



Genomic Biomarkers for Pharmaceutical Development: Chapter 6. Toxicogenomics - A Drug Development Perspective (Japan Annual Reviews in Electronics, Computers and Telecommunications)

Yuping Wang, Jurgen Borlak, Weida Tong

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Although we have seen increased spending on drug research and development, the submission of new drug applications to the US Food and Drug Administration (FDA) has steadily decreased over the past 15 years. Meanwhile, toxicology is celebrating the ten-year anniversary of the introduction of toxicogenomics, a field that was anticipated to change our way of conducting toxicology with enhanced safety assessment. Despite the excitement, and a decade of further technical advancement, the anticipated benefits have been slow to reach the clinical bedside. The failure to translate toxicogenomics to drug development faster, illustrates the need for further innovations in its methodology as well as in its technology. This review introduces the concept of toxicogenomics, summarizes the prominent applications of this relatively young discipline in drug development, and provides a future perspective of advancement in this field.

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