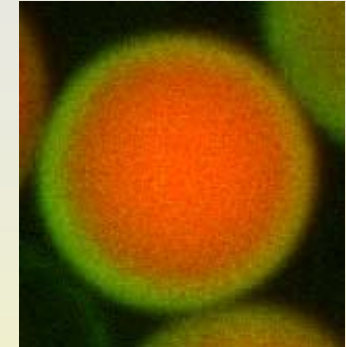
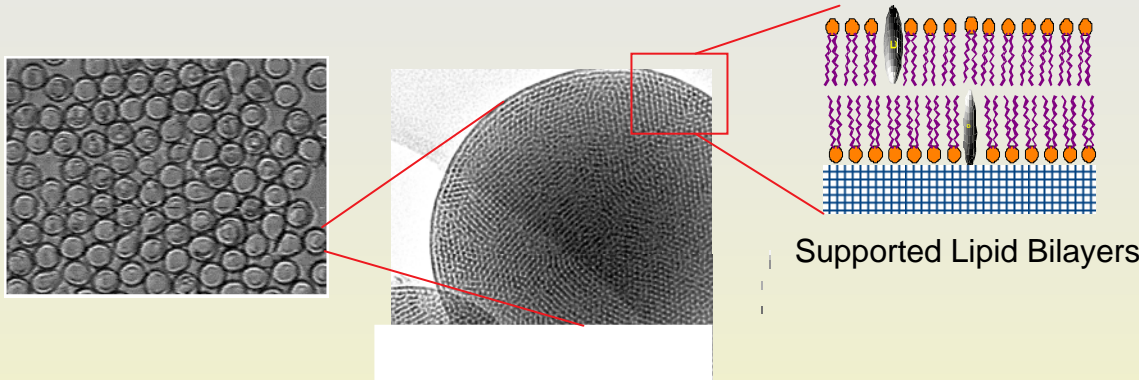


Smart Mesoporous Silica Beads for Biomedical Applications

NSF NIRT: T Ward, J Brinker, A Datye, F van Swol, G Lopez



Lipid bilayer on a dye filled porous microbead

Concept - Support lipid bilayers and ion channel forming proteins on water-filled porous particulate supports that permit water contact with upper and lower membrane leaflets and protein loops, mimicking the construction of cells.

FRAP of rhodamine within a mesoporous microsphere (~ 10 μm dia.)

