

Nano Biotechnology

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Abstract

Nano biotechnology, bio nanotechnology, and Nano biology are terms that ask the intersection of nanotechnology and biology. As long as the topic is one that has only emerged very recently, bio nanotechnology and Nano biotechnology function blanket terms for various related technologies.

This discipline helps to point the merger of scientific research with various fields of nanotechnology. Concepts that are enhanced through Nano biology include: Nano devices (such as biological machines), nanoparticles, and Nano scale phenomena that happens within the discipline of nanotechnology. This technical approach to biology allows scientists to imagine and make systems which will be used for scientific research. Biologically inspired nanotechnology uses biological systems because the inspirations for technologies not yet created. However, like nanotechnology and biotechnology, bio nanotechnology does have many potential ethical issues related to it.

The most important objectives that are frequently found in Nano biology involve applying Nano tools to relevant medical/biological problems and refining these applications. Developing new tools, like peptide Nano sheets, for medical and biological purposes is another primary objective in

nanotechnology. New Nano tools are often made by refining the applications of the Nano tools that are already getting used. The imaging of native biomolecules, biological membranes, and tissues is additionally a serious topic for Nano biology researchers. Other topics concerning Nano biology include the utilization of cantilever array sensors and therefore the application of Nano photonics for manipulating molecular processes in living cells.

Recently, the utilization of microorganisms to synthesize functional nanoparticles has been of great interest. Microorganisms can change the oxidation number of metals [citation needed]. These microbial processes have opened new opportunities for us to explore novel applications, for instance, the biosynthesis of metal nanomaterial's. In contrast to chemical and physical methods, microbial processes for synthesizing nanomaterials are often achieved in aqueous phase under gentle and environmentally benign conditions. This approach has become a beautiful focus in current green bio nanotechnology research towards sustainable development

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