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INSTRUCTIONS TO AUTHORS

Molecular Pharmacology will publish the results of investigations that contribute significant new information on drug action or selective toxicity at the molecular level. The term "drug" is defined broadly to include chemicals that selectively modify biological function.

Suitable papers are those that describe applications of the methods of biochemistry, biophysics, genetics, and molecular biology to problems in pharmacology or toxicology. Also suitable are reports of fundamental investigations which, although not concerned directly with drugs, nevertheless provide an immediate basis for further study of the molecular mechanism of drug action. Observations of phenomena that shed no light upon underlying molecular interactions are not appropriate for publication. Comparative studies, such as those involving drug-receptor or drug-enzyme interactions that already have been well characterized in other types of cells or tissues, also are inappropriate for publication unless they contribute significant new insight into mechanisms.

Molecular Pharmacology has adopted a uniform policy for evaluation of manuscripts utilizing molecular modeling. Key aspects of content that determine suitability and eventual acceptance include: use of modeling technology to generate predictions concerning new molecules, modeling studies that offer significant new insights into the mechanism of actions of drugs, and inclusion of experimental data that support the predictions of molecular modeling. It is not necessary that each aspect be reflected in every manuscript; however, manuscripts that are purely theoretical in nature or that simply generate structural predictions without correlating these to drug action or new biological data will be returned as unsuitable for publication.

Specific areas of interest include: identification and characterization of receptors for hormones, growth factors, neurotransmitters, toxins, and other drugs; analysis of receptor response pathways; drug effects on metabolic pathways, biosynthesis and degradation of macromolecules, and cellular regulatory mechanisms; analysis of drug-receptor and drug-enzyme interactions; effects of drugs on structure and properties of macromolecules and membranes; relationships between drug structure and activity; molecular mechanisms of drug metabolism; distribution and transport between biological compartments; molecular mechanisms of chemical mutagenesis, carcinogenesis, and teratogenesis; and molecular mechanisms of selective toxicity, drug allergy, and pharmacogenetics.

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Submission of manuscript. Manuscripts are published in English only and should be sent to Dr. T. Kendall Harden, Editor, *Molecular Pharmacology*, CB 7368, Department of Pharmacology, University of North Carolina School of Medicine, Chapel Hill, North Carolina 27599-7368, U. S. A.

The expenses associated with the review of manuscripts submitted to *Molecular Pharmacology* and other ASPET-sponsored journals that are devoted to publishing original research articles have escalated dramatically in recent years because of ever-increasing costs of postage, supplies, and other office expenses, and the growing number of manuscripts submitted for publication. Thus, it has become necessary for ASPET to follow the example of several other scientific societies which have instituted uniform manuscript handling fees. Therefore, all manuscripts must be accompanied either by a check for \$40 (in U. S. funds drawn on a U. S. bank payable to ASPET) or by a validated purchase order from the authors' institution. The review process for submitted manuscripts will be delayed until the manuscript handling fee or purchase order is received in the Editor's office. If submission of the manuscript handling fee entails a personal financial hardship to the author(s), the fee will be waived. In that event, the author(s) should submit a request for waiver of the fee when the manuscript is submitted.

Manuscripts should be typewritten double-spaced with ample margins on one side of the paper, 8½ × 11 inches (ca. 215 × 280 mm). Submit four complete copies of the manuscript and four copies of each figure, plus one original drawing or photograph of each figure. Each half-tone figure requires four original drawings or photographs. All pages should be numbered consecutively beginning

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The Summary should be no more than 250 words.

Under usual circumstances reviewers will be instructed to return only their comments to the editorial office and to destroy manuscripts after a final decision on their acceptability has been made. Original drawings and single copies of manuscripts not accepted for publication will be returned to the authors upon request.

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All essential abbreviations should be defined in a single footnote when first introduced. Abbreviations of journal names should conform to the style of *Biological Abstracts*. References to papers that have been accepted for publication, but have not appeared, should be cited like other references with the abbreviated name of the journal followed by the words "in press." Three copies of such papers should be sent whenever the findings described in them have a direct bearing on the paper being submitted for publication. "Personal Communications" and "Unpublished Observations" should be cited in footnotes to the text and should not be included in the reference list.

A manuscript should include the following, in the order listed: (1) Title. Numbered footnotes to the title should be avoided; acknowledgment of financial support should be given in an unnumbered footnote to the title. (2) Names of authors, their laboratory and institution. (3) A running title, not exceeding 60 characters and spaces. (4) Summary. (5) Text. Footnotes should be referred to by superscript numbers and references by numbers in parentheses. (6) References, numbered according to order of citation in the text, including title and complete pagination. Examples: 1. Goren, J. H., L. G. Bauge, and W. Vale. Forces and structural limitations of binding of thyrotropin-releasing receptor: the pyroglutamic acid moiety. *Mol. Pharmacol.* 13:606-614 (1977). 2. Chernow, B., and J. T. O'Brian. Overview of catecholamines in selected endocrine systems, in *Norepinephrine* (M. G. Ziegler and C. R. Lake, eds.). Williams and Wilkins, Baltimore, 439-449 (1984). 3. Snedecor, G. W., and W. G. Cochran. *Statistical Methods*. Iowa State University Press, Ames (1967). (7) Footnotes, numbered according to order of appearance in the text. (8) Tables. (9) Figures. (10) Legends to figures. (11) Name and address of person to receive galley proof.

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