

Download The Pharmacology Of Functional Biochemical And Recombinant Receptor Systems With Contributions By

Cytochromes P450 (CYP) are a major source of variability in drug pharmacokinetics and response. Of 57 putatively functional human CYPs only about a dozen enzymes, belonging to the CYP1, 2, and 3 families, are responsible for the biotransformation of most foreign substances including 70–80% of all drugs in clinical use. Cysteinyl leukotriene receptor 1, also termed CYSLTR1, is a receptor for cysteinyl leukotrienes (LT) (see leukotrienes#Cysteinyl leukotrienes). Surface plasmon resonance (SPR) spectroscopy is a rapidly developing technique for the study of ligand binding interactions with membrane proteins, which are the major molecular targets for validated drugs and for current and foreseeable drug discovery. A new method, based on the observation that leukocytes contain PGI₂-synthetase activity, was used to measure the effect of pharmacological levels of sulphinpyrazone on the TXA₂ and PGI₂ production in whole blood.