

New Trends in Life Sciences



Mukundraj B. Patil





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Use of Carbon nanomaterials in medicines: A small solution to big problems

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Carbon is one of the most abundant, important and interesting element found on earth which is major constituents of the living as well as non-living world. Carbon-based nanomaterials are amazing technological tools with unique properties viz. high mechanical strength, high conductivity, attractive optical properties, chemical versatility, etc. Among these carbon nanomaterials include 0-D (small clusters and fullerenes as well as nano diamonds), 1-D (Carbon nanotubes), 2-D (graphene) and 3-D (Diamonds) materials. Many of scientists are now working on the carbon related such compounds specially carbon nanotubes, fullerenes, grapheme etc. which indicates importance of these materials. In this article we will discuss these carbon nanomaterials and it's applications in medicine.

Carbon nanomaterials are a novel class of materials that are widely used in biomedical fields including the delivery of therapeutics, biomedical imaging, biosensors, tissue engineering and cancer therapy. In the field of science and technology, carbon-based nanomaterials (CBNs) are becoming attractive nanomaterials. (2)

Due to the existence of diverse allotropes of carbon, from renowned allotropic phases such as amorphous carbon, graphite and diamonds to newly discovered auspicious carbon nanotubes (CNTs), graphene oxide (GO), graphene quantum dots (GQDs)



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