A Review on Drug isomerism in Pharmcology and Pharmacotherapeutics

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Drug isomerism has opened a new era of research in pharmacology and it helps in understanding the mechanisms behind adverse effects and drug actions. The effectiveness of a drug is related to its chemical structure and polarity of the substance Many existing drugs have gone chiral switch i.e. switching from racemate mixture to one of its isomers .The interest in chirality has arisen as a result of recent advances in the areas of stereo selective synthesis and stereospecific analysis of the chiral drug molecules with improved efficacy and tolerability. Knowledge of isomerism can help in introducing safer and effective drug alternatives of the new as well as existing drugs.