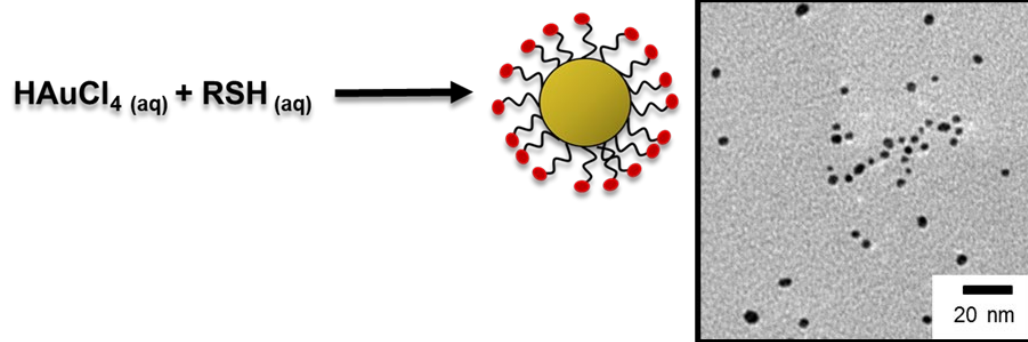


Lohse Research Group

Physiochemical Transformations of Engineered Nanoparticles (NPs)

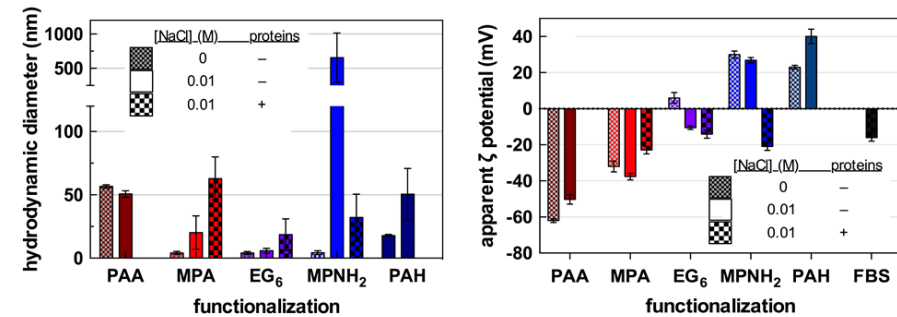
Engineered nanomaterials (metals, polymers, and semiconductors with one dimension < 100 nm) are becoming a common component in consumer products. ENPs are much in demand because of their size-dependent optical, electronic, and catalytic properties. NPs are an emerging class of chemical contaminants, whose potential hazards are difficult to gauge.

NP Synthesis and Characterization



We seek to connect the physiochemical properties of NPs (size, shape, and chemical composition) to their fundamental behaviors in environmental and biological systems.

NP Physiochemical Transformations



High-Throughput NP Detection

