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**THE TWENTY SEVENTH ANNUAL MEETING
OF THE SOCIETY FOR LEUKOCYTE BIOLOGY
(A Reticuloendothelial Society)**

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The 27th Annual Meeting of the Society for Leukocyte Biology and the 12th International RES Congress was held in Heraklion, Crete, Greece, October 14-18th, 1990. The theme of the meeting was cellular and cytokine networks in tissue immunity. The following areas were discussed in detail: (a) cytokines in the regulation of hematopoietic and immune cell proliferation: molecular cloning and characterization of interleukins 9 and 11, application of antisense probes in regulation of cell proliferation, and suppressive effects of IL-1, $\text{TNF } \alpha$, and IL-1ra; (b) composition and function of tissue-specific immune networks in the skin, brain, lung, and gut with special emphasis on infection and autoimmune disease; (c) neuroendocrine networks in the central nervous system during infection and inflammatory brain disease; (d) novel inflammatory cytokines with chemotactic and cell activation properties that include IL-8, MCP, PF4, MSP and the role these cytokines play in regulation of inflammation; (e) signal transduction mechanisms in neutrophil and macrophage activation for chemotaxis and effector function with special emphasis on G proteins and second messenger systems; (f) endothelial cell-leukocyte interactions: adhesion receptors, integrins, regulation by cytokines and inflammation; (g) HIV and myeloid cells: role of macrophages as target cell, reservoir, and immunoregulatory cell during HIV disease; (h) reactive nitrogen oxides as effector molecules in resistance to neoplastic and infectious disease: cytokines regulation, intracellular pathways, and mechanism of cytotoxic activity; (i) mechanisms and regulation of the respiratory burst in phagocytes with special emphasis on analysis of the phagocyte oxidases; (j) cytokine networks in host resistance to parasitic disease; (k) role of monokines in inflammation, tissue repair, macrophage interactions with endothelial cells, and effector function; (l) recent developments in cytokine receptors: $\text{TNF } \alpha$, IFN γ and IL-10.



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