INSTRUCTIONS TO AUTHORS

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.

All manuscripts received in the editorial office must be accompanied either by a check for $40.00 (in U.S. funds payable to ASPET) or by a validated purchase order form from the author's institution. The review process for submitted manuscripts will be delayed until the manuscript handling fee or purchase order form is received in the Editor's office. If the submission of the manuscript handling fee entails a personal financial hardship to the author(s), the manuscript handling fee will be waived. In that event, the authors should submit a request for waiver of the fee at the time the manuscript is submitted.

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After Acceptance: When an article has been accepted for publication, the final manuscript may be sent to the Editorial Office on diskette. A hard copy must accompany the diskette. This will expedite the publication process for Williams & Wilkins.

Authors are encouraged to submit electronic diskettes of the final version of their manuscripts along with the typed REVISED manuscript. Diskettes produced on IBM or IBM-compatible computers are preferred, but those produced on most Apple/Macintosh or Wang computers can also be converted. The following word processing programs are preferred: XYWrite III Plus, Word Perfect 4.2, 5.0, or 5.1 (IBM or Macintosh), Microsoft Word (IBM or Macintosh), Wang OIS (WPS), and Wordstar (IBM). Other word processing systems that we can convert are CPT 8000, MacWrite 2.2 or 4.5, Display Write 3 or 4, Multimate, PC Write, Volkswriter, and Write Now. Authors preparing diskettes on Macintosh computers should not use the Fast Save option. Files in ASCII can also be used but are not preferred. Identify the diskette by providing journal name, manuscript number, senior author's name, manuscript title, name of computer file, type of hardware, operating system and version number, and software program and version number.

The journal does not assume responsibility for errors in conversion of customized software, newly released software, and special characters. Mathematics and tabular material will be processed in the traditional manner.

Form and style of manuscript. Manuscripts, in English language only, should be typewritten double-spaced with ample margins, on one side of 8.5 × 11-inch pages. The original typescript and three copies, which may be Xerox or other good reproductions, of legible carbon copies, should be sent. All pages should be numbered in sequence, starting with the title page.

A. Full-length papers. Full papers should be arranged as follows:
1. Title page, containing the title of the paper, names of all authors, and the institution(s) where the work was done. The title should have no footnote numbers (see Footnotes below). The title should briefly yet explicitly indicate the contents of the paper. Names of chemicals or chemical classes studied, species used, etc., should be included in the title.
2. Running title not exceeding 50 total characters and spaces. Please note the Running Title will be used for the front page summary. These should not use commercially designated drug numbers or other unaccepted abbreviations (e.g., change "Bio-transformation of XYZ-89843" to "Biotransformation of a Pyrrolopyrimidine Analog"). The name and address of the person to whom editorial correspondence and galley proofs should be sent should appear at the bottom of this page.
3. Abstract of not more than 250 words.
4. Introduction. A brief summary of the pertinent literature and a statement of the aims of the work.
5. Materials and Methods. Species, strains, sexes, ages, and sizes of animals, with Latin names where required for distinction, should be given. Sources and purities of chemicals other than common reagents should be indicated. Equipment used and conditions of use should be specified. When published methods are used, a bibliographic reference is sufficient; minor modifications should be described. When a method has been extensively modified, the entire new procedure should be described. Authors should attempt to describe their work in all cases so that their peers would be able to repeat the experiments. Where conditions for similar experiments vary throughout the work, these may be indicated in legends to figures and tables. Properties and proof of structure must be given for reference compounds used for metabolite identification.
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only two or three values, it may be preferable to present the data in sentence form in the text. Authors should avoid using several tables describing very similar experiments; these should be combined wherever possible, unless this would result in overcomplicated, unwieldy tables. The same data should normally not be repeated in tables and figures. The text should be used to describe and summarize the data and to draw primary conclusions from them, but not to repeat the numerical data. No extended discussion of the results should be included in this section.

7. *Discussion*. The major conclusions to be drawn from the work should be assembled here, and these should be discussed with respect to the existing body of knowledge in the immediate area. Graphic schema should be used wherever possible to clarify the conclusions. Speculation should be clearly identified as such, and should be germane to the data presented. Questions raised by the work, or those inherent in the experiments, should be discussed.

Although it is normally preferable to separate the Results and Discussion sections, these sections, e.g., when an extended discussion of some of the experiments is required for an understanding of subsequent experiments, may have to be combined occasionally.

8. *Acknowledgments* of technical assistance, gifts of materials, and other aid. Financial support should not be mentioned here, but rather in an unnumbered footnote to the title (see Footnotes, below).

9. *References*, numbered in order of citation in the text. Examples of style of references follow:


Papers that have actually been accepted for publication may be cited among the references; give authors, journal name, and the words “in press.” Work not published or accepted, or personal communications, should be cited by footnote. Where knowledge of unpublished work is crucial to evaluation of a paper, duplicate copies of the pertinent data should be submitted with the manuscript for examination by the referees.

Authors are urged to exercise the utmost care that references are accurate. As a rule, references should not be included that have not been examined personally by the author. When, because of its rarity of language, the primary reference could not be examined, the secondary source should be indicated as well, as follows:


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10. *Footnotes*, presented in the following order:

(a) Unnumbered footnote giving source of financial support, thesis information, citation of abstracts of meetings where this work was presented, etc., and, in a separate paragraph, the name and full address (with street address or P.O. box where applicable, and zip code number) of person to receive reprint requests.

(b) Numbered footnotes, starting with those (if any) to authors’ names. Number footnotes in sequence throughout the text, using superscript numbers.

11. *Tables*, each on a separate page. Tables are to be numbered with arabic numbers. The title should be in italics (or underlined) with only the first word and proper names capitalized. General statements about the table should follow the title in paragraph form. Footnotes to the table should be indicated by italicized lower case superscript letters, starting with *a* for each table. Footnotes should be typed immediately below each table.

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B. *Short Communications*. Short Communications should be divided into sections the same way as full papers, but the Results and Discussion sections may be combined at the author’s discretion. Short Communications are subject to the same review process as full papers. The total length of a short communication may not exceed 10 typewritten pages, double-spaced with each figure counting as one page. Structural formulae of parent compounds and metabolites should be given; where possible, these should be general formulae with variable groups identified in a legend.

Title, authors’ names and affiliations, footnotes, captions, legends, references, and index terms should follow the forms outlined above for full papers.

C. *Reviews*. Contemporary reviews on topics of interest covering the more recent aspects of a subject in the area of interest will be published. These may be critical reviews that present the author’s view of the current state of the subject or prospective articles intended to stimulate discussion and research. Manuscripts submitted under this category should be accompanied by a transmittal letter that highlights the significance of the work and includes a list of at least four scientists who could serve as appropriate reviewers.

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Accelerated Communications should contain novel or unusual findings that are documented clearly and contribute conceptually to the advancement of the field. Manuscripts will be reviewed using the same criteria applied to full papers, but reviews will be expedited. Manuscripts submitted under this category should be accompanied by a transmittal letter that highlights the significance of the work and includes a list of at least four scientists who could serve as appropriate reviewers. Accelerated Communications are not intended for publication of preliminary results.

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Abbreviations for units of measurement should be unpunctuated, with no distinction between singular and plural forms. Multiples of units should be indicated as follows: kg, g, mg, μg (not ug, mcg, or γ), ng, pg. Abbreviations to be used for units of measurement are:

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Radioactivity: Ci (curie); r (roentgen); cpnm or dpnm (counts or disintegrations per min).

Electricity: V (volt); amp (ampere); Hz (cycles/sec).

Spectrometry: A000 [absorbance (not OD or E) at 000 nm (not μm) wavelength]; ε (molar absorption coefficient, with units M⁻¹ cm⁻¹); UV (ultraviolet); IR (infrared); ESR (electron-spin resonance); NMR (nuclear magnetic resonance); δ (chemical shift, with units ppm (parts per million)); s (singlet); d (doublet); t (triplet); m (multiplet); amu (atomic mass units); m/z (mass/charge ratio).

Chromatography: TLC (thin-layer chromatography); Rf (retardation factor); GLC (gas chromatography); Rf (retention time); GC/MS (coupled gas chromatography-mass spectrometry); HPLC (high-pressure liquid chromatography).

Equilibrium and kinetic constants: Ka (dissociation constant); Kd or Ki (dissociation constant of enzyme-substrate or enzyme-inhibitor complex); Kd (Michaelis constant); Vmax (maximum initial velocity); k (rate constant); kp (negative logarithm of acidic dissociation constant); 1/2, half-life; AUC, area under the curve of plasma concentrations vs. time.

Statistics: p (probability of chance observation); N (number of experiments); SD (standard deviation of the series); SE (standard error of the mean).

Other abbreviations: °C (degrees of temperature); g (acceleration due to gravity, as in 9000g); rpm (revolutions per min); LD50 and ED50 (median lethal and effective doses); iv (intravenous); ip (intraperitoneal); im (intramuscular); sc (subcutaneous); po (peroral); m.p. (melting point); sp.g. (specific gravity).

Drugs and chemicals: The following abbreviations may be used without definition: NAD+, NADH, NADP+, NADPH, FMN, FAD, ATP, CDP, GDP, GTP, pNAD, UDP-glucuronic acid, Tris, EDTA; SKF 525-A; all other abbreviations should be explained in a single footnote at the point of use of the first one. Cytochromes should be named as follows: cytochrome b5, cytochrome c, cytochrome P450. Generic names of drugs should be used; the trade-name, capitalized, may be given in parentheses after the first use of the generic name. Where no generic name exists, a code number may be used, but the full chemical name of the compound must be given in parentheses following the first use of the number. Trade-names and code numbers should not be used in the title.

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