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Workshop 45

Chemokine Roles in Immunoregulation and Disease

P. M. Murphy
R. Horuk



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**R. Numerof, Charles A.
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Chemokine Roles in Immunoregulation and Disease Philip M. Murphy, Richard Horuk, 2003-10-03 In autumn 2002 the Ernst Schering Research Foundation Workshop sponsored the 45th in its series of conferences devoted to emerging areas in basic and applied biomedical research. These conferences bring together a critical mass of top scientists working in an important area in an intimate setting that fosters the free exchange of knowledge and ideas. In this spirit Workshop 45 assembled leaders in the field of chemokines, chemotactic cytokines that coordinate leukocyte trafficking amid the scenic vineyards and wineries of Napa Valley to discuss the latest concepts of how these molecules regulate the immune response and disease. Chemokines were selected as a conference topic because they have revitalized the study of leukocyte trafficking and are widely considered to be potential new targets for drug development in diseases ranging from acute inflammation and autoimmunity to HIV and cancer. Discovered in the 1980s, the chemokine superfamily currently has 43 human members making it the largest subset of cytokines. Members are defined by conserved sequences and a common three-dimensional fold and can be divided into two major functional groups: homeostatic and inflammatory, depending on whether they are produced constitutively and thereby control basal lymphocyte trafficking or whether they must be induced for example by pathogens or injury and thereby control deployment of effector leukocytes in emergencies.

Chemokine Roles in Immunoregulation and Disease Philip M. Murphy, Richard Horuk, 2003-10-23 The Ernst Schering Workshop on Chemokine Roles in Immunoregulation and Disease with contributions by leading experts in the field succinctly summarizes cutting edge research in immunology, protein chemistry and disease. This book gives an up to date overview of important developments in immunology with a concise state of the art review of chemokines. It is a time saving reference for both researchers and students providing fast and easy access to the latest information in this important area of research.

Cytokines as Potential Therapeutic Targets for Inflammatory Skin Diseases R. Numerof, Charles A. Dinarello, Khusru Asadullah, 2009-09-02 Cytokines and cytokine receptors remain an area of great interest for the development of targeted therapies for cutaneous inflammatory diseases. Anti-TNF therapeutics have proven to be effective in the treatment of psoriasis and clinical investigations have now begun for other cytokine directed therapies such as those targeting IFN- γ , IL-12p40 and IL-18. In addition to therapeutics that target cytokines directly, strategies that target cytokine signaling pathways are in development. This book summarizes the findings of the 56th International Workshop of the Ernst Schering Research Foundation that focused on Cytokines as Potential Therapeutic Targets for Inflammatory Skin Diseases.

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