



**Supplementary Figure 1:** Summary of the Reaction of SOF vs. HDL. SOF interacts with HDL resulting in the physical binding of two or more HDL particles causing cholesteryl ester lipid transfer to one main HDL host. The reaction gives rise to three distinct products: (1) a large cholesteryl ester-rich particle (CERM) that contains nearly all the neutral lipids of >100,000 HDL particles, (2) lipid-free (LF) APOA1, and (3) a small HDL remnant (neo HDL). The CERM contains APOE and its dimer with APOA2 as its sole proteins.