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Immunological Synapse (Current Topics in Microbiology and ...

Silvia Curado, ... Michael L. Dustin, in Current Topics in Membranes, 2013. Abstract. The immunological synapse (IS) is an excellent example of cell-cell communication, where signals are exchanged between two cells, resulting in a well-structured line of defense during adaptive immune response. This process has been the focus of several studies that aimed at understanding its formation and subsequent events and has led to the realization that it relies on a well-orchestrated molecular ...

Immunological Synapse - an overview | ScienceDirect Topics

The immunological synapse (IS) is a stable cell-cell junction between a thymus-derived lymphocyte (T cell) and an antigen-presenting cell (APC). The IS concept provides a number of insights into the T cell activation process. Firstly, it provides a stop signal that coordinates antigen recognition and T cell migration.

Immunological Synapse - an overview | ScienceDirect Topics

"Current topics in microbiology and immunology: Immunological Synapse" Reviewed by Rajendra Kumar and Rupali Sharma. Published by Springer pp 255. Price 129.95 €(Hardcover). The science of immunology has seen outsized transformation from a medicine named vaccination to a contemporary applied science focused on versatile development in molecular medicine.

Current topics in Microbiology and Immunology

Immunological synapse models Determining how antigen recognition, adhesion, and co-stimulation/checkpoint receptors come together in the immunological synapse or kinapse required visualization of the close interface between the T cell and the APC. Two major approaches dominated the efforts at molecular analysis.

The immunological synapse

The immunological synapse or kinapse integrates three broad categories of receptors: antigen (TCR), adhesion, and costimulatory/checkpoint. The organization of these receptors in the interface affects how they function in a way that cannot be predicted without this spatial and temporal information.

The Immunological Synapse | Cancer Immunology Research

Abstract T cell activation begins with the interaction between an antigen-specific T cell and an antigen-presenting cell (APC). This interaction results in the formation of the immunological synapse, which had been considered to be responsible for antigen recognition and T cell activation.

The Immunological Synapse, TCR Microclusters, and T Cell ...

Immunological Synapses Are Mechanically Active Information exchange between T and B lymphocytes and their antigen-presenting cells (APCs) dictates the character and scope of immune responses. The immunological synapse (IS), a stereotyped cell-cell interaction that forms at the lymphocyte-APC interface [1

Mechanical Communication at the Immunological Synapse ...

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In immunology, an immunological synapse (or immune synapse) is the interface between an antigen-presenting cell or target cell and a lymphocyte such as a T/B cell or Natural Killer cell.The interface was originally named after the neuronal synapse, with which it shares the main structural pattern. An immunological synapse consists of molecules involved in T cell activation, which compose ...

Immunological synapse - Wikipedia

Part of the Current Topics in Microbiology and Immunology book series (CT MICROBIOLOGY, volume 340) Abstract The co-receptors CD4 and CD8 are important in the activation of T cells primarily because of their ability to interact with the proteins of the MHC enhancing recognition of the MHC-peptide complex by the T cell receptor (TCR).

Co-Receptors and Recognition of Self at the Immunological ...

"Current topics in microbiology and immunology: Immunological Synapse" Reviewed by Rajendra Kumar and Rupali Sharma. Published by Springer pp 255. Price 129.95 €(Hardcover). The science of immunology has seen outsized transformation from a medicine named vaccination to a contemporary applied science focused on versatile development in molecular medicine.

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Immunology Paper Topics - Clark Science Center

Immunological Synapse. The proper physiological functioning of most eukaryotic cells requires their assembly into multi-cellular tissues that form organized organ systems. Cells of the immune...

Immunological Synapse - Google Books

The immunological synapse (IS) is a specialized cell-cell adhesion that mediates antigen acquisition, lymphocyte activation, and effector function. Seminal studies showed a structure composed of stable central and peripheral supramolecular activation clusters (cSMAC and pSMAC) organized at the interface of interacting helper T lymphocytes and B lymphocytes.

Editorial: Molecular Dynamics at the Immunological Synapse

Current Protocols in Immunology is a comprehensive source for protocols and overviews in the field of immunology including, in vivo and in vitro assays to study lymphocyte cells, the isolation and differentiation of stem and progenitor cells, flow cytometry and cell sorting, and animal models of infections disease.

Current Protocols in Immunology - Wiley Online Library

Keywords:CD6, immunological synapse, T lymphocyte activation, inhibitory receptors, alternative splicing, immunotherapy. Abstract: CD6 immunotherapy to treat psoriasis and rheumatoid arthritis has reached the clinical trial stage with apparent success, and targeting CD6 with mAbs is being used in several animal models of autoimmunity and ...