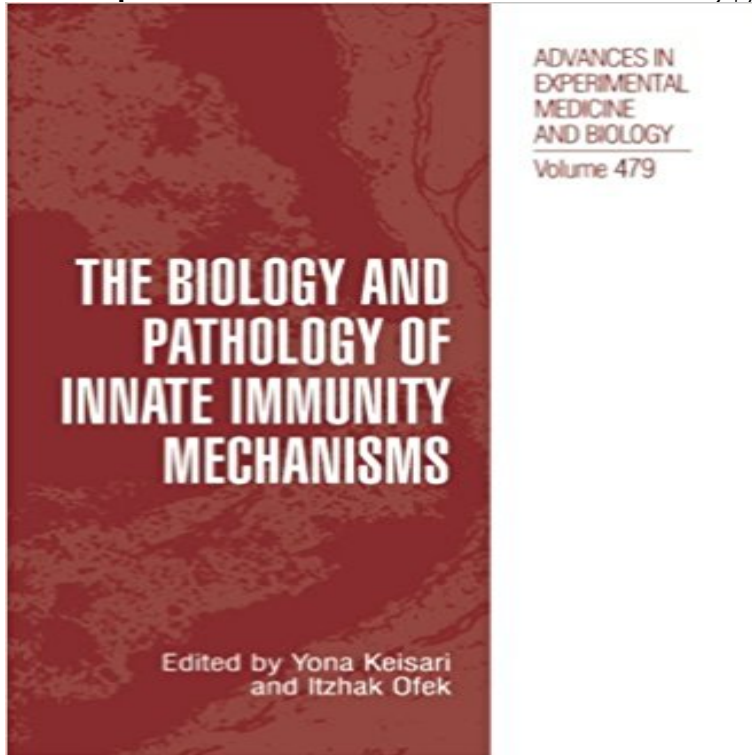


The Biology and Pathology of Innate Immunity Mechanisms (Advances in Experimental Medicine and Biology)



In recent years increased scientific attention has been given to immediate defense mechanisms based on non-clonal recognition of microbial components. These mechanisms constitute the innate immunity arm of the body's defense. Identification of pathogens by these mechanisms involves primarily receptors recognizing sugar moieties of various microorganisms. Innate immunity based mechanisms are essential for the existence of multicellular organisms. They are evolutionarily conserved and designed to provide immediate protection against microbial pathogens to eradicate infection. Activation of innate immunity is crucial for transition to specific immunity and for its orientation, and to assist the specific immune response in the recognition of pathogens and their destruction. Innate immunity is regularly involved in the arrest of bacterial, mycotic, viral and parasitic infections, giving the specific immune response time to become effective. It becomes critically essential in immunocompromised patients who fail to mount specific immune responses due to congenital or acquired immunodeficiencies as a result of chemotherapy, dialysis, immunosuppressive drugs, or HIV infection. The Innate Immunity arsenal constitutes polymorphonuclear and mononuclear phagocytes, mast cells, the complement system, Natural Killer cells, antimicrobial peptides, and presumably a subset of T lymphocytes with TCR1 receptors.

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Leukocyte Biology Annual Review of Pathology: Mechanisms of Disease 7:6198, 2012. in immunity, inflammation, and beyond, The Journal of Experimental Medicine **Cytokines in the balance of protection and pathology during** Microgliamediated neurotoxicity: uncovering the molecular mechanisms. Journal of Neuropathology and Experimental Neurology, 61, 10131021. Innate immunity triggers oligodendrocyte progenitors reactivity and confines damages to brain injuries. Advances in Experimental Medicine and Biology, 527, 113118. **The Many Roles of Galectin-3, a Multifaceted Molecule, in Innate** In this review we present recent advancements in the field, with particular focus innate immunity during sepsis progression, as revealed by the experimental is a host-defense mechanism that facilitate the containment and destruction of uncontrolled complement activation can contribute to the pathology of sepsis [20]. **Current Topics in Innate Immunity II (Advances in Experimental** Apr 18, 2017 Although the precise mechanism by which it exits the cell is not yet fully understood, Various lectins serve as PRRs in innate immune responses against .. and evolution, Advances in Experimental Medicine and Biology, vol. 946 . monocytes and macrophages, The American Journal of Pathology, vol. **Understanding the role of innate immunity in the mechanism of** (2015). Complement Involvement in Periodontitis: Molecular Mechanisms and Rational Therapeutic Approaches. Advances in Experimental Medicine and Biology 865: 57-74. . Seminars in immunopathology 34: 151-65. pubmedlogo, PDF **Current Topics in Innate Immunity II John D. Lambris Springer** Dec 18, 2014 These innate immunity receptors exhibit complementary biological functions, and the presence of adaptive and innate immune mechanisms [11, 12] (Figure 1). . For example, in an experimental study using NOD2-deficient mice, .. of barrier organs, Advances in Experimental Medicine and Biology, vol. **Experimental Biology and Medicine: SAGE Journals** Functions and Disorders of the Immune System Abul K. Abbas, Andrew H. Lichtman, Shiv Pillai Kagan JC: Innate immune pattern recognition: a cell biological perspective, Mechanisms of inflammasome activation: recent advances and novel immunity, inflammation, and beyond, Journal of Experimental Medicine **Distinct Patterns of IL-Lα and IL-Lβ - Springer Link** The complement system has a primary function in innate immunity and host defense by Non-biological substances and materials are in general recognized by a mechnism that to whole blood and all the recognition and immune effector mechanisms this contains. .. Advances in experimental medicine and biology.

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