

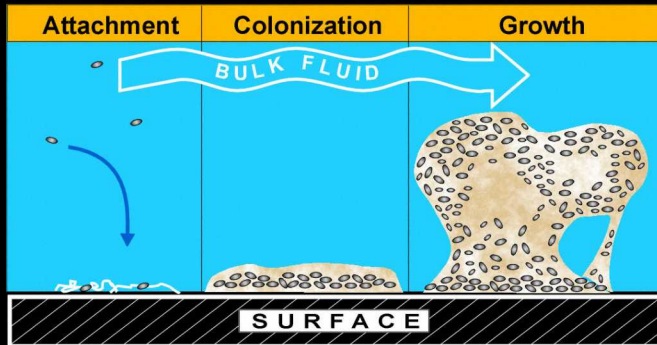
Nanoparticles to Mitigate Biofilm Growth

Susan J. Altman, Sandia National Laboratories (sjaltma@sandia.gov)

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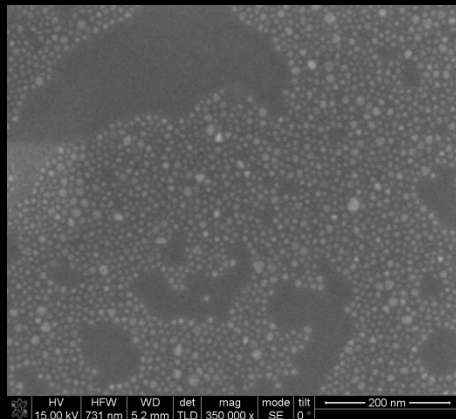
Biofilms are:

Colonies of microorganisms

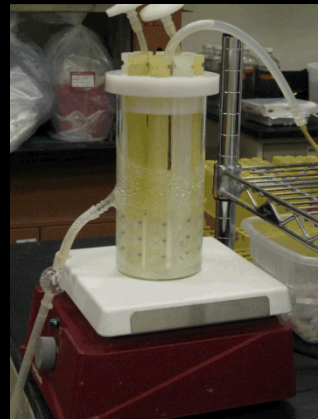
Attached to a surface

Encased in an extracellular polymeric substance

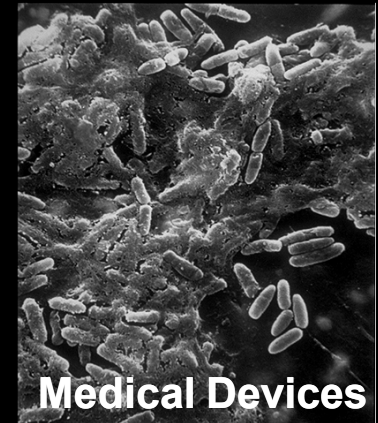
Biofilms grow on just about everything



**Nanoparticles can
mitigate biofilm
growth**



Courtesy of Hans Vrouwenvelder



**We can test the efficacy of
nanoparticle coatings**