

Editorial

Jacinta Kelly

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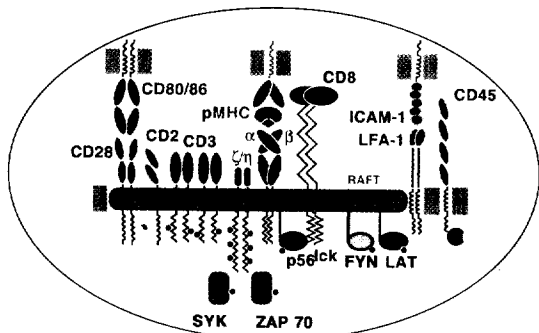
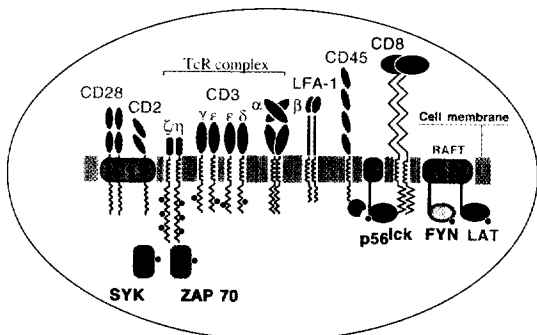
Research Trends

Progress at the frontiers

From T-Cell Receptor Ligation to Effector Functions – Affinity, Kinetics, and Pattern Recognition

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T-cell receptor (TcR) engagement with its ligand can elicit a variety of responses in the T cell. Here, Yuri Sykulev tries to unravel some of the factors that influence the nature of the T-cell response, including the development of productive TcR-peptide major histocompatibility complex (MHC) bonds, and how variations in patterns of secondary TcR-mediated events may trigger different responses.



Cover

Productive engagement of TcR results in redistribution of immune receptors on the cell membrane and formation of membrane activating domains.

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Human Antibodies for Therapy 58

Antibody-based therapeutics have enormous potential for use in human diseases. In this comprehensive review, Jorge Gavilondo, James W. Larrick, and Carl A. K. Borrebaeck review the history of antibody therapy, and discuss how recent advances in modern technologies of antibody engineering have overcome many of the problems associated with this therapy.

Clinical Trends

The latest innovations and ideas in practice

Etiopathogenesis of Systemic Lupus Erythematosus (SLE) 66

Systemic lupus erythematosus (SLE) is a complex autoimmune disease whose etiopathogenesis is poorly understood. Here, Martin Herrmann, Reinhard E. Voll, W. Kolowos, H.-M. Lorenz, and J. R. Kalden analyze changes in various immunological parameters, including autoantibodies, complement, phagocytosis, T-cell responses and apoptosis, and suggest a model that links these together to explain the development of the disease.

Forum

Locus Maps and Genomic Repertoire of the Human T-Cell Receptor Genes 72

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Hogrefe & Huber Publishers
PO Box 2487
Kirkland, WA 98083
Tel. (425) 820-1500

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Hogrefe & Huber Publishers
12 Bruce Park Avenue
Toronto, Ontario, M4P 2S3
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Tel. +49 551 49609-0

☐ SWITZERLAND
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