

Supplemental Digital Content 1

PMID	Chr	Nearest Gene	SNP	P value (strength of Russian weightlifters)	FDR (Benjamini- Hochberg) altered alpha values for Russian weightlifters	P value (strength of Polish weightlifters)	P value (handgrip strength)	P value for three studies (meta- analysis)
29691431	6	<i>MLN</i>	rs12055409	0.004	0.005714286	NA	0.7541	0.043
29313844	10	<i>GBF1</i>	rs2273555	0.0099	0.011428571	NA	0.0026	6.34e-05
27325353	5	<i>ZNF608</i>	rs4626333	0.0338	0.017142857	0.0155	0.3871	0.0024
29313844	17	<i>HOXB3</i>	rs2288278	0.0609	0.022857143			
29691431	16	<i>CDH11</i>	rs12447992	0.0643	0.028571429			
29691431	6	<i>FKBPL</i>	rs41268905	0.0956	0.034285714			
29691431	6	<i>PRRC2A</i>	rs2260051	0.0994	0.04			
29691431	2	<i>TMEM18</i>	rs35142762	0.1	0.045714286			
29691431	11	<i>HSD17B12</i>	rs4755720	0.1574	0.051428571			
29691431	11	<i>BDNF</i>	rs11030104	0.1814	0.057142857			
27325353	1	<i>ATF3</i>	rs17019384	0.2105	0.062857143			
27325353	11	<i>PLEKHB1</i>	rs6590	0.2318	0.068571429			
29691431	15	<i>LOXL1</i>	rs62004866	0.2379	0.074285714			
29313844	1	<i>PEX14</i>	rs6687430	0.2726	0.08			
29691431	18	<i>MC4R</i>	rs11873305	0.4353	0.085714286			
29691431	1	<i>GNAT2</i>	rs17024393	0.4472	0.091428571			
29691431	19	<i>PVRL2</i>	rs4452060	0.4481	0.097142857			
29313844	12	<i>ERP27</i>	rs11614333	0.4825	0.102857143			
29691431	6	<i>TRIM27</i>	rs7755875	0.5126	0.108571429			
29313844	1	<i>GLIS1</i>	rs4926611	0.5172	0.114285714			

29691431	3	<i>CADPS</i>	rs9968060	0.535	0.12			
27325353	10	<i>BMS1L</i>	rs3121324	0.5668	0.125714286			
29691431	6	<i>LOC105374991</i>	rs12195114	0.5831	0.131428571			
27325353	8	<i>IMPAD1</i>	rs1508086	0.6141	0.137142857			
29691431	1	<i>TRMT1L</i>	rs6424971	0.6638	0.142857143			
29691431	14	<i>UNC79</i>	rs1951716	0.6676	0.148571429			
29691431	16	<i>ADCY9</i>	rs879620	0.7445	0.154285714			
29313844	2	<i>SLC8A1</i>	rs2110927	0.8338	0.16			
29691431	7	<i>ZKSCAN5</i>	rs3843540	0.8363	0.165714286			
29691431	5	<i>JADE2</i>	rs329120	0.8556	0.171428571			
29691431	4	<i>GNPDA2</i>	rs13130484	0.8632	0.177142857			
29691431	10	<i>MLLT10</i>	rs1243182	0.8956	0.182857143			
27325353	7	<i>FAM3C</i>	rs1528353	0.9103	0.188571429			
29691431	10	<i>MGMT</i>	rs1556659	0.9194	0.194285714			
27325353	12	<i>NINJ2</i>	rs1860614	0.9449	0.2			