



# The Oncogenomics Handbook (Cancer Drug Discovery and Development)

*William J. LaRochelle, Richard A. Shimkets*

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**The Oncogenomics Handbook (Cancer Drug Discovery and Development)** William J. LaRochelle, Richard A. Shimkets

An integrated overview of cancer drug discovery and development from the bench to the clinic, showing with broad strokes and representative examples the drug development process as a network of linked components leading from the discovered target to the ultimate therapeutic product. Following a systems biology approach, the authors explain genomic databases and how to discover oncological targets from them, how then to advance from the gene and transcript to the level of protein biochemistry, how next to move from the chemical realm to that of the living cell and, ultimately, pursue animal modeling and clinical development. Emerging cancer therapeutics including Rituxan, Erbitux, Gleevec, Herceptin, Avastin, ABX-EGF, Velcade, Kepivance, Iressa, Tarceva, and Zevalin are addressed. Highlights include cancer genomics, pharmacogenomics, transcriptomics, gene expression analysis, proteomic and enzymatic cancer profiling technologies, and cellular and animal approaches to cancer target validation.

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