

## เอกสารอ้างอิง

- กลุ่มสารสนเทศและข้อมูลสถิติ ศูนย์สารสนเทศ กรมปศุสัตว์. 2553. [ระบบออนไลน์]. แหล่งที่มา [http://www.dld.go.th/ict/th/index.php?option=com\\_Content&view=section&id=47&Itemid=125](http://www.dld.go.th/ict/th/index.php?option=com_Content&view=section&id=47&Itemid=125) (10 สิงหาคม 2554)
- ทัศนีย์ อภิชาติสร้างกุล. 2548. ระบบสืบพันธุ์ในสัตว์เลี้ยง. โรงพิมพ์ มิ่งเมือง, เชียงใหม่. 265 หน้า.
- บัญชา ชาตุชัย. 2552. เอกสารประกอบการเรียน วิชา 3503-2107 การผลิตสุกร(Swine Production). แผนกวิชาสัตวศาสตร์, วิทยาลัยเกษตรและเทคโนโลยีบูรีรัมย์, บูรีรัมย์. 40 หน้า.
- ประไพพรผล สิทธิกุล. 2554. เอกสารประกอบการสอน วิชา 03-240-302 การผลิตสุกร. สถาบันเทคโนโลยีราชมงคล. [ระบบออนไลน์]. แหล่งที่มา <http://coursesware.rmutl.ac.net/courses/110/unit000.html> (13 มิถุนายน 2554).
- พงศ์พิชาญ สุคนธนิทย์. 2554. สายพันธุ์สุกร. [ระบบออนไลน์]. แหล่งที่มา <http://www.thaifeed.net/animal/swine/swine-3.html> (11 สิงหาคม 2554).
- เรืองวิทย์ บรรจงรัตน์, วรรุติ จุพาลักษณานุกูล, พรรณิ ชิโนรักษ์, ปิยบุตร เต็มชัย, จร อุดมยิ่ง และอลงกุล แทนออมทอง. 2542. พันธุศาสตร์เซลล์ของสุกรที่เป็น โรคไส้เลื่อน (Cytogenetics of Hernia Swine). สุกรศาส. 24: 65-71.
- วสันต์ จันทรารัตน์, ปราณี ลีชันนชัย และ วาสนา ศิริรังสี. 2539. วิทยาการทันสมัยในการตรวจวินิจฉัยโรค โไม โโซมและบีน. ภาควิชาจุลชีววิทยาคลินิก, คณะเทคนิคการแพทย์ มหาวิทยาลัยเชียงใหม่. 476 หน้า.
- ศักดิ์ชัย เเดชตรัตน์. 2553. ภูมิคุ้มกันวิทยา. แขนงวิชาภูมิคุ้มกันวิทยาคลินิก ภาควิชา เทคนิคการแพทย์ คณะเทคนิคการแพทย์, มหาวิทยาลัยเชียงใหม่, เชียงใหม่. 6.1- 6.15 หน้า.
- ใหม รัตนวรรักษ์. 2543. ระบบคอมพลีเมนท์ วิทยาภูมิคุ้มกันพื้นฐานและคลินิก. โรงพิมพ์ จุฬาลงกรณ์มหาวิทยาลัย, กรุงเทพฯ. 77- 92 หน้า.
- Abbal, M., C. Moennarid, A. Cambon-Thomsen, J. Tkaczuk, E. Ohayon and G. Mauff. 1987. A new BF variant (*BF SII*) with information for orientation of MHC class III genes. *Immunogenetics*. 26: 320-322.
- Alper, C.A, I. Goodkofsky and I.H. Lepow. 1973. The relationship of glycine-rich -glycoprotein to factor B in the properdin system and to the cobra factor-binding protein of huan serum. *J. Exp. Med.* 137: 424-37.

- Ambrus, J.L., M.G. Peters, A.S. Fauci and E.J. Brown. 1990. The Ba fragment of complement factor B inhibits human B lymphocyte proliferation. *J. Immunol.* 144: 1549-1553.
- Archibald, A.L., L. Bolund, C. Churcher, M. Fredholm, M.A. Groenen, B. Harlizius, K.T. Lee, D. Milan, J. Rogers, M.F. Rothschild, H. Uenishi, J. Wang and L.B. Schook. 2010. Pig genome sequence - analysis and publication strategy. *BMC Genomics.* 11: 438.
- Bertani, G.R., C.D. Gladney, R.K. Johnson and D. Pomp. 2004. Evaluation of gene expression in Pigs selected for enhanced reproduction using differential display PCR: II. Anterior pituitary. *J. Anim. Sci.* 82: 32-40.
- Bot, J. 2000. MHC Studies Relating To Parasite Resistance In Merino Sheep. PhD Thesis. School of Biomedical Sciences. Curtin University of Technology.
- Braunschweig, M.H., A.A. Paszek, J.I. Weller, Y. Da, R.J. Hawken, M.B. Wheeler, L.B. Schook and L.J. Alexander. 2001. Generation and exploration of a dense genetic map in a region of a QTL affecting corpora lutea in a Meishan×Yorkshire cross. *Mamm. Genome.* 12: 719-723.
- Brown, E.O., S.A. Sundstrom, B.S. Komm, Z. Yi, C. Teuscher and C.R. Lytle. 1990. Progesterone regulation of estradiol-induced rat uterine secretory protein, complement C3. *Biol. Reprod.* 42: 713-719.
- Buhi, W.C., I.M. Alvarez and A.J. Kouba. 2000. Secreted proteins of the oviduct. *Cells Tissues Organs.* 166: 165-179.
- Buhi, W.C. and I.M. Alvarez. 2003. Identification, characterization and localization of three proteins expressed by the porcine oviduct. *Theriogenology.* 60: 225-238.
- Buske, B., C. Brunsch, K. Zeller, P. Reinecke and G. Brockmann. 2005. Analysis of properdin (BF) genotypes associated with litter size in a commercial pig cross population. *Anim. Breed. Genet.* 122: 259-263.
- Buske, B., I. Sternstein and G. Brockmann. 2006. QTL and candidate genes for fecundity in sows. *Anim. Reprod. Sci.* 95: 167-183.
- Caetano, A.R., R.K. Johnson, J.J. Ford and D. Pomp. 2004. Microarray profiling for differential gene expression in ovaries and ovarian follicles of pigs selected for increased ovulation rate. *Genetics.* 168: 1529-1537.

- Campbell D., P. Duchesne and L. Bernatchez. 2003. AFLP utility for population assignment studies: analytical investigation and empirical comparison with microsatellites. *Mol. Ecol.* 12: 1979–1991.
- Campbell, E.M.G., D. Nonneman and G.A. Rohrer. 2003. Fine mapping a quantitative trait locus affecting ovulation rate in pigs on chromosome 8. *J. Anim. Sci.* 81: 1706–1714.
- Campbell, R. D. 1987. The molecular genetics and polymorphism of C2 and factor B. *Br. Med. Bull.* 43: 37-49.
- Campbell, R.D. and R.R. Porter. 1983. Molecular cloning and characterization of the gene coding for human complement protein factor B. *Proc. Nat. Acad. Sci.* 80: 4464-4468.
- Cassady, J.P., R.K. Johnson, D. Pomp, G.A. Rohrer, L.D. van Vleck, E.K. Spiegel and K.M. Gilson. 2001. Identification of quantitative trait loci affecting reproductive in pigs. *J. Anim. Sci.* 79: 623-633.
- Chaplin, D.D., D.E. Woods, A.S. Whitehead, G. Goldberger, H.R. Colten and J.G. Seidman. 1983. Molecular map of the murine S region. *Proc. Natl. Acad. Sci. U S A.* 80: 6947–6951.
- Chen, K.F., L.S. Huang, N. Li, Q. Zhang, M. Luo and C.X. Wu. 2000. The genetic effect of estrogen receptor (*ESR*) on litter size traits in pig. *J. Genet Genomics.* 27: 853–857.
- Chen, L.H., L.X. Wang, Y.G. Ji, L.C. Zhang and H. Yan. 2009. Association of polymorphism for porcine *BF* gene with reproductive traits and placental efficiency in Large White. *Yi Chuan.* 31: 615-619.
- de Jorge, G., E., C. L. Harris, J. Esparza-Gordillo, L. Carreras, E.A. Arranz, C. A. Garrido, M. Lopez-Trascasa, P. Sanchez-Corral, B.P. Morgan and S.R. de Cordoba. 2007. Gain-of-function mutations in complement factor B are associated with atypical hemolytic uremic syndrome. *Proc. Nat. Acad. Sci. U S A.* 104: 240-245.
- de Koning, D.J., A.P. Rattink, B. Harlizius, M.A.M. Groenen, E.W. Brascamp and J.A.M. van Arendonk. 2001. Detection and characterization of quantitative trait loci for growth and reproduction traits in pigs. *Livestock Production Science.* 72: 185-198.
- DrögemÜller, C., H. Hamann and O. Distl. 2001. Candidate gene markers for litter size in different German pig lines. *J. Anim Sci.* 79: 2565-2570.

- Eldridge, F. E. 1985. Cytogenetic of livestock. The avi publishing. United State of America. pp. 298.
- Fahrenkrug, S.C., E.M. Campbell, J.L. Vallet and G.A. Rohrer. 2000. Physical assignment of the porcine erythropoietin receptor gene to SSC2. *Anim. Genet.* 31: 69–70.
- Frönicke, L., B.P. Chowdhary, H. Scherthan and I. Gustavsson. 1996. A comparative map of the porcine and human genomes demonstrates ZOO-FISH and gene mapping-based chromosomal homologies. *Mamm. Genome.* 7: 285-290.
- Gibson, J.P., Z.H. Jiang, J.A.B. Robinson, A.L. Archibald and C.S. Haley. 2002. No detectable association of the *ESR PvuII* mutation with sow productivity in a Meishan x Large White F2 population. *Anim. Genet.* 33: 448-450.
- Gladney, C.D., G.R. Bertani, R.K. Johnson and D. Pomp. 2004. Evaluation of gene expression in pigs selected for enhanced reproduction using differential display PCR and human microarrays: I. Ovarian follicles. *J. Anim. Sci.* 82: 17-31.
- Gold, B., J.E. Merriam, J. Zernant, L.S. Hancox, A.J. Taiber, K. Gehrs, K. Cramer, J. Neel, J. Bergeron, G.R. Barile, R.T. Smith, A.M.D. Genetics Clinical Study Group, G.S. Hageman, M. Dean and R. Allikmets. 2006. Variation in factor B (*BF*) and complement component 2 (*C2*) genes is associated with age-related macular degeneration. *Nat. Genet.* 38: 458-462.
- Goliášová, E. and J. Wolf. 2004. Impact of the *ESR* gene on litter size and production traits in Czech large white pigs. *Anim. Gen.* 35: 293-297.
- Goureau, A., M. Yerle, A. Schmitz, J. Riquet, D. Milan, P. Pinton, G. Frelat and J. Gellin. 1996. Human and porcine correspondence of chromosome segments using bidirectional chromosome painting. *Genomics.* 36: 252-262.
- Hasty, L.A., W.W. Brockman, J.D. Lambris and C.R. Lytle. 1993. Hormonal regulation of complement factor B in human endometrium. *Am. J. Reprod. Immunol.* 30: 63–67.
- Halnan, C. R. E. 1989. Cytogenetics of animal. CAB international. United Kingdom. pp. 519.
- Hamann, H., C. DrögemÜller, J. Krieter, U. Presuhn, J. Wallenburg and O. Distl. 2000. Genetic markers for litter size in German pig breeds. In: 51<sup>st</sup> Annual Meeting of the European Association of Animal Production, The Hague. 21–24 August 2000.

- Hance, R. T. 1917. The Diploid chromosome complexes of the pig (*Sus scrofa*) and their variations. *J. Morphol.* 30: 155-222.
- Hauptmann, G., M.M. Tongio, J. Klein, S. Mayer, J. Cinqualbre, B. Jeanblanc, R. Kieny, G. Mauff and G. Federmann. 1980. Le facteur B de la properdine: polymorphism, lieu de synthese et premier cas de deficit genetique. *Nouv. Presse. Med.* 9: 45.
- Hawken, R.J., J. Murtaugh , G.H. Flickinger , M. Yerle , A. Robic , D. Milan , J. Gellin , C.W. Beattie , L.B. Schook and L.J. Alexander . 1999. A first-generation porcine whole-genome radiation hybrid map . *Mamm. Genome.* 10: 824-30.
- Hiroooka, H., D.J. De Koning, B. Harlizius, J.A.M. Van Arendonk, A.P. Rattink, M.A.M. Groenen, E.W. Brascamp and H. Bovenhuis. 2001. A whole-genome scan for quantitative trait loci affecting teat number in pigs. *J. Anim. Sci.* 79: 2320–2326.
- Ihara, I., Y. Harada, S. Ihara and M. Kawakami. 1982. A new complement-dependent bactericidal factor found in nonimmune mouse sera: specific binding to polysaccharide of Ra chemotype *Salmonella*. *J. Immunol.* 128:1256-60.
- Isler, B.J., K.M. Invil, S.M. Neal, S.J. Moeller and M.E. Davis. 2002. Examination of the Relationship between the estrogen receptor gene and reproductive traits in swine. *J. Anim. Sci.* 80: 2334-2339.
- Jiang, L.H., F. Rassendren, V. Spelta, A. Surprenant and R.A. North. 2001. Amino acid residues involved in gating identified in the first membrane-spanning domain of the rat P2X2 receptor. *J. Biol. Chem.* 276: 14902–14908.
- Jiang, Z.H. and J.P. Gibson. 1998. Rapid communication: A PCR-RFLP marker at the porcine complement factor B gene locus show between-population frequency variation. *J. Anim. Sci.* 76: 1716-1717.
- Johnson, R.K., M.K. Mielsen and D.S. Casey. 1999. Responses in ovulation rate, embryonal survival and litter traits in swine to 14 generations of selection to increase litter size. *J. Anim. Sci.* 77: 541-557.
- King, A.H., Z. Jiang, J.P. Gibson, C.S. Haley and A.L. Archibald. 2003. Mapping quantitative trait loci affecting female reproductive traits on porcine chromosome 8. *Biol. Reprod.* 68: 2172-2179.

- Kim, T.H., N.S. Kim, D. Lim, K.T. Lee, J.H. Oh, H.S. Park, G.W. Jang, H.Y. Kim, M. Jeon, B.H. Choi, H.Y. Lee, H.Y. Chung and H. Kim. 2006. Generation and analysis of large-scale expressed sequence tags (ESTs) from a full-length enriched cDNA library of porcine backfat tissue. *BMC Genomics.* 7: 36.
- Korwin-Kossakowska, A., M. Kamyczek, D. Cieslak, M. Pierzchala and J. Kuryl. 2003. Candidate gene markers for reproductive traits in polish 990 pig line. *J. Anim. Breed. Genet.* 120: 181-191.
- Krallinger, H. F. 1931. Cytological studies on some domestic animal. *Arch. Tierernaehr. Tierz. Abt. B.* 5: 127-187.
- Lamberson, W.R., R.K. Johnson, D.R. Zimmerman and T.E. Long. 1991. Direct responses to selection for increased litter size, decreased age at puberty, or random selection following selection for ovulation rate in swine. *J. Anim. Sci.* 69: 3129–3143.
- Lee, Y. L., A.W.Y. Cheong, W.N. Chow, K.F. Lee and W.S.B. Yeung. 2009. Regulation of Complement-3 Protein Expression in Human and Mouse Oviducts. *Mol. Reprod. Dev.* 76: 301-308.
- Lee, Y.L., K.F. Lee, J.S. Xu, Q.Y. He, J.F. Chiu, W.M. Lee, J.M. Luk and W.S. Yeung. 2004. The embryotrophic activity of oviductal cell-derived complement C3b and iC3b, a novel function of complement protein in reproduction. *J. Biol. Chem.* 279: 12763–12768.
- Lin, C.L., S. Ponsuksili , E. Tholen , D.G Jennen , K. Schellander and K. Wimmers . 2006. Candidate gene markers for sperm quality and fertility of boar. *Anim. Reprod. Sci.* 92: 349-63.
- Li, N., Y.F. Zhao, L. Xiao, F.J. Zhang, Y.Z. Chen, R.J. Dai, J.S. Zhang, S.Q. Shen, Y.F. Chen and C.X. Wu. 1998. Candidate gene approach for identification of genetic loci controlling litter size in swine. In: *Proceeding of the 6th World congress of Genetic Applied to Livestock Production.* 11-16 January, 1998. Armidale, Australia, pp. 183-186.
- Li, S.H., H.L. Huang, and Y.H. Chen. 2002. Ovarian Steroid-Regulated Synthesis and Secretion of Complement C3 and Factor B in Mouse Endometrium During the Natural Estrous Cycle and Pregnancy Period. *Biol. Reprod.* 66: 322–332.
- Linville, R.C., D. Pomp, R.K. Johnson and M.F. Rothschild. 2001. Candidate gene analysis for loci affecting litter size and ovulation rate in swine. *J. Anim. Sci.* 79: 60-67.

- Nicholas, F.W. 1996. Introduction to Veterinary Genetics. Oxford University Press, New York, USA.
- Noguera J.L., L. Varona, R.L. Gomez, A. Sanchez and D. Babot. 2003. Estrogen receptor polymorphism in Landrace pigs and its association with litter size performance. *Livest. Prod. Sci.* 82: 53-59.
- Ollivier L., L.A. Messer, M.F. Rothschild and C. Legault. 1997. The use of selection experiments for detecting quantitative trait loci. *Genet. Res. Camb.* 69: 227-232.
- Orita, M., Y. Suzuki, T. Sekiya and K. Hayashi. 1989. Rapid and sensitive detection of point mutations and DNA polymorphisms using the polymerase chain reaction. *Genomics.* 5: 874-879.
- Peelman, L.J., A.R. Van de Weghe, W.R. Coppieters, A.J. Van Zeveren, Y.H. Bouquet. 1991. Cloning and sequencing of the porcine complement factor B. *Immunogenetics.* 34: 192-5.
- Peter, M.G., J.L. Ambrus, A.S. Fauci and E.J. Brown. 1988. The Bb fragment of complement factor B act as a B cell growth factor. *J. Exp. Med.* 168: 1225-1235.
- Petrova A. and R. Mehta. 2007. Dysfunction of innate immunity and associated pathology in neonates. *Indian J. Pediatr.* 185-191.
- Pinton, P., C. Delcros, N. Arnal, D. Milan and A. Robic. 2002. Generation and characterization of a 12,000-rad radiation hybrid panel for fine mapping in pig. *Cytogenet. Genome. Res.* 97: 219-228.
- Pinton P., L. Schibler, E. Cribiu, J. Gellin and M. Yerle. 2000. Localization of 113 anchor loci in pigs: improvement of the comparative map for humans, pigs and goats. *Mamm. Genome.* 11: 306-315.
- Ponsuksili S., K. Wimmers and K. Schellander. 2001. Application of differential display RT-PCR to identify porcine liver ESTs. *Gene.* 280: 75-85.
- Putnova L., A. Knoll, J. Dvorak and S. Cepica. 2002. A new- HpaII PCR-RFLP within the porcine prolactin receptor (*PRLR*) gene and study of its effect on litter size and number of teats. *J. Anim. Breed. Genet.* 119: 57-63.
- Qin J. , K. Munyard, C.Y. Lee, J.D. Wetherall and D.M. Groth. 2011. Characterization of the sheep Complement Factor B gene (*CFB*). *Vet. Immunol. Immunopathol.* 140: 170-174.

- Rathje T.A., G.A. Rohrer and R.K. Johnson. 1997. Evidence for quantitative trait loci affecting ovulation rate in pigs. *J. Anim. Sci.* 75: 1486-1494.
- Raum, D., D. Glass, C.B. Carpenter, P.H. Schur and C.A. Alper. 1979. Mapping for the structural gene for the second component of complement with respect to the human major histocompatibility complex. *Am. J. Hum. Genet.* 31: 35-41.
- Rettenberger, G., C. Klett, U. Zechner, J. Kunz, W. Vogel and H. Hameister. 1995. Visualization of the conservation of synteny between humans and pigs by heterologous chromosomal painting. *Genomics.* 26: 372-378.
- Rink, A., E.M. Santschi, K.M. Eyer, B. Roelofs, M. Hess, M. Godfrey, E.K. Karajusuf, M. Yerle, D. Milan and C.W. Beattie. 2002. A first-generation EST RH comparative map of the porcine and human genome. *Mamm. Genome.* 13: 578-587.
- Robic, A., J. Riquet , M. Yerle , D. Milan , Y. L. Mansais , C. D. Fontana and J. Gellin. 1996. Porcine linkage and cytogenetic maps integrated by regional mapping of 100 microsatellites on somatic cell hybrid panel. *Mamm. Genome.* 7: 438-45.
- Roehe, R., and BW. Kennedy. 1995. Estimation of genetic parameters for litter size in Canadian Yorkshire and Landrace swine with each parity of farrowing treated as a different trait. *J. Anim. Sci.* 73: 2959-70.
- Rohrer, G.A. 1999. Mapping four genes from human chromosome 4 to porcine chromosome 8 further develops the comparative map for an economically important chromosome of the swine genome. *Anim. Genet.* 30: 60–62.
- Rohrer, G.A. 2000. Identification of quantitative loci affecting birth characters and accumulation of backfat and weight in a Meishan-White composite resource population. *J. Anim. Sci.* 78: 2543–2547.
- Rohrer, G.A., J.J. Ford, T.H. Wise, J.L. Vallet and R.K. Christenson. 1999. Identification of quantitative trait loci affecting female reproductive traits in a multigeneration meishan-white composite pigs population. *J. Anim. Sci.* 77: 1385–1391.
- Rother, K. and G. O. Till. 1988. The *Complement System* (Eds). Springer-Verlag, Berlin. *Bull.* 43: 37-49.
- Rothschild, M.F. 1996. Genetics and reproduction in the pig. *Anim. Reprod. Sci.* 42: 143- 151.

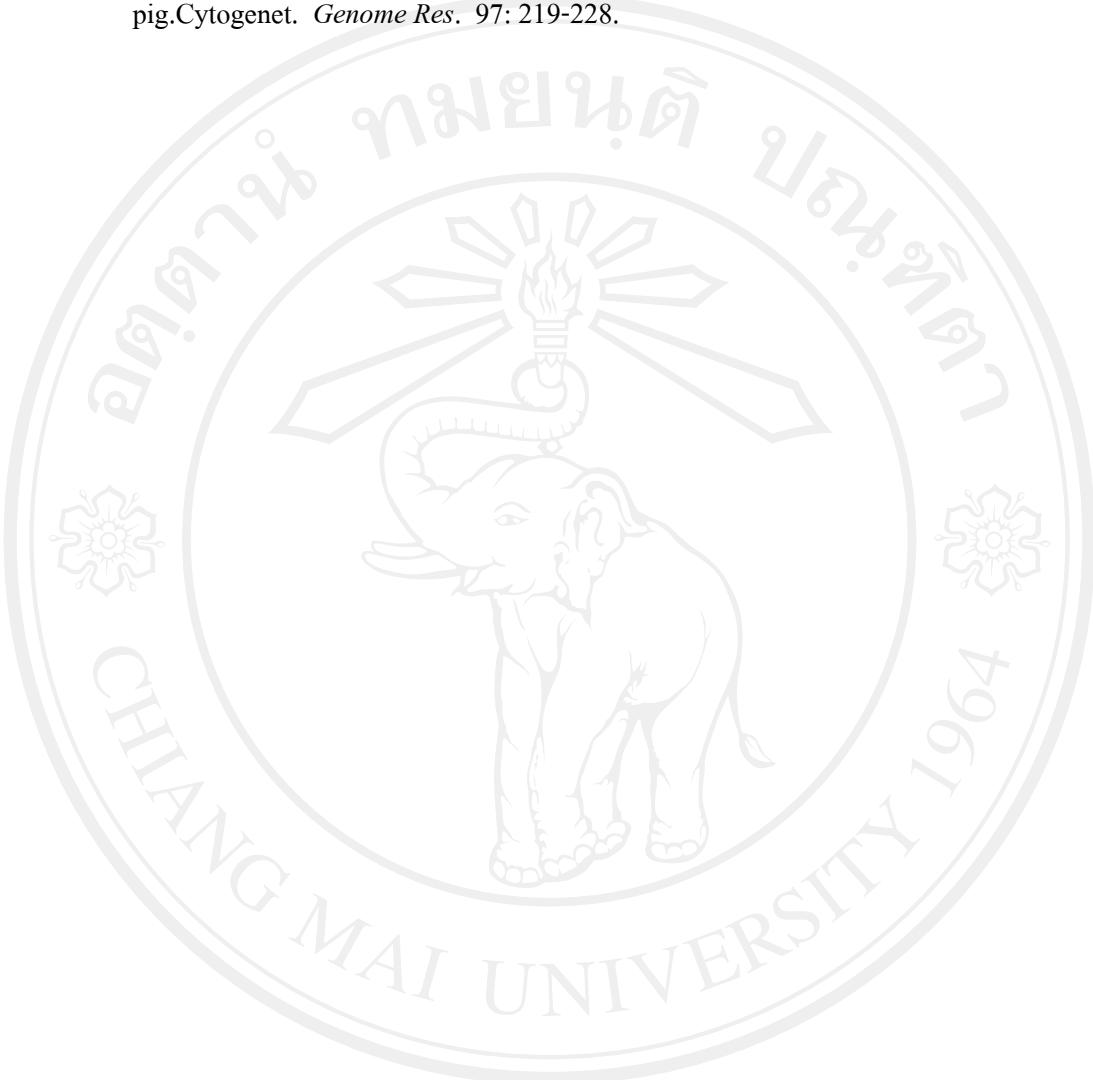
- Rothschild, M.F. 2004. Porcine genomics delivers new tools and results: This little piggy did more than just go to market. *Genet. Res. Camb.* 83: 1-6.
- Rothschild, M.F., A. Vincent, C.K. Tuggle, G. Evans, T.H. Short, O.I. Southwood, R. Wales and G.S. Plastow. 1998. A mutation in the prolactin receptor gene is associated with increased litter size in pig. In: *Proceedings of the 26<sup>th</sup> International Conference on Animal Genetics*. 9-14 August, 1998. Auckland, New Zealand, pp. 9-14.
- Rothschild M.F., C. Jacobson, D. Vaske, C. Tuggle, L. Wang, T. Short, G. Eckardt, S. Sasaki, A. Vincent, D. McLaren, O. Southwood, H. van der Steen, A. Mileham and G. Plastow. 1996. The estrogen receptor locus is associated with a major gene influencing litter size in pigs. *Proc. Natl. Acad. Sci. U S A.* 93: 201-205.
- Rothschild M.F., L. Messer, A. Day, R. Wales, T. Short, O. Southwood and G. Plastow. 2000. Investigation of the retinol-binding protein 4 (*RBP4*) gene as a candidate gene for increased litter size in pigs. *Mamm. Genome.* 11: 75-77.
- Rothschild, M. F., Z.L. Hu and Z. Jiang. 2007. Advances in QTL mapping in pigs. *Int. J. Biol. Sci.* 3: 192-7.
- Seeger, A., W.E. Mayer and J. Klein. 1996. A complement factor B-Like cDNA Clone form the Zebrafish (*Brachydanio Rerio*). *Mol. Immunol.* 33: 511-520.
- Schook, L.B., J.E. Beever, J. Rogers, S. Humphray, A. Archibald, P. Chardon, D. Milan, G.Rohrer and K. Eversole. 2005. Swine Genome Sequencing Consortium (SGSC): a strategic roadmap for sequencing the pig genome. *Comp. Funct. Genomics.* 6: 251-255.
- Short, T.H., M.F. Rothschild, O.I. Southwood, D.G. McLaren, A.D. Vries, H. Van der, G.R. Eckardt, C.K. toggle, J. Helm, D.A. Vaske, A.J. Mileham and G.S. plastow. 1997. Effect of estrogen receptor locus on reproduction and production traits in four commercial pigs line. *J.Anim. Sci.* 75: 3138-3142.
- Short, T.H., M.F. Rothschild, O.I. Southwood, D.G. McLaren, A. de Vries, H. van der Steen, G.R. Eckardt, C.K. Tuggle, J. Helm, D.A. Vaske, A.J. Mileham and G.S. Plastow. 1997a. Effect of the estrogen receptor locus on reproduction and production traits in four commercial pig lines. *J. Anim. Sci.* 75: 3138-3142.

- Short, T.H., O.I. Southwood, A.G. de Vries, D.G. McLaren, G.J. Evans, A.J. Mileham and G.S. Plastow. 1997b. Evidence of a new genetic marker for litter size in pigs. *J. Anim. Sci.* 75: 29.
- Spötter, A., C. DrögemÜller, H. Hamann and O. Distl. 2005. Evidence of a new leukemia inhibitory factor-associated genetic marker for litter size in a synthetic pig line. *J. Anim. Sci.* 83: 2264-2270.
- Spötter, A., C. DrögemÜller, H. Kuiper, B. Brenig, T. Leeb and O. Distl. 2001. Molecular characterization and chromosomal assignment of the porcine gene for leukemia inhibitory factor LIF. *Cytogenet. Cell Genet.* 93: 87-90.
- Spötter, A. and O. Distl. 2006. Genetic approaches to the improvement of fertility traits in the pig. *Vet J.* 172: 234-247.
- Southwood, O.I., T.H. Short and G.S. Plastow. 1998. Genetic markers for litter size in commercial lines of pig. In Haworth, L., Little, M. and Schmidt, I. (eds) *Proceedings of the 6<sup>th</sup> Word Congress on Genetics Applied to Livestock Production*. University of New England, Armidale, Australia, pp. 453-456.
- Southwood, O.I., T.H. Short, G.S. Plastow and M.F. Rothschild. 1999. A genetic marker for litter size in Landrace based pig lines. In: 50<sup>th</sup> Annual Meeting of the European Association of Animal Production, Zürich, 22–26 August 1999.
- Steinheuer, R., C. DrögemÜller, H. Hamann, K.U. Götz and O. Distl. 2003. Einfluss von Kandidatengeneffekten auf die Anzahl lebend geborener und aufgezogener Ferkel bei Besamungsebern der Deutschen Landrasse. *Züchtungskunde*. 75: 204–213.
- Stewart, C.L. 1994. Leukaemia inhibitory factor and the regulation of pre-implantation development of the mammalian embryo. *Mol. Reprod. Dev.* 39: 233–238.
- Stewart C.L., P. Kaspar, L.J. Brunet, H. Bhatt, I. Gadi, F. Köntgen and S.J. Abbondanzo. 1992. Blastocyst implantation depends on maternal expression of leukaemia inhibitory factor. *Nature*. 359: 76–79.
- Tauber, P.F., W. Wettich, M. Nohlen and L.J. Zaneveld. 1985. Diffusible proteins of the mucosa of the human cervix, uterus, and fallopian tubes: Distribution and variations during the menstrual cycle. *Am J Obstet Gynecol.* 151: 1115–1125.

- Tawadrous, H., T. Maga, J. Sharma, J. Kupferman, R. J. H. Smith and M. Schoeneman. 2010. A novel mutation in the Complement Factor B gene (*CFB*) and atypical hemolytic uremic syndrome. *Pediatr Nephrol.* 25: 947–951.
- Taylor, P.R., J.T. Nash, E. Theodoridis, A.E. Bygrave, M.J. Walport and M. Botto. 1998. A targeted disruption of the murine complement factor B gene resulting in loss of expression of three gene in close proximity, factor B, C2 and D17H6S45. *J. Biol. Chem.* 273: 1699-1704.
- Terman, A. 2005. Effect of polymorphism of prolactin receptor *PRLR* and leptin *LEP* gene on litter size in polish pig. *J. Anim. Breed. Genet.* 122: 400-404.
- Tse, P.K., Y.L. Lee, W.N. Chow, J.M. Luk, K.F. Lee and W.S. Yeung. 2008. Preimplantation embryos cooperate with oviductal cells to produce embryotrophic inactivated complement-3b. *Endocrinology*. 149:1268–1276.
- Tuggle, C.K., J.A. Green, C. Fitzsimmons, R. Woods, R.S. Prather, S. Malchenko, B.M. Soares, T. Kucaba, K. Crouch, C. Smith, D. Tack, N. Robinson, B. O'Leary, T. Scheetz, T.Casavant, D. Pomp, B.J. Edeal, Y. Zhang, M.F. Rothschild, K. Garwood and W. Beavis. 2003. EST-based gene discovery in pig: virtual expression patterns and comparative mapping to human. *Mamm. Genome.* 14: 565-579.
- Vallet, J.L., B.A. Freking, K.A. Leymaster and R.K. Christenson. 2005. Allelic variation in the secreted folate binding protein gene is associated with uterine capacity in swine. *J. Anim. Sci.* 83: 1860-1867.
- Vallet, J.L., B.A. Freking, K.A. Leymaster and R.K. Christenson. 2005. Allelic variation in the erythropoietin receptor gene is associated with uterine capacity and litter size in swine. *Anim. Genet.* 36: 97-103.
- Van der Lende, T. and B.T.T.M. Van Rens. 2003. Critical periods for foetal mortality in gilts I identified by analyzing the length distribution of mummified foetuses and frequency of non-fresh stillborn piglets. *Anim. Reprod. Sci.* 75: 141–150.
- Van Rens, B.T.T.M. and T. Van Der Lende. 2000. Efect of prolactin receptor (*PRLR*) gene polymorphism on litter size and placental traits in gilts. *J. Reprod. Fertil.* 26: 12.

- Van Rens, B.T.T.M., P.N. De Groot and T. Van der Lende. 2002. The effect of estrogen receptor genotype on litter size and placental traits at term in F2 crossbred gilts. *Theriogenology*. 57: 1635-1649.
- Vincent, A.L., G. Evans, T.H. Short, O.I. Southwood, G.S. Plastow, C.K. Tuggle and M.F. Rothschild. 1998. The prolactin receptor gene is associated with increased litter size in pig. In: *Proceeding of the 6<sup>th</sup> World congress of Genetic Applied to Livestock Production*. 11-16 January, 1998. Armidale, Australia, pp. 15-18.
- Wada, Y., T. Akita, T. Awata, T. Furukawa, N. Sugai, Y. Inage, K. Ishii, Y. Ito, E. Kobayashi, H. Kusumoto, T. Matsumoto, S. Mikawa, M. Miyake, A. Murase, S. Shimanuki, T. Sugiyama, Y. Uchida, S. Yanai and H. Yasue. 2000. Quantitative trait loci (QTL) analysis in a Meishan × Germanottingen cross population. *Anim. Genet.* 31: 376-384.
- Walsh, P.S., D.A. Metzger and R. Higuchi. 1991. Chelex 100 as a medium for simple extraction of DNA for PCR-based typing from forensic material. *Biotechniques*. 10: 506-513.
- Wang, X.P., L.X. Wang, R.Z. Luo and S.D. Sun. 2008. Analysis of *PRLR* and *BF* Genotypes Associated with Litter Size in Beijing Black Pig Population. *Agri. Sci.* 7: 1374-1378.
- Wilkie, P.J., A.A. Paszek, C.W. Beattie, L.J. Alexander, M.B. Wheeler and L.B. Schook. 1999. A genomic scan of porcine reproductive traits reveals possible quantitative trait loci (QTLs) for number of corpora lutea. *Mamm. Genome*. 10: 573-578.
- Winterø, A.K., M. Fredholm and W. Davies. 1996. Evaluation and characterization of a porcine small intestine cDNA library: analysis of 839 clones. *Mamm. Genome*. 7: 509-517.
- Wodasedalex, J.E. 1913. Spermatogenesis of the Pig with Special Reference to the Accessory Chromosome. *Biol. Bull.* 25: 1-8.
- Wu, L., M. F. Rothschild and C.M. Warner. 1995. Mapping of the SLA complex class III region by pulsed field gel electrophoresis. *Mamm. Genome*. 6: 607-610.
- Yasue, H., S. Mikawa, H. Uenishi, Y. Wada. 1999. Analysis of allele segregation distortion in a pigs resource family. *Anim. Biotechnol.* 10: 147-152.
- Yerle, M., P. Pinton, A. Robic, A. Alfonso, Y. Palvadeau, C. Delcros, R. Hawken, L. Alexander, C. Beattie, L. Schook, D. Milan and J. Gellin. 1998. Construction of a whole-genome radiation hybrid panel for high-resolution gene mapping in pigs. *Cytogenet. Cell Genet.* 82: 182-188.

Yerle, M., P. Pinton, C. Delcros, N. Arnal, D. Milan and A. Robic. 2002. Generation and characterization of a 12,000-rad radiation hybrid panel for fine mapping in pig. *Cytogenet. Genome Res.* 97: 219-228.



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