ERRATUM



Erratum to: Inter-ethnic differences in genetic variants within the transmembrane protease, serine 6 (*TMPRSS6*) gene associated with iron status indicators: a systematic review with meta-analyses

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After publication of this paper, the authors have determined that the forest plots presented are incorrect. Corrected fixed-effects forest plots are found below. However, the information in the text is correct except for the following two points: (1) under the subheading "Associations of rs4820268 with Hb and iron status", it should read that in Caucasian populations the G allele of rs4820268 results in lower concentrations of Hb by 0.08 g/dL (95 % CI -0.16, -0.01). In the "Discussion", based on our meta-analyses, the overall effect estimate of the Asian studies indicates that for each G allele of rs4820268 an additional decrease of 0.08 and 3.81 is observed for Hb and ferritin values, respectively (Figs. 2, 3, 4, 5, 6, 7, 8).

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Author and Year	Ν	Beta [Cl]
Caucasian Traglia-VB whole cohort,2012 Traglia-VB subset,2012 Chambers-Caucasian,2009 Benyamin-Adult,2009 Benyamin-Adolescent,2009 Tanaka-WHAS I,2010 Tanaka-WHAS II,2010 Tanaka-BLSA,2010 Tanaka-InCHIANTI,2010 Ganesh-HaemGen,2009 Ganesh-CHARGE,2009 FE Model for Subgroup	1657 1131 6316 3188 2468 375 194 713 1206 9457 23146	-0.05 [-0.12 , 0.03] -0.09 [-0.18 , -0.01] -0.11 [-0.15 , -0.07] -0.08 [-0.09 , -0.08] -0.14 [-0.15 , -0.14] -0.15 [-0.05 , 0.35] -0.18 [-0.05 , -0.07] -0.08 [-0.02 , -0.02] -0.12 , -0.05] -0.12 , -0.05] -0.12 , -0.05] -0.08 [-0.11 , -0.04]
Asian Chambers-Asian,2009 Gan,2012 An-Zhuang,2012 An-Han North,2012 An-Han East,2012 FE Model for Subgroup	9685 1574 630 354 1141	Image: 1 -0.14 -0.18 -0.10 Image: 1 -0.14 -0.23 -0.06 Image: 1 -0.09 -0.26 0.09 Image: 1 -0.23 -0.03 -0.23 Image: 1 -0.23 -0.35 -0.12 Image: 1 -0.15 -0.18 -0.12
Mixed Lee,2011 Chambers-Mixed,2009 FE Model for Subgroup	48 16001	■ 0.07 [0.01 , 0.14] ■ -0.13 [-0.17 , -0.09] ■ -0.11 [-0.11 , -0.10]
FE Model for All Studies		-0.11 [-0.11 , -0.10]
		1
	-1.39	0.00 1.39
		Beta

Fig. 2 Fixed-effects meta-analysis of observational studies evaluating association of rs855791 with haemoglobin concentration (g/dL)

Author and Year	Ν		Beta [Cl]
Caucasian Benyamin-Adult,2009 Benyamin-Adolescent,2009 Tanaka-WHAS II,2010 Tanaka-WHAS I,2010 Tanaka-BLSA,2010 Tanaka-InCHIANTI,2010 Kloss,2012 He,2012	2301 2512 194 375 713 1206 1726 3221		-4.23 [-15.26 , 6.80] -2.18 [-16.19 , 11.83] 6.10 [-13.85 , 26.05] 5.48 [-15.84 , 26.80] -7.15 [-20.01 , 5.71] -6.54 [-17.67 , 4.59] -16.10 [-28.59 , -3.61] -6.41 [-12.70 , -0.12]
FE Model for Subgroup		•	-5.95 [-9.91 , -1.99]
Asian Gan,2012 An-Zhuang,2012 An-Han North,2012 An-Han East,2012	1574 630 354 1141		-8.62 [-13.87 , -3.37] 6.84 [-5.10 , 18.78] -3.70 [-4.11 , -3.29] -2.93 [-7.07 , 1.21]
FE Model for Subgroup		4	-3.71 [-4.12 , -3.30]
Mixed Lee,2011 FE Model for Subgroup	48	↓ ↓	-0.57[-5.84 , 4.70] -0.57[-5.84 ,4.70]
FE Model for All Studies		•	-3.71 [-4.12 , -3.31]
	-:	23.03 23.03	

Beta

Fig. 3 Fixed-effects meta-analysis of observational studies evaluating association of rs855791 with ferritin (μ g/L)

Fig. 4 Fixed-effects meta-	Author and Year	Ν		Beta [Cl]
analysis of observational studies evaluating association of rs855791 with serum transferrin receptor (mg/dL)	Caucasian He,2012 Blanco-Rojo,2011 Oexle,2011	3221 270 ◄ 6616	.	0.02 [0.01 , 0.02] 0.11 [-1.83 , 2.04] 0.01 [-0.01 , 0.04]
	FE Model	-1.39	0.00 Beta	0.02 [0.01 , 0.02]

Fig. 5 Fixed-effects metaanalysis of observational studies evaluating association of rs855791 with with transferrin (mg/dL)

Author and Year	Ν		Beta [Cl]
Caucasian Traglia_VB whole cohort,2012 Traglia_VB subset,2012 Benyamin_Adult,2009 Benyamin_Adolescent,2009 He,2012	1652 1130 2299 2512 3221		0.00 [-0.07 , 0.07] 0.00 [-0.08 , 0.09] 2.97 [0.35 , 5.58] 2.89 [0.78 , 4.99] 4.33 [-1.26 , 9.92]
FE Model for All Studies	-1.39 B	1.39 eta	0.00 [-0.05 , 0.06]

Fig. 6 Fixed-effects metaanalysis of observational studies evaluating association of rs4820268 with haemoglobin concentration (g/dL)

Author and Year	Ν				Beta [Cl]
Caucasian					
Tanaka_WHAS I,2010	375		н а н		0.08 [-0.12 , 0.28]
Tanaka_WHAS II,2010	194				-0.06 [-0.28 , 0.16]
Tanaka_BLSA,2010	713		H a i		-0.11 [-0.27 , 0.05]
Tanaka_InCHIANTI,2010	1206		=		-0.12 [-0.22 , -0.02]
FE Model for Subgroup			•		-0.08 [-0.16 , -0.01]
Asian					
Gan,2012	1574				-0.13 [-0.21 , -0.05]
An_Zhuang,2012	630		н а н		-0.06 [-0.24 , 0.12]
An_Han North,2012	354		H=-1		-0.34 [-0.57 , -0.10]
An_Han East,2012	1141		H H H		-0.20 [-0.32 , -0.09]
FE Model for Subgroup			*		-0.16 [-0.22 , -0.10]
FE Model for All Studies			•		-0.13 [-0.17 , -0.08]
		I	1	1	
		-1.39	0.00	1.39	
			Beta		

Fig. 7 Fixed-effects metaanalysis of observational studies evaluating association of rs4820268 with ferritin (µg/L)

Author and Year	Ν		Beta [Cl]
Caucasian			
Tanaka_WHAS I,2010	375	⊢	2.64 [-18.90 , 24.18]
Tanaka_WHAS II,2010	194	 i	0.25 [-19.74 , 20.24]
Tanaka_BLSA,2010	713	⊢ ■ →	11.19[-1.86,24.24]
Tanaka_InCHIANTI,2010	1206	⊢∎	5.77[-5.13,16.67]
Kloss,2012	1726	-	-18.19 [-30.62 , -5.76]
FE Model for Subgroup		+	0.12 [-6.16 , 6.39]
Asian			
Gan,2012	1574	⊢ ∎(-1.04 [-11.98 , 9.90]
An_Zhuang,2012	630	⊢_ ∎(3.27 [-12.04 , 18.58]
An_Han North,2012	354		-12.30 [-25.10 , 0.50]
An_Han East,2012	1141	⊨∎	-3.64 [-11.68 , 4.40]
FE Model for Subgroup		•	-3.69 [-9.09 , 1.72]
FE Model for All Studies		•	-2.07 [-6.16 , 2.03]
		-23.03 23.03	}

Beta

Fig. 8 Fixed-effects metaanalysis of observational studies evaluating association of rs4820268 with serum transferrin receptor (mg/dL)

Author and Year	Ν		Beta [Cl]
Caucasian			
Oexle,2011	6616		-0.10 [-0.13 , -0.08]
Pichler_InCHIANTI,2011	1181	÷	-0.02 [-0.06 , 0.02]
Pichler_MICROS,2011	1330	н	-0.09 [-0.13 , -0.05]
FE Model	-1.39	• 0.00 Beta	-0.08 [-0.10 , -0.06]