



Nano Biotechnology Services Section Front Page

Nanotechnology has become a rapidly growing field with potential applications ranging from electronics to cosmetics. Richard Feynman introduced the concept of nanotechnology in his pioneering lecture “There's plenty of room at the bottom” at the 1959 meeting of the American Physical Society. However, only recently has our ability to harness the properties of atoms, molecules and macromolecules advanced to a level that can be used to build materials, devices and systems at the nanoscale. The term “nanotechnology” varies greatly based on the specific definition that is used. National Science Foundation and the National Nanotechnology Initiative define nanotechnology as understanding and control of matter at dimensions of 1–100 nm where unique phenomena enable novel applications. Application or usage of nanoparticles in biological fields for various approaches is majorly categorized under Nanobiotechnology.

Synonym: Nanomedicine