



Nanotechnology Applied in Prevention, Diagnosis and Treatment of Infectious Diseases

Guest Editor:

Dr. Hyun-ouk Kim

Department of Biotechnology
and Bioengineering, Kangwon
National University, Chuncheon,
Gangwon-do 24341, Republic of
Korea

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Message from the Guest Editor

None of the pandemic in the last two centuries, have been as devastating as COVID-19, which was declared a pandemic by the World Health Organization (WHO) 11 years after the last one.

Despite the development of diagnosis, treatment, and vaccines for infectious diseases around the world, overseas movement of people and animals is becoming easier, and the occurrence of emerging, and exotic malignant contagious infectious diseases is increasing due to urban development, environmental destruction, and so on.

Artificial nanostructures do not only have physical properties with a high surface area, but also various physicochemical properties (conductivity, catalytic activity, enzyme activity, optical properties, etc.), and they can support vaccines and therapeutic agents. Since the formation of various nanostructures can be used for prevention, diagnosis, and treatment, the convergence of nano- and biotechnology is especially important.

Therefore, there is a need to solve the problem of prevention, early diagnosis, and treatment of emerging, newly emerging, exotic malignant contagious infectious diseases with nano- and biotechnology convergence technology.





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Editor-in-Chief

Prof. Dr. Patrick J. Sinko

Department of Pharmaceutics,
Ernest Mario School of
Pharmacy, Rutgers University,
Piscataway, NJ 08854, USA

Message from the Editor-in-Chief

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Pharmaceutics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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