



## Editorial

### Emerging of Nanomedicine

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#### Editorial Note

Nanotechnology has been constantly proving its worth in all kinds of different fields. Among them, its prominent role can be seen in world medicine (pharmaceutical research). The researchers claim that these integrations of nanotechnology in the field of medicine can help us solve many mysteries and help us to reach a new level of innovative medical solutions. Their application would be found in various steps of diagnosis, monitoring, control, prevention, treatment. Not all researchers agree with getting nanomedicine on the real ground. Some researchers are against nanomedicine research. The fact these medicines have novel properties which are different from the other regular chemical medicine which is currently in use. Nanomedicine is in controversy because of its size although this nanomedicine because if its size can cross any biological barrier but if this same small medicine can also cause long-term effect since it can penetrate smaller areas and can cause changes leading to various kinds of the new problem too. The European Commission (EC) created a definition based on the European Commission Joint Research Center and the Scientific Committee on Emerging and Newly Identified Health Risks. This definition is only used as a reference to determine whether a material is considered a nanomaterial or not; however, it is not classified as hazardous or safe. The EC claims that it should be used as a reference for additional regulatory and policy frameworks related to quality, safety, efficacy, and risks assessment.

Nanoparticles which are gonna play the role of medicine their properties could be changed like shape, size, altering their chemical composition, etc according to the point of action. The nanomedicine would be effective in diseases which occur because of small changes like mutated gene, misfolded genes, etc these can be treated effectively and hopefully treated by use nanomedicine we can engineer medicine which can effectively go and trigger the needed response to cure the damages the portion this can be possible only if we completely understood the process of molecular genetics. In total, till now there are a total of 30 nanodrugs have been approved to be in use. All the proven drugs which are being injected into patients for the betterment of health all those people have been constantly monitored for any bodily changes. Nano drugs which have Rapamycin and albumin have to be considered to be one of emerging anticancer drug. Silica nanoparticles have been found to be next alternative nanomedicine for insulin. It has been found that Nanodrugs can effortlessly enter the brain by trans-synaptic transport through the olfactory epithelium followed by inhaling and crossing the BBB. These again prove that nano drugs can be employed to treat any CNS-related diseases where a normal molecule can't enter. The fact that nano drugs and nanomedicine are showing remarkable changes in the field of medicine while leading the healthcare system to a whole new level.

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