

**Supporting information for**

**The Nanostructured Secretome**

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			size	$\zeta$ -potential (pH 7.4)	$\rho$
nanosized macromolecular complexes	albumin		7.50 nm · 6.50 nm · 4.00 nm	n.r.	1.38 g · cm <sup>-3</sup>
	transferrin	Apo	8.02 nm · 4.28 nm · 6.25 nm	n.r.	1.41 g · cm <sup>-3</sup>
		Holo		- 8.20 mV	
	ferritin	Apo	12.00 nm	n.r.	1.27 g · cm <sup>-3</sup>
		Holo		n.r.	1.45 g · cm <sup>-3</sup>
ago-2		9.00 nm · 5.48 nm · 9.16 nm	n.r.	n.r.	
extracellular vesicles	small		30 nm - 250 nm	- 15 mV / - 34 mV	1.110 g · cm <sup>-3</sup> - 1.1190 g · cm <sup>-3</sup>
	large		150 nm - 800 nm	n.r.	
	outer membrane		30 - 300 nm	n.r.	n.r.
lipoproteins	chylomicrons		80 nm - > 500 nm	- 32.60 ± 3.01 mV	< 0.950 g cm <sup>-3</sup>
	VLDL		30 nm - 80 nm	- 25.40 ± 3.82 mV	1.006 g · cm <sup>-3</sup> - 0.950 g · cm <sup>-3</sup>
	IDL		30 nm - 40 nm	- 17.40 ± 2.98 mV	1.020 g · cm <sup>-3</sup> - 1.006 g · cm <sup>-3</sup>
	LDL		20 nm - 30 nm	-19.25 ± 3.58 mV	1.060 g · cm <sup>-3</sup> - 1.020 g · cm <sup>-3</sup>
	HDL		5 nm - 10 nm	- 21.83 ± 4.07 mV	1.200 g · cm <sup>-3</sup> - 1.060 g · cm <sup>-3</sup>
milk particles	fat globules		100 nm - > 1000 nm	- 7.9 mV / - 11 mV	~ 0.92 g · cm <sup>-3</sup>
	casein micelles		50 nm - 250 nm	- 20.1 mV	~ 1.078 g · cm <sup>-3</sup>

**Table S1:** Direct comparison of secNP size,  $\zeta$ -potential at physiological pH and density of nanostructured secretome. Extensive information can be found in the manuscript. For nanosized macromolecular complexes data refer to **Figure 2**; for extracellular vesicles data refer to **Figure 3**; for lipoproteins data refer to **Figure 5**; for milk particles data refer to **Figure 6**. Unknown parameters are here marked as “n.r.” (not reported). Legend:  $\rho$  = density