

## Supplemental Data

**Supplemental Table 1.** Acute toxicity effects of alone PNP on hematological and blood chemical indices in mice

Parameters	Control	PNP 31.25 mg/kg	PNP 62.5 mg/kg	PNP 125 mg/kg
Animal Weight (g)	24.3 ± 2.2	22 ± 3.3	23.4 ± 2.6	23.4 ± 2.7
RBC (Millin/mm <sup>3</sup> )	6.08 ± 0.2	6.5 ± 0.9	7.6 ± 0.6	*8.8 ± 0.6
HCT (%)	36.4 ± 1.5	36.7 ± 1.8	38.6 ± 2.7	*40.1 ± 2
Hgb (g/dl)	10 ± 1.2	11.6 ± 1.9	12.8 ± 1.9	*14.6 ± 1.6
MCV (fL)	51 ± 0.7	51.1 ± 0.9	49.9 ± 1	52.1 ± 1.2
MCH (pg)	16.5 ± 0.2	16.5 ± 0.4	16.5 ± 0.6	16.3 ± 0.5
MCHC (mol/l)	32.3 ± 0.7	32.6 ± 0.6	32.6 ± 0.8	32.4 ± 0.4
Plt (1000/mm <sup>3</sup> )	567 ± 50	560 ± 71	570 ± 46	578 ± 66
WBC (1000/mm <sup>3</sup> )	6.7 ± 0.8	7.5 ± 2.1	7.8 ± 1.8	7.9 ± 2.4
Neutrophils (%)	35.5 ± 2.3	36.7 ± 5	39 ± 6	41 ± 7
Monocytes (%)	2.1 ± 0.4	2.2 ± 0.4	3.2 ± 1	3.1 ± 0.8
Lymphocytes (%)	56.5 ± 6.7	55 ± 7	56 ± 6	54 ± 6
Na (mM/l)	150.3 ± 2.9	152 ± 3	154 ± 2	*169.1 ± 5
K (mM/l)	5.2 ± 0.5	5.3 ± 1.2	6.3 ± 1.8	*7.7 ± 2
Cl (mM/l)	111 ± 4	115 ± 4	114 ± 5	*119 ± 4
HCO <sup>3-</sup> (mM/l)	22.6 ± 3.2	21.2 ± 2	19.6 ± 2	*15.3 ± 2.3
Osm (mOsm/kg)	307 ± 4.7	308 ± 5	310.2 ± 5	*325 ± 6
Ca (mM/l)	0.72 ± 0.14	0.66 ± 0.2	0.75 ± 0.3	0.88 ± 0.3
Mg (mM/l)	0.29 ± 0.04	0.31 ± 0.02	0.34 ± 0.05	0.36 ± 0.04
Glu (mg/dl)	194 ± 33	190 ± 56	210 ± 39	214 ± 45
Lac (mM/l)	5.4 ± 1.2	5.3 ± 1.4	5.5 ± 2.3	5.8 ± 1.9
Urea (mg/dl)	21.2 ± 2.6	24.3 ± 2.6	27 ± 6	*48 ± 9
Cr (mg/dl)	0.48 ± 0.08	0.52 ± 0.2	0.56 ± 0.2	*1.06 ± 0.2
AST (U/l)	455 ± 45	438 ± 80	529 ± 66	*1500 ± 165
ALT (U/l)	68 ± 8.8	73.6 ± 9.7	116 ± 55	*377 ± 87
ALP (U/l)	763 ± 50	788 ± 55	843 ± 46	*1200 ± 76
GGT (U/l)	5.5 ± 0.5	5.4 ± 0.3	5.7 ± 0.4	*8.2 ± 0.9
ALB (mg/dl)	3 ± 0.2	3.2 ± 0.3	2.7 ± 0.5	3.5 ± 0.5
T.BIL (mg/dl)	0.5 ± 0.03	0.45 ± 0.13	0.55 ± 0.1	0.59 ± 0.09
D.BIL (mg/dl)	0.35 ± 0.05	0.39 ± 0.09	0.35 ± 0.1	0.3 ± 0.09

Values are means ± SEM. \*P<0.05 compared to control. PNP = The polymeric nanoparticle, RBC= Red blood cell, HCT= hematocrit, MCV = Mean Corpuscular Volume, MCH= Mean Corpuscular Hemoglobin, MCHC= Mean Corpuscular Hemoglobin Concentration, WBC= White blood cells, Plt = Platelets, Na = Sodium, K = Potassium, Cl = Chloride, HCO<sup>3-</sup> = Bicarbonate, Osm = osmolarity, Ca = Calcium, Mg =Magnesium, Cr = Creatinine, Lac = Lactate, Glu = Glucose, AST = Aspartate transaminase, ALT = Alanine transaminase, ALP = Alkaline phosphatase, GGT = Gamma-glutamyl transpeptidase, ALB = Albumin, T.BIL = Total bilirubin, D.BIL = Direct Bilirubin.

**Supplemental Table 2.** Chronic toxicity effects of PNP on hematological and blood chemical indices in mice

Groups	Control	PNP 15.63 mg/kg 1 W	PNP 31.25 mg/kg 1 W	PNP 62.5 mg/kg 1 W
Animal Weight (g)	24.3 ± 2.2	23 ± 2.2	23.8 ± 2.5	*18.2 ± 3.1
RBC (Millin/mm <sup>3</sup> )	6.08 ± 0.08	6.5 ± 0.1	6.7 ± 0.4	*8.5 ± 0.5
HCT (%)	36.4 ± 1.7	36.8 ± 2.6	37.5 ± 2.2	42.2 ± 3.3
Hgb (g/dl)	11 ± 1.2	11.5 ± 1.4	10.8 ± 1.4	14.5 ± 2
MCV (FL)	51 ± 0.7	52.1 ± 0.7	51.2 ± 1.5	52.5 ± 1.3
MCH (pg)	16.5 ± 0.2	16.6 ± 0.6	16.7 ± 0.8	16.6 ± 0.7
MCHC (mol/l)	32.3 ± 0.7	32.5 ± 0.5	32.3 ± 0.7	32.7 ± 0.8
Plt (1000/mm <sup>3</sup> )	567 ± 50	579 ± 86	555 ± 59	584 ± 87
WBC (1000/mm <sup>3</sup> )	6.7 ± 0.8	7.4 ± 1.1	7.2 ± 1.9	7.3 ± 1.8
Neutrophils (%)	32.5 ± 2	38 ± 9	35.3 ± 7	39 ± 6
Monocytes (%)	2.1 ± 3	3.3 ± 2.1	2.8 ± 1.3	2.9 ± 1.2
Lymphocytes (%)	66.5 ± 6.4	57 ± 12	63.6 ± 7.2	58 ± 11
Na (mM/l)	150.3 ± 2.9	149.7 ± 3.2	151.2 ± 3.8	*164.2 ± 5.5
K (mM/l)	5.2 ± 0.5	5.7 ± 1.6	4.9 ± 0.4	*7.4 ± 1.6
Cl (mM/l)	111 ± 4	113.6 ± 3.1	113.7 ± 2.8	*119.5 ± 2.5
HCO <sup>3-</sup> (mM/l)	22.6 ± 3.2	16.7 ± 4.9	19.9 ± 3.2	*16.9 ± 2.7
Osm (mOsm/kg)	307 ± 4.7	303.4 ± 10	310.9 ± 9.3	317.8 ± 9
Ca (mM/l)	0.72 ± 0.14	0.63 ± 0.24	0.71 ± 0.27	0.87 ± 0.09
Mg (mM/l)	0.29 ± 0.04	0.31 ± 0.05	0.33 ± 0.06	0.37 ± 0.03
Glu (mg/dl)	194 ± 33	214 ± 35	182 ± 45	89 ± 32
Lac (mM/l)	5.4 ± 1.2	4.9 ± 1.2	5.4 ± 1.3	4.7 ± 1.8
Urea (mg/dl)	21.2 ± 2.6	21.4 ± 3.3	25 ± 2.8	*38.5 ± 3
Cr (mg/dl)	0.48 ± 0.08	0.47 ± 0.06	0.57 ± 0.05	*1.20 ± 0.1
AST (U/l)	455 ± 45	460 ± 69	513 ± 43	*789 ± 55
ALT (U/l)	68 ± 8.8	74.3 ± 7.9	79.3 ± 15	*102 ± 10
ALP (U/l)	763 ± 50	640 ± 73	789 ± 75	*207 ± 23
GGT (U/l)	5.5 ± 0.5	5.7 ± 0.4	5.8 ± 0.6	*8.5 ± 0.9
ALB (mg/dl)	3 ± 0.2	3.4 ± 0.4	3.5 ± 0.5	*1.5 ± 0.4
T.BIL (mg/dl)	0.5 ± 0.03	0.5 ± 0.07	0.55 ± 0.1	0.56 ± 0.09
D.BIL (mg/dl)	0.35 ± 0.05	0.36 ± 0.06	0.33 ± 0.04	0.37 ± 0.07

Values are means ± SEM. \*P<0.05 compared to control. PNP = The polymeric nanoparticle, RBC= Red blood cell, HCT= hematocrit, MCV = Mean Corpuscular Volume, MCH= Mean Corpuscular Hemoglobin, MCHC= Mean Corpuscular Hemoglobin Concentration, WBC= White blood cells, Plt = Platelets, Na = Sodium, K = Potassium, Cl = Chloride, HCO<sup>3-</sup> = Bicarbonate, Osm = osmolarity, Ca = Calcium, Mg =Magnesium, Cr = Creatinine, Lac = Lactate, Glu = Glucose, AST = Aspartate transaminase, ALT = Alanine transaminase, ALP = Alkaline phosphatase, GGT = Gamma-glutamyl transpeptidase, ALB = Albumin, T.BIL = Total bilirubin, D.BIL = Direct Bilirubin.

**Supplemental Table 3.** Chronic toxicity effects of PNPC (31.25 mg/kg) on hematological and blood chemical indices in mice

Groups Parameters	Control	PNPC 1 W	PNPC 2 W	PNPC 4 W	PNPC 12 W
Animal Weight (g)	24.3 ± 2.2	26.3 ± 3.4	28.1 ± 3	30.2 ± 3.1	32.3 ± 3.2
RBC (Millin/mm <sup>3</sup> )	6.08 ± 0.08	6.9 ± 0.3	6.3 ± 0.5	6.8 ± 0.8	7.2 ± 0.9
HCT (%)	38.4 ± 1.7	37.4 ± 1.2	39.4 ± 3.1	39.1 ± 2.2	39.4 ± 2.7
Hgb (g/dl)	10 ± 1.2	9.8 ± 0.9	11.7 ± 1.6	12.1 ± 2.5	11.5 ± 2.6
MCV (FL)	51 ± 0.7	50.4 ± 2	49.5 ± 0.7	49 ± 1.1	50 ± 0.9
MCH (pg)	16.5 ± 0.2	15.7 ± 0.9	16.2 ± 0.2	16.8 ± 0.5	16.1 ± 0.3
MCHC (mol/l)	32.3 ± 0.7	32 ± 0.7	32.6 ± 0.2	32.3 ± 0.7	32.3 ± 0.7
Plt (1000/mm <sup>3</sup> )	567 ± 50	539 ± 53	525 ± 47	580 ± 70	570 ± 58
WBC (1000/mm <sup>3</sup> )	6.7 ± 0.8	6.5 ± 1.8	8.4 ± 2.1	7.1 ± 0.9	7.3 ± 0.9
Neutrophils (%)	32.5 ± 2	38.5 ± 11	39 ± 4.1	37.5 ± 4	35.5 ± 0.9
Monocytes (%)	2.1 ± 3	1.8 ± 1	3.5 ± 1.5	3.1 ± 1.2	3.7 ± 1.2
Lymphocytes (%)	66.5 ± 6.4	60.8 ± 5.8	58.2 ± 7.1	60.5 ± 5.4	61.5 ± 5.7
Na (mM/l)	150.3 ± 2.9	151.2 ± 3.8	153.5 ± 2.2	153.3 ± 2.8	154.1 ± 3.3
K (mM/l)	5.2 ± 0.5	4.9 ± 0.4	6.1 ± 2.0	6.2 ± 0.8	6.5 ± 0.7
Cl (mM/l)	111 ± 4	112.7 ± 1.8	110.5 ± 3.2	115 ± 6	115 ± 5
HCO <sup>3-</sup> (mM/l)	22.6 ± 3.2	19.9 ± 3.2	22.8 ± 2.5	25.5 ± 4.2	26.6 ± 5.4
Osm(mOsm/kg)	307 ± 4.7	306.9 ± 8.2	309 ± 6	312 ± 5.7	313 ± 5.2
Ca (mM/l)	0.72 ± 0.14	0.74 ± 0.07	0.81 ± 0.2	0.82 ± 0.2	0.85 ± 0.15
Mg (mM/l)	0.29 ± 0.04	0.32 ± 0.04	0.29 ± 0.02	0.33 ± 0.07	0.35 ± 0.6
Glu (mg/dl)	194 ± 33	172 ± 40	208 ± 27	214 ± 35	204 ± 30
Lac (mM/l)	5.4 ± 1.2	5.1 ± 1.1	6.2 ± 2.1	5.2 ± 1.1	5.0 ± 2.2
Urea (mg/dl)	21.2 ± 2.6	20 ± 2.6	25.7 ± 3.5	25.2 ± 3.6	24.4 ± 3.4
Cr (mg/dl)	0.48 ± 0.08	0.53 ± 0.03	0.58 ± 0.15	0.62 ± 0.09	0.61 ± 0.07
AST (U/l)	455 ± 45	503 ± 33	568 ± 61	495 ± 55	555 ± 60
ALT (U/l)	68 ± 8.8	76.3 ± 12	77 ± 18	84 ± 17	78 ± 23
ALP (U/l)	763 ± 50	666 ± 85	872 ± 98	863 ± 90	843 ± 75
GGT (U/l)	5.5 ± 0.5	-	-	5.2 ± 0.6	5.6 ± 0.5
ALB (mg/dl)	3 ± 0.2	-	-	3.1 ± 0.3	3.2 ± 0.4
T.BIL (mg/dl)	0.5 ± 0.03	-	-	0.48 ± 0.04	0.52 ± 0.03
D.BIL (mg/dl)	0.35 ± 0.05	-	-	0.36 ± 0.04	0.37 ± 0.06

Values are means ± SEM. \*P<0.05 compared to control. PNPC = The polymeric nanoparticle curcumin, RBC= Red blood cell, HCT= hematocrit, MCV = Mean Corpuscular Volume, MCH= Mean Corpuscular Hemoglobin, MCHC= Mean Corpuscular Hemoglobin Concentration, WBC= White blood cells, Plt = Platelets, Na = Sodium, K = Potassium, Cl = Chloride, HCO<sup>3-</sup> = Bicarbonate, Osm = osmolarity, Ca = Calcium, Mg =Magnesium, Cr = Creatinine, Lac = Lactate, Glu = Glucose, AST = Aspartate transaminase, ALT = Alanine transaminase, ALP = Alkaline phosphatase, GGT = Gamma-glutamyl transpeptidase, ALB = Albumin, T.BIL = Total bilirubin, D.BIL = Direct Bilirubin.

**Supplemental Table 4.** Acute toxicity effects of high dose of PNPC and PNP on hematological and blood chemical indices in mice

Groups Parameters	PNP 62.5 mg/kg	PNP 125 mg/kg	PNPC 62.5 mg/kg	PNPC 125 mg/kg
Animal Weight (g)	23.4 ± 2.6	23.4 ± 2.7	24.7 ± 2.5	23.2 ± 2.2
RBC (Millin/mm <sup>3</sup> )	7.6 ± 0.6	8.8 ± 0.6	7.2 ± 0.5	8.2 ± 0.4
HCT (%)	38.6 ± 2.7	40.1 ± 2	38.5 ± 2.5	42.5 ± 2
Hgb (g/dl)	12.8 ± 1.9	14.6 ± 1.6	11.7 ± 1.3	13.4 ± 1.6
MCV (FL)	49.9 ± 1	52.1 ± 1.2	49.3 ± 1.5	49.1 ± 1.2
MCH (pg)	16.5 ± 0.6	16.3 ± 0.5	15.5 ± 0.4	15.3 ± 0.3
MCHC (mol/l)	32.6 ± 0.8	32.4 ± 0.4	32.2 ± 0.4	32.5 ± 0.3
Plt (1000/mm <sup>3</sup> )	570 ± 46	578 ± 66	570 ± 45	540 ± 38
WBC (1000/mm <sup>3</sup> )	7.8 ± 1.8	7.9 ± 2.4	7.9 ± 1.5	8.1 ± 2.2
Neutrophils (%)	39 ± 6	41 ± 7	38 ± 5	38.2 ± 6
Monocytes (%)	3.2 ± 1	3.1 ± 0.8	3.1 ± 1	2.1 ± 0.8
Lymphocytes (%)	56 ± 6	54 ± 6	57.2 ± 5	57 ± 4
Na (mM/l)	154 ± 2	169.1 ± 5	154.2 ± 2.1	157.1 ± 1.5
K (mM/l)	6.3 ± 1.8	7.7 ± 2	6.1 ± 1.7	8.2 ± 2.2
Cl (mM/l)	114 ± 5	119 ± 4	114 ± 2	117 ± 3
HCO <sup>3-</sup> (mM/l)	19.6 ± 2	15.3 ± 2.3	17.5 ± 2.2	16.3 ± 2.7
Osm (mOsm/kg)	310.2 ± 5	325 ± 6	312.2 ± 7	320 ± 8
Ca (mM/l)	0.75 ± 0.3	0.88 ± 0.3	0.65 ± 0.2	0.66 ± 0.3
Mg (mM/l)	0.34 ± 0.05	0.36 ± 0.04	0.25 ± 0.04	0.31 ± 0.03
Glu (mg/dl)	210 ± 39	214 ± 45	182 ± 30	176 ± 25
Lac (mM/l)	5.5 ± 2.3	5.8 ± 1.9	5.2 ± 2	5.7 ± 1.8
Urea (mg/dl)	27 ± 6	48 ± 9	26 ± 5	43 ± 7
Cr (mg/dl)	0.56 ± 0.2	1.06 ± 0.2	0.55 ± 0.07	0.92 ± 0.12
AST (U/l)	529 ± 66	1500 ± 165	777 ± 80	1280 ± 152
ALT (U/l)	116 ± 55	377 ± 87	86 ± 21	258 ± 86
ALP (U/l)	843 ± 46	1200 ± 76	825 ± 36	1187 ± 92
GGT (U/l)	5.7 ± 0.4	8.2 ± 0.9	-	6.2 ± 0.6
ALB (mg/dl)	2.7 ± 0.5	3.5 ± 0.5	-	2.8 ± 0.4
T.BIL (mg/dl)	0.55 ± 0.1	0.59 ± 0.09	-	0.47 ± 0.05
D.BIL (mg/dl)	0.35 ± 0.1	0.3 ± 0.09	-	0.32 ± 0.04

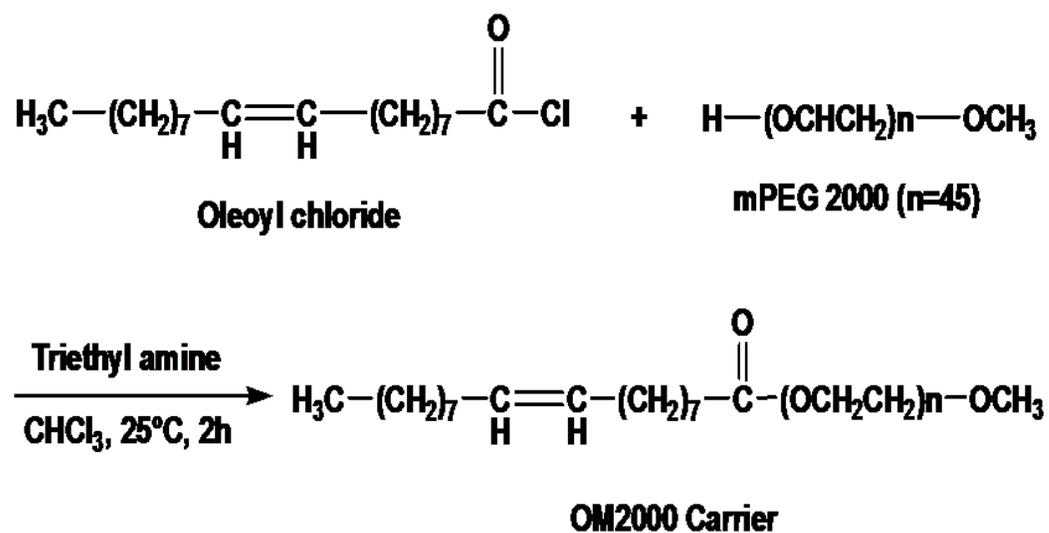
Values are means ± SEM. \*P<0.05 compared to PNCP. PNP = The polymeric nanoparticle, PNPC = The polymeric nanoparticle curcumin, RBC= Red blood cell, HCT= hematocrit, MCV = Mean Corpuscular Volume, MCH= Mean Corpuscular Hemoglobin, MCHC= Mean Corpuscular Hemoglobin Concentration, WBC= White blood cells, Plt = Platelets, Na = Sodium, K = Potassium, Cl = Chloride, HCO<sup>3-</sup> = Bicarbonate, Osm = osmolarity, Ca = Calcium, Mg =Magnesium, Cr = Creatinine, Lac = Lactate, Glu = Glucose, AST = Aspartate transaminase, ALT = Alanine transaminase, ALP = Alkaline phosphatase, GGT = Gamma-glutamyl transpeptidase, ALB = Albumin, T.BIL = Total bilirubin, D.BIL = Direct Bilirubin.

**Supplemental Table 5.** Chronic toxicity effects of high dose of PNP and PNP on hematological and blood chemical indices and the organs weight percentage in mice

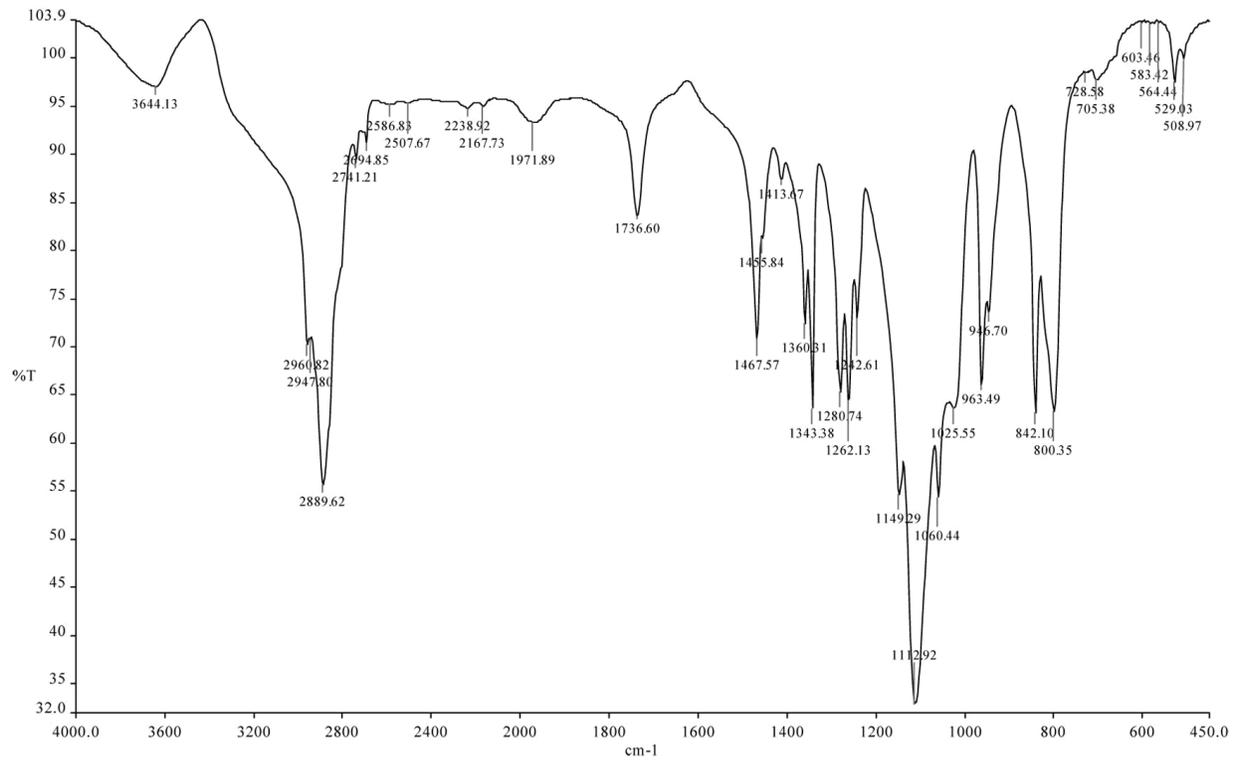
Groups	PNP 31.25 mg/kg	PNP 62.5 mg/kg	PNPC 31.25 mg/kg	PNPC 62.5 mg/kg
Parameters				
Animal Weight (g)	23.8 ± 2.5	18.2 ± 3.1	23.3 ± 3.4	18.3 ± 2.7
RBC (Millin/mm <sup>3</sup> )	6.7 ± 0.4	8.5 ± 0.5	6.9 ± 0.3	7.7 ± 0.4
HCT (%)	37.5 ± 2.2	42.2 ± 3.3	37.4 ± 1.2	40.3 ± 3.2
Hgb (g/dl)	10.8 ± 1.4	14.5 ± 2	9.8 ± 0.9	12.3 ± 1
MCV (FL)	51.2 ± 1.5	52.5 ± 1.3	50.4 ± 2	49.5 ± 1.5
MCH (pg)	16.7 ± 0.8	16.6 ± 0.7	15.7 ± 0.9	15.6 ± 0.5
MCHC (mol/l)	32.3 ± 0.7	32.7 ± 0.8	32 ± 0.7	32.2 ± 0.6
Plt (1000/mm <sup>3</sup> )	555 ± 59	584 ± 87	539 ± 53	594 ± 41
WBC (1000/mm <sup>3</sup> )	7.2 ± 1.9	7.3 ± 1.8	6.5 ± 1.8	7.7 ± 2.1
Neutrophils (%)	35.3 ± 7	39 ± 6	38.5 ± 11	42 ± 9
Monocytes (%)	2.8 ± 1.3	2.9 ± 1.2	1.8 ± 1	3.8 ± 2.2
Lymphocytes (%)	63.6 ± 7.2	58 ± 11	60.8 ± 5.8	51 ± 13
Na (mM/l)	151.2 ± 3.8	164.2 ± 5.5	151.2 ± 3.8	157.4 ± 1.5
K (mM/l)	4.9 ± 0.4	5.4 ± 1.6	4.9 ± 0.4	4.3 ± 0.8
Cl (mM/l)	113.7 ± 2.8	119.5 ± 2.5	112.7 ± 1.8	115.5 ± 2.3
HCO <sup>3-</sup> (mM/l)	19.9 ± 3.2	16.9 ± 2.7	19.9 ± 3.2	18.9 ± 2.7
Osm (mOsm/kg)	310.9 ± 9.3	317.8 ± 9	306.9 ± 8.2	315.8 ± 7
Ca (mM/l)	0.71 ± 0.27	0.87 ± 0.09	0.74 ± 0.07	0.97 ± 0.6
Mg (mM/l)	0.33 ± 0.06	0.37 ± 0.03	0.32 ± 0.04	0.35 ± 0.03
Glu (mg/dl)	182 ± 45	89 ± 32	172 ± 40	212 ± 30
Lac (mM/l)	5.4 ± 1.3	4.7 ± 1.8	5.1 ± 1.1	4.3 ± 1.5
Urea (mg/dl)	25 ± 2.8	*38.5 ± 3	20 ± 2.6	24.5 ± 3.8
Cr (mg/dl)	0.57 ± 0.05	1.20 ± 0.1	0.53 ± 0.03	0.98 ± 0.08
AST (U/l)	513 ± 43	*789 ± 55	503 ± 33	585 ± 36
ALT (U/l)	79.3 ± 15	102 ± 10	76.3 ± 12	92.3 ± 5
ALP (U/l)	789 ± 75	211 ± 33	666 ± 85	207 ± 23
GGT (U/l)	5.8 ± 0.6	8.5 ± 0.9	5.9 ± 0.8	6.4 ± 1
ALB (mg/dl)	3.5 ± 0.5	*1.5 ± 0.4	3.4 ± 0.6	2.3 ± 0.3
T.BIL (mg/dl)	0.55 ± 0.1	0.56 ± 0.09	0.47 ± 0.13	0.56 ± 0.1
D.BIL (mg/dl)	0.33 ± 0.04	0.37 ± 0.07	0.38 ± 0.08	0.34 ± 0.05

Values are means ± SEM. \*P<0.05 compared to PNPC. PNP = The polymeric nanoparticle, PNPC = The polymeric nanoparticle curcumin, RBC= Red blood cell, HCT= hematocrit, MCV = Mean Corpuscular Volume, MCH= Mean Corpuscular Hemoglobin, MCHC= Mean Corpuscular Hemoglobin Concentration, WBC= White blood cells, Plt = Platelets, Na = Sodium, K = Potassium, Cl = Chloride, HCO<sup>3-</sup> = Bicarbonate, Osm = osmolarity, Ca = Calcium, Mg =Magnesium, Cr = Creatinine, Lac = Lactate, Glu = Glucose, AST = Aspartate transaminase, ALT = Alanine transaminase, ALP = Alkaline phosphatase, GGT = Gamma-glutamyl transpeptidase, ALB = Albumin, T.BIL = Total bilirubin, D.BIL = Direct Bilirubin.

Supplemental data Fig. 1.

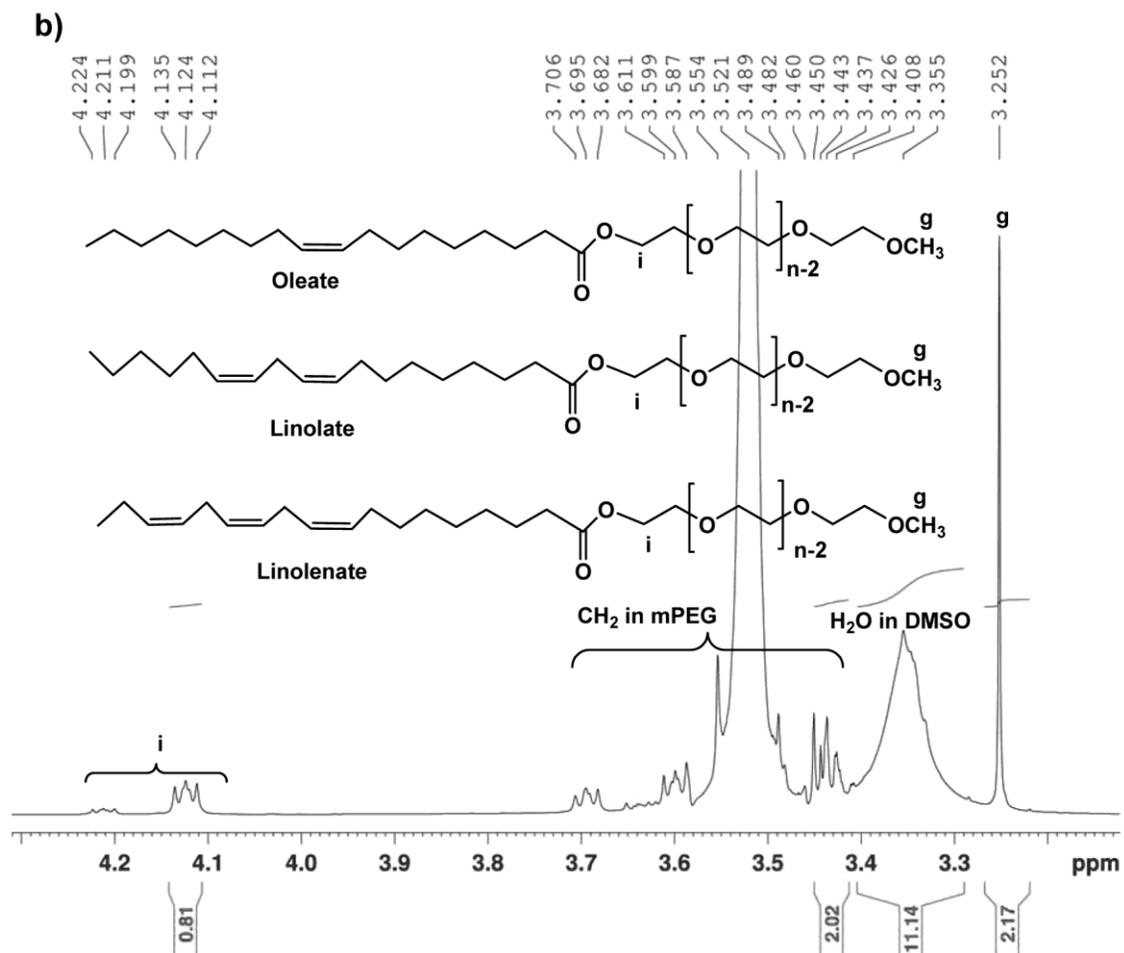


Supplemental data Fig. 2.

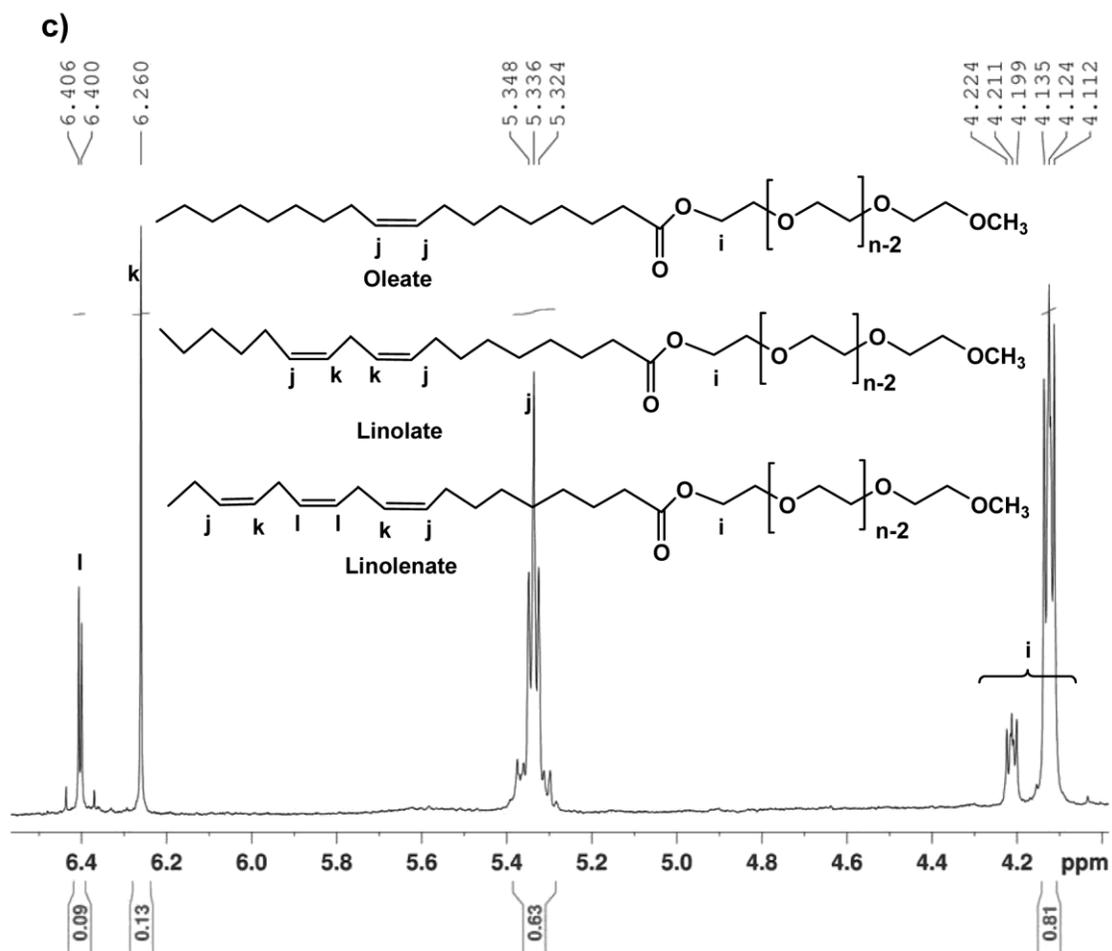




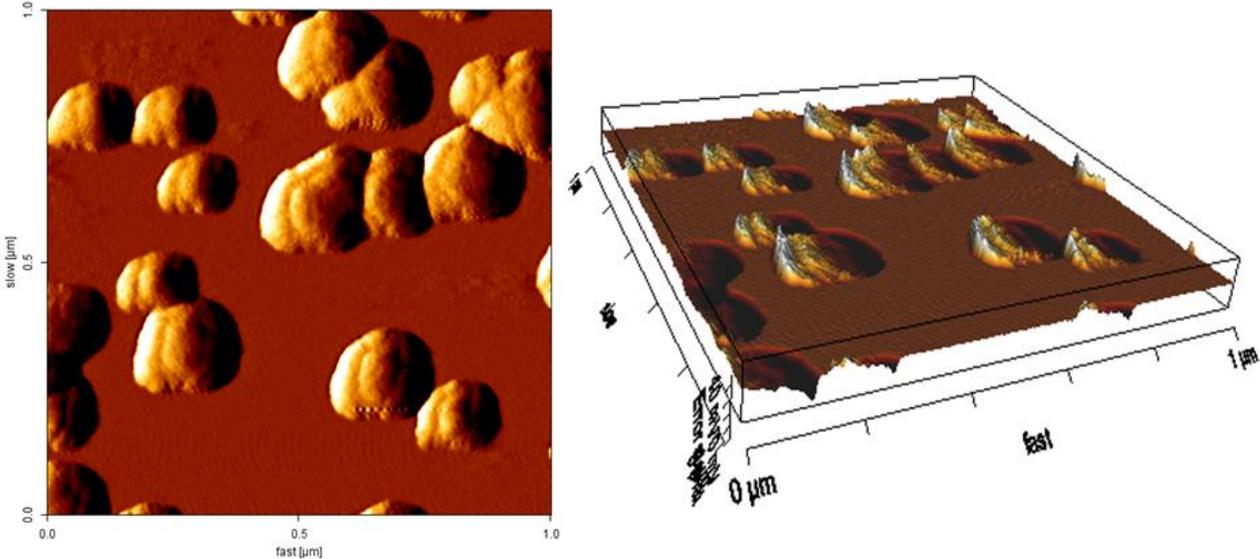
Supplemental data Fig. 3B.



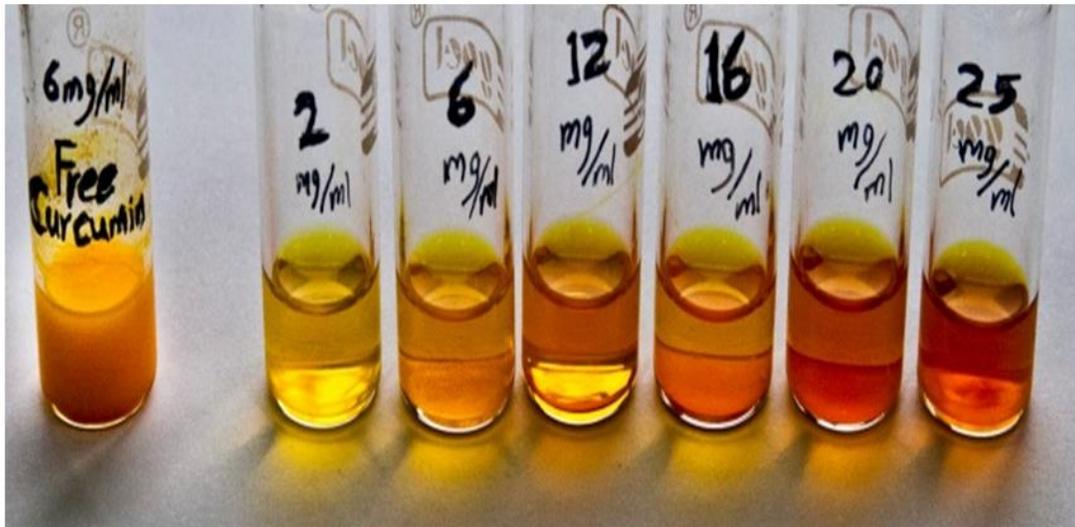
Supplemental data Fig. 3C.



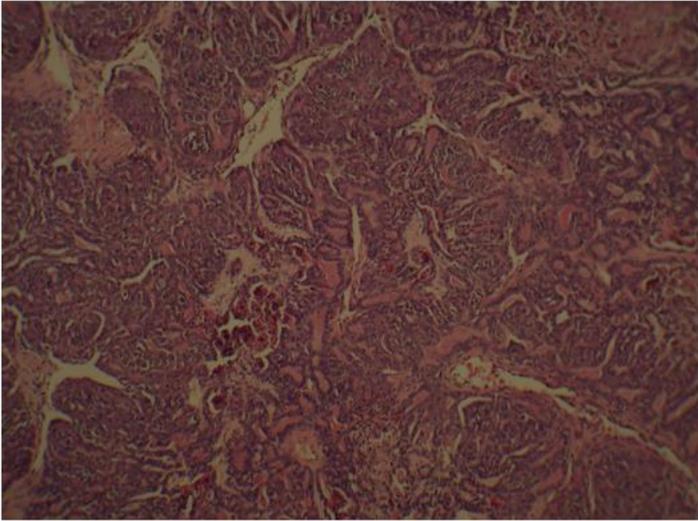
Supplemental data Fig. 4.



Supplemental data Fig. 5.



**Supplemental data Fig. 6.**



Supplemental data Fig. 7.

