Electronic Supplementary Material (ESI) for Metallomics. This journal is © The Royal Society of Chemistry 2015

Supporting information

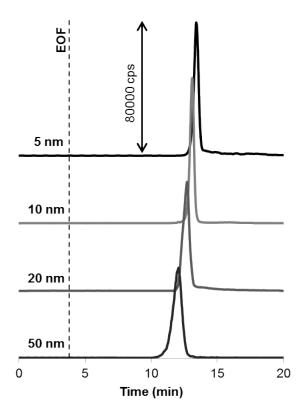


Fig. S-1 Representative electropherograms for gold nanoparticles of varying size $(9.5 \text{ mg L}^{-1} \text{ Au})$ obtained with CE-ICP-MS. See Table 1 and Experimental section for conditions.

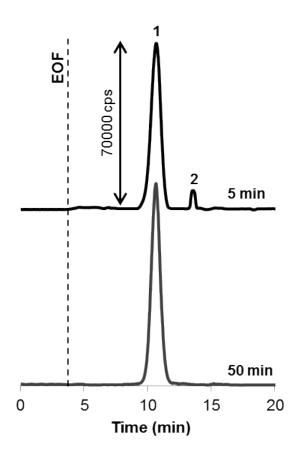


Fig. S-2 CE-ICP-MS electropherograms of 5-nm gold particles interacting with albumin under simulated physiological conditions (10 mM phosphate buffer, pH 7.4, 100 mM NaCl). Sample: 9.5 mg L^{-1} gold nanoparticles, 19 mg L^{-1} albumin. Peak assignment: 1 – albumin conjugate; 2 – gold nanoparticles. EOF = electroosmotic flow. See Table 1 and Experimental section for CE-ICP-MS conditions.

 Table S-1
 Binding of gold nanoparticles to transferrin

Nanoparticle	19	38
concentration		
$(mg L^{-1} Au)$		
Size (nm)	Relative peak area (%) ^a	
	Apo-transferrin	Holo-transferrin
5	ND^b	ND
10	1.9 ± 0.2	ND
20	5.1±0.2	1.7 ± 0.1
50	7.6±0.3	3.9 ± 0.2

^a Calculated on the basis of measurements made after 30-min incubation; n = 3.

^b Not detected.