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Cancer Immunotherapies and NK/CIK/CAR-T

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Message from the Guest Editors

Natural Killer (NK) and Natural Killer T (NKT) cells represent exceptional lymphocyte populations with major tumor-killing activity. NK cells possess activating as well as inhibitory receptors. Most NKT cells recognize the antigen-presenting molecule CD1d. NKT cells are classified into type 1 invariant, type 2 diverse, and NKT-like cells. NK and NKT cells have been shown to play an essential role in autoimmune diseases, as well as in cancer. NKT cells are present in peripheral blood mononuclear cells or cord blood in low numbers but can be expanded in vitro. Most clinical trials with NKT cells have been performed with Cytokine-Induced Killer (CIK) cells.

Keywords:

- NK cells
- NKT cells
- cytokine-induced killer cells
- transplantation
- immunotherapy
- cancer treatment
- CAR-T cell
- CAR-NK cell
- CAR-NKT cell
- checkpoint inhibition



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