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Drug Metabolism and Disposition:

Biological fate of chemicals

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Editor
RAYMOND F. NOVAK

A publication of the
American Society for
Pharmacology and
Experimental Therapeutics

Vol. 24, No. 2
February 1996

Founded in 1973
by Kenneth C. Leibman



Published monthly by
Williams & Wilkins

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Submission of manuscripts. DRUG METABOLISM AND DISPOSITION will consider for publication manuscripts describing the results of original research that contribute significant and novel information on xenobiotic metabolism and disposition. The term xenobiotic includes therapeutic agents as well as environmental chemicals, and research may involve the use of *in vivo* or *in vitro* approaches, including cultured cells and heterologous expression systems. Manuscripts describing the results of pharmacokinetic/pharmacodynamic research are invited. Manuscripts that examine mechanistic aspects of xenobiotic metabolism as well as those examining mechanisms that affect xenobiotic metabolism or disposition, including drug-metabolizing enzyme expression, regulation of drug-metabolizing enzyme gene expression, and genetic polymorphism, are encouraged. Manuscripts concerned with genetic, nutritional, or hormonal factors that influence the biological fate of chemicals are also of interest, as are those that address the toxicologic consequences of xenobiotic metabolism.

Four copies of each manuscript should be sent to Dr. Raymond F. Novak, Editor, DRUG METABOLISM AND DISPOSITION, The Institute of Chemical Toxicology, Wayne State University, 2727 Second Avenue, Room 4000, Detroit, MI 48201-2654. Telephone: (313) 961-4943. Fax: (313) 961-0026 or 577-0082. Submission of a manuscript implies that the material contained therein has not previously been published except as an abstract for a scientific meeting, and that it is not being submitted elsewhere.

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2. L. M. Anderson: Modulation of nitrosamine metabolism by ethanol: implications for cancer risk. In "Alcohol and Cancer" (R. R. Watson, ed.), pp. 17-42. CRC Press, Boca Raton, Fla., 1992.

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References should be cited in the text by numbers within parentheses. Abbreviations of journal names should be those given in *Index Medicus*.

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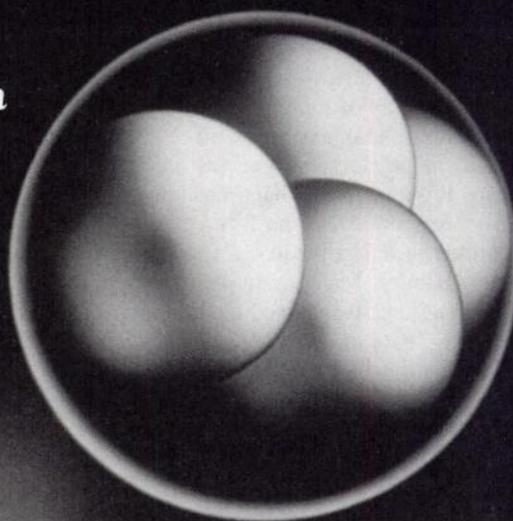
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DRUG METABOLISM AND DISPOSITION

The Biological Fate of Chemicals

Editor: Raymond F. Novak, Ph.D.,
Wayne State University, Detroit, Michigan



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Frequency: *Monthly*: One volume a year beginning in January. Printed on acid-free paper.

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Sessions Include:

Keynote Lecture

Anthony Y. H. Lu (Merck; Rahway, NJ)

Pharmacogenetics and Cancer Chemotherapy

Discussion Leader: *William E. Evans* (St. Jude's; Memphis, TN); Speakers: *David Waxman* (Boston U.; Boston, MA) "P450 activation of oxazaphosphorine anticancer drugs: development of a combined chemotherapy/gene therapy strategy." *Frank Gonzalez* (NCI; Bethesda, MD) "Genetic polymorphism of dihydropyrimidine dehydrogenase and 5-fluorouracil therapy: molecular mechanisms and clinical consequences." *William Evans* (St. Jude's; Memphis, TN) "Genetic polymorphism of thiopurine S-methyltransferase and thiopurine therapy: molecular mechanisms and clinical consequences."

Pharmacogenetics of the Glutathione S-transferases

Discussion Leader: *Peter van Bladeren* (TNO/CIVO; The Netherlands); Speakers: *Brian Ketterer* (Univ. Coll.; London, England) "Class θ glutathione S-transferases: mechanisms and relevance to variations in human risk." *David Eaton* (U. Wash.; Seattle, WA) "Class α glutathione S-transferases: mechanisms and relevance to variations in human cancer risk."

Drug Metabolism in the Brain

Discussion Leader: *Henry Strobel* (UT Med. School; Houston, TX); Speakers: *Jean-Francois Gherzi-Egea* (Institut Pasteur; Lille, France) "Roles of blood-brain barriers in cerebral drug metabolism." *Hidenori Kawashima* (UT Med. School; Houston, TX) "Brain cytochromes P-450 and mental diseases." *Arthur Cooper* (Cornell Univ.; NY) "Cysteine conjugate β -lyases."

Drug Metabolism as a Determinant of Drug Toxicity

Discussion Leader: *David Jollow* (Med. Univ. S. Carolina; Charleston, SC); Speakers: *Arthur K. Cho* (UCLA; Los Angeles, CA) "The demethylation of methylenedioxyamphetamines by cytochromes P450." *Neal Castagnoli* (VPI and State U.; Blacksburg, VA) "Biotransformation of cyclic tertiary amines to neurotoxic metabolites."

Phase III Metabolism: The Export of Drugs and Metabolites

Discussion Leader: *Terrence J. Monks* (U. Texas; Austin, TX); Speakers: *Piet Borst* (Nederlands Kanker Inst. Amsterdam; The Netherlands) "The GS-X pump." *Jeff Silverman* (NCI; Bethesda, MD) "Xenobiotic regulation of the rat multi-drug resistance lb gene." *Mary Vore* (U. Kentucky; Lexington, KY) "Does canalicular P-glycoprotein mediate estrogen glucuronide cholestasis?"

Drug Metabolism Data Blitz

Discussion Leader: *Serrine S. Lau* (U. Texas; Austin, TX); Selected presentations from conferees.

Drug Metabolism in Drug Discovery and Drug Development

Discussion Leader: *Brian Smith* (SmithKline Beecham; King of Prussia, PA); Speakers: *Brian Smith* (SmithKline Beecham; King of Prussia, PA) "Strategies to facilitate the discovery to development transition." *Andrew Ayerton* (SmithKline Beecham; King of Prussia, PA) "In vitro biotransformation in the drug discovery process." *Martin Dyroff* (Zeneca; Wilmington, DE) "The role of drug metabolism and pharmacokinetics during drug hunting and optimization."

Technological Advances in Drug Metabolism

Discussion Leader: *Ronald E. White* (Bristol Myers-Squibb; Princeton, NJ); Speakers: *Jeremy K. Nicholson* (Univ. London; England) "HPLC-NMR studies on drug metabolism, and drug metabolite reactivity." *Daniel E. Murnick* (Rutgers Univ.; Newark, NJ) "Laser-assisted isotope ratio analysis of C, N, and O."

For further information please contact Dr. Terrence J. Monks, Univ. Texas @ Austin.
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