

Editorial

Special Edition on Bionanotechnology

Dear Colleagues,

I am highly privileged to have initiated this special issue on Bionanotechnology, an interdisciplinary field which has realized many applications in biology and medicine within a very short period. The three consecutive Nobel prizes, viz., Molecular machines (2016), Cryogenic electron microscopy (2017) and Directed evolution of enzymes (2018) reflect the innovations and impact of this fast emerging field.

This special issue comes out at a time when COVID-19 has become a global pandemic and most parts of the world are locked down. This issue begins with an invited article highlighting the potential of nanoscience in COVID-19 management. The articles of the issue focus on the fast developing and commercially potential area of nano-enabled drug delivery systems which offer a number of distinct advantages such as higher intracellular uptake, controlled- and sustained-release properties, increased water solubility and larger bioavailability.

The issue also has contributions in other areas of biomedical applications of nanotechnology such as targeted drug delivery and biosensors. The review articles bring out the recent developments and may help researchers who have future interest in this field.

I am thankful to all those who have contributed to this issue and the editorial board of Chettinad Health City Medical Journal for its acceptance and cooperation in bringing out this special issue

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