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Ultrasound Assisted in Tumor Immunotherapy

Guest Editors:

Dr. Yi-Ju Ho

Department of Biological Science and Technology, National Yang Ming Chiao Tung University, Hsinchu 30010, Taiwan

Dr. Wei-Wen Liu

Graduate Institute of Oral Biology, National Taiwan University, Taipei 106, Taiwan

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Message from the Guest Editors

Dear Colleagues,

Tumor immunotherapy hottest issue in modern cancer research. Systemic anti-tumor immunomodulation has been developed by various strategies to improve the treatment outcomes in metastatic or drug/radiationresistant tumors. Ultrasound provides not only real-time diagnosis but also local therapy which has been widely applied in cancer therapeutic applications. The acoustic thermal or cavitation effect (with ultrasound-responsive particles) promotes antigen production and immune cell activation, in addition to activating immune cell infiltration with the aim of accomplishing anti-tumor immunotherapy. Moreover, the application of ultrasound technology combined with immune-activated drugs/genes/gases has been proposed as possibility regulating the tumor microenvironment from a state of immunosuppression into immunoactivation. Thus, we consider that ultrasoundinduced thermal or cavitation effect provided a potential way to promote anti-tumor immune responses via tumor microenvironment modulation

We look forward to receiving your contributions.



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Editor-in-Chief

Prof. Dr. Patrick J. Sinko

Department of Pharmaceutics, Ernest Mario School of Pharmacy, Rutgers University, Piscataway, NJ 08854, USA

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Pharmaceutics Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/pharmaceutics pharmaceutics@mdpi.com X@MDPIpharma