Special Issue

Immunotherapy Microfluidics Platforms

Message from the Guest Editor

In retrospect, it could be argued that the slow progress in immunotherapy has mainly been due to the lack of sophisticated tools to probe at both immune and cancer cells at molecular and cellular levels. With the advent of micro-electromechanical systems (MEMS) technologies and, later, microfluidic platforms over the past 30 years, the flood gates to new knowledge and new discoveries in the microworld have gradually opened. This Special Issue is devoted to the latest advances in applying MEMS and microfluidics to studies in a broad range of research related to immunotherapy in the fight against cancer. Novel platform technologies in isolating immune mechanisms, the identification of the details in cancer progressions, the interactions of nanoparticles with immune responses, the faithful replications of the 3D microenvironments for both cancer and immune cells, the controlled experiment on the optimization of therapeutic approaches, and other related topics are the key targets of this Special Issue. **Keywords:**

- immunotherapy
- MEMS
- microfluidics
- nanoparticles
- cancer

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Micromachines (ISSN 2072-666X) is a forum for cutting-edge interdisciplinary research on micro and nanoscale science and technology. We emphasise the practical, real-world value of micro and nanotechnologies that will place *Micromachines* in a leading position among engineering and technology journals.

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