



## Measuring immunity [ basic biology and clinical assessment

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Lotze, Michael T.

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Libros electrónicos

Monografía

Most of the diseases of modern mankind involve either acute or chronic inflammation. Measuring Immunity integrates the current information available on biomarkers and surrogate assays into a single handbook. It highlights the principles behind various applications, gives a brief summary on how they are conducted and provides detailed and critical analyses of murine models of immunity, clinical trials, and tests to predict utility and benefit. Measuring Immunity is indispensable for scientists and clinicians interested in the clinical applications of modern immunobiology. \* Defines which assays of immune function are helpful in the assessment of clinical disorders involving inflammation and immunity \* Assesses the dynamics of cellular and soluble factors in the peripheral blood using modern techniques \* Includes basic science foundations as well as the approaches currently applied

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbgVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMTY4ODkwMzA>

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**Contenido:** Introduction -- Preface -- FUNDAMENTALS OF THE IMMUNE RESPONSE -- MHC Class I -- MHC Class II -- Cytokine receptor heterogeneity -- Measuring cytokine polymorphisms: functional variations and disease associations -- Signaling molecules affecting immune response -- Toll like receptors in innate immunity -- DNA sequence-specific transcription factors -- Genetic factors diversity in NK and NKT cells -- SEROLOGIC ASSAYS -- Handling sera and obtaining fluid from different compartments practical considerations -- Acute- phase proteins and inflammation: immunological and clinical implications, Complement in health and disease -- Immunoglobulin titers and immunoglobulin subtypes -- Human antiglobulin responses -- Measuring Rheumatoid Factors -- Autoantibodies -- Measuring antibody affinity using fluorescence -- SLE associated tests -- Multiplexed

serum assays -- CELLULAR ENUMERATION AND PHENOTYPING -- Handling and storage of cells and sera: practical considerations -- Phenotypic and functional measurements on circulating immune cells and their subsets -- Natural Killer cells -- Tetramer Analysis -- Peripheral blood naive and memory B cells -- Dendritic cells -- Monocytes and macrophages -- Tumor cells -- Intracellular cytokine assays -- CELLULAR FUNCTION AND PHYSIOLOGY -- Cytolytic assays -- Mixed leukocyte reactions -- Antigen/mitogen-stimulated lymphocyte proliferation -- Monitoring cell death -- Cytokine enzyme linked immunosorbent spot (ELISPOT) assay -- Testing natural killer cells -- PROVOCATIVE ASSAYS in vivo -- Delayed type hypersensitivity responses -- Rebeck windows: granulocyte function -- The vascular and coagulation systems -- Sentinel node assays -- Imaging inflammation -- ASSAYS IN ACUTE AND CHRONIC DISEASES -- Cancersolid tumors -- Cancerhematologic disorders -- Autoimmunitytype 1 diabetes -- Autoimmunitysystemic lupus erythematosus -- Autoimmunitymultiple sclerosis -- Autoimmunitygastrointestinal -- Autoimmunityendocrine -- AutoimmunityvasculitisTransplantation -- Viral responsesHIV 1 -- Viral responsesEpstein- Barr virus -- Viral responseshepatitis -- Dermatology -- Atherosclerosis -- Primary immunodeficiencies -- Asthma and allergy -- NEW TECHNOLOGIES -- Cerum proteomic profiling and analysis -- Imaging cytometry -- Cancer biometrics -- Genomics and microarrays -- Image informatics -- INDEX of manufacturers and suppliers, addresses, web site MHC class I -- MHC class II -- Cytokine receptor heterogeneity -- Genetic diversity at human cytokine loci in health and disease -- Signaling molecules affecting immune response -- Toll-like receptors in innate immunity -- DNA sequence-specific transcription factors -- Genetic diversity in NK and NKT cells -- Handling sera and obtaining fluid from different compartments -- Acute-phase proteins and inflammation -- Complement in health and disease -- Immunoglobulin titers and immunoglobulin subtypes -- Human antiglobulin responses -- Rheumatoid factors -- Autoantibodies -- Antibody affinity using fluorescence -- SLE-associated tests -- Multiplexed serum assays -- Handling and storage of cells and sera: practical considerations -- Phenotypic and functional measurements on circulating immune cells and their subsets -- Natural killer cells -- Tetramer analysis -- Peripheral blood naive and memory B cells -- Dendritic cells -- Monocytes and macrophages -- Tumor cells -- Regulatory T cells -- Intracellular cytokine assays -- Cytolytic assays -- Mixed leukocyte reactions -- Antigen/mitogen-stimulated lymphocyte proliferation -- Monitoring cell death -- Cytokine enzyme linked immunosorbent spot (ELISPOT) assay -- Testing natural killer cells -- Delayed type hypersensitivity responses -- Rebeck windows: granulocyte function -- The vascular and coagulation systems -- Sentinel node assays -- Imaging inflammation -- Cancer - solid tumors -- Cancer - hematologic disorders -- Autoimmunity - rheumatoid arthritis -- Autoimmunity - type 1 diabetes -- Autoimmunity - systemic lupus erythematosus -- Autoimmunity - multiple sclerosis -- Autoimmunity - inflammatory bowel disease -- Autoimmunity - endocrine -- Autoimmunity - vasculitis -- Transplantation -- Viral responses - HIV-1 -- Viral responses - epstein-barr virus -- Viral responses - hepatitis -- Dermatology -- Arteriosclerosis -- Primary immunodeficiencies -- Asthma and allergy -- Serum proteomic profiling and analysis -- Imaging cytometry -- Cancer biometrics -- Genomics and microarrays -- Image informatics

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