

Special Issue

Nanotechnology Applied in Prevention, Diagnosis and Treatment of Infectious Diseases

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.

Guest Editor

Dr. Hyun-Ouk Kim

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

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Pharmaceutics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceutics@mdpi.com

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Prof. Dr. Patrick J. Sinko
Department of Pharmaceutics, Ernest Mario School of Pharmacy,
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