansen. 1999. Failure of Antibiotics Gentamycin, Tylosin, Lincomycin and Spectinomycin to Eliminate Mycoplasma Bovis in Artificially Infected Frozen Bovine Semen. *Theriogenology* ; 51, 689–697.
- Warriach, H. M., N. Ahmad., G. Ahmad., M. S. Khan., M. Rabbani., and I. Ahmad. 2008. Effect of Antibiotic Treatment on Pregnancy Rate of Repeat Breeder Dairy Cross Bred Cows With Sub-Clinical Uterine Infection. *Pakistan Vet. J.* 28(1):40-42.
- Watson, P. F. 2000. The Caused of Reduced Fertility With Cryopreserved Semen. *Anim Reprod Sci* 60-61:481-492.
- White, I. G. 1993. Lipids and Calcium Uptake of Sperm in Relation to Cold Shock and Preservation : A review. *Reprod fertil. Dev.* 5:639-697
- Widjaya, N. 2011. Efek Penambahan Vitamin E Dalam Pengencer Glukosa Fosfat Terhadap Daya Tahan Hidup Spermatozoa Domba Pada Suhu 5°C. *Jurnal Sains Peternakan Vol.9 (1)*. Halaman 25-31.
- Wolff, H., A. Panhans., W. Stolz., and M. Meurer. 1993. Adherence of Escherichia Coli to Sperm: a Mannose Phenomenon Leading to Agglutination of Sperm and E. coli. *Fertility Sterility.* 60, 154–158
- Yániz, J. L., P. Santolaria., M. A. Marco-Aguado.,and F. López-Gatius. 2008. Use of Image Analysis to Assess The Plasma Membrane Integrity of Ram Spermatozoa in Different Diluents. *Theriogenology* 70, 192–198.
- Yániz, J. L., M. A. Marco-Aguado., J. A. Mateos., and P. Santolaria. 2010. Bacterial Contamination of Ram Semen, Antibiotic Sensitivities, and Effects on Sperm Quality During Storage at 15°C. *Anim Reprod Sci*, 122 (1-2), 142-149.
- Yuwanta, T. 2010. Telur dan Kualitas Telur. Gadjah Mada University Press. Yogyakarta.
- Yulnawati, M., Setiadi., and Herdis. 2005. Pemanfaatan Sari Buah Melon dan Sari Wortel Sebagai Pengencer Alternative Semen Cair Domba Garut. *J. Vet.* 12: 151 – 160.

Zaituni, U. 1993. Peningkatan Produksi Peternakan Sapi Potong di Daerah Padat Ternak Melalui Perbaikan Sarana dan Prasarana Pelayanan Reproduksi. Disertasi. Program Pascasarjana Institut Pertanian Bogor, Bogor.

Zaituni, U. 2012. Teknologi Inseminasi Buatan dan Transfer Embrio Pada Sapi. Sukabina Press, Padang.

