

SUPPLEMENTAL MATERIAL

Supplemental Table 1. Correlation coefficients between irisin plasma levels and body composition parameters

Supplemental table

	Gender	Age	Height (cm)	Body weight (kg)	BMI (kg/m ²)	BMI (percentil)	Waist (cm)	MUAC (cm)	Fat mass (kg)	Fat mass (%)	Body muscle mass (kg)	Fat-free mass (kg)	Glucose (mg/dl)	Albumin (g/dl)	Total cholesterol (mg/dl)	HDL (mg/dl)	LDL (mg/dl)	Triglycerides (mg/dl)	Irisin (ng/mL)	
Gender	1	-0.0506	-0.0910	-0.00866	0.0108	-0.0153	-0.0585	0.0693	0.0823	0.143	0.178	-0.0996	-0.0845	0.292	0.0368	-0.483*	0.0520	0.275	-0.418*	
Age		1	0.814*	0.436*	0.0824	-0.163	0.246	0.177	0.141	-0.0612	0.481*	0.666*	-0.179	-0.159	0.132	0.208	0.126	-0.0686	0.126	
Height (cm)			1	0.795*	0.453*	0.239	0.636*	0.574*	0.540*	0.349*	0.646*	0.917*	-0.216	-0.0931	0.117	0.0626	0.0736	0.162	0.284	
Body weight (kg)				1	0.901*	0.862*	0.940*	0.935*	0.934*	0.806*	0.472*	0.929*	-0.169	0.0351	0.267	-0.0806	0.181	0.410*	0.345*	
BMI (kg/m ²)					1	0.845*	0.934*	0.965*	0.961*	0.942*	0.265	0.714*	-0.0650	0.0977	0.346*	-0.106	0.253	0.464*	0.307	
BMI (percentil)						1	0.783*	0.825*	0.736*	0.866*	0.239	0.493*	0.0269	0.0824	0.337*	-0.163	0.247	0.508*	0.387*	
Waist (cm)							1	0.947*	0.922*	0.873*	0.379*	0.827*	-0.0820	0.0728	0.386*	-0.129	0.294	0.471*	0.373*	
MUAC (cm)								1	0.934*	0.898*	0.447	0.805*	-0.142	0.0578	0.317*	-0.129	0.226	0.451*	0.266	
Fat mass (kg)									1	0.935*	0.239	0.735*	-0.126	0.108	0.289	-0.141	0.188	0.507*	0.290	
Fat mass (%)										1	0.167	0.560*	-0.0820	0.178	0.291	-0.206	0.193	0.560*	0.276	
Body muscle mass (kg)											1	0.648*	-0.192	0.0785	0.231	-0.130	0.177	0.176	-0.027	
Fat-free mass (kg)												1	-0.178	-0.0446	0.228	0.00206	0.171	0.250	0.353*	
Glucose (mg/dl)													1	0.383*	-0.0247	-0.127	0.00357	0.206	0.0741	
Albumin (g/dl)														1	0.192	-0.304	0.200	0.161	-0.0757	
Total cholesterol (mg/dl)															1	0.0210	0.968*	0.213	0.201	
HDL (mg/dl)																1	0.00310	-0.493*	0.209	
LDL (mg/dl)																	1	0.0766	0.208	
Triglycerides (mg/dl)																		1	-0.0380	
Irisin (ng/mL)																				1

Correlation coefficients are shown, calculated by Pearson product moment or Spearman rank order methods depending on normality of data; *p < 0.05.

Supplemental Table 2. General linear models of variables associated with circulating irisin levels, after controlling for gender and age.

Variables	Main Effect (B/p)
Weight (kg)	1.37/0.104
Height (cm)	0.634/0.155
Plication (mm)	0.296/0.636
Plication Percentile (fraction)	0.094/0.437
Waist (cm)	0.393/0.573
Waist Percentile (fraction)	0.131/0.411
Height-Age Percentile (fraction)	0.144/0.122
Body Mass Index (kg/m²)	1.36/0.017
Body Mass Index Percentile (fraction)	0.17/0.005
Fat percentage (fraction)	0.336/0.653
Body Muscle Mass (kg)	-0.613/0.666
Total body fat (kg)	1.3/0.39
Weekly Activity (days/week)	-1.61/0.14
Daily Activity (hours/day)	-0.445/0.827
Weekly TV (days/week)	-2.16/0.345
Daily TV (hours/day)	1.47/0.4
Mid-upper arm circumference (cm)	-1.51/0.542
Fat free mass (kg)	1.56/0.148
Glucose (mg/dl)	0.066/0.663
Albumin (g/dl)	-0.852/0.879
Total cholesterol (mg/dl)	-0.007/0.946
High Density Lipoprotein (mg/dl)	-0.284/0.668
Triacylglycerides (mg/dl)	-0.078/0.432