



Images of Biologically Active Structures in the Immune System: Their Use in Biology and Medicine (Current Topics in Microbiology and Immunology)

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The diversity of antigen-binding structures of antibody molecules is so vast that every conceivable antigen can be bound by an antibody molecule within the immune system. This is true even for the antigen binding sites of antibodies called idiotypes, which are bound by complementary binding sites of other antibodies called anti-idiotypes. Thus, anti-idiotypes are structural homologues of antigens. These idiotype-anti-idiotype interactions constitute a network within the immune system. Since one lymphocyte produces only one type of antibody molecule, this network is in fact a network of cells. We expect that the network is functional: the appearance of antigen will disturb the equilibrium of the network at the point where it competes with the anti idiotype lymphocyte for binding to the idiotype lymphocyte. It has been known for quite some time that anti idiotype antibody can be used to prime the immune system for memory to an antigen that it has never seen. This phenomenon is now being explored for possible use in immunization against viruses, bacteria, parasites and tumors as well as for the modulation of autoimmunity. The ability of anti-idiotypes to mimic, both antigenically and functionally, the corresponding biologically active molecules seen by an idiotype antibody was first demonstrated for the hormone insulin and is now being observed in many other systems. The papers assembled in this volume bring the reader to the cutting edge of the potential practical applications of the network theory of the immune system.

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