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# Green Biosynthesis Of Nanoparticles Mechanisms And Applications

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6 Why we go for #green synthesis of

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For using green synthesized nanoparticles for medical applications, especially in pharmaceutical industries, they should conform to the US food and drug administration (FDA) criteria. In this review, we explain the biosynthesis of metal and metal oxide nanoparticles by using microalgae and the involved mechanisms.  
**Green biosynthesis of nanoparticles:**

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Abstract. In recent years, the development of efficient green chemistry methods for synthesis of metal nanoparticles has become a major focus of researchers. They have investigated in order to find an eco-friendly technique for production of well-characterized nanoparticles. One of the most considered methods is production of metal nanoparticles using organisms.

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The biosynthesis of nanoparticles is simple, single step, eco-friendly and a green approach. The biochemical processes in biological agents reduce the dissolved metal ions into nano

metals. The various biological agents like plant tissues, fungi, bacteria, etc. are used for biosynthesis for metal nanoparticles.

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There are physical and chemical methods of synthesis of nanomaterials. But due to the damage caused by these methods to the environment there is a pressing need of green nanotechnology, which is a clean and eco-friendly technology for the development of nanomaterials. The present book includes green synthesis of nanoparticles by algae, diatoms and plants.

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Biological synthesis of nanoparticles using algae. This chapter

reviews the green synthesis of nanoparticles using algae. Specifically, the chapter covers the following topics: important aspects in the biosynthesis of nanoparticles; biosynthesis of nanoparticles using algae; and extraction of biosynthesized nanoparticles.

Biosynthesis of gold nanoparticles: A green approach ...

With the aim of promoting a green approach for the synthesis of NPs, this review describes eco-friendly methods for the preparation of biogenic NPs and the known mechanisms for their biosynthesis. Natural plant extracts contain many different secondary metabolites and biomolecules, including flavonoids,

alkaloids, terpenoids, phenolic compounds and enzymes.

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