

Table S1. Number of articles identified by each judge (1 and 2)* according each combination of terms and their respective references.

Combinations of keywords	Number of articles	Article (publication year)
performance/GWAS/horse	18	Shröder et al. (2011b) [1] Tozaki et al. (2010) [2] Eriksson et al. (2016) [3] ² Trakovická et al. (2012) [4] Lewczuk et al. (2018) [5] Ricard et al. (2017) [6] Manson et al. (2018) [7] Pereira et al. (2019) [8] Staiger et al. (2016) [9] Frischknecht et al. (2016) [10] Pereira et al. (2018) [11] Tozaki et al. (2012b) [12] Shin et al. (2015) [13] Pereira et al. (2015) [14] Dupuis et al. (2011) [15] Meira et al. (2014b) [16] Boyko et al. (2014) [17] ¹ Gmel et al. (2019) (18) ¹
performance/genome-wide association/horse	21	Tozaki et al. (2012a) [19] Velie et al. (2018) [20] Meira et al. (2014a) [21] Shröder et al. (2011b) Tozaki et al. (2010) Trakovická et al. (2012) Schroder et al. (2011a) [22] Dupuis et al. (2012) [23] Lewczuk et al. (2018) Ricard et al. (2017) Lykkjen et al. (2013) [24] Staiger et al. (2016) Frischknecht et al. (2016) Brard and Ricard (2014) [25] Pereira et al. (2018) Tozaki et al. (2012b) Shin et al. (2015) Pereira et al. (2015) Meira et al. (2014b) Hendrickson (2013) [26] ¹

		McGivney et al. (2019) [27] ¹
exercise/GWAS/horse	7	Blott et al. (2014) [28] Ricard et al. (2017) Lykkjen et al. (2013) ² Dupuis et al. (2012) Lewis et al. (2017) [29] Gim and Kim (2016) [30] Bussiman et al. (2020) [31] ¹
exercise/genome-wide association/horse	7	McGivney et al. (2019) Ricard et al. (2017) Fritz et al. (2012) [32] Lewis et al. (2017) Valberg et al. (2011) [33] Blott et al. (2014) ¹ Bussiman et al. (2020) ¹
exercise/GWAS/Mangalarga marchador	1	Bussiman et al. (2020) ¹
exercise/genome-wide association/Mangalarga marchador	1	Bussiman et al. (2020) ¹

* Judges 1 and 2 are the researchers who performed the systematic review. (1) Maria del Pilar R. Rodriguez; (2) Thayssa O. Littiere. References with no superscript means that it was in common between judges.

Articles selected in the first step of the systematic review:

1. Schröder, W.; Klostermann, A.; Stock, K. F.; Distl, O. A genome-wide association study for quantitative trait loci of show-jumping in Hanoverian warmblood horses. *Anim. Genet.* **2011b**, 43, 392-400. [doi:10.1111/j.1365-2052.2011.02265.x]
2. Tozaki, T.; Miyake, T.; Kakoi, H.; Gawahara, H.; Sugita, S.; Hasegawa, T.; Ishida, N.; Hirota, K.; Nakano, Y. A genome-wide association study for racing performances in Thoroughbreds clarifies a candidate region near the MSTN gene. *Anim. Genet.* **2010**, 41, 28-35. [doi:10.1111/j.1365-2052.2010.02095.x]
3. Eriksson, S.; Viklund, Å.; Mikko, S. A genome-wide association study of young horse test traits in Swedish Warmblood. Proceedings of the 67th Annual Meeting of the EAAP, Belfast, Ireland, 2016, p.576.
4. Trakovická, A.; Gábor, M.; Miluchová, M.; Minarovič, T.; Štastná, D. Analysis of the Nebulin-Related Anchoring protein gene (NRAP) SNP polymorphism (C/T) in Slovak Warmblood horse by PCR-RFLP method. *Anim. Sci. Biotech.* **2012**, 45, 265-268.
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10. Frischknecht, M.; Signer-Hasler, H.; Leeb, T.; Rieder, S.; Neuditschko, M. Genome-wide association studies based on sequence-derived genotypes reveal new QTL associated with conformation and performance traits in the Franches-Montagnes horse breed. *Anim. Genet.* **2016**, 47, 227-229. [doi: 10.1111/age.12406]

11. Pereira, G.L.; Chardulo, L.A.; Silva, J.A.IV.; Faria, R.; Curi, R.A. Genomic regions associated with performance in racing line of Quarter Horses. *Livest. Sci.* **2018**, *211*, 42-51. [https://doi.org/10.1016/j.livsci.2018.02.015]
12. Tozaki, T.; Miyake, T.; Kakoi, H.; Gawahara, H.; Hirota, K.; Nakano, Y.; Kurosawa, M. Heritability estimates for racing performance in Japanese Thoroughbred racehorses using linear and non-linear model analyses. *J. Anim. Breed. Genet.* **2012b**, *129*, 402-408. [doi:10.1111/j.1439-0388.2011.00982.x]
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