Description of Additional Supplementary Files

Supplementary Movie 1: The reconstructed Cryo-ET volumes of the polystyrene nanoparticles.

Supplementary Movie 2: The reconstructed Cryo-ET volumes of the biomolecular corona coated polystyrene nanoparticles after interactions with 10% human plasma.

Supplementary Movie 3: The reconstructed Cryo-ET volumes of the biomolecular corona coated polystyrene nanoparticles after interactions with 50% human plasma.

Supplementary Movie 4: The 3D reconstructed Cryo-ET volumes of the reconstructed biomolecular corona structure (blue and yellow colors show nanoparticles and protein clusters, respectively).

Supplementary Movies 5 to 23: Show a 3D reconstruction of the biomolecular corona around selected nanoparticles.

- -The coordinates of the center of mass (as detected by the analysis code) of the NP is displayed at the beginning of the videos (z: photo stack number, x,y: pixel coordinates of the center of mass in the image).
- -On the bottom left of the video the sample tag together with the concentration classification is displayed (LowCone and HighCone correspond to the 10% and 50% plasma concentrations).
- -On the bottom right of the video the nanoparticle's number tag is used to distinguish between the nanoparticles in the 10% and 50% plasma concentrations.

Blue voxels (3d pixels) show the nanoparticles and the white voxels show protein clusters detected around the surface of nanoparticles by the analysis code.