May 1996

CONTENTS

LETTERS TO THE EDITOR

Relevance of Routine Tissue Distribution Studies for Human Drugs. A. M. MONRO ............. 507

Corpora Non Agunt Nisi in Loco. W. E. STUMPF ............. 507

Relevance of Routine Tissue Distribution Studies for Human Drugs: A Response. K. YELESWARAM ............. 508

ARTICLES

Characterization of Microsomal Cytochrome P450 Enzymes Involved in the Oxidation of Xenobiotic Chemicals in Human Fetal Livers and Adult Lungs. TSUTOMU SHIMADA, HIROSHI YAMAZAKI, MAYUMI MIMURA, NOBUTAKA WAKAMIYA, YUNE-FANG UENG, F. PETER GUENGERICH, AND YUKIHARU INUI ............. 515


Caffeine Induces Cytochrome P4501A2: Induction of CYP1A2 by Tea in Rats. LAISHUN CHEN, FLORDELIZA Y. BONDOC, MAO-JUN LEE, ABAS HI HUSSIN, PAUL E. THOMAS, AND CHUNG S. YANG ............. 529

Effects of Taurine Supplementation in Parenteral Nutrition–Associated Hepatosteatosis and Lipidcaine Metabolism: A Study Using Isolated Rat Liver Perfusion. NIZHAT ZAMAN, YUN K. TAM, LAWRENCE D. JEWELL, AND RONALD T. COUTTS ............. 534

Suppression of Constitutive Cytochrome P450 Gene Expression by Epidermal Growth Factor Receptor Ligands in Cultured Rat Hepatocytes. KAREN Z. CHENG, KIRSTEN A. TENNEY, JINGQIANG CHEN, AND EDWARD T. MORGAN ............. 542

Placental Transfer of the Hypolipidemic Drug, Clofibrate, Induces CYP4A Expression in 18.5-Day Fetal Rats. ANNEMARIE E. C. M. SIMPSON, WILLIAM J. BRAMMAR, MARGARET K. PRATTEN, NEIL COCKCROFT, AND CLIFFORD R. ELCOMBE ............. 547

The Aliphatic Oxidation of Salmeterol to α-Hydroxy-salmeterol in Human Liver Microsomes Is Catalyzed by CYP3A. GARY R. MANCHEE, PETER J. EDDERSHAW, LISA E. RANSHAW, DEBORAH HERriott, GILBERT R. PARK, MARTIN K. BAYLISS, AND MICHAEL H. TARBIT ............. 555

Disposition of Valproamide, Valproic Acid, and Valnoctamide in the Brain, Liver, Plasma, and Urine of Rats. SIMCHA BLOTMAN, FELIX BERGMAN, AND MEIR BIALER ............. 560


Fate of 4'-Epicylamino-4'-deoxyavermectin B1 in Rats. ZHAOQIE ZENG, NICHOLAS W. ANDREW, MARILYN L. GREEN-ERWIN, AND BRUCE A. HALLEY ............. 572

P,P'-Dichlorodiphenyl Sulfone Metabolism and Disposition in Rats. JAMES M. MATHEWS, SHERRY L. BLACK, AND H. B. MATTHEWS ............. 579

Continued on next page
Contents (cont’d.)

17β-Estradiol Metabolism by Hamster Hepatic Microsomes: Implications for the Catechol-O-methyl Transferase-Mediated Detoxication of Catechol Estrogens. MICHAEL BUTTERWORTH, SERRINE S. LAU, AND TERRENCE J. MONKS ........ 588

3-Hydroxymethylcholanthrene: Metabolic Formation from 3-Methylicholanthrene and Stereoselective Metabolism by Rat Liver Microsomes. MAGANG SHOU AND SHEN K. YANG ............... 595

Characterization of the Cytochrome P450 Enzymes Involved in the in Vitro Metabolism of Dolasetron: Comparison with Other Indole-Containing 5-HT3 Antagonists. PATRICIA SANWALD, MURIELLE DAVID, AND JAMES DOW ............ 602

Formation of (R)-8-Hydroxywarfarin in Human Liver Microsomes: A New Metabolic Marker for the (S)-Mephenytoin Hydroxylase, P4502C19. LARRY C. WENKERS, COLLEEN J. WURDEN, ELIZABETH STORCH, KENT L. KUNZE, ALLAN E. RETTIE, AND WILLIAM F. TRAGER ............... 610

SHORT COMMUNICATION