

## Mimicking the Nanostructure for Perfect Dental Treatment

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Nature is the riddle and pursuing and unfurling that secret is human instinct. In biomimicry, we take a gander at nature as model, measure, and tutor. Biomimicry should be possible by utilizing either natural substitutes or synthetic substitutes. Dental restorative materials developed, in the past have been created on the micro molecular level of matter; however, the interests of researchers have shifted towards similarity to nature by construction of matter at the nano-size hence the field nanotechnology.

Biomimetic nanotechnology identifies with the most fundamental parts of living frameworks and the exchange of their properties to human applications. Natural materials, structures and procedures are prevalently in view of functionalities at the nanoscale. Every single natural framework has their most essential properties and capacities characterized at the nanoscale from their first level of association. The general point of nanotechnology is to hierarchically assemble molecules into objects utilizing bonds that require low energy. Nanotechnology gives materials and tools for creation and examination in nanoscale.

In my opinion, all recent dental materials should be constructed in nanoscale specially their active ingredient for optimum mimicry to natural dental tissues. Nano-size will be ensure mechanical properties maximally fitted to their required function with best esthetic, appearance and repair, utilizing least energy with high reactivity level rendering materials to be smart in their reaction to its environment.

Nanotechnology is set to alter clinical dental practice. In no distant future, dental restorative materials will become very accurate, the same as natural one and smart. Thus all efforts should be done to achieve dental restorative materials in nanoscale including dental medicament, resin composite, cements, sealers, ceramics, impression materials, remineralizing agent, dentures, bone replacement agent, root fillings and dental implant materials.

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