

## เอกสารอ้างอิง

- ธาดา สืบหลินวงศ์ และนวลทิพย์ กมลวารินทร์. 2537. ชีวิตเคมีทางการแพทย์. คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย. 224 หน้า
- ปรารธนา พฤษะศรี. 2527. การเลี้ยงโคขุน. โรงพิมพ์ศูนย์ส่งเสริมและฝึกอบรมการเกษตรแห่งชาติ 226 หน้า.
- วีระศักดิ์ วงศ์ศรีแก้ว. 2525. การผสมเทียม. คณะสัตวแพทย์ มหาวิทยาลัยขอนแก่น. 95 หน้า.
- ศรีสุวรรณ ชมชัย. 2531. คู่มือปฏิบัติการผสมเทียมในสุกร. ภาควิชาสัตวบาล มหาวิทยาลัยเกษตรศาสตร์ กำแพงแสน นครปฐม. 234 หน้า.
- สุจินต์ สิมารักษ์ และเทวินทร์ วงษ์พระลับ. 2529. คู่มือปฏิบัติการสืบพันธุ์สัตว์เลี้ยง. ภาควิชาสัตวศาสตร์ คณะเกษตรศาสตร์ มหาวิทยาลัยขอนแก่น. 234 หน้า.
- สุรัชย์ สุวรรณลี. 2538. ผลของสารกระตุ้นการเคลื่อนที่ของอสุจิต่อคุณภาพน้ำเชื้อหลังการละลายและการผสมติดของน้ำเชื้อแช่แข็งในโค. วิทยานิพนธ์ปริญญาวิทยาศาสตรมหาบัณฑิต. 107 หน้า.
- Ahmad, K. and R.H. Foote. 1986. Post-thaw survival and fertility of frozen bull spermatozoa treated with antibiotics and detergent. J.Dairy Sci. 69 : 535.
- Aitken, R.J., F. Best., D.W. Richardson, R. Schats and G. Simm. 1983. Influence of caffeine on movement characteristics, fertilizing capacity and ability to penetrate cervical mucus of human spermatozoa. J.Reprod.Fert. 67 : 19.
- Alfens, N.F. and Hunter, A.G. 1992. Effect of temperature (37°C or 39°C) on bovine *in vitro* bovine culture on subsequent cleavage. J. of Anim. Sci. 70 (suppl. 1), 252 (Abs. 458).
- Bavister, B.D. 1986. Animal *in vitro* fertilization and embryo developmental. Biology, Vol 4, Manipulation of Mammalian Development. Plenumfree, London. pp. 81-148.
- Bearden, H.J. and J. Fuquay. 1984. Applied animal reproduction. Reston publishing company, Inc, Reston, Verginia.
- Brackett, B.G., J.A. Mills, G. Oliphant. H.K. Seitz, Jr., G.G. Jaihes, Jr., and L. Mastroined. 1972. Preliminary effects to capacitate sperm *in vivo*. Int. J. Fertility. 17 : 86.
- Cai, Y., and J.J. Marik. 1989. Improving penetrating capacity of spermatozoa with poor motility by addition of caffeine at coincubation with zona-free hamster ova. Fert, Steril. 51 : 719.

- Chang, M.C. 1951. Fertilizing capacity of spermatozoa deposited into the fallopian tube. *Nature*. 168 : 697-698.
- Christopherson, B.O. 1968. The inhibitory effect of reduced glutathione on the lipid peroxidation of microsomal fraction and mitochondria. *Biochem. J.* 106 : 515-522.
- Cotran, R.S., Kumar, V. and Robbins, S.L. 1989. *Pathologic Basis of Diseases*, 4th edn. W.B. Saunders Co., Philadelphia, PA, pp 9-16.
- Cross, N.L., and Meizel, S. 1989. Methods for evaluating the acrosomal status of mammalian sperm. *Biology of Reproduction*. 42 : 18-19.
- Crozet, N., and Dumont, M. 1984. The site of the acrosome reaction during *in vivo* penetration of the goat. *Gamete Research* 14, 65-73.
- Crozet, N. 1984. Ultrastructural aspect of *in vivo* fertility in the cow. *Gamete Research* 10, 241-251.
- El-Godfary M.N., A.H. Duader and A. Ziedun. 1990. Effect of caffeine on bull semen sperm penetration cervical mucus. *Anim. quality and Reprod. Sci.* 23 : 13.
- Fattauh. E.S.M. and M.S.S. Abdou. 1991. Effect of caffeine on the post-thaw motility of buffalo spermatozoa. *Therio genology*. 36 : 1490.
- Footle, R.H. 1976. Fertility of bull semen frozen with  $\beta$ -amylase,  $\beta$ -glucuronidase, and catalase. 59 : 2014-2016.
- Gordon, I. 1996. *Laboratory Production of Cattle Embryo*. 160 p.
- Gupta, H.P. and Tripathi, S.S. 1984. Preservation of semen from Red Dane bull with different room temperature dilutors. *Indian J. Anim. Sci.*, 54 : 494-497.
- Hafez, E.S.E. 1974. Gamete transport. page 134-252 in *Reproduction in farm animals*. 3rd ed. - E.S.E. Hafez, ed. Lea and Febiger, Philadelphia, PA.
- Hafs, H.D., L.J. Boyd, S, Cameron, and F. Dombroske. 1969. Fertility of bull semen with amylase and polymyxin. *A.i. Digest* 17: 8
- Hafs, H.D., L.J. Boyd, S, Cameron, W.L. Johnson, and A.G. Hunter, 1971. Fertility of bullsemen with added beta-glucuronidase. *J. dairy Sci.* 54 : 420.
- Jones, R. and Mann, T., 1977. Toxicity of exogenous fatty acid peroxide towards spermatozoa. *J. Reprod. Fertil.*, 50 : 225-260.

- Jones, R. and Mann, T., 1973. Lipid peroxidation in spermatozoa. *Proc. R. Soc. London, Ser. B*, 184 : 103-107.
- Juang, H.H., A.I. Musah and L.L. Anderson. 1990. Ethylene diaminetetra aceticacid (EDTA) and caffeine are antagonistic to antirelaxin serum inhibition of norcine sperm motility. *Anim. Reprod. Science.* 22 ; 253.
- Levin, R.M., S.H. Green berg and A.I. Wein. 1981. quantitative analysis of the effects of caffeine in sperm motility and cyclic Adenosine 3'; 5' - Monophosphate (AMP) phosphodiesterase . *fert. steril.* 36 ; 798.
- Mann, T., Jones, R. and Sherins, R., 1980. Oxygendamage, lipid peroxidation and motility of spermatozoa. In : A. Steinberg and E. Steinberg(Editors), *Testicular development, sturcture and Function.* Raven Press, New York, pp. 497-501.
- Mann, T. 1964. *The Biochemistry of semen and of the Male Reproduction .* Tract. London, Methuen
- Mann, T. 1967. sperm metabolism. infertilization. G. B. Metz and A. monrog (eds.), New York, Academic Press.
- Mann, T. 1969. physiology of sperm and of the Male Reproductive. Tract. In *Reproduction in Domestic Animal.* 2nd Ed. H.H. cole and P T. Cupps (eds.), New:York, Acudemic Press, pp. 277-312.
- Meister, A. and Anderson, M.E., 1983. Glutathione. *Ann. Rev, Biochem.*, 52 : 711-760.
- Moussa, M.M. 1983. caffeine and sperm motility. *Frt. steril.* : 845.
- Peterson, R.N., D. seyler, D. Bundman. and M. Freund. 1979. The effect of theophylline and dibutyryl cyclic AMP on the uptake of radio cactive calcium and phosphate ion by boar and human spermatozoa. *J. Reprod. fert.* 55 : 385.
- Rall, T.W. 1985. Evolution of the machanism of action of methyxanthines. form culcium mobilizers to antagonists of adenosin receptors. *pharmacologist.* 24 : 277.
- Ree, J.M, W.C. L. ford and M.G. R. Hull. 1990. Effect of caffeine and pentoxifyline on the motility and metabolism of human. spermatozoa. *J. Reprod. Fert.*
- SAS. Institute Inc. 1985. *SAA User's Guids, Statistics, Version6.* Edition cary. N,C.
- Salisbury, G. W. and Eudge, J.R. 1962. Metabolism of spermatozoa. *advances in enzymology* 24, 35-104.

- Schoenfeld, C.F., R.D. Amelar and L. Dubin. 1975. Stimulation of ejaculated human spermatozoa by caffeine. *Fertil. Steril.* 26 : 158.
- Schoff, P.K. and H.A. Lardy. 1987. Effects of Fluoride and caffeine on the Metabolism and motility of ejaculated bovine spermatozoa. *Biol. Reprod.* 37 : 1037.
- Senger P.L., J.R. Mitchell and J.O. Almquist. 1983. Influence of cooling rate and extenders upon post thaw viability of bovine spermatozoa Pachayed in 25 - and 5 ml French straws. *J. Anim. Sci.* 56 : 1261
- Shannon, P., Curson, B., Pitt, C.J. and Lai, K.C. 1983. Effect of various fraction of egg yolk, BSA and ovulbumin on sperm motility and effect of storage on restoration of motility. *N.Z. J. Agric. Res.* 26 ; 297-302.
- Sign, P. and V.S. Ruina. 1994. effect of caffeine on sperm motility of buffalo bull semen at refrigeration temperature (4-7 ° C) Page 405-407 in proc. of the first asia buffalo association congress. M. Wanaput and Ksummart, ed. Khon Kaen Thailand.
- Sinha, M. P. A., h. sinha, B.K singh and R.L. Prasad. 1996. The effect of glutathione on the motility, enzyme leakage and fertility of frozen goat semen. 41 ; 237-243.
- Slaweta, L., 1973 Wpływ dodatku glutation zredukowanego cysteiny do nasienia mrozonogona jego Zdolność zapładniajaca. *Medycyna. wet.*, 29 ; 11-12.
- Slaweta, R. and Laskowska, T., 1987. The effect of glutathione on the motility and fertility of frozen bull semen. *Anim. Reprod. Sci.*, 13 ; 249-253.
- Steel, R.G.D. and J.H. Torrie : 1980. Principle and procedures of statistics. 2nd ed. Mc Graw-Hill. New York, NY.
- Storey, B. T., Hourani, C. and Kim, J.B. 1992. A transient rise in intracellular  $Ca^{2+}$  is a precursor reaction to the Zona pellucida - included acrosome reaction in Mouse sperm and is blocked by the included acrosome reaction inhibitor 3- quinuclidinyl benzilate. *Molecular Reproduction and Development* 332, 41-50.
- White, I.G. and Macleod, J. 1963. Composition and Dukelow, W.R. and Pinsker, M. c> 1967. Biochemistry and physiology of decapacitation factor. *J. Reprod. and fert. Suppl.* 2. 11-23.
- White, I.G., Belanger, L., Mough, S., Ellington, J. and Fote, R.H. 1992. Biochemical changes in bull spermatozoa during capacitation in vitro. *The riogenology* 37, 571-578.

Yanagimachi, R. 1990. Capacitation and the acrosome reaction. In : Asch, R.H., Balmaceda, J.P. and Johnston, J. (eds) Gamete physiology : Serona Symposia, USA, Norwell, Massachusetts, pp: 31-42.