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Modulation of dendritic cell by pathogen antigens: where do we stand?

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Highlights

- DCs have pivotal role in beginning the adaptive immunity.
- The success of DC-based vaccination relies on the milieu and antigenic nature.
- DCs may acquire an inflammatory or tolerogenic profile when activated.
- Tolerogenic dendritic cells (toIDCs) induce differentiation of regulatory T cells.
- ToIDCs may be used as treatment for inflammatory disorders.

Abbreviations: DC – Dendritic Cell, toIDCs – tolerogenic Dendritic Cells, PD-1- Programmed cell death 1, PD-L1/PD-L2- Programmed cell death ligand 1/2, 17XNL - nonlethal 17X strains, BCG - Mycobacterium bovis Bacillus Calmette Guérin, BMDCs

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