Table S1. Level of malondialdehyde (MDA; μmol/g) in selected tissues in rats fed experimental diets (n=10 per group)*.

	Heart	Lungs	Jejunum	Liver	Pancreas	Kidneys	Spleen	Testes
Control C	8.00	5.29	13.4	8.45	6.17	9.25	10.6	0.820
Control CH	7.48	5.31	13.9	4.00	4.65	10.6	10.8	1.09
2-way ANOVA:								
CN	9.75	5.39^{bcd}	$7.73^{b\ \#}$	$6.29^{d\ \#}$	7.14^{bc}	8.59^{bc}	11.6^{bc}	$5.79^{a\ \#}$
CNH	8.66	$7.31^{a\ \&}$	13.4^{a}	4.62^{e}	$11.6^{a\ \&}$	12.0^{a}	9.07^{cd}	$5.57^{a\ \&}$
PN	$11.3^{\#}$	$7.11^{ab\ \#}$	11.9^{a}	$4.80^{e\ \#}$	7.98^{b}	$11.6^{a\ \#}$	$19.6^{a\ \#}$	$5.95^{a\ \#}$
PNH	7.93	6.25^{abc}	$12.3^{a\ \&}$	$15.7^{a\ \&}$	$6.89^{c\ \&}$	11.7^{a}	13.4^{b}	$5.76^{a\ \&}$
JN	$5.35^{\#}$	$2.43^{e\ \#}$	$9.31^{b\ \#}$	$5.77^{de\ \#}$	$3.98^{e\ \#}$	7.43^{c}	$7.44^{cd\ \#}$	0.664^{c}
JNH	$3.90^{\&}$	5.88^{bc}	$9.32^{b\ \&}$	$8.55^{c\ \&}$	5.02^{d}	10.0^{ab}	11.4^{bc}	$2.88^{b\ \&}$
SN	7.72	6.47^{abc}	$8.90^{b\ \#}$	$12.2^{b\ \#}$	6.99^{c}	10.0^{ab}	$17.8^{a\ \#}$	$6.70^{a\ \#}$
SNH	7.53	4.54^{d}	12.7^{a}	$6.70^{d\ \&}$	5.15^{d}	10.1^{ab}	$13.7^{b\ \&}$	$3.13^{b\ \&}$
SEM	*0.304*	*0.181*	*0.292*	*0.376*	*0.241*	*0.244*	*0.503*	*0.270*
CuNPs dose (D)								
L (6.5 mg/kg)	8.54	5.35	9.45	7.27	6.52	9.42	14.1	4.78
H (13 mg/kg)	7.00	5.99	11.9	8.89	7.17	11.0	11.9	4.34
P value	*0.720*	*0.030*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*0.243*
Fibre type (F)								
C (cellulose)	9.20^{ab}	6.35	10.6	5.46	9.39	10.3	10.3	5.68
P (pectin)	9.64^{a}	6.68	12.1	10.2	7.43	11.7	16.5	5.85
J (inulin)	4.62^{c}	4.16	9.32	7.16	4.50	8.72	9.42	1.77
S (psyllium)	7.63^{b}	5.50	10.8	9.47	6.07	10.1	15.8	4.91
P value	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
Interaction D×F								
P value	*0.206*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*0.020*	*0.001*	*<0.001*

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*The dietary treatments used in the experimental feeding period: groups C and CH, fed a control diet with standard and enhanced Cu content in the mineral mixture (6.5 and 13 mg/kg from $CuCO_3$, respectively) with 8% of cellulose as dietary fibre source; groups CN and CNH, fed diets with supplementation of CuNPs (6.5 and 13 mg/kg from Cu-nanoparticles, respectively) with 8% of cellulose dietary fibre source; groups PN and PNH, fed diets with supplementation of CuNPs (6.5 and 13 mg/kg from Cu-nanoparticles, respectively) with 2% of cellulose and 6% of pectin dietary fibre source; groups JN and JNH, fed diets with supplementation of CuNPs (6.5 and 13 mg/kg from Cu-nanoparticles, respectively) with 2% of cellulose and 6% of inulin dietary fibre source; groups SN and SNH, fed diets with supplementation of CuNPs (6.5 and 13 mg/kg from Cu-nanoparticles, respectively) with 2% of cellulose and 6% of psyllium dietary fibre source; L, treatment (n=40) with dietary CuNPs 6.5 mg/kg dose; H, treatment (n=40) with dietary CuNPs 13 mg/kg dose; C, treatment (n=20) with cellulose as dietary fibre; P, treatment (n=20) with pectin as dietary fibre; J, treatment (n=20) with inulin as dietary fibre; S, treatment (n=20) with psyllium as dietary fibre; $^{a-e}$ Mean values within a column with unlike superscript letters are shown to be significantly different ($P<0.05$); differences among the groups (CN, CNH, PN, PNH, JN, JNH, SN, SNH) are indicated with superscripts only in the case of a statistically significant interaction D×F ($P<0.05$). Additionally, each experimental group fed Cu-NP 6.5 mg/kg (CN, PN, JN, SN) was compared with the control C one with the aid of t-test ($^{\#}$ indicates a significant difference versus the C group); similarly, each experimental group fed Cu-NP 13 mg/kg (CNH, PNH, JNH, SNH) was compared with the control CH one with the aid of t-test ($^{\&}$ indicates a significant difference versus the CH group); SEM, pooled standard error of mean (standard deviation for all rats divided by the square root of rat number, n=100).