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(57) Abstract :

A method for developing and characterize the role of small-molecule accumulation in drug exposure of antiepileptic medications. The method includes (i) representing a medicinal plant as a primitive form of anti-inflammatory drugs, (ii) identifying salicylates as active components of Willow spp. responsible for the anti-inflammatory activity, which laid the foundation for the mass synthesis of acetylsalicylic acid, (iii) synthesizing an alicyclic acid by the Gerland for the first time, and acetylsalicylic acid, wherein salicylic acid was firstly used in clinic for the treatment of rheumatic disorders, (iv) reducing this harmful side effect, the selective COX-2 inhibitors were developed, wherein the selective COX-2 inhibitors can be further divided into two categories: selective COX-2 inhibitors and highly selective COX-2 inhibitors.

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