

BENAROYA **RESEARCH INSTITUTE**

KENNETH R. WILSKE LECTURE SERIES IN SCIENCE AND MEDICINE

Andrew Luster, M.D., Ph.D.

Center for Immunology and Inflammatory Diseases
Division of Rheumatology, Allergy and Immunology
Massachusetts General Hospital, Harvard Medical School

Chemokine-Lipid Collaborations in Inflammatory Cell Trafficking

THURSDAY, DECEMBER 4TH, 2008

9:30AM - 10:30AM

BRI AUDITORIUM

DR. LUSTER'S LABORATORY STUDIES HOW CHEMOKINES AND LIPID CHEMOATTRACTANTS COLLABORATIVELY CONTROL THE TRAFFICKING OF IMMUNE AND INFLAMMATORY CELLS IN VIVO. GENE-TARGETED MICE ARE USED TO PROBE THE FUNCTION OF CHEMOKINES AND CHEMOATTRACTANT RECEPTORS IN ORCHESTRATING THE MOVEMENT OF INNATE AND ADAPTIVE IMMUNE CELLS NECESSARY TO GENERATE, DELIVER AND REGULATE TISSUE-SPECIFIC IMMUNE RESPONSES. THE ROLE OF CHEMOKINES AND LIPID CHEMOATTRACTANTS IN IMMUNE CELL TRAFFICKING WILL BE DISCUSSED WITH A PARTICULAR EMPHASIS ON THEIR SEQUENTIAL AND DISTINCT ROLES IN THE PATHOGENESIS OF IMMUNE AND INFLAMMATORY DISEASES, SUCH AS ASTHMA, ARTHRITIS AND PULMONARY FIBROSIS. A DEEPER UNDERSTANDING OF THE COMPLEXITIES OF THE CHEMOATTRACTANT SYSTEM WILL PROVIDE KEY INSIGHTS INTO THE REGULATION OF IMMUNE RESPONSES AND DISEASE PATHOGENESIS AS CELL TRAFFICKING AND LOCATION DETERMINE CELL FATE AND FUNCTION.

BENAROYA RESEARCH INSTITUTE AT VIRGINIA MASON
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This seminar is hosted by Dr. Ziegler (ziegler@benaroyaresearch.org)