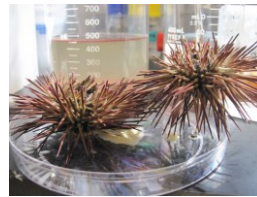


NANOPARTICLES

Nanoparticles are prized for their unique properties and have been rapidly incorporated into many consumer and medical products. However there are many uncertainties about their potential toxicity, especially those related to Ag and Ti nanoparticles – found extensively in sunscreens, cosmetics, sportswear, etc. We have been using marine invertebrates such as oysters and sea urchins as valuable model organisms for investigating the potential impacts of engineered nanoparticles on fundamental cellular processes as well as estuarine resources.



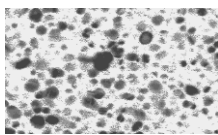
Crassostrea virginica



Arbacia punctulata

These investigations have been a collaborative effort with colleagues at Wake Forest University Nanotechnology Center, funded by USEPA STAR.

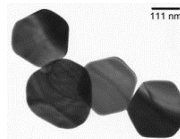
Pictures of the different nanoparticles studied in the Ringwood Laboratory



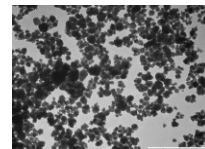
AgNP
“Spheres”



AgNP
“Prisms”



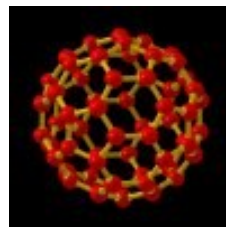
AgNP
“Plates”



TiO NP



Quantum Dots



Fullerenes

