



Article

# Serum Levels of Myonectin Are Lower in Adults with Metabolic Syndrome and Are Negatively Correlated with Android Fat Mass

Jorge L. Petro <sup>1,2,\*</sup>, María Carolina Fragozo-Ramos <sup>1</sup>, Andrés F. Milán <sup>1</sup>, Juan C. Aristizabal <sup>1</sup>,  
Jaime A. Gallo-Villegas <sup>3</sup>, Juan C. Calderón <sup>1,\*</sup>

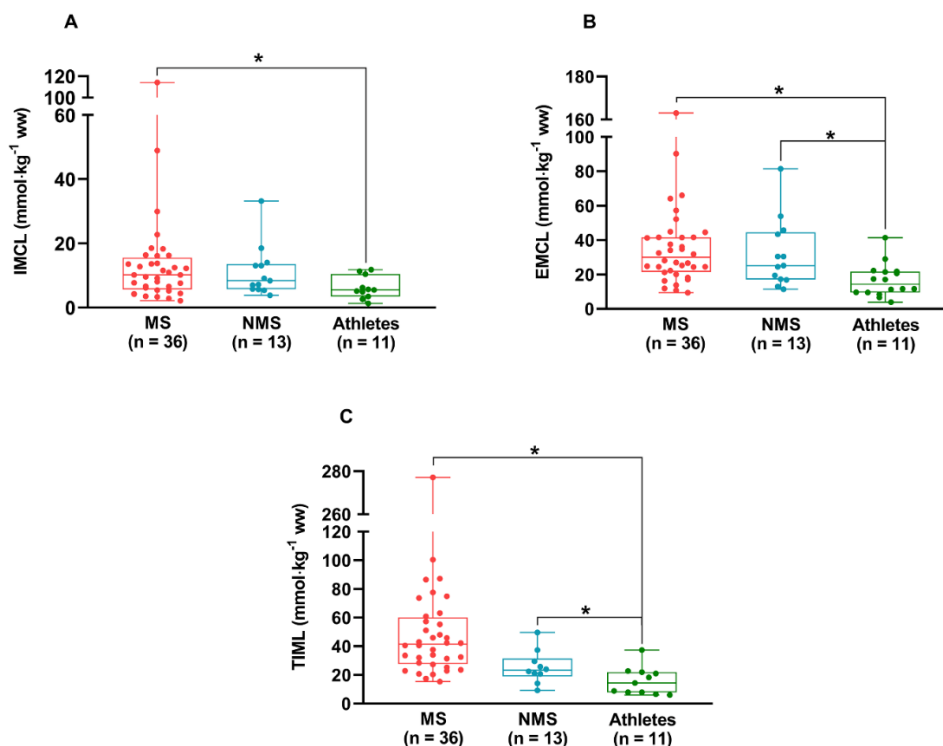
<sup>1</sup> Physiology and Biochemistry Research Group—PHYSIS, Faculty of Medicine, University of Antioquia, Medellín 050010, Colombia

<sup>2</sup> Research Group in Physical Activity, Sports and Health Sciences—GICAFS, Universidad de Córdoba, Montería 230002, Colombia

<sup>3</sup> Sports Medicine Postgraduate Program, and GRINMADE Research Group, SICOR Center, Faculty of Medicine, University of Antioquia, Medellín 050010, Colombia

\*Correspondence: jorge.petro@udea.edu.co (J.L.P.); jcalderonv00@yahoo.com (J.C.C.)

## Supplementary Materials



**Figure S1.** <sup>1</sup>H-MRS allows to demonstrate higher intramuscular lipid content in adults with metabolic risk compared with healthy controls. A. IMCL, Intramyocellular lipid content; B. EMCL, Extramyocellular lipid content; C. TIML, Total intramuscular lipid content (IMCL +

EMCL). Characteristics of the groups (mean±standard deviation or median (interquartile range): MS, metabolic syndrome (age: 51.0 (46.0–56.0) years, female sex: 70.1%, BMI: 30.6±4.0 kg·m<sup>-2</sup>); NMS, no metabolic syndrome (age: 53.0 (45.5–57.5) years, female: 72.4%, BMI: 27.0±3.5 kg·m<sup>-2</sup>); Athletes (age: 19.0±1.9 years, females: 81.8%, BMI: 24.6±2.1 kg·m<sup>-2</sup>); \*, statistically significant difference (P<0.05), comparisons between the groups made with the Kruskal-Wallis test. <sup>1</sup>H-MRS, proton nuclear magnetic resonance spectroscopy.

**Table S1.** Multiple linear regression model showing the relationship between myonectin and Android/gynoid fat mass ratio, excluding subjects who were treated with cholesterol medications.

	$\beta^a$	t	P-value	95% CI <sup>b</sup>	R <sup>2</sup>	adj. R <sup>2</sup>	P-value - F	D-W
<b>And/Gyn</b>								
Constant	0.315	1.36	0.178	-0.147 to 0.777				
Myonectin, ng·mL <sup>-1</sup>	-0.010	-2.242	0.028	-0.019 to -0.001				
Age, years	-0.300	-5.142	<0.001	-0.416 to -0.184	0.532	0.501	<0.001	2.113
Female sex	0.006	2.428	0.018	0.001 to 0.011				
FMI, kg·m <sup>-2</sup>	0.018	2.641	0.010	0.004 to 0.031				
LMI, kg·m <sup>-2</sup>	0.001	0.090	0.928	-0.017 to 0.019				

The analysis was performed with n=80; <sup>a</sup> non-standardized coefficient (indicates the average change that corresponds to the dependent variable for each unit of change in the independent variable); <sup>b</sup> 95% confidence interval for  $\beta$ ; D-W, Durbin Watson test. And/Gyn, Android/gynoid fat mass ratio; FMI, fat mass index; LMI, lean mass index.