Supplementary Table S13. The GWAS data about associations of the studied candidate genes polymorphisms with blood pressure/hypertension, some cardiovascular diseases and anthropometric characteristics

SNP of gene (position (hg38))	Phenotype	Association (significance) (affected allele)	Reference
rs1173771 *AC026703.1* (5: 32814922)	SBP	$\beta = 0.50$ ($p = 1.8\times10^{-16}$) (G)	International Consortium et al., 2011 [29]
	DBP	$\beta = 0.26$ ($p = 9.1\times10^{-12}$) (G)	
	Hypertension	$\beta = 0.06$ ($p = 3.2\times10^{-10}$) (G)	
	MAP	$\beta = 0.28$ ($p = 3.51\times10^{-9}$) (G)	Wain L. V., et al., 2011 [98]
	PP	$\beta = 0.28$ ($p = 4.56\times10^{-9}$) (G)	
	MAP	$\beta = -0.35$ ($p = 3.19\times10^{-8}$) (A)	Kato N., et al., 2015 [89]
	Hip circumference (sex-combined)	$\beta = 0.03$ ($p = 6.13\times10^{-13}$) (A)	Shungin D., et al., 2015 [95]
	Hip circumference (men)	$\beta = 0.03$ ($p = 6.19\times10^{-8}$) (A)	
	SBP	$\beta = -0.43$ ($p = 2.0\times10^{-28}$) (A)	Hoffmann T. J. et al., 2017 [33]
	PP	$\beta = -0.25$ ($p = 1.0\times10^{-21}$) (A)	
	DBP	$\beta = -0.19$ ($p = 8.0\times10^{-16}$) (A)	
	Height	$\beta = 0.04$ ($p = 9.0\times10^{-8}$) (A)	Tachmazidou I., et al., 2017 [96]
	SBP	$\beta = 0.51$($p = 3.20\times10^{-12}$) (G)	Wain L. V., et al., 2017 [34]
	PP	$\beta = 0.28$ ($p = 2.36\times10^{-9}$) (G)	
	SBP (smoking interaction) (European)	$p = 1.74\times10^{-38}$	Sung Y. J., et al., 2018 [35]
	DBP (smoking interaction) (European)	$p = 3.62\times10^{-22}$	
	SBP (smoking interaction) (trans-ethnic data)	$p = 8.25\times10^{-44}$	
	DBP (smoking interaction) (trans-ethnic data)	$p = 2.75\times10^{-28}$	
	SBP	$\beta = -0.42$ ($p = 4.19\times10^{-8}$) (A)	Takeuchi F., et al., 2018 [97]
	MAP	$\beta = -0.29$ ($p = 5.39\times10^{-8}$) (A)	
rs1799945 *HFE* (6: 26090951)	DBP	$\beta = 0.46$ ($p = 1.5\times10^{-15}$) (G)	International Consortium et al., 2011 [29]
	SBP	$\beta = 0.62$ ($p = 7.7\times10^{-12}$) (G)	
	Hypertension	$\beta = 0.10$ ($p = 1.8\times10^{-10}$) (G)	
	DBP	$\beta = -0.43$ ($p = 3.1\times10^{-16}$) (C)	Ehret G. B. et al., 2016 [32]
	SBP	$\beta = -0.60$ ($p = 3.28\times10^{-12}$) (C)	
	DBP	$\beta = -0.29$ ($p = 1.0\times10^{-18}$) (C)	Hoffmann T. J. et al., 2017 [33]
	SBP	$\beta = -0.36$ ($p = 4.0\times10^{-11}$) (C)	

	DBP	β =0.52 ($p = 9.2\times10^{-18}$) (G)	Liu C. et al., 2016 [31]
	MAP	β = 0.58 ($p = 1.0\times10^{-17}$) (G)	
	SBP	β = 0.70 ($p = 6.2\times10^{-13}$) (G)	
	Hypertension	Z score = 0.039 ($p = 3.7\times10^{-9}$) (G)	
	DBP (trans-ethnic data)	β = −0.03 ($p = 1.26\times10^{-19}$) (C)	Surendran P. et al., 2016 [30]
	DBP (European)	β = −0.03 ($p = 9.82\times10^{-10}$) (C)	
	DBP	β = 0.47 ($p = 8.87\times10^{-14}$) (G)	Wain L. V. et al., 2017 [34]
	SBP	β = 0.63 ($p = 7.63\times10^{-10}$) (G)	
	DBP (smoking interaction) (European)	$p = 1.51\times10^{-31}$	Sung Y. J. et al., 2018 [35]
	SBP (smoking interaction) (European)	$p = 8.46\times10^{-17}$	
	DBP (smoking interaction) (trans-ethnic data)	$p = 3.77\times10^{-33}$	
	SBP (smoking interaction) (trans-ethnic data)	$p = 7.43\times10^{-19}$	
rs805303 *BAG6/ BAT2-BAT5* (6: 31648589)	SBP	β = 0.37 ($p = 1.5\times10^{-11}$) (G)	International Consortium et al., 2011 [29]
	DBP	β = 0.23 ($p = 3.0\times10^{-11}$) (G)	
	Hypertension	β = 0.05 ($p = 1.1\times10^{-10}$) (G)	
	SBP (European)	β = −0.02 ($p = 3.02\times10^{-6}$) (A)	Surendran P. et al., 2016 [30]
rs932764 *PLCE1* (10: 94136183)	SBP	β = 0.48 ($p = 7.1\times10^{-16}$) (G)	International Consortium et al., 2011 [29]
	Hypertension	β = 0.06 ($p = 9.4\times10^{-9}$) (G)	
	SBP	β = −0.50 ($p = 6.88\times10^{-17}$) (A)	Ehret G. B., et al., 2016 [32]
	DBP	β = −0.22 ($p = 6.28\times10^{-10}$) (A)	
	SBP	β = −0.30 ($p = 1.0\times10^{-14}$) (A)	Hoffmann T. J. et al., 2016 [33]
	PP	β = −0.16 ($p = 3.0\times10^{-10}$) (A)	
	PP	β = 0.26 ($p = 5.67\times10^{-8}$) (G)	Wain L. V., et al., 2017 [34]
rs4387287 *OBFC1* (10:103918139)	DBP (European)	β= 0.22 ($p=5.55 \times 10^{-8}$) (A)	Surendran P. et al., 2016 [30]
	SBP (European)	β= 0.34 ($p=2.21 \times 10^{-7}$) (A)	
	DBP (trans-ethnic data)	β= 0.22 ($p=4.21 \times 10^{-10}$) (A)	
	SBP (trans-ethnic data)	β= 0.36 ($p=9.12 \times 10^{-10}$) (A)	
	Hypertension (trans-ethnic data)	Z score = 5.58 ($p = 2.37 \times 10^{-8}$) (A)	
rs633185 *ARHGAP42* (11:100722807)	SBP	β = −0.57($p = 1.2\times10^{-17}$) (G)	International Consortium et al., 2011 [29]
	DBP	β = −0.33($p = 2.0\times10^{-15}$) (G)	
	Hypertension	β = −0.07($p = 6.4\times10^{-11}$) (G)	

	SBP	$\beta = 0.52$ ($p = 6.97\times10^{-15}$) (C)	Ehret G. B., et al., 2016 [32]
	DBP	$\beta = 0.29$ ($p = 2.38\times10^{-12}$) (C)	
	SBP	$\beta = -0.49$ ($p = 1.0\times10^{-31}$) (G)	Hoffmann T. J. et al., 2016 [33]
	DBP	$\beta = -0.27$ ($p = 1.0\times10^{-26}$) (G)	
	PP	$\beta = -0.22$ ($p = 1.0\times10^{-15}$) (G)	
	SBP	$\beta = 0.52$ ($p = 8.43\times10^{-11}$) (C)	Wain L. V., et al., 2017 [34]
	DBP	$\beta = 0.27$ ($p = 2.33\times10^{-8}$) (C)	
	SBP x alcohol consumption interaction	$\beta = 0.54$ ($p = 2.24\times10^{-29}$) (C)	Feitosa M. F. et al., 2018 [84]
	MAP x alcohol consumption interaction	$\beta = 0.22$ ($p = 2\times10^{-12}$) (C)	
	MAP	$\beta = 0.39$ ($p = 2.56\times10^{-13}$) (C)	Takeuchi F., et al., 2018 [97]
	SBP	$\beta = 0.51$ ($p = 7.16\times10^{-12}$) (C)	
	DBP	$\beta = 0.33$ ($p = 8.93\times10^{-12}$) (C)	
	Hypertension	$\beta = 0.08$ ($p = 5.13\times10^{-10}$) (C)	
	Coronary artery disease	($p = 8.81\times10^{-9}$) (C)	Zhou W., et al., 2018 [99]
	High blood pressure and chronic obstructive pulmonary disease	($p = 1.18\times10^{-47)}$	Zhu Z., et al., 2019 [100]
	SBP (smoking interaction) (European)	$p = 8.44\times10^{-30}$	Sung Y. J., et al., 2018 [35]
	DBP (smoking interaction) (European)	$p = 2.68\times10^{-30}$	
	SBP (smoking interaction) (trans-ethnic data)	$p = 1.80\times10^{-40}$	
	DBP (smoking interaction) (trans-ethnic data)	$p = 1.18\times10^{-40}$	
	MAP	$\beta = 0.03$ ($p = 3.05\times10^{-50}$) (C)	Sakaue S. et al., 2021 [94]
rs7302981 *CERS5/AC074032.1* (12:50144032)	Hypertension	Z score = 6.23 ($p = 4.8 \times 10^{-10}$) (A)	Liu C. et al., 2016 [31]
	SBP	$\beta = 0.37$ ($p = 9.4 \times 10^{-15}$) (A)	
	DBP	$\beta = 0.25$ ($p = 9.4 \times 10^{-19}$) (A)	
	DBP (European)	$\beta = 0.25$ ($p = 1.38 \times 10^{-17}$) (A)	Surendran P. et al., 2016 [30]
	SBP (European)	$\beta = 0.34$ ($p = 6.06 \times 10^{-13}$) (A)	
	Hypertension (European)	Z score = 6.07 ($p = 1.28 \times 10^{-9}$) (A)	
	DBP (trans-ethnic data)	$\beta = 0.25$ ($p = 2.60 \times 10^{-19}$) (A)	
	SBP (trans-ethnic data)	$\beta = 0.35$ ($p = 9.94 \times 10^{-19}$) (A)	
	Hypertension (trans-ethnic data)	Z score = 6.17 ($p = 6.82 \times 10^{-10}$) (A)	
rs2681472 *ATP2B1* (12: 89615182)	DBP	$\beta = 0.50$ ($p = 1.47\times10^{-9}$) (A)	Levy D. et al., 2009 [91]
	Hypertension	$\beta = 0.15$ ($p = 1.75\times10^{-11}$) (A)	
	Coronary artery disease	OR = 1.08 ($p = 6.17\times10^{-11}$) (G)	Nikpay M., et al., 2015 [93]

	Myocardial infarction	OR = 1.08 ($p = 6.03\times10^{-9}$) (G)	
	MAP	$\beta = -0.59$ ($p = 1.1\times10^{-21}$) (G)	Liu C. et al., 2016 [31]
	SBP	$\beta = -0.85$ ($p = 1.3\times10^{-21}$) (G)	
	DBP	$\beta = -0.47$ ($p = 3.7\times10^{-17}$) (G)	
	Hypertension	$\beta = -0.033$ ($p = 3.5\times10^{-8}$) (G)	
	Coronary artery disease	OR = 1.07 ($p = 1\times10^{-21}$) (G)	Nelson C. P., et al., 2017 [92]
	SBP	$\beta = 0.72$ ($p = 1.06\times10^{-20}$) (A)	Takeuchi F., et al., 2018 [97]
	DBP	$\beta = 0.33$ ($p = 3.77\times10^{-11}$) (A)	
	MAP	$\beta = 0.46$ ($p = 5.05\times10^{-17}$) (A)	
	PP	$\beta = 0.40$ ($p = 5.49\times10^{-14}$) (A)	
	Hypertension	$\beta = 0.07$($p = 1.41\times10^{-6}$) (A)	
	Coronary artery disease (trans-ethnic data)	$\beta = 0.060$ ($p = 6.8 \times 10^{-25}$) (G)	Koyama S., et al., 2020 [90]
	Coronary artery disease (Japanese)	$\beta = 0.068$ ($p = 2.6 \times 10^{-11}$) (G)	
	Myocardial infarction	OR = 1.07 ($p = 1.3\times10^{-12}$) (G)	Hartiala J. A., et al., 2020 [87]
	Myocardial infarction	$\beta = 0.071$ ($p = 1.17 \times 10^{-11}$) (G)	Sakaue S. et al., 2021 [94]
rs8068318 *TBX2/ TBX2-AS1* (17:61406405)	MAP	$\beta = -0.28$ ($p = 2.0\times10^{-8}$) (C)	Liu C. et al., 2016 [31]
	SBP	$\beta = -0.42$ ($p = 3.9\times10^{-17}$) (C)	
	Hypertension	Z score = −6.96 ($p = 3.0 \times 10^{-12}$) (C)	
	DBP	$\beta = -0.26$ ($p = 3.0\times10^{-18}$) (C)	
	SBP (European)	$\beta = 0.42$ ($p = 1.3 \times 10^{-15}$) (T)	Surendran P. et al., 2016 [30]
	DBP (European)	$\beta = 0.26$ ($p = 1.95 \times 10^{-16}$) (T)	
	Hypertension (European)	Z score = 6.97 ($p = 3.21 \times 10^{-12}$) (T)	
	DBP (trans-ethnic data)	$\beta = 0.25$ ($p = 2.75 \times 10^{-18}$) (T)	
	SBP (trans-ethnic data)	$\beta = 0.41$ ($p = 2.3 \times 10^{-17}$) (T)	
	Hypertension (trans-ethnic data)	Z score = 6.96 ($p = 3.43 \times 10^{-12}$) (T)	
rs167479 *RGL3* (19:11416089)	SBP	$\beta = 0.41$ ($p = 1.6 \times 10^{-21}$) (G)	Hoffmann T. J. et al., 2017 [33]
	DBP	$\beta = 0.25$ ($p = 4.3 \times 10^{-22}$) (G)	
	PP	$\beta = 0.18$ ($p = 3.2 \times 10^{-8}$) (G)	
	MAP	$\beta = -0.30$ ($p = 7.3 \times 10^{-11}$) (T)	Liu C. et al., 2016 [31]
	Hypertension	Z score = −7.72 ($p = 1.2 \times 10^{-14}$) (T)	
	SBP	$\beta = -0.45$ ($p = 1.0 \times 10^{-23}$) (T)	
	DBP	$\beta = -0.30$ ($p = 4.2\times10^{-28}$) (T)	
	DBP (European)	$\beta = -0.33$ ($p = 1.99 \times 10^{-31}$) (T)	Surendran P. et al., 2016 [30]
	SBP (European)	$\beta = -0.50$ ($p = 1.49 \times 10^{-26}$) (T)	
	Hypertension (European)	Z score = −7.86 ($p = 4.01 \times 10^{-15}$) (T)	

	DBP (trans-ethnic data)	$\beta = -0.31$ ($p = 2.76 \times 10^{-32}$) (T)	
	SBP (trans-ethnic data)	$\beta = -0.47$ ($p = 8.64 \times 10^{-27}$) (T)	
	Hypertension (trans-ethnic data)	Z score = −7.88 ($p = 3.37 \times 10^{-15}$) (T)	
	SBP	$\beta = -0.41$ ($p = 4.32 \times 10^{-36}$) (T)	Giri A. et el. 2018 [86]
	Hypertension	$\beta = 0.05$ ($p = 8.0 \times 10^{-16}$) (G)	German C. A., 2019 [85]
	Hypertension	OR = 0.84 – 0.92 ($p = 2.37 \times 10^{-8}$) (T)	Jeong H. et al., 2020 [88]
	SBP	$\beta = -0.027$ ($p = 3.24 \times 10^{-46}$) (T)	Sakaue S. et al., 2021 [94]
	DBP	$\beta = -0.026$ ($p = 2.24 \times 10^{-48}$) (T)	
	PP	$\beta = -0.016$ ($p = 7.72 \times 10^{-18}$) (T)	
	MAP	$\beta = -0.028$ ($p = 3.64 \times 10^{-48}$) (T)	

Notes: SBP - systolic blood pressure; DBP - diastolic blood pressure; MAP - mean arterial pressure; PP - pulse blood pressure; z-score - standard scores, β – effect, OR – odds ratio, p – significance level.