## Canine Behavioral Genetics: Recent studies and current project

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## References

Raffan, Eleanor, et al. "A deletion in the canine POMC gene is associated with weight and appetite in obesity-prone labrador retriever dogs." *Cell Metab* 23.5 (2016): 893-900.

Lit, Lisa, et al. "Characterization of a dopamine transporter polymorphism and behavior in Belgian Malinois." *BMC Genetics* 14.1 (2013): 45.

Lit, Lisa, et al. "Differences in behavior and activity associated with a poly (a) expansion in the dopamine transporter in Belgian Malinois." *PloS One* 8.12 (2013): e82948.

Persson, Mia E., et al. "Genomic regions associated with interspecies communication in dogs contain genes related to human social disorders." *Sci Rep* 6 (2016).

Zapata, Isain, James A. Serpell, and Carlos E. Alvarez. "Genetic mapping of canine fear and aggression." *BMC Genomics* 17.1 (2016): 572.

volHoldt, Bridgett M., et al. "Structural variants in genes associated with human Williams-Beuren syndrome underlie stereotypical hypersociability in domestic dogs." *Scientific Advances*, 19 Jul (2017)

## **Darwin's Dogs survey sources**

Goodloe, Linda P., and Peter L. Borchelt. "Companion dog temperament traits." *Journal of Applied Animal Welfare Science* 1, no. 4 (1998): 303-338.

Jones, Amanda Claire. "Development and validation of a Dog Personality Questionnaire." PhD diss., The University of Texas at Austin, 2008.

Lavan, R. P. "Development and validation of a survey for quality of life assessment by owners of healthy dogs." *The Veterinary Journal* 197, no. 3 (2013): 578-582.

Salvin, Hannah E., Paul D. McGreevy, Perminder S. Sachdev, and Michael J. Valenzuela. "The canine cognitive dysfunction rating scale (CCDR): a data-driven and ecologically relevant assessment tool." *The Veterinary Journal* 188, no. 3 (2011): 331-336.

Wright, Hannah F., Daniel S. Mills, and Petra MJ Pollux. "Development and Validation of a Psychometric Tool for Assessing Impulsivity in the Domestic Dog (Canis familiaris)." *International Journal of Comparative Psychology* 24, no. 2 (2011).

## Online resources

Darwin's Dogs: <u>www.darwinsdogs.org</u>

The Working Dog Project: <a href="https://www.workingdogproject.org">www.workingdogproject.org</a>

Embark: <u>www.embarkvet.com</u>