Special Issue

Fluorescent Probe and Organ-on-Chip for Drug Delivery and Development

Message from the Guest Editor

Microfluidic-based Organ-on-Chip technology is proposed to fill in the blanks in traditional two-dimensional (2D) cell culture and animal models, and further gradually replace animal studies. As a product of the progressive development of microfluidic technology, Organ-on-Chip combines microfluidic technology with cell biology, which faithfully mimic the physiological microenvironment of in vivo target organs, making it a great platform for the research of drug delivery and development. Nowadays, due to its high temporal and spatial resolution, fluorescence imaging technology has become one of the most effective techniques in monitoring of the production, transport and biological functions of biomolecules in the context of life systems. Organ-on-Chip utilizes transparent materials which are highly compatible with various types of microscopy. Therefore, the application of fluorescence probes in Organ-on-Chip holds great potential in many different research fields, such as biology, clinical diagnosis, and drug discovery and development.

Guest Editor

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