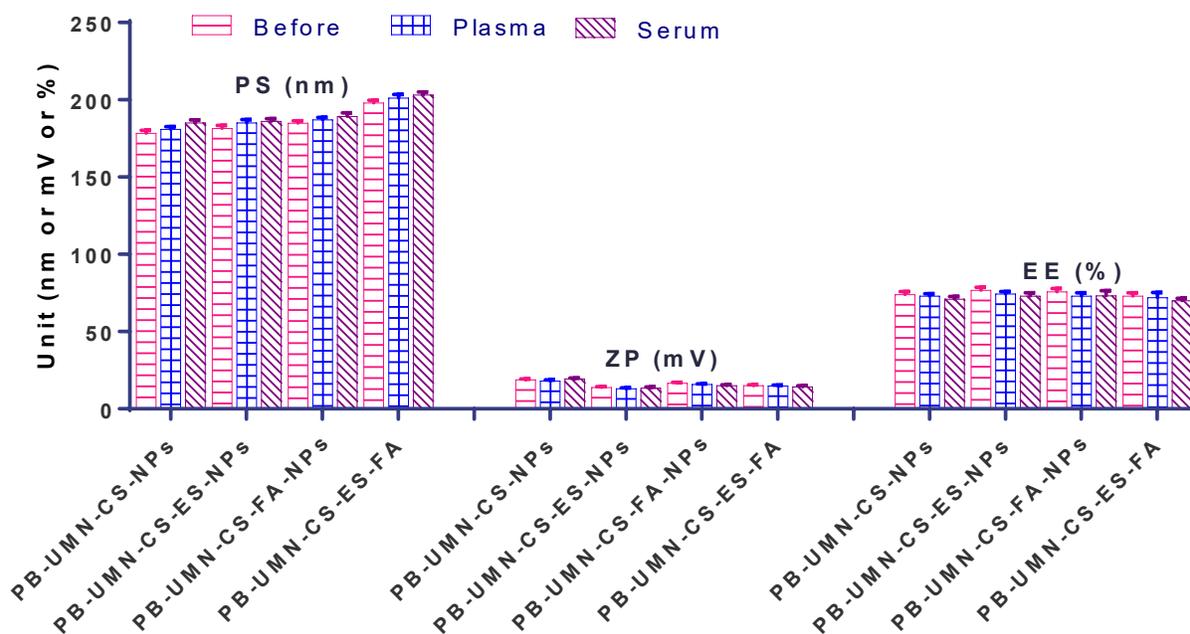


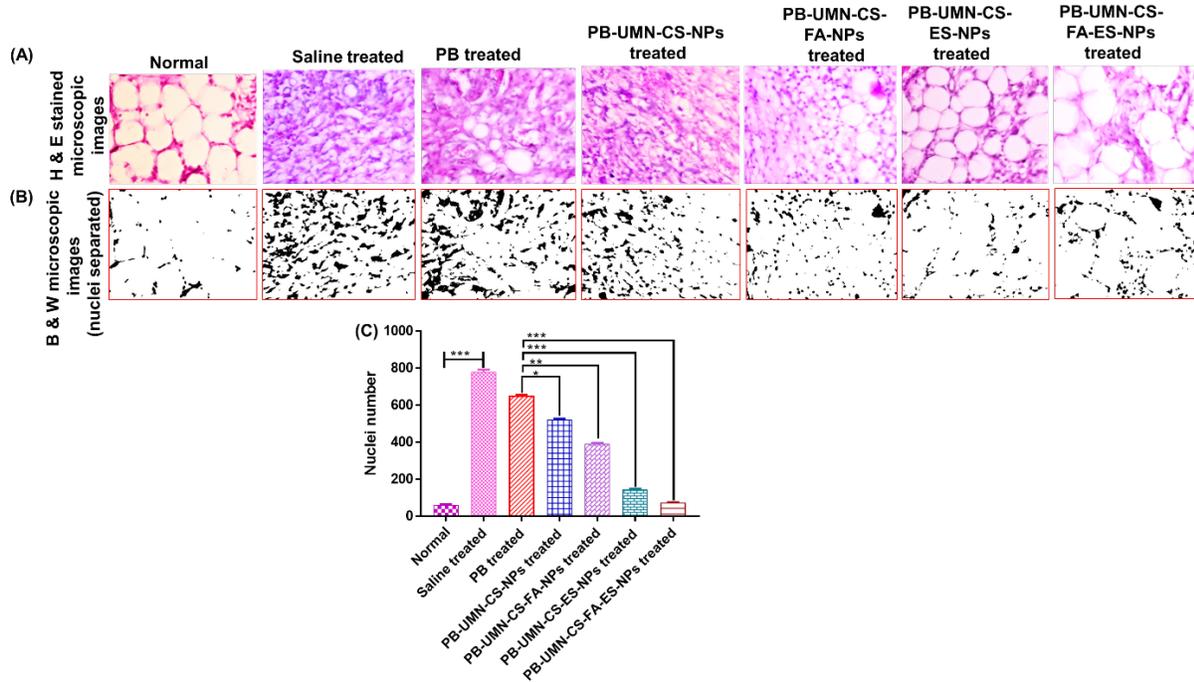
1
2 **Fig. S1.** (A) Hemocompatibility study; I) DI water, II) Saline, III) PB, IV) PB-UMN-CS-NPs, V)
3 PB-UMN-CS-FA-NPs, VI) PB-UMN-CS-ES-NPs and PB-UMN-CS-FA-ES-NPs, (B) Hemolysis
4 study; DI water, II) Saline, III) PB, IV) PB-UMN-CS-NPs, V) PB-UMN-CS-FA-NPs, VI) PB-
5 UMN-CS-ES-NPs and PB-UMN-CS-FA-ES-NPs.

6
7
8
9
10
11



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

Fig. S2. *In vitro* physiological stability of the NPs in plasma and serum



1
2
3
4
5
6
7
8
9
10
11
12
13

Fig. S3. A) Histopathological H & E staining of normal, saline treated, PB, PB-UMN-CS-NPs, PB-UMN-CS-FA-NPs, PB-UMN-CS-ES-NPs and PB-UMN-CS-FA-ES-NPs treated rat breast tumor samples. B) B&W images of separated nuclei of normal, saline treated, PB, PB-UMN-CS-NPs, PB-UMN-CS-FA-NPs, PB-UMN-CS-ES-NPs and PB-UMN-CS-FA-ES-NPs treated rat breast tumor sample, C) histogram showing the number of separated nuclei from HE B&W images.