

# 4<sup>th</sup> International Conference on **Nanotek & Expo**

December 01-03, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

## Green nanotechnology

**Arti Goel**

Amity University, India

Green nanotechnology is basically an application of nanotechnology that envisions sustainability. This technology is the result of the world's fascination with tiny molecules being aware of the endless potential that this field has. Green nanotechnology is a great industrial revolution as well as this technology supports the development of sustainable solutions to address global issues. The technology is used to develop clean technologies in order to minimize human health and potential environmental risks. It is basically all about making green nanotechnology products and using these as a support to sustainability without compromising human health. Green nanotechnology goes hand in hand with green chemistry and green engineering. They both respect and seek to stimulate natural processes. The key goals of green chemistry and green engineering includes to make industries work as ecosystems or cells where all the components available are used wisely and the products formed are consumed efficiently, all the wastes generated be recycled and maximum energy output should be gained. Green chemistry and engineering can be viewed to be a mate with nanotechnology in order to produce environmentally sustainable products. Green nanotechnology miniaturizes products, which uses less material, are lighter to transport, and thereby save energy and fuel. Green nanotechnology can have many applications, innovations and roles that can be developed by its different products and can be of an enabling nature.

## Biography

Arti Goel has completed her PhD in Microbiology at the age of 27 years from Mohanlal Sukhadia University, Udaipur and Postdoctoral studies in Microbial and Agricultural Nanotechnology from Central Arid Zone Research Institute, Jodhpur. She is an Assistant Professor of Amity Institute of Microbial Biotechnology, Amity University, Noida (U.P.), India. She has published 12 papers in reputed journals, 14 scientific articles, filed two patents and serving as an editorial board member of reputed journals as well as she is the Managing Editor of a scientific magazine entitled "*Bioevolution*" of Gyandhara Academic International Publications, India.

[agoel2@amity.edu](mailto:agoel2@amity.edu)