

**Endringer avhandlingens forside:**

~~doctor (ph.d.)~~ Doctor (PhD) avhandling  
Norges miljø- og biovitenskapelige universitet

Adamstuen 2014  
Veterinærfakultetet

Institutt for produksjonsdyrmedisin

Oslo 24. april 20

Avhandling nr 20XX:XX2015:43  
ISSN 1894-6402  
ISBN XXX-XX-XXX-XXXX-X978-82-575-1956-8

**Endringer avhandlingens referanseliste:**

- Baek, C., J. HansenMoller, C. Friis, C. Cornett, and S. H. Hansen. 1997. Identification of selected metabolites of skatole in plasma and urine from pigs. *J. Agric. Food Chem.* 45:2332-2340.
- Bonneau. 2009. Practice on castration of piglets in Europe. *Animal* 3[11], 1480-1487. The Animal Consortium.
- Klobucar, I., M. Kosec, N. Cebulj-Kadunc, and G. Majdic. 2003. Postnatal hypothyroidism does not affect prepubertal testis development in boars. *Reprod. Domest. Anim.* 38:193-198.
- Mutembei, H. M., S. Pesch, G. Schuler, and B. Hoffmann. 2005. Expression of oestrogen receptors alpha and beta and of aromatase in the testis of immature and mature boars. *Reprod. Domest. Anim.* 40:228-236.
- Schinckel, A., R. K. Johnson, R. A. Pumfrey, and D. R. Zimmerman. 1983. Testicular growth in boars of different genetic lines and its relationship to reproductive performance. *J. Anim. Sci.* 56:1065-1076.
- Thompson, D. L. 2000. Immunization against GnRH in male species (comparative aspects). *Anim. Reprod. Sci.* 60-61:459-469.
- Wise, T., L. D. Young, and W. G. Pond. 1993. Reproductive, endocrine, and organ weight differences of swine selected for high or low serum cholesterol. *J. Anim. Sci.* 71:2732-2738.
- Xue, J., G. D. Dial, E. E. Holton, Z. Vickers, E. J. Squires, Y. Lou, D. Godbout, and N. Morel. 1996. Breed differences in boar taint: relationship between tissue levels of boar taint compounds and sensory analysis of taint. *J. Anim. Sci.* 74[9], 2170-2177.
- Zamaratskaia, G., A. Madej, J. Babol, E. Squires, and K. Lundstrom. 2005b. Free oestrone in adipose tissue and its relation to androstenone and skatole in entire male pigs. *Reprod. Domest. Anim.* 40[2], 156-160.

## Endringer i Paper IV

Tabulatorinnrykk ble lagt til side 12 foran avsnittsskifte til:

"The ANOVA analysis of all (...)"

For å unngå linjeskift i overskriftrader til Cluster one Table 1 increased expression endret til increasing på følgende vis:

**Cluster one: HSA genes lower than reference week 12 increased  
expressionincreasing week 16-27**

**Cluster two: HSA genes lower than reference week 12-16 increasedincreasing week 20-27**

Sidetall som hadde falt ut etter tverrformat til Table 2 side 21, ble gjenopprettet. Derved ble sidetall på side 22-36 lagt til midt på nederst på sidene.

I referanselisten til Paper IV ble enkelte store første-bokstaver i publikasjonenes titler endret til små førstebokstaver. I tillegg ble enkelte første-bokstaver i journalnavn endret på lignende vis til store første-bokstaver. Ordene med endringer i forbokstav er fargemerket:

## Reference List

**Aspberg A and Tottmar O 1992. Development of antioxidant enzymes in rat brain and in reaggregation culture of fetal brain cells. Brain research. Developmental brain researchBrain Research. 66, 55-58.**

**Christenson LK and Strauss JF, 2000. Steroidogenic acute regulatory protein (StAR) and the intramitochondrial translocation of cholesterol. Biochimica et biophysica actaBiophysica Acta 1529, 175-187.**

**de Melker AA, van der Horst G and Borst J 2004. c-Cbl directs EGF receptors into an endocytic pathway that involves the ubiquitin-interacting motif of Eps15. Journal of cell scienceCell Science 117, 5001-5012.**

**Dragovic RA, Ritter LJ, Schulz SJ, Amato F, Thompson JG, Armstrong DT and Gilchrist RB 2007. Oocyte-secreted factor activation of SMAD 2/3 signaling enables initiation of mouse cumulus cell expansion. Biology of reproductionReproduction 76, 848-857.**

**Florcruz SV and Lapwood KR 1978. A Longitudinal Studylongitudinal-study of Pubertal Developmentpubertal development in Bearsboars - Investigation of Relationships Between**

[Gonadal relationships between gonadal and Epididymal Development](#) [epididymal development and Plasma Luteinizing Hormone](#) [plasma luteinizing-hormone](#) and [Testosterone Profile](#) [testosterone profiles](#). International Journal of Andrology 1, 317-330.

Franca LR, Silva VA, Jr., Chiarini-Garcia H, Garcia SK and Debeljuk L 2000. Cell [Proliferation](#) [proliferation](#) and [Hormonal Changes During Postnatal Development](#) [hormonal changes during postnatal development](#) of the [Testis](#) in the [Pig](#). Biology of reproduction [Reproduction](#) 63, 1629-1636.

Gentleman RC, Carey VJ, Bates DM, Bolstad B, Dettling M, Dudoit S, Ellis B, Gautier L, Ge Y, Gentry J, Hornik K, Hothorn T, Huber W, Iacus S, Irizarry R, Leisch F, Li C, Maechler M, Rossini AJ, Sawitzki G, Smith C, Smyth G, Tierney L, Yang JY and Zhang J 2004. Bioconductor: open software development for computational biology and bioinformatics. Genome [biology](#) [Biology](#) 5, R80.

Huang dW, Sherman BT and Lempicki RA 2009a. Bioinformatics enrichment tools: paths toward the comprehensive functional analysis of large gene lists. Nucleic acids research [Acids Research](#) 37, 1-13.

Huang dW, Sherman BT and Lempicki RA 2009b. Systematic and integrative analysis of large gene lists using DAVID bioinformatics resources. Nature [protocols](#) [Protocols](#) 4, 44-57.

Kagias K, Nehammer C and Pocock R 2012. Neuronal responses to physiological stress. Frontiers in genetics [Genetics](#) 3, 222.

Kanbara K, Mori Y, Kubota T, Watanabe M, Yanagawa Y and Otsuki Y 2011. Expression of the GABA receptor/chloride channel in murine spermatogenic cells. Histology and histopathology [Histopathology](#) 26, 95-106.

Kanbara K, Okamoto K, Nomura S, Kaneko T, Watanabe M and Otsuki Y 2010. The cellular expression of GABA(A) receptor alpha1 subunit during spermatogenesis in the mouse testis. Histology and [histopathology](#) [Histopathology](#) 25, 1229-1238.

Keber R, Rozman D and Horvat S 2013. Sterols in [Spermatogenesis](#) [spermatogenesis](#) and [Sperm](#) [sperm](#) maturation. The Journal of Lipid Research 54, 20-33.

Khan S, Teerds K and Dorrington J 1992. Growth factor requirements for DNA synthesis by Leydig cells from the immature rat. Biology of reproduction [Reproduction](#) 46, 335-341.

Klobucar I, Kosec M, Cebulj-Kadunc N and Majdic G 2003. Postnatal hypothyroidism does not affect prepubertal testis development in boars. Reproduction in [domestic animals](#) = [Domestic Animals](#) / Zuchthygiene 38, 193-198.

Le Roy C, Lejeune H, Chuzel F, Saez JM and Langlois D 1999. Autocrine regulation of Leydig cell differentiated functions by insulin-like growth factor I and transforming growth factor beta. The Journal of steroid biochemistry [Steroid Biochemistry](#) and [molecular biology](#) [Molecular Biology](#) 69, 379-384.

Manna PR, Chandrala SP, King SR, Jo Y, Counis R, Huhtaniemi IT and Stocco DM 2006a. Molecular mechanisms of insulin-like growth factor-I mediated regulation of the steroidogenic acute regulatory protein in mouse Leydig cells. *Molecular endocrinology* (Baltimore, Md.) 20, 362-378.

Mendis-Handagama SM and Siril Ariyaratne HB 2005. Leydig cells, thyroid hormones and steroidogenesis. *Indian journal of experimental biology* 43, 939-962.

Regueira M, Riera MF, Galardo MN, Pellizzari EH, Cigorraga SB and Meroni SB 2014. Activation of PPAR alpha and PPAR beta/delta regulates Sertoli cell metabolism. *Molecular and cellular endocrinology* 382, 271-281.

Revelli A, Massobrio M and Tesarik J 1998. Nongenomic actions of steroid hormones in reproductive tissues. *Endocrine reviews* 19, 3-17.

Schinckel AP, Johnson RK and Kittok RJ 1984. Testicular ~~Development~~ and ~~Characteristics~~ of ~~Bears Selected~~ for ~~Either High Or Low Testis Size~~. *Journal of Animal Science* 58, 675-685.

Sisk CL and Foster DL 2004. The neural basis of puberty and adolescence. *Nature neuroscience* 7, 1040-1047.

Tran S, Lamba P, Wang Y and Bernard DJ 2011. SMADs and FOXL2 synergistically regulate murine FSHbeta transcription via a conserved proximal promoter element. *Molecular endocrinology* (Baltimore, Md.) 25, 1170-1183.