

DAFTAR PUSTAKA

- Aghaei, A., S. Tabatabaei, and M. Nazari. 2010. The Correlation Between Mineral Concentration of Seminal Plasma and Spermatozoa Motility in Rooster. *J. Animal and Veterinary Advances* 10:1476-1478.
- Ahmad, S. 2005. Pembuatan Membran Selulosa Asetat pada berbagai Variasi Komposisi Polimer, Jenis Pelarut, dan Konsentrasi Aditif. Bandung: Pusat Penelitian Kimia.
- Asmarawati, W., Kustono, T. W. Diah, B. Sigit, dan Ismaya. 2013. Pengaruh Dosis Sperma yang Diencerkan dengan NaCl Fisiologis Terhadap Fertilitas Telur pada Inseminasi Buatan Ayam Kampung. *Buletin Peternakan* 37:1-5.
- Aviagen. 2014. How to Identify Infertile Eggs and Early Deads. *Available at* www.aviagen.com. *Accessed June 07, 2015*.
- Bakst, M. R., A. M. Donoghue, D. E. Yoho, J. R. Moyle, S. M. Whipple, M. J. Camp, G. Q. Liu, and R. K. Bramwell. 2010. Comparison of Sperm Storage Tubule Distribution and Number in 4 Strains of Mature Broiler Breeders and Turkey Hens before and after the Onset of Photostimulation. *J. Poult. Sci* 89:986-992.
- Bakst, M.R., and J.S. Dymond. 2013. Artificial Insemination in Poultry. *Available at* <http://dx.doi.org/10.5772/54918>. *Accessed June 07, 2015*.
- Blanco, J.M., A. L. Julie, G. George, E. W. David, M. D. Ann. 2011. Comparative Cryopreservation of Avian Spermatozoa: Effects of Freezing and Thawing Rates on Turkey and Sandhill Crane Sperm Cryosurvival. *Anim. Rep. Sci.* 131:1-8.
- Blesbois, E., I. Grasseau, and F. Seigneurin. 2005. Membran Fluidity and the Ability of Domestic Bird Spermatozoa to Survive Cryopreservation. *J. Soc. for Rep. and Fert.* 129:371-378.
- Blesbois, E. and J.P. Brillard. 2007. Specific Features In Vivo and In Vitro Sperm Storage in Birds. *The Animal Consortium* 10:1472-1481.
- Bowling, E. 2003. Sperm Mobility in Broiler Breeders. Thesis University of Georgia. Athens.
- Ceva. 2007. Incubation and Hatching Processes in Main Factors Affecting the Hatchability. France: CEVA Santé Animale.

- Debrina, C. W., N. Isnaini, dan P. Trisunuwat. 2013. Pengaruh Lama Simpan Semen Dalam Pengencer NaCl Fisiologis Pada Suhu Kamar Terhadap Kualitas Spermatozoa Ayam Kampung (*Gallus Domesticus*). *Jurnal Kedokteran Hewan* 7:53-55.
- Dethan, A. A., Kustono, dan H. Hari. 2010. Kualitas dan Kuantitas Sperma Kambing Bligon Jantan yang diberi Pakan Rumput Gajah dengan Suplementasi Tepung Darah. *Buletin Peternakan* 34(3):145-153.
- Donoghue, A.M. and G. J. Wishart. 2000. Storage of Poultry Semen. *Animal Reproduction Science* 62:213-232.
- Dumpala, P.R., H.M. Parker, and C.D. McDaniel. 2006. The Effect of Semen Storage Temperature and Diluent Type on the Sperm Quality Index of Broiler Breeder Semen^{1,2}. *Poultry Science* 5: 838-845.
- Dzoma, B. M. 2010. Some Factors Affecting Fertility and Hatchability in the Farmed Ostrich. *J. of Anim. and Vet. Advances* 9:229-239.
- European Chemical Agency (ECHA). 2011. N,N-Dimethylacetamide (DmaC) As a Substance Of Very High Concern Because Of Its Cmr Properties. SVHC Support Document N,N-Dimethylacetamide (DmaC).
- El-Gendy, E.A., M. M. Ahmed, S. M. El-Tantawy, and S. A. Ibrahim. 2012. Fertilization Capacity of Rooster Spermatozoa in Response to the Modification in the Semen Composition. *Int. J. Poult. Sci.* 11: 683-688.
- Froman, D.P., 1995. Biology of Semen Production and Ejaculation. *Proceedings First International Symposium of the Artificial Insemination of Poultry* pp. 21-38.
- Gumułka, M., and E. Kapkowska. 2005. Age Effect of Broiler Breeders on Fertility and Sperm Penetration of the Perivitelline Layer of the Ovum. *Anim.Rep.Sci* 90:135-148.
- Han, X. F., Z.Y. Niu, F.Z. Liu, and C.S. Yang. 2005. Effects of Diluents, Cryoprotectants, Equilibration Time and Thawing Temperature on Cryopreservation of Duck Semen. *Int.J.of Poultry Science* 4: 197-201.
- Hanum, M. 2001. Efektifitas Berbagai Jenis Pengencer Terhadap Kualitas Semen Cair Ayam Lokal. *Available at:*[http:// repository . ipb . ac .](http://repository.ipb.ac.id)

[id/handle/123456789/22873](http://etd.repository.ugm.ac.id/handle/123456789/22873). *Accessed* : 24 Januari 2014.

Husain, M. E. 2011. Pengaruh Bangsa Ayam terhadap Kualitas dan Fertilitas Spermatozoa. *Available at* : <http://nervandihusain.blogspot.com/2012/03/pengaruh-bangsa-ayam-terhadap-kualitas.html>. *Accessed* : 24 Januari 2014.

Iskandar,S., M. Rufika, H. Resmi, M. Enok, dan W. Endang. 2005. Pengaruh Jenis, Konsentrasi Krioprotektan dan Metode Thawing terhadap Kualitas Semen Beku Ayam Arab. Bogor: Balai Penelitian Ternak Ciawi.

Iaffaldano, N., M.P. Rosato, A. Manchisi, G. Centoducati, and A. Meluzzi. 2005. Comparison of different extenders on the quality characteristics of turkey semen during storage. *Ital.J.Anim.Sci.* 4 :513-515.

Ismaya. 2014. Bioteknologi Inseminasi Buatan pada Sapi dan Kerbau. Yogyakarta: Gadjah Mada University Press.

Jequier, M. 2011. The Assessment of Sperm Morphology. *Cambridge Clinical Guides* pp 62-67.

Johari, S., Y. Ondho, Sri-Wuwuh, Y. B. Henry,dan Ratnaningrum. 2009. Karakteristik dan Kualitas Semen Berbagai Galur Ayam Kedu. Seminar Nasional Kebangkitan Peternakan: Pemberdayaan Berbasis Sumber Daya Lokal untuk Ketahanan Pangan nasional Berkelanjutan pp.617-632.

Joyner, K. L. 1994. Theriogenology in Avian Medicine Principles and Application pp.748-804. England: Lake Worth Wingers Publish-ing, Inc.

Kadiran., R. Denny, dan Suharto. 2004. Penetapan Interval Inseminasi pada Ayam Buras. Prosiding Temu Teknis Nasional Tenaga Fungsional Pertanian pp:21-25.

Kelik, P. 2012. Sejarah Ayam Bangkok. *Available at* : http://ayamtarungunggul.blogspot.com/2012_03_01_archive.html. *Accessed*: 23 April 2013.

King, L.M., J.P. Brillard, M.R. Bakst, and A.M. Donoghue. 1999. Isolation Storage Tubules from the Uterovaginal Junction Mucosa of the Turkey. *Poultry Science* 78:1044-1047.

Koswara, S. 2009. Pengolahan Unggas. *Available at* : Ebookpangan.com.

Accessed June 07, 2015.

Kusumaningrum, D.A., P. Situmorang, A.R. Setioko, T. Sugiarti, E. Triwulanningsih dan R.G. Sianturi. 2002. Pengaruh Jenis dan Aras Krioprotektan Terhadap Daya Hidup Spermatozoa Entog. Bogor: Balai Penelitian Ternak.

Layla, Z. Dan A. Siti. 2002. Uji Kualitas Sperma dan Penghitungan Jumlah Pengencer dalam Upaya Menentukan Keberhasilan Inseminasi Buatan. Temu Teknis Fungsional non Peneliti Balitnak pp 128-132.

Lukaszewicz, E., A. Jerysz, A. Partyka, and A. Siudizinska. 2008. Efficacy of Evaluation of Rooster Sperm Morphology using Different Staining Methods. *Science Direct* 85: 583-588.

Madeddu, M., F. Berlinguer, V. Pasciu, S. Succu, V. Satta, G. G. Leoni, A. Zinellu, M. Muzzeddu, C. Carru, and S. Naitana. 2010. Differences in Semen Freezability and Intracellular ATP Content between the Rooster (*Gallus gallus domesticus*) and the Barbary Partridge (*Alectoris barbara*). *Theoriginology* 74:1010-1018.

Malik, A., A.W. Haron, R. Yusoff, M. Nesa, M. Bukhar, and A. Kasim. 2013. Evaluation of the ejaculate quality of the red jungle fowl, domestic chicken, and bantam chicken in Malaysia. *Turk. J. Vet. Anim. Sci.* 37: 564-568.

Mormino, K. S. 2013. Facts and Myths about Fertile Eggs. *Available at* <http://www.the-chicken-chick.com/2013/01/facts-and-myths-about-fertile-eggs.html>. Accessed June 07, 2015.

Muchlisin, Z. A. 2005. Current Status of Extenders and Cryoprotectants on Fish Spermatozoa Cryopreservation. *Biodiversitas* 6:12-15.

Mumu, M.I., 2009. Viabilitas Semen Sapi Simental yang Dibekukan menggunakan Krioprotektan Gliserol. *J. Agroland* 16 (2): 172-179.

Munandar, A., N. Nurcahyani, dan H. Busman. 2013. Pengaruh Kebisingan Terhadap Kualitas Spermatozoa Mencit (*Mus musculus* L.). Seminar Nasional Sains dan Teknologi V. Lampung: Lembaga Penelitian Universitas Lampung.

Muslim, D. A. 2013. Bagaimana Mencetak Ayam Kampung Super. *Available at* : <http://omkicau.com/2013/01/10/bagaimana-mencetak-ayam-kampung-super/>. *Accesed*: 23 April 2013.

Naatamijaya, A. G., A.R. Setioko, B. Brahmantiyo, dan K. Diwyanto. 2003.

Performans dan Karakteristik Tiga Galur Ayam Lokal (Pelung, Arab dan Sentul). Seminar Nasional Teknologi Peternakan dan Veteriner.

Orr, T. J., and M. Zuk. 2011. Quick Guide Sperm Storage. *Current Biology* 22:8-10.

Parker H.M. and C. D. McDaniel. 2006. The Immediate Impact of Semen Diluent and Rate of Dilution on the Sperm Quality Index, ATP Utilization, Gas Exchange and Ionic Balance of Broiler Breeder Sperm. *Poultry Science* 85:106–116.

Partyka, A., W. Nizanski, and E. Lukaszewics. 2010. Evaluation of Fresh and Frozen-Thawed Fowl Semen by Flow Cytometry. *Theorigenology* 74:1019-1027.

Partyka, A., W. Nizanski, and E. Lukaszewics. 2012. Effect of cryopreservation on sperm parameters, lipid peroxidation and antioxidant enzymes activity in fowl semen. *Theorigenology* 77: 1497-1504.

Peters, S.O., O. D. Shoyebo, B. M Illori, M. O.Ozoje, C. O. N. Ikeobi, and O. A. Adebambo. 2008. Semen Quality Traits of Seven Strain if Chicken Raised in Humid Tropics. *Int. J. Poult. Sci.* 10: 949-953.

Phuong, T. N. L., E. Varadi, B. Vegi, K. Liptoi, and J. Barna. 2014. Comparison between Low/Programmable Freezing and Fast Freezing Protocols of Hungarian Guinea Fowl Semen. *Athens Journal of Natural and Formal Sciences* 1: 175-183.

Pom. 2014. Bahaya Paparan *Bisphenol-A* (BPA). *Available at* : ik.pom.go.id. *Accessed*: 27 Agustus 2015.

Pratomo, H. 2003. Pembuatan dan Karakterisasi Membran Komposit Polisulfon Selulosa asetat untuk Proses Ultrafiltrasi. *Jurnal Pendidikan Matematika dan Sains* 200:168-173.

Purdy, P.H., Y. Song, F. G. Silversides, and H. D. Blackburn. 2009. Evaluation of glycerol removal techniques, cryoprotectants, and insemination methods for cryopreserving rooster sperm with implications of regeneration of breed or line or both ^{1,2,3}. *Poultry Science* 88 :2184–2191.

Purnama, R.D. dan W. Endang. 1999. Pemanfaatan Teknologi IB dalam Menunjang Kegiatan Penelitian pada Ayam Buras di Balitnak Ciawi. Bogor: Balai Penelitian Ternak Ciawi.

- Rahmanto, R. 2012. Struktur Histologik Usus Halus dan Efisiensi Pakan Ayam Kampung dan Ayam Broiler. Thesis Universitas Negeri Yogyakarta.
- Rusmiati. 2007. Pengaruh Ekstrak Kayu Secang (*Caesalpinia sappan* L) terhadap Viabilitas *Spermatozoa* Mencit Jantan (*Mus musculus* L). *Bioscientiae* 4:63-70.
- Sasanami, T., M. Masuzaki, M. Mizushima, and G. Hiyama. 2013. Sperm Storage in the Female Reproductive Tract in Birds. *Journal of Reproduction and Development* 59(4):334-338.
- Sastrodihardjo, S. dan R. Heti. 2003. Inseminasi Buatan Ayam Buras. Jakarta: Penebar Swadaya.
- Seigneurin, F., I. Grasseau, E. Blesbois, and H. Chapuis. 2013. An Efficient Method of Guinea Fowl Sperm Cryopreservation. *Poultry Science* 92:2988-96.
- Sexton, T.J. 1977. A New Poultry Semen Extender 1. Effect of Extension on the Fertility of Chicken Semen. *Animal Physiology and Genetics Institute, Agricultural Research Service* pp. 1443-1446.
- Shubas, C. D., N. Isobe, and Y. Yoshimura. 2008. Mechanism of Prolonged Sperm Storage and Sperm Survivability in Hen Oviduct. *American J. of Rep. Immunology* 60: 477-481.
- Sids. 2011. N,N-DIMETHYLACETAMIDE (DMAC) CAS N°:127-19-5. SIDS Initial Assessment Report for 13th SIAM. Switzerland.
- Siudzinska, A. and E. Lukaszewics. 2008. Effect of semen extenders and storage time on sperm morphology of four chicken breeds. *J. Poult. Sci.* 17:101-108.
- Sopiyana, S., S. Iskandar, T. Susanti, dan D. Yogaswara. 2006. Pengaruh Krioprotektan DMA, DMF DAN *Glycerol* pada Proses Pembekuan Semen Ayam Kampung. Seminar Nasional Teknologi Peternakan dan Veteriner 2006. Bogor.
- Suparna., K. Hidayat, dan T. D Lestari. 2013. Penampilan Reproduksi Tiga Jenis Ayam Lokal Jawa Barat. Lokakarya Nasional Inovasi Teknologi Pengembangan Ayam Lokal. Bogor
- Suryana dan A. Hasbianto. 2008. Usaha Tani Ternak Ayam Buras di Indonesia Permasalahan dan Tantangan. Balai Pengkajian Teknologi Pertanian Kalimantan Selatan, *J. Litbang Pertanian* 3:75-

83.

Suryani, N., N. Suthama, dan H. I. Wahyuni. 2012. Fertilitas Telur dan Mortalitas Embrio Ayam Kedu Pebibit yang Diberi Ransum dengan Peningkatan Nutrien dan Tambahan *Sacharomyces cerevisiae*. *Journal Animal Agricultural* 1:389-404.

Tangpakdeewijit, S., S. Ponchunchoovong, and T. Vongpralub. 2015. Effect of extenders on frozen semen quality of Thai native chicken (Lueng hang kao). *Khon Kaen Agr. J.* 43: 86-89.

Teva. 2015. Important Safety and Incompatibility Information for TREANDA® (bendamustine HCl) INJECTION (45 mg/0.5 mL or 180 mg/2 mL solution). TEVA Pharmaceutical. USA.

Tadondjou, C.D., F. Ngoula, J. R. Kana, H. F. Defang, H. K. Mube, and A. Teguaia. 2013. Effect of Dietary Energy Level on Body Weight, Testicular development and Semen quality of Local Barred Chicken of the Western Highlands of Cameroon. *Advances in Rep. Sci* 1:38-43.

Tong, Q., C. E. Romanini, V. Exadaktylos, C. Bahr, D. Berckmans, H. Bergoug, N. Eterradosi, N. Roulston, R. Verhelst, I. M. McGonnell, and T. Demmers. 2013. Review: Embryonic Development And The Physiological Factors That Coordinate Hatching In Domestic Chickens. *Poult. Sci.* 92:620-628.

Tri-Yuwanta and J. P. Brillard. 1997. Jumlah Sel Sperma tersimpan di Saluran Reproduksi Ayam pada Strain, Umur, dan Dosis Inseminasi yang berbeda. *Buletin Peternakan* 21:10-18.

Tri-Yuwanta. 2006. Perencanaan dan Manajemen Pembibitan Unggas. Program Studi Ilmu Peternakan. Sekolah Pascasarjana. UGM. Yogyakarta.

Tsetulin, K., F. Seigneurin, and E. Blesbois. 1999. Comparison of Cryoprotectants and Methods of Cryopreservation of Fowl Spermatozoa. *Journal Poultry Science* 78:586-590.

Wicaksono, D., T. Kurtini, K. Nova. 2013. Perbandingan Fertilitas serta Susut, Daya dan Bobot Tetas Ayam Kampung pada Penetasan Kombinasi. Available at: <http://jurnal.fp.unila.ac.id/index.php/JIPT/article/viewFile/159/168>. Accessed: 1 November 2015.