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Targeted and efficient delivery of RNAi agents using gold nanoparticles

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We hear a lot about Nanotechnology these days, but what is it actually doing for us, and how will it help in the future?

Nanotechnology = devices and capabilities that are:

- Cheaper than the ones we have today
- Better than the ones we have today
- Different to the ones we have today - doing things we could never do before

For patients this also mean; technologies that are less invasive and technologies that improve quality of life. For health care professionals, this can mean “doing more with less”. Nanotechnology has an impact on the subject of Global Priorities, which are Health Care, Information Technology, Environment, Chemical & Biodefense, and Energy etc. We also have current and future health care challenges like obesity, infectious diseases, heart attack, cancer, genetic disorders, aging etc. To overcome from all the above said problems, we have to move towards nano-therapy which is a future medicine to us by formulating nanomedicine, nanodiagnostics agents & devices, and by the use of various biodegradable/biocompatible nanoparticulate drug delivery systems, because they have been used frequently as drug delivery carrier in various life threatening diseases and due to its better encapsulation capacity, sustained/control release property and less toxicity, one also we can add we can definitely decrease dosing frequency for various dosage forms by the formulation of nanomedicine so, nano-therapy is the future medicine which will be helpful for all human beings.

Biography

Vinod Jagannathrao Mokale has completed his PhD at the age of 30 years from North Maharashtra University, Maharashtra, India. He is the Head, Department of Pharmaceutical Technology, UICT, NMU, Jalgaon, Maharashtra, India. He visited Thailand, Singapore, Malaysia, Indonesia and London etc., as a resource person in various international conferences. He has completed one project and 04 ongoing financially supported by Dept. of Science and Technology, DRDO and AICTE Govt. of India with one Career Award for Young Teacher from AICTE, New Delhi, Govt. of India. He has 02 Indian Patents more than 30 publications in reputed international journals and serving as an Editorial Board Member of repute.

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