

Table S2A Biochemical parameters of blood in rats 28 days after single *iv* application of PBS and TMAOH

Parameter	Unit	Group I (PBS) (n = 3)	Group II (TMAOH) (n = 4)
ALT	μkat/L	1.05 ± 0.08	0.99 ± 0.12
AST	μkat/L	1.76 ± 0.39	1.58 ± 0.11
UREA	mmol/L	6.30 ± 0.44	7.86 ± 1.03
ALB	g/L	33.50 ± 0.70	32.85 ± 0.63
TP	g/L	58.50 ± 1.95	58.25 ± 1.68
CHOL	mmol/L	1.43 ± 0.12	1.39 ± 0.13
TAG	mmol/L	0.95 ± 0.27	0.83 ± 0.21
CREAT	μmol/L	23.83 ± 3.21	22.33 ± 1.70
Ca	mmol/L	2.67 ± 0.17	2.42 ± 0.04
Mg	mmol/L	0.91 ± 0.33	0.95 ± 0.02
P	mmol/L	3.03 ± 0.42	2.60 ± 0.38

Abbreviations: ALT – alanine aminotransferase, AST – aspartate aminotransferase, UREA – urea, ALB – albumin, TP – total proteins, CHOL – cholesterol, TAG – triglycerides, CREAT – creatinine, Ca – calcium, Mg – magnesium, P – phosphorus. Results are expressed as mean ± SEM. Significance: **p* < 0.05; ***p* < 0.01.

Table S2B Hematological parameters in rats 28 days after single *iv* application of PEG-AuNPs and TiO₂NPs

Parameter	Unit	Group I (PBS) (n = 3)	Group II (TMAOH) (n = 4)
WBC	10 ⁹ /L	6.20 ± 0.25	5.80 ± 0.63
RBC	10 ¹² /L	7.45 ± 0.28	8.23 ± 0.34
HGB	g/dL	14.47 ± 0.78	15.80 ± 0.31
HCT	%	43.80 ± 0.78	47.75 ± 1.73
MCV	fL	58.77 ± 0.23	58.05 ± 0.34
MCH	pg	19.37 ± 0.35	19.23 ± 0.47
MCHC	g/dL	32.97 ± 0.55	33.15 ± 0.62
PLT	10 ⁹ /L	690.33 ± 42.12	753.75 ± 78.67
LYM %	%	85.80 ± 0.64	85.80 ± 1.95
LYM	10 ³ /μL	5.33 ± 0.17	4.93 ± 0.49

Abbreviations: WBC - White blood cells; RBC - Red blood cells; HGB – Haemoglobin; HCT – Haematocrit; MCV - Mean Cell Volume; MCH - Mean Cell Haemoglobin; MCHC - Mean Cell Haemoglobin Concentration; PLT – Platelets; LYM – Lymphocytes. Results are expressed as mean ± SEM. Significance: **p* < 0.05.

Table S2C Cytokine and chemokine levels in spleen cell culture supernatants determined 28 days after single *iv* MNPs administration

Cytokine/ chemokine	Unit	Group I (PBS) (n = 3)	Group II (TMAOH) (n = 4)
IL-1 α	pg/mL	679.14 \pm 68.81	572.37 \pm 57.12
IL-1 β	pg/mL	68.70 \pm 4.57	60.35 \pm 7.05
IL-2	ng/mL	13.33 \pm 0.53	12.63 \pm 0.37
IL-4	pg/mL	44.84 \pm 0.88	41.75 \pm 14.28
IL-5	pg/mL	54.00 \pm 4.40	42.13 \pm 6.32
IL-6	pg/mL	19.67 \pm 3.40	15.62 \pm 0.23
IL-10	ng/mL	6.39 \pm 0.17	5.30 \pm 0.78
IL-12p/70	pg/mL	378.74 \pm 61.02	327.22 \pm 36.56
IL-13	pg/mL	27.62 \pm 1.69	42.13 \pm 13.20
IL-17A	pg/mL	621.49 \pm 99.46	308.66 \pm 44.93
IFN- γ	ng/mL	48.07 \pm 9.26	42.86 \pm 13.17
GM-CSF	pg/mL	66.25 \pm 9.94	64.76 \pm 12.76
TNF- α	pg/mL	159.29 \pm 38.94	152.01 \pm 32.26
MIP-2	pg/mL	185.53 \pm 49.78	126.23 \pm 22.75
MCP-1	ng/mL	55.25 \pm 4.92	48.93 \pm 6.33
MCP-3	ng/mL	2.41 \pm 0.35	2.31 \pm 0.31
IP-10	ng/mL	11.47 \pm 0.53	13.62 \pm 1.35
Eotaxin	pg/mL	23.21 \pm 2.35	21.63 \pm 2.33
CXCL1	pg/mL	271.28 \pm 12.80	229.57 \pm 11.58
Rantes	ng/mL	34.39 \pm 5.52	27.95 \pm 1.72

Abbreviations: IL – interleukin, IFN γ – interferon-gamma, G-CSF - Granulocyte-colony stimulating factor, GM-CSF - Granulocyte-macrophage colony-stimulating factor, TNF- α - tumor necrosis factor-alpha, MIP-2 - macrophage inflammatory protein 2, MCP-1 - monocyte chemoattractant protein 1, MCP-3 - monocyte-chemotactic protein 3, IP-10 - Interferon gamma-induced protein 10, eotaxin - eosinophil chemotactic protein, CXCL1 - chemokine (C-X-C motif) ligand 1, Rantes - regulated on activation, normal T cell expressed and secreted, nd – not detected, ac - above calibration curve