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Clinical Effect and Immunologic Response after Dendritic Cell-Based Immunotherapy

Guest Editors:

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Deadline for manuscript submissions:

closed (31 May 2021)

Message from the Guest Editors

Dear Colleagues,

This special issue aims to focus on the progress of immune monitoring methodology and clinical investigation using dendritic cell (DC)-based cancer immunotherapy including precision medicine. The standardized protocol for manufacturing a dendritic cell vaccine, the selection of tumor-associated antigens (TAAs), and the process for application of dendritic and related cells will also be covered in this issue

A DC vaccine containing TAAs produced under an optimized manufacturing protocol is a potentially promising cell-based cancer immunotherapy to induce acquired immunity. Antigen-presenting ability in an *in vitro* cytotoxic T lymphocyte (CTLs) assay with TAAs is one of the main issues encountered when using DC-based vaccines in patients with cancer. Tetramer analysis and enzyme-linked immunosorbent spot (ELISpot) assays have been performed as immune monitoring for TAAs-specific CTLs; however, sensitivity and specificity remain issues to be solved. A useful approach to detect TAA-specific CTLs would be expected using genomic medicine with single cell sequencing technology.







IMPACT FACTOR 7.8





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Message from the Editor-in-Chief

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