



Stimuli-Responsive Biomaterials for Theranostics

Guest Editors:

Dr. Yin Wang

School of Pharmacy, Shanghai
Jiao Tong University, Shanghai
200240, China

Dr. Zhu Jin

School of Pharmacy, Shanghai
Jiao Tong University, Shanghai
200240, China

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Message from the Guest Editors

Dear Colleagues,

In recent decades, there has been a growing interest in stimuli-responsive biomaterials. Their responsiveness to biological stimuli (e.g., pH, enzymes, reduction-oxidation, glucose) and external triggers (e.g., temperature, light, ultrasound) affects their internal physicochemical properties and stabilities, and tuning the detection sensitivity, accuracy and biocompatibility, which shows potential in various biomedical applications including drug delivery, tissue engineering and diagnostics. The development of stimuli-responsive biomaterials facilitates achieving precision drug delivery, improving medical diagnostics with non- or minimally invasion, and endowing the matrices with the ability to communicate and interact with cells in tissue engineering, to promote the prosperity of precision medication. This Special Issue will focus on the design, synthesis and application of stimuli-responsive biomaterials for theranostics.





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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

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Molecules Editorial Office
MDPI, St. Alban-Anlage 66
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