



# **Genomic Biomarkers for Pharmaceutical Development: Chapter 3. Personalized Healthcare in Autoimmune Diseases (Japan Annual Reviews in Electronics, Computers and Telecommunications)**

*Cornelis L. Verweij, Brandon W. Higgs, Yihong Yao*

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Autoimmune diseases constitute a wide range of mostly complex and multifactorial disorders that are difficult to treat. Increasing insight in the pathogenesis of autoimmune diseases has led to development of targeted therapies aimed at regulating key components of the disease pathways. In particular, the advent of biologic therapeutics has led to significant advances in the treatment of autoimmune diseases. However, the multifactorial nature of the different clinical entities, reflected by the uniqueness of an individual's genetic make-up and environmental factors, create a high degree of molecular and clinical heterogeneity within a clinically defined disease. Consequently, targeted therapies are not efficacious for all patients diagnosed with such a disease, and selection of therapies is still conducted on a trial-and-error basis. With the rapid advances in modern genomics and genetics technology, there has been some encouraging progress made in the last several years in developing genomic biomarkers as pharmacodynamics markers to evaluate target neutralization for dose selection in pivotal trials, and to identify and evaluate potential predictive markers for efficacy in targeted therapies. This chapter provides highlights and case studies in this field.

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