Corrigendum

Corrigendum to "Association of Nuclear Factor-Erythroid 2-Related Factor 2, Thioredoxin Interacting Protein, and Heme Oxygenase-1 Gene Polymorphisms with Diabetes and Obesity in Mexican Patients"

Angélica Saraí Jiménez-Osorio,¹ Susana González-Reyes,¹ Wylly Ramsés García-Niño,¹ Hortensia Moreno-Macías,² Martha Eunice Rodríguez-Arellano,³ Gilberto Vargas-Alarcón,⁴ Joaquín Zúñiga,⁵ Rodrigo Barquera,⁶ José Pedraza-Chaverri,¹ Juan Pablo Meza-Espinoza,⁵ Evelia Leal-Ugarte,⁵ and Valeria Peralta-Leal⁵

Correspondence should be addressed to José Pedraza-Chaverri; pedraza@unam.mx

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In the article titled "Association of Nuclear Factor-Erythroid 2-Related Factor 2, Thioredoxin Interacting Protein, and Heme Oxygenase-1 Gene Polymorphisms with Diabetes and Obesity in Mexican Patients," [1] typing errors were found after subsequent analyses of the entire dataset. These issues were raised to the attention of the original authors by Drs. Meza-Espinoza, Leal-Ugarte, and Peralta-Leal of the Universidad Autónoma de Tamaulipas. The allelic frequencies were added and the corrected data are shown in italics in Tables 2, 3, and 4.

It is important to remark that the model (recessive for allele T, Table 4) was calculated taking in count that CC + CT = 0. When CC is considered as the risk allele the OR increases to 2.4 (CI: 1.28-4.64, P=0.006) under a dominant model (CC + CT = 1 versus TT = 0). This reveals that the

TT genotype in this study shows a protective factor against obesity and the genotype CC could be considered as the risk factor for obesity, as was stated in the original article.

The last paragraph of Section 3 should be "CC carriers had higher glucose levels in comparison with CA + AA carriers when genotype was compared as dominant model."

Finally, in Section 4 (Discussion) when Wang et al. [7] is cited, the correct statement is the following:

"Individuals with CC genotype had lower total antioxidant capacity, glutathione levels, superoxide dismutase, catalase, and glutathione peroxidase activities as well as lower homeostasis model assessment of β -cell function index (HOMA- β) in comparison with individuals with the AA genotype."

¹Department of Biology, National Autonomous University of Mexico (UNAM), 04510 Mexico City, DF, Mexico

²Economy Department, Autonomous Metropolitan University-Iztapalapa, 09340 Mexico City, DF, Mexico

³Research Department, Regional Hospital "Lic. Adolfo López Mateos", ISSSTE, 01030 Mexico City, DF, Mexico

⁴Molecular Biology Department, National Institute of Cardiology "Ignacio Chávez", 14080 Mexico City, DF, Mexico

⁵Department of Immunology, National Institute of Respiratory Diseases "Ismael Cosío Villegas", 14080 Mexico City, DF, Mexico

⁶Molecular Genetics Laboratory, National School of Anthropology and History, 14030 Mexico City, DF, Mexico

⁷Departamento de Genética, Facultad de Medicina e Ingeniería en Sistemas Computacionales de Matamoros, Universidad Autónoma de Tamaulipas, Sendero Nacional km 3, 87349 Matamoros, TAMPS, Mexico

Table 2: Genotype and allele frequencies of the polymorphisms studied in diabetic patients and controls.

Gene/polymorphism	Genotypes	Diabetes	Controls	OR (95% CI)	P	P of HWE
	Alleles	n (%)	n (%)	OR (55% OI)		T OITIVE
	CC	345 (55.4)	528 (54.5)	Reference		
TXNIP rs7211	CT	239 (38.4)	376 (38.8)	0.97 (0.78–1.2)	0.798	
	TT	39 (6.2)	65 (6.7)	0.92 (0.60–1.39)	0.690	0.880
	C	939 (74.6)	1432 (73.9)	Reference		
	T	317 (25.4)	506 (26.1)	0.966 (1.82–1.37)	0.674	
NQO1 rs1800566	CC	216 (34.7)	327 (33)	Reference		
	CT	288 (46.2)	483 (48.6)	0.90 (0.7-1.1)	0.373	
	TT	119 (19.1)	183 (18.4)	0.98 (0.7-1.3)	0.915	0.406
	C	720 (57.8)	1137 (57.25)	Reference		
	T	526 (42.2)	849 (42.75)	0.98 (0.85–1.13)	0.765	
HMOX-1 rs2071749	AA	269 (43.8)	413 (43.2)	Reference		
	AG	267 (43.5)	417 (43.6)	0.98 (0.79–1.2)	0.877	
	GG	78 (12.7)	126 (13.2)	0.95 (0.69–1.3)	0.757	0.625
	A	805 (65.5)	1243 (65)	Reference		
	G	423 (34.5)	669 (35)	0.97 (0.84–1.13)	0.755	
NRF2 rs2364723	CC	210 (33.6)	301 (30.3)	Reference		
	CG	286 (45.7)	471 (47.5)	0.87 (0.7-1.1)	0.236	
	GG	129 (20.6)	220 (22.2)	0.84 (0.63–1.1)	0.223	0.092
	C	706 (56.5)	1073 (54)	Reference		
	G	544 (43.5)	911 (46)	0.91 (0.79–1.05)	0.182	
NRF2 rs6721961	CC	407 (65.3)	618 (62.5)	Reference		
	CA	189 (30.4)	317 (32)	0.90 (0.7-1.1)	0.374	
	AA	27 (4.3)	54 (5.5)	0.76 (0.5-1.2)	0.259	0.281
	C	1003 (80.5)	1553 (78.5)	Reference		
	A	243 (19.5)	425 (21.5)	0.88 (0.74–1.05)	0.176	

CI, confidence interval; HWE, Hardy-Weinberg equilibrium; HMOX-1, heme oxygenase 1; NQO1, NAD(P)H quinone oxidoreductase 1; NRF2, nuclear factor-erythroid 2- (NF-E2-) related factor 2; OR, odds ratio; and TXNIP, thioredoxin-interacting protein.

Table 3: Genotype and allele frequencies of the polymorphisms studied in obese and nonobese subjects.

Gene/polymorphism	Genotype	Obesity	No obesity	OR (95% CI)	P	
Gene/porymorphism	Alleles	n (%)	n (%)	OR (93% CI)	1	
	CC	350 (56.6)	523 (53.7)	Reference		
TDVNID	СТ	239 (38.7)	376 (38.6)	0.95 (0.77–1.17)	0.633	
TRXNIP rs7211	TT	29 (4.7)	75 (7.7)	0.57 (0.37-0.9)	0.017	
	C	239 (76)	1422 (73)	Reference		
	T	297 (24)	526 (27)	0.85 (0.72-1)	0.061	
	CC	212 (34.2)	331 (33.3)	Reference		
	CT	302 (48.8)	469 (47)	1 (0.8–1.25)	0.963	
NQO1	TT	106 (17)	196 (19.7)	0.84 (0.6-1.1)	0.257	
rs1800566	C	726 (58.5)	1131 (56.8)	Reference		
	T	514 (41.5)	561 (43.2)	0.93 (0.8–1.07)	0.322	
	AA	261 (40)	419 (45.7)	Reference		
	AG	305 (46.9)	378 (41.3)	1.3 (1–1.6)	0.019	
HMOX-1	GG	85 (13.1)	119 (13)	1.1 (0.8–1.5)	0.399	
rs2071749	G	827 (63.5)	1216 (66.4)	Reference		
	A	475 (36.5)	616 (36.6)	1.13 (0.97–1.31)	0.097	
	CC	194 (31)	317 (32)	Reference		
	CG	300 (48)	457 (46)	1.1 (0.85-1.35)	0.551	
NRF2	GG	131 (21)	218 (22)	0.98 (0.7-1.3)	0.899	
rs2364723	C	688 (55)	1091 (55)	Reference		
	G	562 (45)	893 (45)	0.99 (0.86–1.15)	0.699	
	CC	390 (63.1)	635 (63.9)	Reference		
	CA	195 (31.6)	311 (31.3)	1 (0.8–1.3)	0.853	
NRF2 rs6721961	AA	33 (5.3)	48 (4.8)	1.1 (0.7–1.7)	0.631	
	C	975 (78.9)	1581 (79.5)	Reference		
	A	261 (21.1)	407 (20.5)	1.04 (0.87–1.23)	0.661	

TXNIP, thioredoxin-interacting protein; NQO1, NAD(P)H quinone oxidoreductase 1; HMOX-1, heme oxygenase 1; NRF2, nuclear factor-erythroid 2- (NF-E2-) related factor 2.

TABLE 4: Genotype frequency of the rs7211 polymorphism in subjects without diabetes and women.

	Obese	Nonobese	Crude OR (95% CI)	P	Adjusted ^a OR (95% CI)	P
Nondiabetic						
CC	189 (56.6)	339 (53.4)	Reference		Reference	
CT	133 (39.8)	243 (38.3)	0.98 (0.75-1.3)	0.896	1 (0.77-1.4)	0.863
TT	12 (3.6)	53 (8.3)	0.4 (0.21-0.77)	0.007	0.3 (0.15-0.7)	0.003
CC + CT = 0 versus $TT = 1$	322 (96.4)	582 (91.5)	0.4 (0.21-0.76)	0.006	0.39 (0.18-0.8)	0.014
Women						
CC	197 (59)	259 (51)	Reference		Reference	
CT	118 (36)	203 (40)	0.7 (0.6-1)	0.072	0.9 (0.6-1.2)	0.418
TT	17 (5)	47 (9)	0.5 (0.26-0.85)	0.013	0.5 (0.25-0.96)	0.04
CT + TT	135 (41)	250 (49)	0.70 (0.5-0.9)	0.016	0.7 (0.5-0.96)	0.028

CI, confidence interval; OR, odds ratio.

^aObesity in logistic regression was adjusted by age, gender (except in women model), glucose, triglycerides, LDL-C, and HDL-C levels.

References

[1] A. S. Jiménez-Osorio, S. González-Reyes, W. R. García-Niño et al., "Association of nuclear factor-erythroid 2-related factor 2, thioredoxin interacting protein, and heme oxygenase-1 gene polymorphisms with diabetes and obesity in Mexican patients," *Oxidative Medicine and Cellular Longevity*, vol. 2016, Article ID 7367641, 8 pages, 2016.