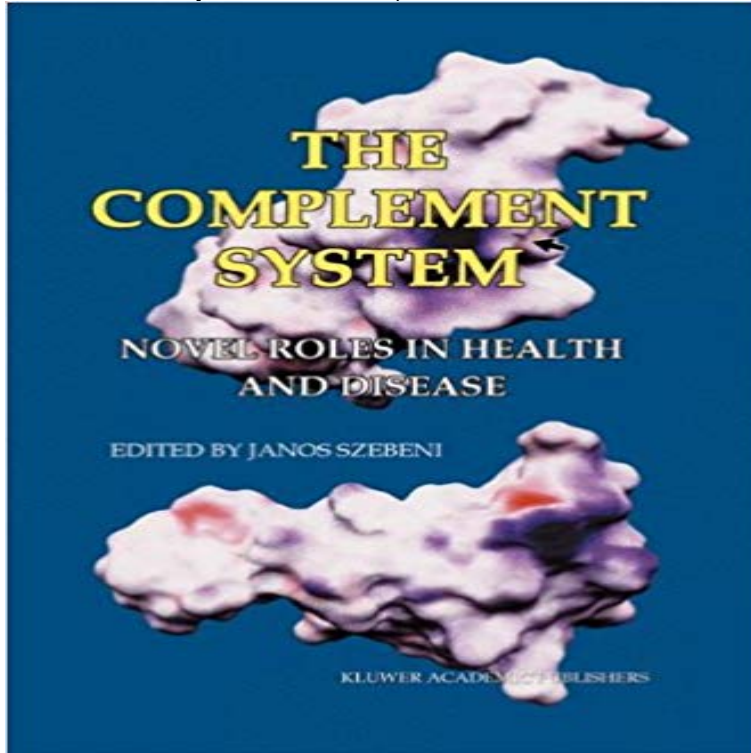


The Complement System: Novel Roles in Health and Disease



As a phylogenetically old system complement is now regarded as a part of innate immunity. But it is much more than that. It bridges innate and adapted immunity, participates not only in host defense but also in many essential physiological processes, old and new diseases and adverse conditions. Indeed, complement became a term that almost defies categorization. What was for a long time a subject for a limited number of specialists has now moved into the mainstream of experimental and clinical immunology. In 1973 I visited the Basel Institute of Immunology and met its director, the eminent scientist and Nobel laureate Nils Jerne. When I entered his office he greeted me with the following words: Complement, does that really exist? I was never certain whether he wanted only to tease me or whether he sincerely believed that the complement system was an unimportant biological curiosity, a misstep of evolution. But, of course, missteps do not survive the evolutionary process. Little did I foresee the dramatic developments of recent years when Hans J. Muller-Eberhard and I started to unravel the specifics of the action of the cobra venom factor on the complement system in 1968 and defined a new pathway to its activation. An elucidation of the role of the system in diseases and its control for therapeutic reasons is now getting closer to actual realization in the clinic although many problems, in particular those of highly specific inhibition free of side effects, have still to be resolved.

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