



# **Flavonoid Pharmacokinetics: Methods of Analysis, Preclinical and Clinical Pharmacokinetics, Safety, and Toxicology**

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# Flavonoid Pharmacokinetics: Methods of Analysis, Preclinical and Clinical Pharmacokinetics, Safety, and Toxicology

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## SETS FORTH A FRAMEWORK FOR THE ANALYSIS AND STUDY OF FLAVONOIDS

More and more dietary supplements contain flavonoids. These products are typically viewed as food rather than drug products by regulatory agencies and therefore not subjected to rigorous clinical trials before they are marketed to the general public. As a result, the use of flavonoid-containing supplements presents a potential public health risk. From discovery to therapeutic application, this book is a comprehensive guide to both achiral and chiral flavonoids, enabling researchers to perform essential preclinical and clinical pharmacokinetics studies in order to ensure the efficacy of flavonoids marketed for therapeutic use. Moreover, the book examines the safety and toxicology of flavonoids as well as flavonoid-drug interactions.

With contributions from a multidisciplinary team of leading researchers, *Flavonoids Pharmacokinetics* reviews and synthesizes the most recent research findings and results from preclinical and clinical studies. The book begins with a comprehensive overview of polyphenols and flavonoids. Next, the book covers:

- Methods of analysis of achiral flavonoids
- Preclinical pharmacokinetic of flavonoids
- Toxicology and safety of flavonoids
- Methods of analysis for chiral flavonoids
- Clinical pharmacokinetics of flavonoids
- Flavonoids and drug interactions

Throughout the book, the authors provide examples that demonstrate the use of pharmacokinetics concepts during the preclinical and clinical drug development process.

*Flavonoid Pharmacokinetics* is written for pharmaceutical, food, and nutritional scientists and students, offering the tools they need to thoroughly analyze and test flavonoids and flavonoid-containing supplements to ensure their safety and efficacy.

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