



## Advanced Pharmaceutical Science and Technology in Japan

Collection Editors:

**Dr. Yusuke Sato**

Laboratory for Molecular Design  
of Pharmaceutics, Faculty of  
Pharmaceutical Sciences,  
Hokkaido University, Kita-12,  
Nishi-6, Kita-Ku, Sapporo 060-  
0812, Japan

**Prof. Dr. Yoshinobu Takakura**

Department of Biopharmaceutics  
and Drug Metabolism, Graduate  
School of Pharmaceutical  
Sciences, Kyoto University, Kyoto  
606-8501, Japan

### Message from the Collection Editors

Japanese researchers are dedicated to promoting advancements in pharmaceutical sciences and technology. Hence, Japan continues to have significant impact on the research field. In addition, recent notable progress on pharmaceutical applications of nanomaterials and nanotechnology have been made, in particular, the drug delivery of macromolecules, including RNAs (e.g., siRNAs, miRNAs, antisense oligonucleotides, and mRNAs), DNAs, proteins, and peptides as well as small molecule drugs. This topical collection will highlight the research within pharmaceutical sciences and technology that is currently ongoing in Japan, both within academic and industrial institutions, especially in the following pioneering topics: novel formulation design, drug delivery, polymer science, material science, pharmacokinetics, drug metabolism, drug transport, manufacturing science, and biotechnology. In doing so, we wish to share and extend upon the pharmaceutical expertise and advancements in pharmaceutical sciences in Japan.

This will be achieved by presenting a topical collection of research papers and review articles covering the recent progress and achievements in high-end pharmaceutical science.





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### **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, Grosspeteranlage 5  
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