

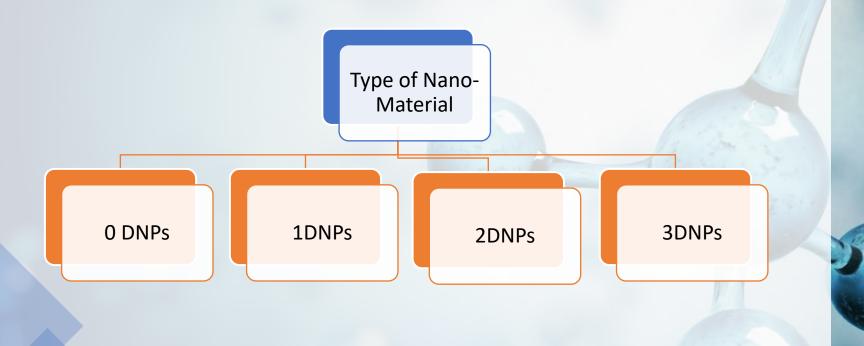
The nano chemistry is explained as the study of the synthesis of materials and properties of materials in the range of nanoscale (1-100 nm).

 $1nm = 10^{-7} cm or 10^{-9} m$

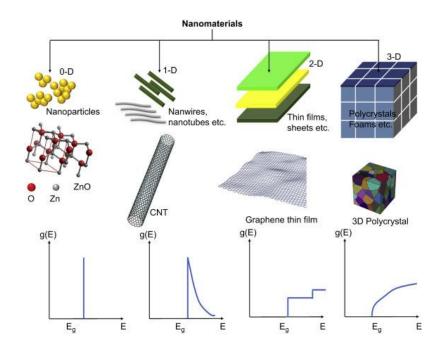
Average width of human hair is on the order of 100,000nm

Therefore, nanomaterials describe, in principle, materials of which a single unit small sized between 1 and 100 nm.







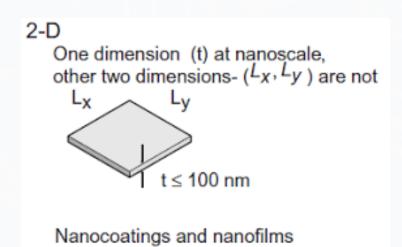


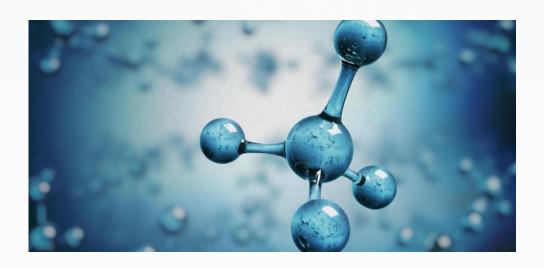


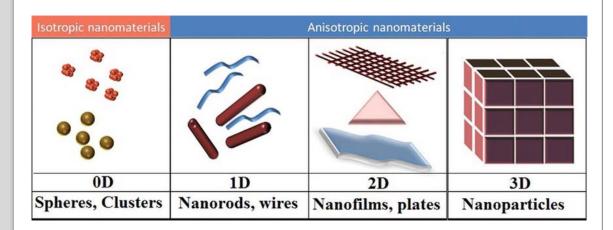
1-D
Two dimensions (x,y) at nanoscale, other dimension (L) is not





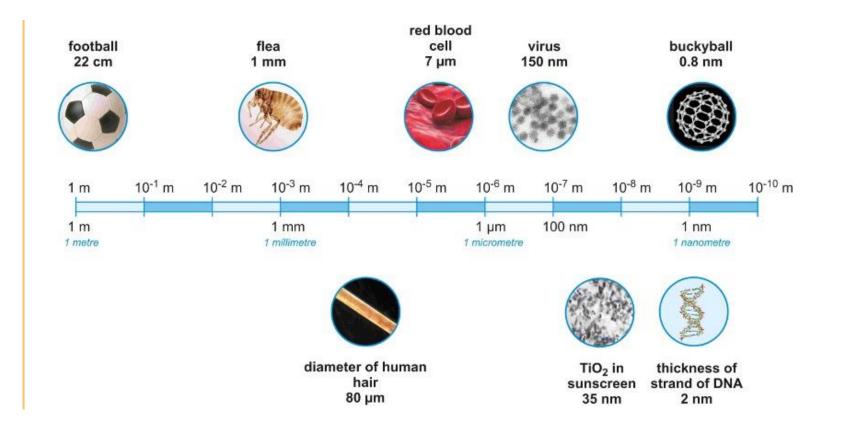




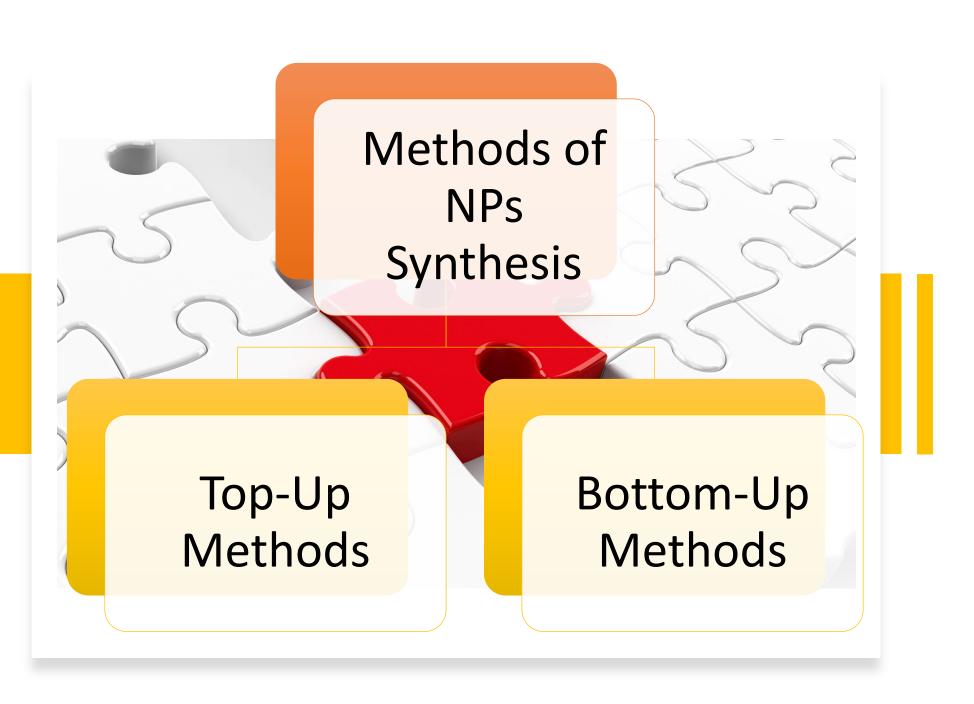


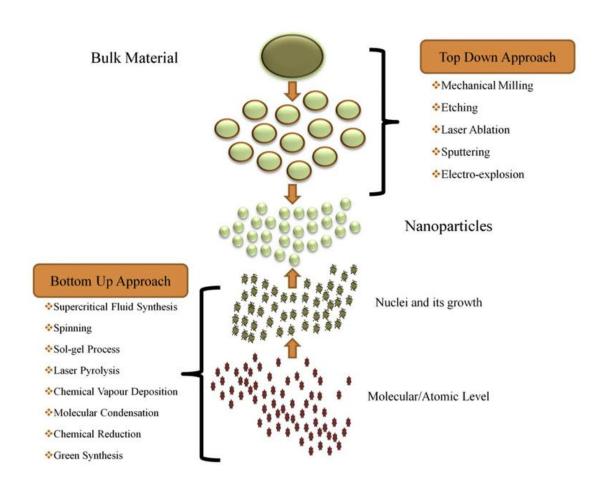


Visualization of NPs

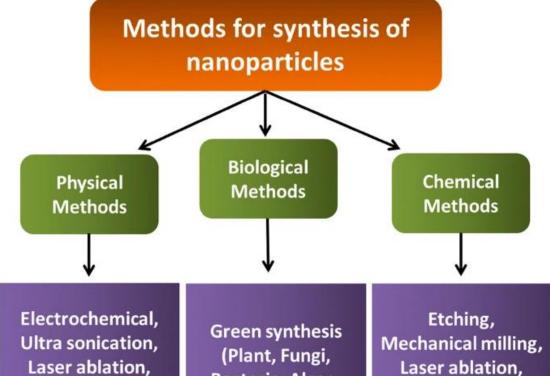












Bacteria, Algae,

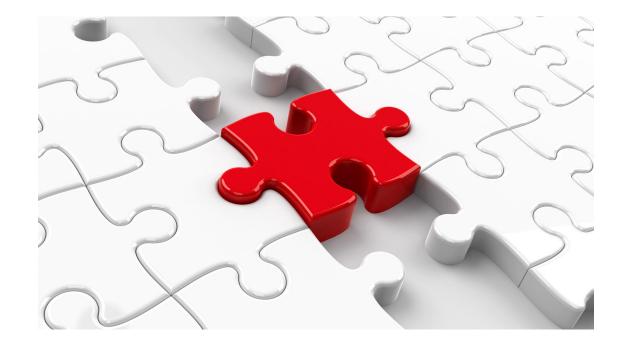
Yeast &

Actinomycetes)

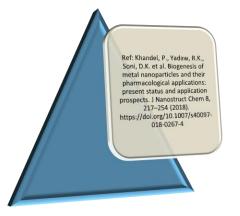
Irradiation,

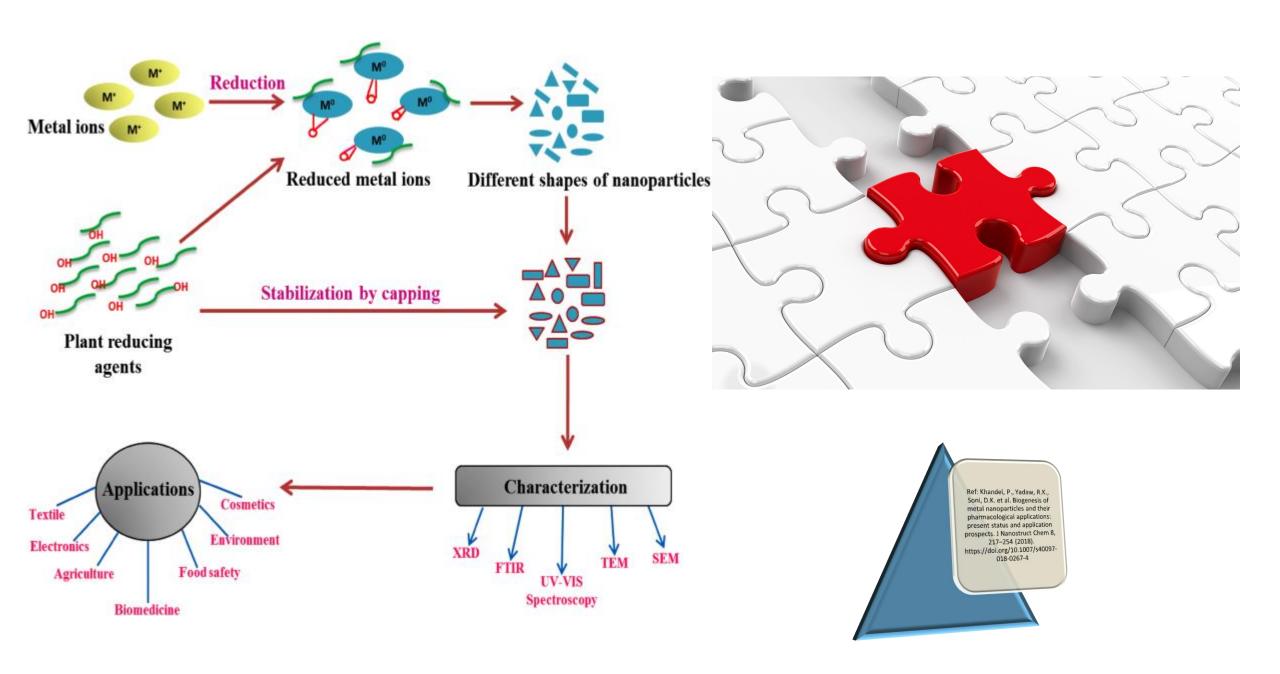
Evaporation-

condensation



Etching,
Mechanical milling,
Laser ablation,
Sputtering,
Thermal
Decomposition

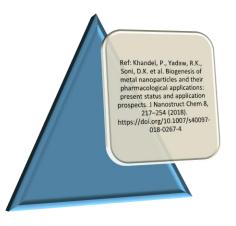




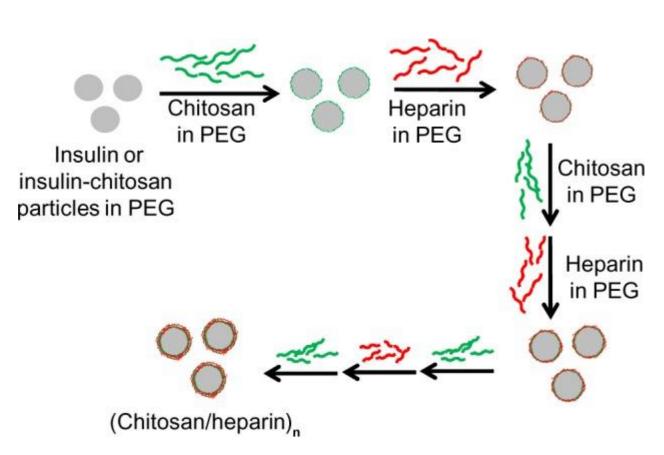
Fungi Algae **Plants** Yeast Bacteria Extraction procedure **Alkaloids Terpenoids Phenolics Proteins** Vitamins Sugars Co-enzymes **Naphthoquinones Anthraquinones** Nitrate reductase **Extract** Green AgNO₃ synthesis Silver NPs

Green Synthesis of NPs





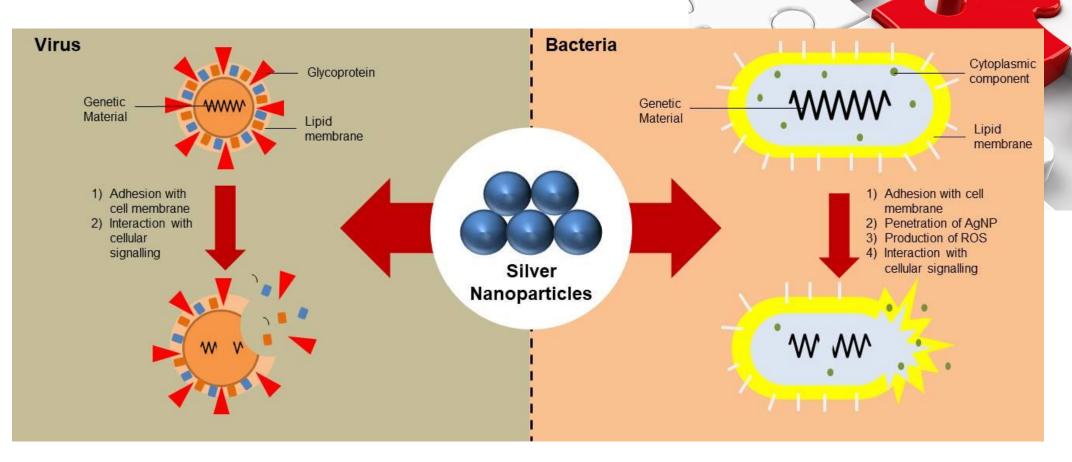
NPS in Medicine







Antibacterial & Antiviral Properties of Ag NPs



Ref: https://doi.org/10.3390/nano10081566

Nanomedicine

