Supplementary Data

Supplementary Table S1. Statistical value for Spearman's correlation coefficient (*r*) and p value for histopathological parameters evaluated by a semiquantitative analysis of the four groups of Wistar rats.

		PVI	PUV	PVA	PVN	PIGI
PVI	*r*	1.000				
	p value	.				
PUV	*r*	-0.280	1.000			
	p value	0.260	.			
PVA	*r*	-0.376	-0.189	1.000		
	p value	0.124	0.453	.		
PVN	*r*	-0.481*	-0.261	0.506*	1.000	
	p value	0.043	0.296	0.032	.	
PIGI	*r*	0.520*	0.199	-0.566*	-0.786**	1.000
	p value	0.027	0.429	0.09	0.000	.

r : Spearman's correlation coefficient. *: $p < 0.05$. **: $p < 0.01$.

n (number of rats evaluated) = 20.

PVI: percentage of villus integrity. PUV: percentage of ulcerated villi. PVA: percentage of villous absence. PVN: percentage of villous necrosis. PIGI: percentage of intestinal gland integrity.

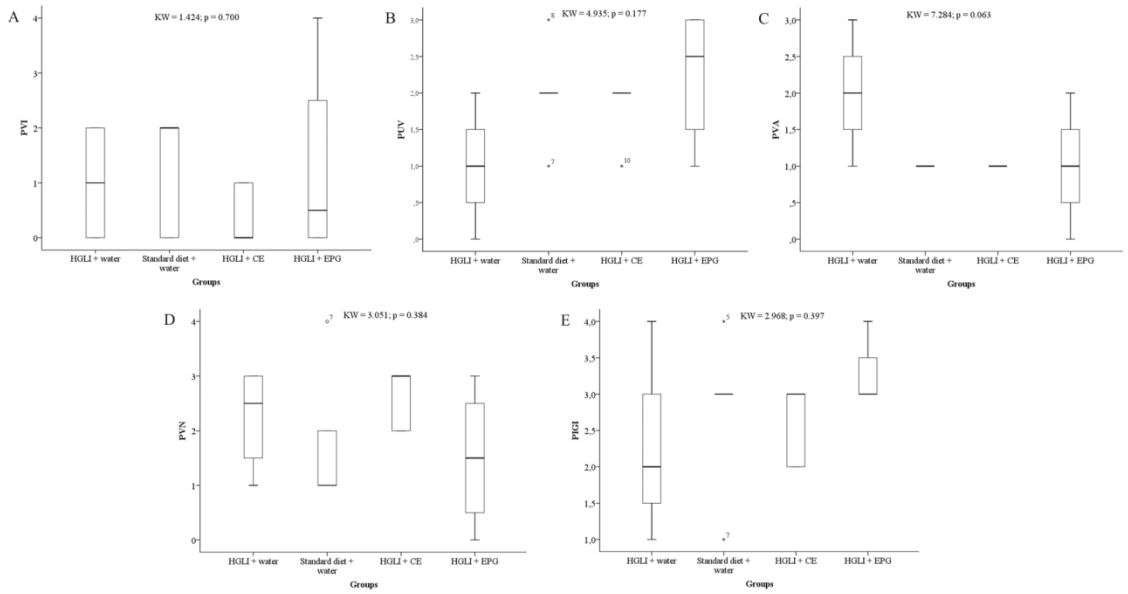
Supplementary Table S2. Spearman correlations for the different histopathological parameters of the kidneys for the four groups of Wistar rats evaluated.

		PHT	GH	THC	BSD	IIF
PHT	*r*	1.000				
	p value	.				
GH	*r*	-0.059	1.000			
	p value	0.817	.			
THC	*r*	0.343	-0.171	1.000		
	p value	0.163	0.496	.		
BSD	*r*	1.000	-0.059	0.343	1.000	
	p value	.	0.817	0.163	.	
IIF	*r*	0.153	0.383	0.000	0.153	1.000
	p value	0.543	0.116	1.000	0.543	.

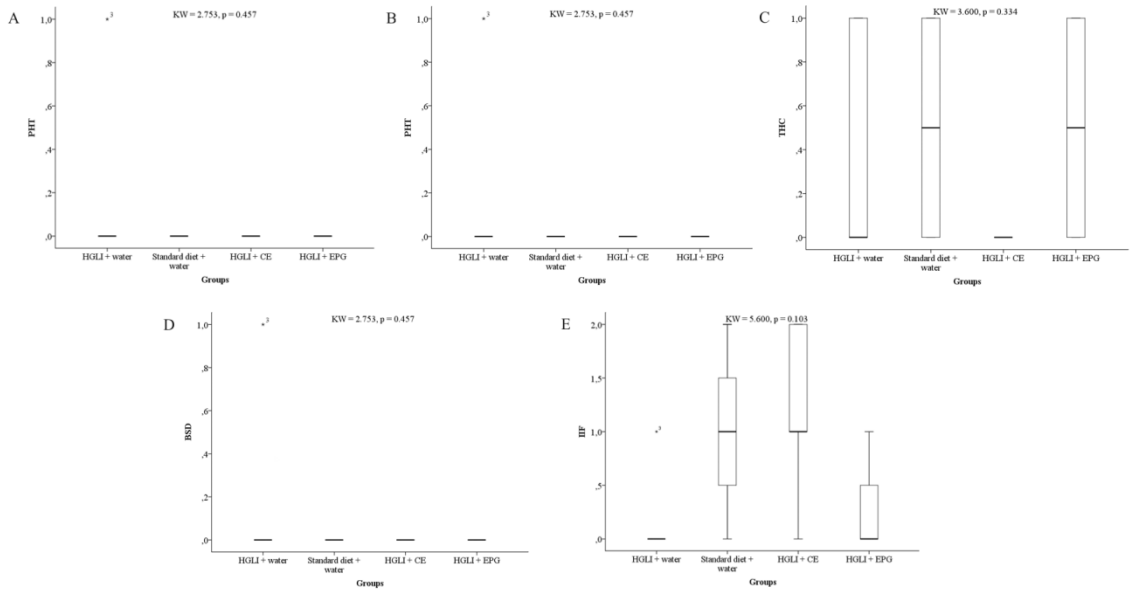
r : Spearman's correlation coefficient.

n (number of rats evaluated) = 20.

PHT: presence of hypertrophic tubules. GH: glomerular hyalinization. THC: tubular hyaline cylinders. BSD: Bowman's space dilation. IIF: inflammatory infiltrate foci.



Supplementary Fig. S1. Scores of semiquantitative histopathological evaluation of the intestinal sections of the four groups of Wistar rats submitted to different treatments for ten days. (A) PVI: percentage of villus integrity. (B) PUV: percentage of ulcerated villi. (C) PVA: percentage of villous absence. (D) PVN: percentage of villous necrosis. (E) PIGI: percentage of intestinal gland integrity. KW: Kruskal-Wallis test. CE: crude carotenoid extract from Cantaloupe melon (Cucumis melo L.). EPG: crude carotenoid extract from Cantaloupe melon nanoencapsulated in porcine gelatin. HGLI: diet with a high glycemic index and high glycemic load.



Supplementary Fig. S2. Scores of semiquantitative histopathological evaluation of the renal sections of the four groups of Wistar rats submitted to different treatments for ten days. CE: crude carotenoid extract from Cantaloupe melon (*Cucumis melo* L.). (A) PHT: presence of hypertrophic tubules. (B) GH: glomerular hyalinization. (C) THC: tubular hyaline cylinders. (D) BSD: Bowman's space dilation. (E) IIF: inflammatory infiltrate foci. KW: Kruskal-Wallis test. EPG: crude carotenoid extract from Cantaloupe melon nanoencapsulated in porcine gelatin. HGLI: diet with a high glycemic index and high glycemic load.