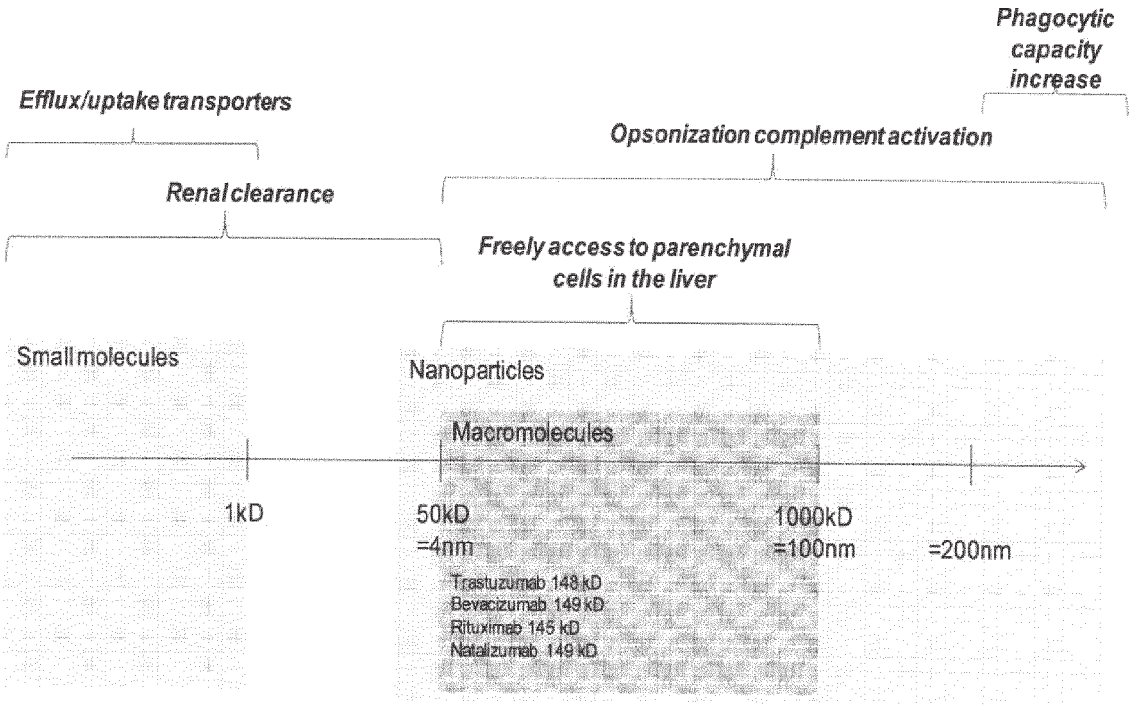

Phagocytic capacity increase
Efflux/uptake transporters
Opsonization complement activation
Renal clearance
Freely access to parenchymal cells in the liver
Small molecules
Nanoparticles
Macromolecules
1kD
50kD
=4nm
1000kD
=100nm
=200nm
Trastuzumab 148 kD
Bevacizumab 149 kD
Rituximab 145 kD
Natalizumab 149 kD

FIGURE 1

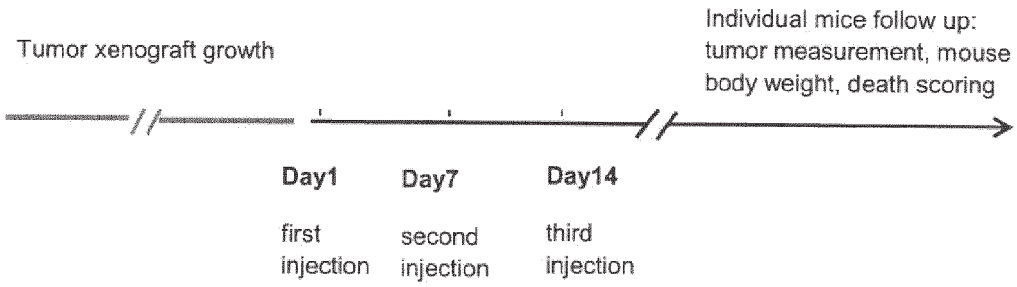

Tumor xenograft growth
Individual mice follow up:
tumor measurement, mouse
body weight, death scoring
Day1
first
injection
Day7
second
injection
Day14
third
injection

FIGURE 2

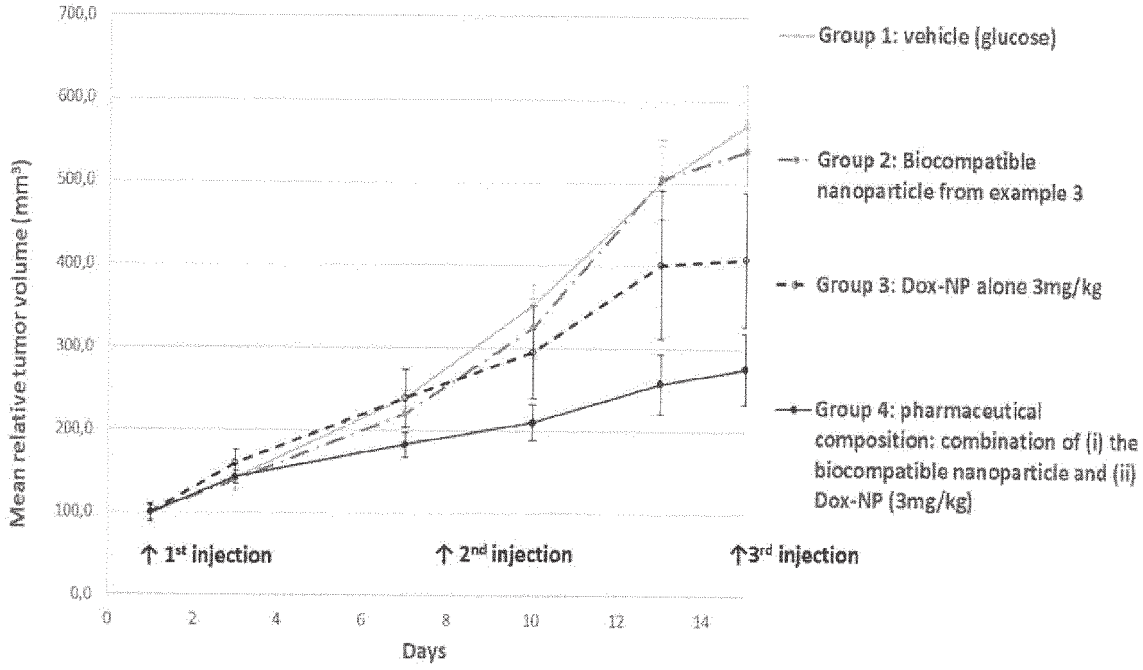

Mean relative tumor volume (mm³)
700,0
600,0
500,0
400,0
300,0
200,0
100,0
0,0
0
2
4
6
8
10
12
14
Days
↑ 1st injection
↑ 2nd injection
↑3rd injection
Group 1: vehicle (glucose)
Group 2: Biocompatible nanoparticle from example 3
Group 3: Dox-NP alone 3mg/kg
Group 4: pharmaceutical composition: combination of (i) the biocompatible nanoparticle and (ii) Dox-NP (3mg/kg)

FIGURE 3