

**DAFTAR PUSTAKA**

- Abeydeera, L. R. 2002. In Vitro Production Of Embryos In Swine. *Theriogenology*. 57 (7) : 256-273.
- Adifa, N.S., P. Astuti, dan T.D. Widayati. 2010. Pengaruh Penambahan Chorionic Gonadotrophin pada Medium Maturasi Terhadap Kemampuan Maturasi, Fertilisasi, dan Perkembangan Embrio Secara *in vitro* Kambing Peranakan Ettawa. *Buletin Peternakan*, 34: 8-15.
- Alvarez G.M. 2009. Immature Oocyte Quality and Maturation Competence of Porcine Cumulusoocyte Complexes Subpopulations. *Biocell*. 33:167-177.
- Amer H.A., A.O. Hegab dan S.M. Zaabal. 2008. Effects of Ovarian Morphology on Oocyte Quantity and Quality, Granulosa Cells, In Vitro Maturation, and Steroid Hormone Production in Buffaloes. *Animal Reproduction* 5: 55-62.
- Amin, M.R. 2000. Mekanisme Molekuler Proses Fertilisasi pada Hewan. *Hayati*. 7 (4): 117-120.
- Anwar, R. 2005. Morfologi dan Fungsi Ovarium. Bag. Obsteri dan Ginekologi. Fakultas Kedokteran. Universitas Padjajaran. Bandung.
- Bavister, B.D. 1992. Analysis of Culture Media for in Vitro Fertilization and Criteria for Success. in L. Mastroianni Jr. and J. D. Biggers (Eds.). *Fertilization and Embryonic Development in Vitro*. Plenum Press. New York.
- Balaban, B. dan B. Urman. 2006. Effect Of Oocyte Morphology on Embryo Development and Implantation. *Reprod. Biomed. Online* 12: 59-66.
- Beker ARCL, Izadyar F, Colenbrender B, Bevers MM. 2000. Effect of Growth Hormone Releasing Hormone (GHRH) and Vasoactive Intestinal Peptide (VIP) On In Vitro Bovine Oocyte Maturation. *Theriogenology* 53: 1771-1782.
- Boediono A, A. Rajamahendran, S. Saha, C. Imantri , dan T. Suzuki. 1995. Effect of the Presence of A CL in The Ovary on Oocyte Number, Cleavage Rate and Blastocyst Production *in Vitro* in Cattle . *Theriogenology* 43 :169 (Abst).
- Boediono, A., Y. Rusiyantono, dan Godke, R.A. 2003. Development of in Vitroproduced Caprine Embryos Cultured in Different Conditions. the 7nd Int. Meeting Biotech. Anim. Reprod. Kunming, China.

- Boediono, A., Y. Rusianto, K. Mohamad, I. Djuwita, dan Herliatien. 2000. Perkembangan Oosit Kambing Setelah Maturasi, Fertilisasi dan Kultur *in vitro*. *Media Vet.* 7: 11-17.
- Bilodeau-Goeseels, S., dan P. Panich. 2002. Effects of Oocyte Quality on Development and Transcriptional Activity in Early Bovine Embryos. *Anim. Reprod. Sci.* 71:143-155.
- Budiyanto, A., S. Gustari, D. Anggoro, D. Jatmoko, S. Nugraheni, E.W. Nugraha dan D. Asta. 2013. Kualitas Morfologi Oosit Sapi Peranakan Ongole yang Dikoleksi secara In Vitro Menggunakan Variasi Waktu Transportasi. *Acta Veterinaria Indonesia* 1(1):15-19.
- Campbell, N.A., J. B. Reece dan L. G. Mitchell. 2000. *Biologi*. Jakarta: Erlangga.
- Campbell, N.A., J.B. Reece, L.G. Mitchell dan M.R. Taylor, 2003. *Biology. Concept and Connections*. Forth Edition. Benjamin Cummings. San Francisco.
- Chateu, D dan E.M. Brwon. 1995. Regulation of Differentiation and Keratin 10 Expression by Alltrans Retinoic Acid during Estrous Cycle in the Rat Vaginal Epithelium. *Cell and Tissue Research* 284 : 373 – 381.
- Chian, R.C., W.M. Buckett dan S.L. Tan. 2003. In Vitro Maturation of Human Oocytes. *Reproductive Bio Medicine Online* 18(2):148-166.
- Chohan, K.R. dan A.G. Hunter. 2003. Meiotic Competence of Bovine Fetal Oocytes Following In Vitro Maturation. *Animal Reproduction Science.* 76: 43-51.
- Ciptadi, G., T. Susilawati, B. Siswanto, dan H. N. Karima. 2011. Efektivitas Penambahan Hormon Gonadotropin pada Medium Maturasi terhadap Tingkat Maturasi Oosit. *J. Ternak Tropika.* 12: 108-115.
- Cognie Y, Baril G, Poulin N, Mermillod P. 2003. Current Status of Embryo Technologies in Sheep And Goat. *Theriogenology* 59:171-188.
- Cole HH, Cupps PT. 1980. *Reproduktion in Domestic Animals*. Ed ke-4. New York; Academic Press.
- Dellmann, H.D. dan E.M. Brown, 1992. *Buku Teks Histologi Veteriner II*. Third Edition. Jakarta: Universitas Indonesia Press. Alih bahasa: R. Hartono.
- Dendo, Y., N. Supartini, dan H. Darmawan. 2013. Study Tingkat Kematangan Oosit Kambing PE yang Dikultur Secara In Vitro Pada 22 Jam. Program Studi Peternakan Universitas Tribhuwana Tungadewi Malang. Hal.1-15.

- Dianti, D., Z. Udin, dan Jaswandi. 2011. Pengaruh Penambahan *Follicle Stimulating Hormone* (FSH) dan Pregnant Mare's Serum Gonatotroprn (PMSG) dalam Sel Granulosa Progesteron pada Tingkat Maturasi Oosit. *Jurnal Peternakan Indonesia*, ISSN 1907 – 1760. Vol 13 (1).
- Ducibella T., D. Huneau, E. Angelichio, Z. Xu, R.M. Schultz, G.S. Kopf, R. Fissore, S. Madoux and J.P. Ozil. 2002. Egg To Embryo Transition Is Driven By Differential Responses To Ca<sup>2+</sup> Oscillation Number. *Developmental Biology*. 250: 280-291.
- Ebner, T., M. Mozer, dan G. Tews. 2006. Is Oocyte Morphology Prognostic of Embryo Developmental Potential After ICSI. *Reproductive BioMedicine Online* 12: 53-58.
- Eppig J 2004. The Role of the Oocyte in Regulating Somatic Cell Function. Programme XIII International Workshop on the Development and Function of the Reproductive Organs, 12-15 june, Copenhagen, Denmark. Pp : 1-5.
- Fatchiyah, F.G. Ciptadi, M.S. Djati dan S. Wahyuningsih. 2000. Penambahan FBS dan EGS pada Media Kultur Maturasi In Vitro (IVM) Oosit Kambing Lokal PE. *Natural. J.* 4 (3): 52-55.
- Feradis, 2010. Bioteknologi Reproduksi pada Ternak. Alfabeta. Bandung.
- Fibrianto, Y. H., D. L Kusindarta, dan S. Soebagyo. 2000. Penggunaan Serum Inaktivasi dari Rumah Potong Hewan pada Media Fertilisasi In Vitro. *Mediagama*. 2: 1-6.
- Gandolfi F., T.A.L. Brevini, F. Cillo, dan S. Antonini. 2005. Cellular And Molecular Mechanisms Regulating Oocyte Quality and The Relevance for Farm Animal Reproductive Efficiency. *Int. Office Epizoot.* 24(1):413-423.
- Ganong, W.F. 2003. Review of Medical Physiology. International Edition. Mc Graw Hill Book. San Francisco.
- Gordon, I. R. 2003. Laboratory Production of Cattle Embryos. CABI Publishing; Wallingford UK.
- Guyton, A.C. & Hall, J.E. (1996). Buku Ajar Fisiologi Kedokteran (dr. Irawati Setiawan,dkk.Terjemahan). Jakarta: EGC Penerbit Buku Kedokteran.
- Hafez, E. S. E. 2000. Semen Evaluation. In: *Reproduction In Farm Animals*. 7 th Edition. Lippincott Wiliams and Wilkins. Maryland. USA.

- Hafez, E. S. E. 2008. *Anatomy of Female Reproduction*. Ed pp. 29-55.
- Hennet M.L, Combelles C.M.H. 2012. The Antral Follicle: A Microenvironment for Oocyte Differentiation. *International Journal of Developmental Biology* 56: 819-831.
- Hasbi. 2014. Peran Insuline-Like Growth Factor-I (IGF-I) dan Cairan Folikel terhadap Tingkat Perkembangan Embrio in Vitro Sapi Bali [Proposal Desertasi]. Sekolah Pascasarjana Institut Pertanian Bogor.
- Hunter, R.H.F. 1995. *Fisiologi dan Teknologi Reproduksi Hewan Betina Domestik* (Terjemahan D "K.H. Putra). ITB. Bandung.
- Ismudiono, P. Srianto , H. Anwar, S. P. Madyawati, A. Samik dan E. Safitri 2010. *Fisiologi Reproduksi Pada Ternak*. Airlangga University Press. Surabaya.
- Jaswandi., Z. Udin, dan M. Mundana. 2003. Pengembangan Sistem Kultur Tanpa CO2 dalam Produksi Embrio Secara In Vitro. Laporan hibah Bersaing XI.
- Jimenez-Macedo A.R, Paramino M.T, Anguita B, Morato, R, Romaguera R. 2007. Effect of ICSI and embryo biopsy on embryo development and apoptosis according to oocyte diameter in prepubertas goats. *Theriogenology* 67:1339-1408.
- Johnson, M.H. dan B.J. Everitt, 1988. *Essential Reproduction*. Third Edition. Blackwell Sci. publ. London.
- Krisher, R. L., A. M. Brad, J. R. Herrick, M. L. Sperman, dan J. E. Swain. 2007. A comparative analysis of metabolism and viability in porcine oocytes during in vitro maturation. *Anim. Reprod. Sci.* 98:72-96.
- Kusriningrum, R.S. 2011. *Buku Ajar Perancangan Percobaan*. Dani Abadi. Surabaya.
- Lanzerdorf, S., P.M. Gliesman, A.E. Archibong, M. Alexander, dan D.P. Wolf. 1990. Collection and Quality of Rhesus Monkey Semen Molecular. : 67 - 66.
- Liben, P. 2003. *Fungsi Estrogen dalam Seminar Fitoestrogen*. Laboratorium Faal Fakultas Kedokteran. Universitas Airlangga. Surabaya.
- Murasawa, M, T. Takahashi, H. Nishimoto, S. Yamamoto, S. Hamano & M. Tetsuka. 2005. Relationship Between Ovarian Weight and Follicular Population in Heifers. *Jurnal of Reproduction and Development* :689-93.

- Ongeri, E.M., Bormann C.L, Butler R.E, Melican D, Gavin W.G, Echelard Y, Krisher R.L, Behboodi E. 2001. Development of Goat Embryos After In Vitro Fertilization and Parthenogenetic Activation by Different Methods. *Theriogenology* 55:1933-1945.
- Palazs, A.T., J. Thundathil, R.E. Verrall, dan R.J. Mapletoft. 2000. The Effect of Macro Molecular Supplementation On The Surface Tension of TCM-199 and The Utilization of Growth Factors by Bovine Oocytes and Embryos in Culture. *Sci.* 58: 229-240.
- Pawshe, C.H, Totey S.M. 2003. *In vitro* Maturation, Fertilization and Embryo Development of Goat Oocytes . *Ind J Anim Sci.* 73:615-619.
- Pawshe, C.H., Totey, S.M., dan Jain, S.K., 1994. A Comparison of Three Methods of Recovery of Goat for in vitro Maturation and Fertilization. *Theriogenology.* 42:117- 125.
- Prentice-Biensch, J.R, Singh, J., Alfoteisy, B., Anzar, M. 2012. A Simple and High-Throughput Method to Assess Maturation Status of Bovine Oocytes: Comparison of Anti-lamin A/C-DAPI with an Aceto-orsein Staining Rechnique. *Theriogenology.*
- Rahman, ANMA, Abdullah R.B, Wan Khadijah W.E. 2007. Goat embryo development from in vitro matured goat oocytes of heterogenous quality through intracytoplasmic sperm injection techniques. *Biotechnology* 6:373-382.
- Rahman, A., Abdullah R.B., dan Wan Khadijah W.E., 2008. *In vitro* Maturation of Oocytes With Special Reference to Goat: A review. *Biotechnology* 7(4):599-611.
- Rensis, F.D., 2001. The Control of Reproduction in Dairy Cow. Animal Departement of Health, Medicine Faculty Veterinary, Parma.
- Rho, G.J, Hahnel A.C, Betteridge KJ. 2001. Comparisons of oocyte maturation times and of three methods of sperm preparation for their effect on the production of goat embryos *in vitro.* *Theriogenology* 56:503-516.
- Romar, R., Funahashi H. 2006. In vitro maturation and fertilization of pocine oocytes after a 48 h culture in roscovitine, an inhibitor of p34cdc2/cyclin B kinase. *Anim Reprod Sci.* 92:321-333.

- Senthilkumaran, B., Yoshikumi M, Nagahama Y. 2004. A Shift in Steroidogenesis Occuring in Ovarian Follicles Prior To Oocyt Maturation. *Biol Reprod* 215 : 11-18.
- Setiadi M.A, 1999. *Kapasitas Perkembangan Oosit Babi yang Dimatangkan Secara In Vitro pada Medium Tanpa Suplemen Serum*. Prosiding Seminar Nasional Peternakan dan Veteriner. 292-296.
- Shamsuddin, M.B., H.R. Larrison, dan Martinez, 1993. Maturation Related Changes in Bovine Oocytes Under Different Culture Condition. *J. Anim. Reprod. Sci.*31: 49-58.
- Sukra, Yuhara, (2000), *Wawasan Ilmu Pengetahuan Embrio : Benih Masa Depan*, Direktorat Jendral Departemen Pendidikan Nasional : Jakarta.
- Susilorini T.E, Kuswati N. (2003). "Penggunaan Serum Sapi, Cairan Folikel Dan Ekstrak Hipofise Dalam TCM-199 Untuk Maturasi Oosit Sapi".*Jurnal Ilmu–Ilmu Hayat (Life Sciences)*. 15: 53-58.
- Shirazi A., Sadeghi N. 2007. The effect of ovine oocyte diameter on nuclear maturation. *Small Rum Res*. 69:103-107.
- Tang M., Vanderhyden B.C dan Armstrong D.T. 1995. Role of Cumulus Cell and Serum on The In Vitro Maturation, Fertilization and Subsequent Development of Rat Oocytes. *Biol. Reprod*. 40: 720-728.
- Taya, K., H. Kaneko, T. Takedomi, H. Kishi dan G. Watanabe. 1996. Role of Inhibin in The Regulation of FSH Secretion and Folliculogenesis in Cow. *An. Reprod. Sci.*, 42: 563-570.
- Telfer, D.J. dan R.S. Sharpley. 2008. *Tourisme and Development in The Development in The USA and Canada* by Routledge, 270 Madison Ave, New York.
- Thomas C., Joanna MB. 2002. *Clinical Anatomy & Fisiologi for Veterinary technicians*. United State of America: Mosby, Inc.
- Velilla E., Lopez-Bejar M., Rodriguez-Gonzalez E., Vidal F., Paramio M.T. 2002. Effect of Hoechst 33342 staining on developmental competence of prepubertal goat oocytes. *Zygote* 10:201-208.
- Wattimena J. dan Saija M.E. 2005. Pengaruh Jenis Hormon terhadap Tingkat Maturasi Oosit Domba In Vitro. *Animal Production*. 7: 194-197.

- Widjiati, Bambang P.S., Maslichah M., Epy M.L., 2011. Embriologi. Airlangga University Press. Surabaya.
- Wildan Yatim, 1994. Reproduksi & Embryologi untuk Mahasiswa Biologi & Kedokteran. Edisi 3. Bandung: Penerbit Tarsito. hal. 28-43.
- Woudenberg A.R.B., Van Tol H.T.A., Roelen B.A.J., Colenbrander B, dan M. Bevers. 2004. Estradiol and Its Membrane-Impermeable Conjugate (Estradiol-Bovine Serum Albumin) During In Vitro Maturation of Bovine Oocytes: Effects on Nuclear and Cytoplasmic Maturation, Cytoskeleton, and Embryo Quality. *Biology of Reproduction*. 70: 1465-1474.