Fluorescent Labeling of Hyaluronic Acid-Chitosan Nanocarriers by Protein-Stabilized Gold Nanoclusters

Árpád Turcsányi 1, Ditta Ungor 1 and Edit Csapó 1,2,*

1 Department of Physical Chemistry and Materials Science, University of Szeged, H-6720, Rerrich Béla Square 1, Szeged, Hungary
2 MTA-SZTE Biomimetic Systems Research Group, Department of Medical Chemistry, Faculty of Medicine, University of Szeged, H-6720, Dóm Square 8, Szeged, Hungary
* Correspondence: juhaszne.csapo.edit@med.u-szeged.hu

Supplementary Materials

Figure S1. Representative XPS spectra of (a) LYZ-Au NC and (b) BSA-Au NC.

Figure S2. Representative DLS curves of type III NPs labeled with (a) BSA-Au NC or (b) LYZ-Au NC, with the blank (black), labeled (red) and labeled, drug-loaded carriers (green).
Figure S3. Fluorescence microscopy images of BSA- (left) and LYZ-(right) Au NCs-labeled type III NPs with 10:1 mass ratio (upper: addition of 50 µL NC dispersion; below: addition of 140 µL NC dispersion $c_{Au} = 0.0163$ (upper) and 0.0615 (below)).

Figure S4. Fluorescence microscopy images of BSA- (left) and LYZ-(right) Au NCs-labeled type II NPs with 40:1 mass ratio (upper: addition of 50 µL NC dispersion; below: addition of 350 µL NC dispersion $c_{Au} = 0.0215$ (upper) and 0.1621 (below)).