

Literature list Animal genetics – health, behaviour and welfare 2021

1. Arvelius, P. 2014. Genetic evaluation of behaviour in dogs. *Acta Universitatis agriculturae Sueciae* 2014:59, 7-51.
2. Bishop, SC, Fleming, RH, McCormack, HA, Flock, DK and Whitehead, CC. 2000. Inheritance of bone characteristics affecting osteoporosis in laying hens. *British poultry science*, 41(1), 33-40.
3. Brito, LF., Oliveira, H.R., McConn, B.R., Schinckel, A.P., Arrazola, A., Marchant-Forde, J.N. and Johnson, J.S. 2020. Large-scale phenotyping of livestock welfare in commercial production systems: A new frontier in animal breeding. *Frontiers in Genetics*. 11:793.
<https://doi.org/10.3389/fgene.2020.00793>
4. Bishop, SC and Woolliams, JA. 2014. Genomics and disease resistance studies in livestock. *Livestock science*, 166, 190-198.
5. Brunberg, E, Rodenburg, B, Rydhmer, L, Kjaer, J, Jensen, P, Keeling, L. 2016. Omnivores Going Astray: A Review and New Synthesis of Abnormal Behavior in Pigs and Laying Hens. *Frontiers in Veterinary Science*, section Animal Behavior and Welfare 3:57. 15 pp.
<http://dx.doi.org/10.3389/fvets.2016.00057>.
6. König, S. and May, K. 2019. Invited review: Phenotyping strategies and quantitative-genetic background of resistance, tolerance and resilience associated traits in dairy cattle. *Animal*. 13:5. Pp 897-908. <https://doi.org/10.1017/s1751731118003208>
7. Dawkins, M.S., Layton, R. 2012. Breeding for better welfare: genetic goals for broiler chickens and their parents. *Animal Welfare* 21, 147-155.
8. Dodman, NH, Karlsson, EK, Moon-Fanelli, A, Galdzicka, M, Perloski, M, Shuster, L, Lindblad-Toh, K, Ginns, EI. 2010. A canine chromosome 7 locus confers compulsive disorder susceptibility. *Molecular Psychiatry* 15, 8-10.
9. Dohoo, I.R., 2014. Bias — Is it a problem, and what should we do? *Preventive veterinary medicine*, 113(3), 331-337.
10. Emanuelson, U. and Egenvall, A., 2014. The data – Sources and validation. *Preventive veterinary medicine*, 113(3), 298-303.
11. Grimsrud, KM, Nielsen, HM, Navrud, S, Olesen, I. 2013. Households' willingness-to pay for improved fish welfare in breeding programs for farmed Atlantic salmon. *Aquaculture* 372–375, 19–27.
12. Grandinson, K. 2005. Genetic background of maternal behavior and its relation to offspring survival. *Livestock Production Science* 93, 43-50.
13. Haskell, MJ, Simm, G, Turner, SP. 2014. Genetic selection for temperament traits in dairy and beef cattle. *Frontiers in genetics*. October 2014, vol 5, 368, 61-78.
14. Jensen, P. 2006. Domestication—from behaviour to genes and back again. *Applied animal behaviour science*, 97(1), 3-15.
15. Jensen, P. 2015. Adding 'epi-'to behaviour genetics: implications for animal domestication. *Journal of Experimental Biology*, 218(1), 32-40.
16. Jönsson, L., Näsholm, A., Roepstorff, L., Egenvall, A., Dalin, G. and Philipsson, J. 2014. Conformation traits and their genetic and phenotypic associations with health status in young Swedish warmblood riding horses. *Livestock Science* 163, 12–25.
17. Karlsson, E.K., Baranowska, I., Wade, C.M., Hillbertz, N.H.S., Zody, M.C., Anderson, N., Biagi, T.M., Patterson, N., Pielberg, G.R., Kulbokas, E.J. and Comstock, K.E., 2007. Efficient mapping of mendelian traits in dogs through genome-wide association. *Nature genetics*, 39(11), pp.1321-1328.

18. Knowles, T.G. and Wilkins, L.J., 1998. The problem of broken bones during the handling of laying hens - a review. *Poultry Science*, 77(12), pp.1798-1802.
 19. Leenstra, Napel, Visscher and Sambeek 2016. Layer breeding programmes in a changing production environment: a historic perspective. *World's poultry science Journal* 72, 21-35.
 20. Malm, S., Fikse, W.F., Danell, B. and Strandberg, E., 2008. Genetic variation and genetic trends in hip and elbow dysplasia in Swedish Rottweiler and Bernese Mountain Dog. *Journal of animal breeding and genetics*, 125(6), pp.403-412.
 21. Mattiello, S., Battini, M., Andreoli, E., Barbieri, S. 2011. Short communication: Breed differences affecting dairy cattle welfare in traditional alpine tie-stall husbandry systems. *J. Dairy Sci.* 94, 2403–2407.
 22. Muir, WM, Cheng, HW, Croney, C. 2014. Methods to address poultry robustness and welfare issues through breeding and associated ethical considerations. *Frontiers in genetics* Nov 2014, vol 5, article 407. Pp 93-103.
 23. Martin, W., 2014. Making valid causal inferences from observational data. *Preventive veterinary medicine*, 113(3), pp.281-297.
 24. O'Neill and Packer 2016. The first Canine behaviour and genetics conference: summary and recommendations for future directions in canine behavioural sciences. *Journal of Veterinary behavior* 16; 6-12.
 25. Rauw and Gomez-Raya 2015. Genotype by environment interaction and breeding for robustness in livestock *Frontiers in Genetics* 20 oct 2015 doi 10.3389/fgene.2015.00310.
 26. Rydhmer, L & Lundeheim, N. 2008. Breeding pigs for improved welfare. In: *Welfare of pigs – from birth to slaughter*. Eds: L Faucitano & AL Schaefer. Wageningen Academic Publishers. p 243-270.
 27. Sargeant, J.M. and O'Connor, A.M., 2014. Issues of reporting in observational studies in veterinary medicine. *Preventive veterinary medicine*, 113(3), pp. 323-330.
 28. Shrestha, M. 2017. Genetics of equine insect bite hypersensitivity and genetic diversity in horses. *Acta Universitatis agriculturae Sueciae* 2017:1, pages 13-65.
 29. Stryhn, H. and Christensen, J., 2014. The analysis—hierarchical models: past, present and future. *Preventive veterinary medicine*, 113(3), pp. 304-312.
 30. Tang, R., Noh, H.J., Wang, D., Sigurdsson, S., Swofford, R., Perloski, M., Duxbury, M., Patterson, E.E., Albright, J., Castelhana, M. and Auton, A., 2014. Candidate genes and functional noncoding variants identified in a canine model of obsessive-compulsive disorder. *Genome biology*, 15(3), p.R25.
 31. Van Laere, A.S., Nguyen, M., Braunschweig, M., Nezer, C., Collette, C., Moreau, L., Archibald, A.L., Haley, C.S., Buys, N., Tally, M. and Andersson, G., 2003. A regulatory mutation in IGF2 causes a major QTL effect on muscle growth in the pig. *Nature*, 425(6960), pp.832-836.
 32. Olsson, I. A. S., Gamborg, C., and Sandoe, P., 2006. *Journal of Agricultural and Environmental Ethics*, [LINK to pdf](#)
- (Full references will be included below)*
33. Ten years of next-generation sequencing technologies Goodwin et al 2016.pdf
 34. Genomic structure of MHC in horses Viluma et al 2017.pdf
 35. Obsessive-compulsive disorder evolutionary and regulatory Noh et al 2017.pdf
 36. WGS of a Canine Family Trio Hyperkeratosis Sayyab et al 2016.pdf
 37. Advances in understanding the genetics of pig behaviour Rydhmer .pdf
 38. Application simple rules Bourne & Chalupa.PDF
 39. Introduction to Statistical Methods in Quantitative Genetics and Breeding. E Strandberg. 2017

40. Video lecture: Preisinger, R. 2018. Future expectations of producers and consumers from poultry genetics. EAAP Dubrovnik, August 2018. [LINK Youtube](#)

Reference literature

- Appleby et al. (ed). 2011. Animal Welfare (2nd edition). CAB international. Hard copies in the SLU library.
- Jensen, P. 2009. The ethology of domestic animals, and introductory text. 2nd edition. CABI publishing. Hard copies at the SLU library.
- Oldenbroek, K, van der Waaij, L. 2015. Textbook Animal Breeding and Genetics for BSc students. Centre for Genetic Resources The Netherlands and Animal Breeding and Genomics Centre. <https://wiki.groenkennisnet.nl/display/TAB/>
- Pfeiffer, D. 2009. Veterinary epidemiology: an introduction. John Wiley & Sons. On canvas page.
- Rauw, W. M. (ed). 2016. Improving Animal Welfare Through Genetic Selection. Lausanne: Frontiers Media. doi: 10.3389/978-2-88919-883-2. On internet.
- Applied Breeding in Swedish Livestock Populations, 2016. Department of Animal Breeding and Genetic, SLU, Uppsala, Sweden.
- <http://animaethics.ku.dk/>. Animaethics.net aims to share insights and reflections regarding animal ethics and animal welfare. The key persons in charge of Animaethics.net are Peter Sandøe and Sara Kondrup at the University of Copenhagen, Denmark.