

A single infusion of polyethylene glycol-coated superparamagnetic magnetite nanoparticles alters differently the expressions of genes involved in iron metabolism in the liver and heart of rats

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Table S1. Correlations of the gene expressions in the livers and left heart ventricles of rats

Abbreviations

LHV: left heart ventricle, *Nos3*: endothelial nitric oxide synthase, *Nos2*: inducible nitric oxide synthase, *Nfe2l2*: nuclear factor (erythroid-derived 2)-like 2, *Pparg*: peroxisome proliferator-activated receptor gamma, *Sod1*: superoxide dismutase 1, *Sod2*: superoxide dismutase 2, *Gpx4*: glutathione peroxidase 4, *Dmt1*: divalent metal transporter, *Tf*: transferrin, *Tfr1*: transferrin receptor, *Fth1*: ferritin heavy chain 1, *Fpn*: ferroportin, *Irp1 (Aco1)*: iron-regulatory protein 1 or aconitase 1, *Hamp*: hepcidin.

Liver n = 24	<i>Fth1</i>	<i>Dmt1</i>	<i>Tfr1</i>	<i>Tf</i>	<i>Fpt</i>	<i>Irp1</i>	<i>Hamp</i>	<i>Gpx4</i>	<i>Sod2</i>	<i>Sod1</i>	<i>Nos2</i>	<i>Nos3</i>	<i>Pparg</i>		LHV n = 24
<i>Nfe2l2</i>		r = 0.76 p < 0.0001						r = 0.73 p < 0.0001	r = 0.52 p < 0.001		r = 0.68 p < 0.0003	r = 0.77 p < 0.0001	r = 0.84 p < 0.0001		
<i>Pparg</i>		r = 0.51 p < 0.01		r = -0.50 p < 0.02				r = 0.70 p < 0.001			r = 0.73 p < 0.0001	r = 0.53 p < 0.01		r = -0.83 p < 0.0001	<i>Dmt1</i>
<i>Nos3</i>		r = 0.95 p < 0.0001						r = 0.72 p < 0.0001			r = 0.65 p < 0.001		r = -0.41 p < 0.05		<i>Tfr1</i>
<i>Nos2</i>		r = 0.56 p < 0.005						r = 0.80 p < 0.0001					r = -0.51 p < 0.02	r = 0.61 p < 0.002	<i>Tf</i>
<i>Sod1</i>	r = 0.84 p < 0.0001			r = 0.67 p < 0.001					r = 0.52 p < 0.01		r = 0.63 p < 0.001	r = 0.46 p < 0.03	r = -0.74 p < 0.0001	r = 0.71 p < 0.0001	<i>Fpt</i>
<i>Sod2</i>	r = 0.47 p < 0.03									r = 0.55 p < 0.006	r = 0.44 p < 0.04		r = -0.69 p < 0.0003	r = 0.72 p < 0.0001	<i>Irp1</i>
<i>Gpx4</i>		r = 0.61 p < 0.002												r = 0.51 p < 0.02	<i>Hamp</i>
<i>Hamp</i>										r = -0.63 p < 0.0001		r = -0.52 p < 0.01	r = 0.70 p < 0.0002	r = -0.58 p < 0.004	<i>Gpx4</i>
<i>Irp1</i>			r = 0.72 p < 0.001		r = 0.70 p < 0.001			r = 0.61 p < 0.002	r = 0.52 p < 0.01				r = -0.52 p < 0.009	r = 0.57 p < 0.004	<i>Sod2</i>
<i>Fpt</i>			r = 0.54 p < 0.01				r = -0.60 p < 0.002		r = 0.46 p < 0.03	r = 0.59 p < 0.003	r = 0.49 p < 0.02		r = -0.51 p < 0.02	r = 0.63 p < 0.001	<i>Sod1</i>
<i>Tf</i>	r = 0.69 p < 0.001								r = -0.54 p < 0.007	r = -0.41 p < 0.05	r = -0.44 p < 0.03		r = 0.63 p < 0.002	r = -0.58 p < 0.004	<i>Nos2</i>
<i>Tfr1</i>				r = 0.51 p < 0.02		r = -0.56 p < 0.005			r = -0.48 p < 0.02				r = 0.46 p < 0.03	r = -0.44 p < 0.04	<i>Nos3</i>
<i>Dmt1</i>															<i>Pparg</i>
		r = 0.79 p < 0.0001													<i>Nfe2l2</i>
Liver n = 24		<i>Pparg</i>	<i>eNOS</i>	<i>iNOS</i>	<i>Sod1</i>	<i>Sod2</i>	<i>Gpx4</i>	<i>Hamp</i>	<i>Irp1</i>	<i>Fpt</i>	<i>Tf</i>	<i>Tfr1</i>	<i>Dmt1</i>	<i>Fth1</i>	LHV n = 24