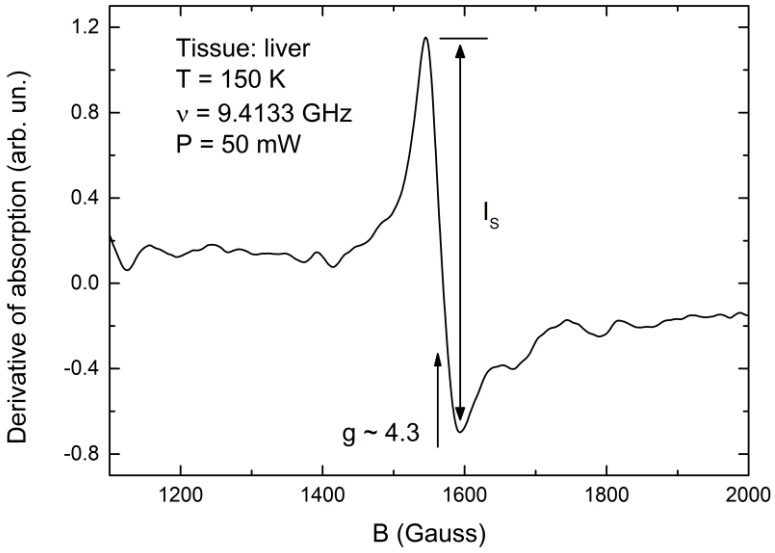

Figure S1. Typical EPR spectra of the homogenate. The arrows show the magnetic field for g = 4.3 and the peak to peak intensity (I_S) used to measure the relative amount of labile iron.

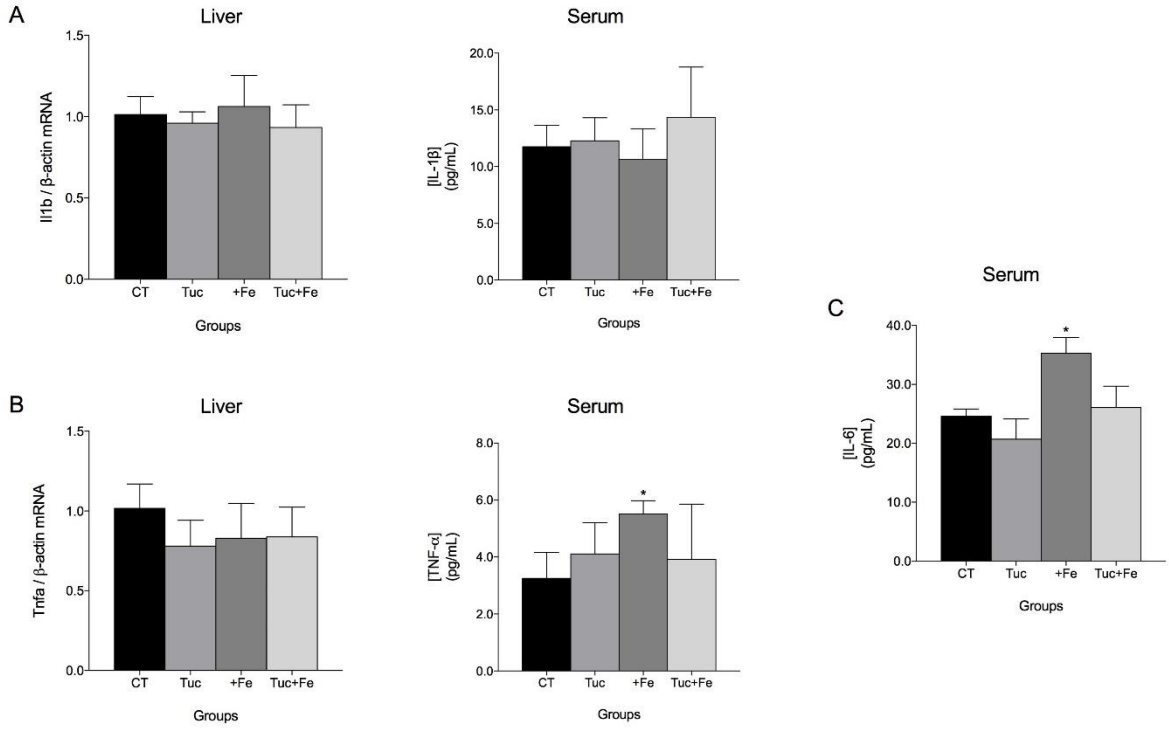

Figure S2. Hepatic mRNA levels quantification of interleukin 1 beta (Il1b) and tumor necrosis factor alpha (Tnfa) mRNA levels and serum protein levels of IL-1β, IL-6 and TNF-α in rats fed a control diet, tucum-do-cerrado (Tuc), iron-enriched diet (+Fe) or tucum-do-cerrado iron-enriched (Tuc+Fe) diet, for 12 weeks. Data are the average ± standard deviation (n = 6). Statistical differences compared to: * CT group, $^{\#}$ Tuc group and § +Fe group ($p < 0.05$).

Table S1. Primer sequences used for Bmp6, Hamp, Hfe, Hfe2, Smad7, Trf1 and Actb real-time PCR assays.

Gene	Primers sequences (5'- 3')	GenBank accession number
Bmp6	GACAGCAGAGTCGCAATCG (forward) AGCTCACGTAAAGCTCATGC (reverse)	NM_013107.1
Hamp	TGATGCTGAAGCGAAGGA (forward) TGTGTTGAGAGGTCAGGAC (reverse)	NM_053469
Hfe	TGGGCAAGATCACCTTGAATT (forward) GGATCCTGTGCTCTTCCCACT (reverse)	NM_053301.4
Hfe2	GTAGCATCGGGAGCCAAC (forward) TCAAAGG CTGCAGGAAGATT (reverse)	NM_001012080.1
Smad 7	AGAGGCTGTGTTGCTGTG (forward) CATCGGGTATCTGGAGTAAGG (reverse)	NM_030858.1
Trf1	GAGTTCACTGACATCATCAAGCA (forward) TCCAGCCTCACGAGGAGTAT (reverse)	NM_022712.1
Actb	GTCGTACCACTGGCATTGTG (forward) CTCTCAGCTGTGGTGGTGAA (reverse)	NM_031144

Table S2. Dilutions and companies of primary antibodies used for protein immunoblotting.

Protein	Dilution	Code/Company
pSMAD1/5/8	1:500	#9511 / Cell Signaling Technology
pSTAT3	1:500	#9131 / Cell Signaling Technology
β-actin	1:1000	#4967S / Cell Signaling Technology