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Discovery of biological activity using tissue distribution of natural products

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Recently, the use of herbal products as alternative or herbal medicines is steadily increasing in single or combination therapy and the investigation of characterization, efficacy and safety profiles of herbal products is emphasized. Although the utilizations of the traditional decoctions or modified preparations containing purported active compounds have been documented, the efficacy and safety of active compounds might vary in preclinical and clinical levels. In order to clarify the purported efficacy or new application to pharmacological effect of herbal products, the tissue distribution and metabolism studies of the major components or active compounds present in the herbal products may give in part certain clues relevant to specific organs and pharmacological activities. Thus, in the present study, the investigation on the tissue distribution and metabolism in each tissue and free fraction of natural products and the evaluation of biological activities in the specific organs which were chosen based on the tissue distribution properties of natural products were carried out.

Biography

Young-Won Chin has completed his PhD from the College of Pharmacy, Seoul National University and postdoctoral studies from the College of Pharmacy, the Ohio State University. He is an Assistant Professor at the college of pharmacy, Dongguk University-Seoul. He has published more than 100 papers in decent journals and serving as a section editor of *Archives Pharmacal Research*.

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