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| Natural Product Chemistry⧫ Plant chemistry★ GC-MS analysis ⮚ Head space GC-MS⮚ GC-MS analysis of volatiles⮚ SPME analysis★ Extraction and structure elucidation of natural products★ Quantitative NMR⮚ qH-NMR of essential oils⮚ qH-NMR of extracts and other mixtures★ Absolute configuration determination for natural products⮚ ECD⮚ Mosher’s method★ HPLC and LC-MS analysis of plant extracts⧫ Synthesis and biosynthesis of plant metabolites⧫ Microbial natural products★ Endophytes★ BacteriaMetabolomics⧫ Plant metabolomics⧫ Human metabolomics★ Plasma metabolomics★ Urine metabolomicsNatural product drug discovery ⧫ In silico drug discovery★ Molecular docking study⮚ Structure modification of natural products★ In silico ADME-Tox (Absorption, Distribution, Metabolism, Excretion and Toxicity) studies⧫ In vitro assays★ Antioxidant assays★ Antimicrobial assays★ Cell culture assays⮚ Cytotoxic assays⮚ Neuroprotective assays★ Enzymatic assays⮚ Anti-diabetic assays⧫ In vivo and pharmacological assays★ Animal studies⮚ acute and sub-acute toxicities of medicinal plants and other natural products⮚ Pharmacological activities of medicinal plants and other natural products⧫ Clinical practice★ Clinical trials of medicinal plants and other natural products★ Pharmacokinetics of natural productsNatural drug formulation⧫ Formulations★ Tablet, capsule, syrup, etc.⧫ Physico-chemical properties★ Stability⮚ GC-MS⮚ HPLC⮚ H-NMR★ Standardization and quantitative analysis⮚ GC-MS⮚ HPLC⮚ H-NMR |