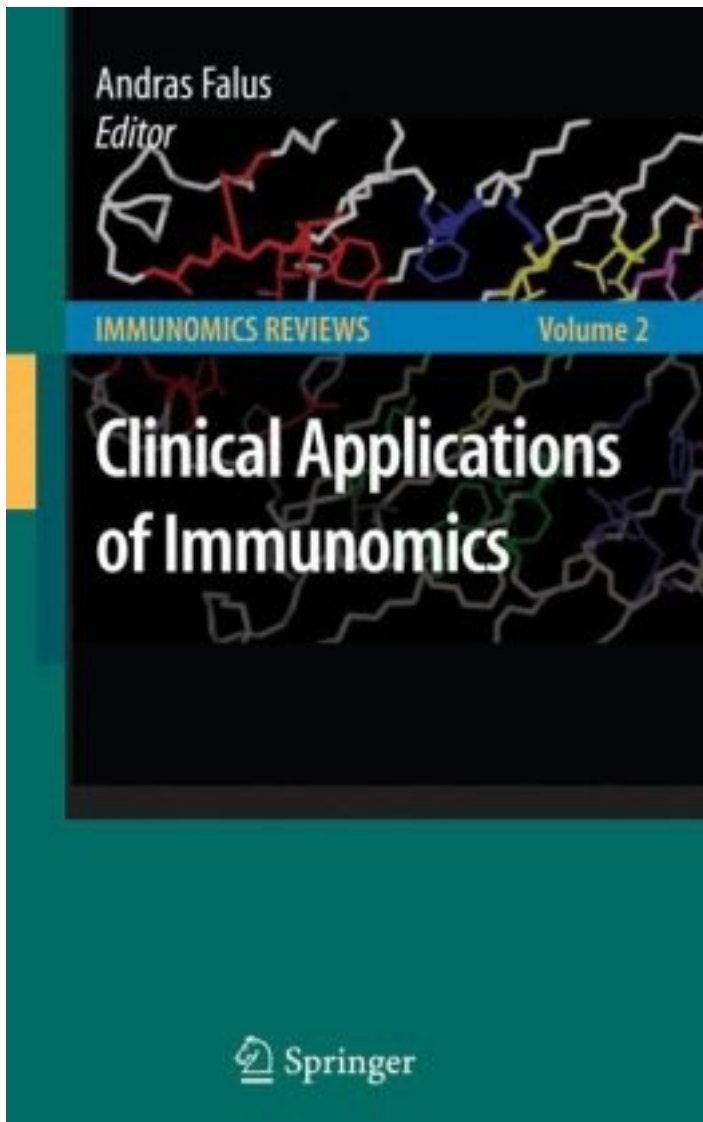


Clinical Applications of Immunomics



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This is the second volume in a series that will be dedicated to publishing advances in immunomics particularly those focusing on systemic and integrative approaches in basic and clinical immunology, immunoinformatics, and immunologically relevant instrumentation and high-throughput screening methods. Rapid improvement in accessibility to molecular databases as well as availability of high throughput genomic, proteomic, and other 'omics' methodologies are forcing a considerable shift in research and development strategies for biomedicine. Systems biology, a systematic study of complex interactions in biological systems, is currently closely related to the development and application of bioinformatics and biostatistics tools to genomic and proteomic data in clinical immunology, as well. Systems immunology translates achievements of immunological research to medically relevant applications such as diagnosis, prevention, and therapy. Clinical immunomics covers a broad range of diseases and this volume brings together a work representing a spectrum of immunomic applications to showcase key technologies that will shape clinical immunology in the near future. The chapters show examples of immunomics approaches to cancer, autoimmunity, allergy, and primary immunodeficiencies. Key concepts of this volume deal with various combinations of bioinformatics and biostatistics, instrumentation, molecular biology, animal models, and clinical samples for the advancement of clinical immunology.

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