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Trawling the Genome for G Protein-coupled Receptors: the Importance of Integrating Bioinformatic Approaches; Virtual Screening of Virtual Libraries - an Efficient Strategy for Lead Generation; Virtual Techniques for Lead Optimisation; The Impact of Physical Organic Chemistry on the Control of Drug-like Properties; Mutagenesis and Modelling Highlight the Critical Nature of the TM2-loop-TM3 Region of Biogenic Amine GPCRS; Computational Vaccine Design; Subject Index

Sommario/riassunto

Pharmaceutical research draws on increasingly complex techniques to solve the challenges of drug design. Bringing together a number of the latest informatics techniques, this book looks at modelling and bioinformatic strategies; structural genomics and X-ray crystallography; virtual screening; lead optimisation; ADME profiling and vaccine design. A number of relevant case studies, focussing on techniques that have demonstrated their use, will concentrate on G-protein coupled receptors as potential disease targets. Providing details of state-of-the-art research, Drug Design: Cutting Edge Approac
