INSTRUCTIONS FOR AUTHORS

_Cancer Research_ is the official organ of the American Association for Cancer Research, Inc., and is devoted to the publication of significant, original research in the fields of cancer research and cancer-related biomedical science. The Editors will be happy to consider manuscripts from any country in the world that contain material falling within the Journal's publication scope. Only those papers that report results of novel and timely studies and that meet high standards of scientific quality will be accepted. Such papers will be subjected to stringent review and are published within about three months after acceptance.

When a manuscript is received for consideration, the Editors assume that no similar paper, other than an abstract or preliminary report, has been or will be submitted for publication elsewhere. Editorial decisions, forwarded from the Editorial Office to authors, are rendered as promptly as possible consistent with thoroughness of review.

Journal policy requires that a single manuscript processing fee of $50 be assessed for all manuscripts, regardless of the number of resubmissions required; this income is used to defray expenses incurred in review. Payment of this processing fee should not accompany the manuscript; an invoice will be mailed with acknowledgment of receipt of the manuscript at the Editorial Office. Editorial review will not be delayed for receipt of payment.

Contributions must be submitted in quadruplicate (the original typescript and three clear copies, with at least two sets of original illustrations) to Dr. Sidney Weinhouse, Editor, _Cancer Research_ Editorial Office, Fels Research Institute, Temple University School of Medicine, Philadelphia, Pa. 19140 (Telephone: 215-221-4720). Papers should be submitted only by an author, preferably the senior author, who should indicate in a covering letter the exact address to which all related correspondence should be sent and a telephone number at which the author can be reached. The original plus a photocopy of this letter are required. If the manuscript contains any quoted information conveyed by either personal communication or release of unpublished experimental data, the covering letter should state specifically that authorization to use this material has been given.

The Editorial Office cannot accept collect telephone calls from authors.

Authors are urged to read carefully and follow these instructions to minimize the time and expense involved in processing manuscripts.

_Revised Manuscripts_

Revised manuscripts should be submitted in triplicate, with two sets of original illustrations. A covering letter in duplicate must accompany all revised manuscripts and indicate clearly what alterations have been made in response to the reviewers' comments. Satisfactory reasons should be given for noncompliance with any of the recommendations of the Editors.

Categories of Publication

The following types of manuscripts are accepted: (1) Papers containing results of original experimental, clinical, or statistical studies that are sufficiently well documented to be acceptable to the critical reader. (2) Concise reviews on subjects of importance to cancer researchers. Such articles are given particularly stringent editorial evaluation before acceptance. (3) Communications that are brief and of unusual timeliness and significance. These papers are given especially rigid and rapid review and, if deemed acceptable, are published one month earlier than regular papers. (4) Letters to the Editor which deal with issues of importance to cancer researchers. If experimental data are included, these should be kept to the minimum required for adequate understanding. Included under this category are commentaries on manuscripts published in the Journal. If accepted, replies by the authors are invited for simultaneous publication. (5) Brief reports of meetings, symposia, and conferences related to cancer research. (6) Proceedings of symposia, published as external supplements to the Journal, the full expenses of which are assumed by the sponsoring agency. (7) Brief announcements of scientific meetings of interest to readers, of courses in cancer-related biomedical science, and of the availability of fellowships and scholarships. These should be submitted at least 3 months prior to the expected month of issue. (8) A list of books received at the Editorial Office is published periodically; the Journal does not publish book reviews.

Format and Style

Papers should conform strictly to Journal style. A recent issue of _Cancer Research_ will provide authors with assistance in the proper arrangement of papers. Manuscripts are to be written in clear, grammatical English. Papers that are not in good idiomatic English will be returned to the author without review. Investigators not fluent in the English language can avoid long delays in publication by conferring with colleagues knowledgeable in written English expression in the preparation of their manuscripts.


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Instructions for Authors

Data must be presented concisely. Large masses of data of peripheral significance to the main thesis of the investigation will not be published in Cancer Research but may be deposited by the author in the National Auxiliary Publications Service, c/o Microfiche Publications, 440 Park Avenue South, New York, N. Y. 10016. The manuscript should contain a footnote that indicates how this ancillary material can be obtained. Forms needed to store these data are available from the Editorial Office. Such data should be submitted for review along with the manuscript and will be returned to the author upon acceptance.

Authors should edit their typescripts to eliminate unnecessary words and phrases and to detect typographical errors, inconsistencies in the use of tenses, or misleading, ambiguous phrases. Laboratory slang as well as terminology and abbreviations not consistent with internationally accepted guidelines should be avoided.

The manuscript should be typed on 21.6-x 28-cm (8½-x 11-inch) paper with double spacing throughout, allowing for ample margins. Consecutive numbering of all pages is requested, with the title page as page 1. The typescript should be arranged in the following order: (a) title, (b) author(s) and complete name(s) and location(s) of institution(s) or laboratory(ies), (c) running title, (d) footnotes, (e) text, (f) tables, (g) legends for all illustrations (charts and figures), (h) illustrations, and (i) other subsidiary material. Numbered and lettered sections in the text should be avoided. The appropriate location for each table and illustration should be indicated by marginal notes. Simple chemical formulas or mathematical equations should be presented in a form that allows their reproduction in single horizontal lines of type; more complicated mathematical formulas or chemical structures difficult to set in type should be provided in the form of India ink drawings or glossy photographs for camera-ready reproduction.

Title. Titles should be brief but informative, and limited if possible to about 100 characters. It is important for literature retrieval to include in the title the key words necessary to identify the nature of the subject matter. Use of expressions such as ‘Studies on . . .’ or ‘Observations of . . .’ should be avoided, since they are imprecise and not sufficiently informative. Chemical formulas or abbreviations should not be used. Titles in the form of declarative sentences are not acceptable. Subtitles, whether set off by Roman numerals or punctuation, are not permitted, as these present difficulties for indexers. If the paper is one of a series, a footnote to this effect may be included.

Authors and Their Affiliations. Authors are urged to include their full names, complete with first and middle names or initials. Confusion often arises when authors are identified by surname and initials only. Authors’ academic degrees should not be included. The full names of institutions and subsidiary laboratories should be given, together with a useful address (including postal number). If several authors and institutions are listed on a paper, it should be clearly indicated with which department and institution each author is affiliated.

Running Title. A brief running title should be provided, not to exceed 50 characters.

Footnotes. Lengthy footnotes are discouraged since the same information can in most instances be presented more effectively in the text. Footnotes to the title page and text are to be designated consecutively with superscript Arabic numerals. A footnote to the title should contain information on financial support, including the source(s) and number(s) of the grant(s). Authors should also include a footnote designating to whom reprint requests should be addressed. An all-inclusive abbreviation footnote should contain a definition for every nonstandard abbreviation used in the paper.

For footnotes to tables, see section on Tables below.

Abstract. The Abstract, to appear at the beginning of the paper, should be concise, yet indicative of the content of the paper. As Abstracts are often photocopied directly by the secondary services, they should recapitulate in abbreviated form the purpose of the study and the experimental technique, results, and interpretations of the data. Data such as the number of test subjects and controls, strains of animals or viruses, drug dosages and routes of administration, tumor yields and latent periods, length of observation period, and magnitude of activity should be included. Vague, general statements such as ‘The significance of the results is discussed,’ or ‘Some physical properties were studied,’ are uninformative and not acceptable. Abbreviations should be kept to an absolute minimum; however, if they are needed, they must be properly identified so as to make the Abstract independent of the text.

Introduction. It is not necessary to include all of the background literature in this section. Brief reference to the most pertinent papers generally suffices to acquaint the reader with the findings of others in the field and with the problem or question to which the author's particular investigation is being addressed.

Materials and Methods. Explanation of the experimental methods should be brief but adequate for repetition by qualified investigators. Procedures that have been published previously should not be described in detail but merely cited in appropriate references. Only new and significant modifications of previously published procedures need complete exposition. The sources of special chemicals or preparations used should be given along with their locations [city and state (country if foreign)].

Results. This section should include a concise textual description of the data presented in tables, charts, and figures. Excessive elaboration of data already given in tables and illustrations should be avoided. The Results and Discussion sections may be combined if, by so doing, space is saved or the logical sequence of the material is improved.

Discussion. In this section, the data should be interpreted concisely without repeating material already presented in the Results section. Speculation is permissible, but it must be well founded.

References. Examples of the two most common types of Journal references are:


References should be typed in double-spaced form to ensure accurate copy editing. They must be arranged in alphabetical order and should include all authors’ names (with initials). The bibliography should be limited to only those citations essential to the author’s presentation. When comprehensive review articles are available, they are preferred to many separate references.

Before submission of the paper authors should verify the accuracy of all references and should check that all references have been cited in the text.

Journal articles and serial compendia. The complete title, journal, volume number, inclusive pages, and year should be given. Serial compendia, such as Advances in Cancer Research and the Annual Review of Biochemistry, which appear annually in numbered sequence, should be cited as journals rather than books, thus omitting the names of publishers and editors. Biological Abstracts should be consulted for abbreviations of journals and serials.

Books and chapter citations. Citation of a specific chapter or article in a book should carry the author(s) of the chapter, its title, editor(s) of the book, book title, edition, volume, inclusive pages of the chapter, location and name of the publisher, and year. For references to complete books, give all of the above information that is pertinent.

Papers in press and unpublished material. Papers in press may be listed among the references with the journal name and tentative year of publication. References to papers in preparation or submitted for publication should be cited in a footnote, not in the References section. This rule also applies to unpublished data or personal communications. The names of all authors should be given, along with titles if possible. Material conveyed by “personal communication” may be used only if permission for its publication has been obtained.

Addenda. Data acquired after acceptance of the paper, by the authors themselves or by others, cannot be added to the text. An addendum may be added in proof upon approval by the Editor. Addenda should be kept extremely brief. The full expense of printing an addendum will be charged to the author.

Tables. Tables should be constructed to fit within a single Journal column (6.9 cm or 3½ inches). This format will be enforced with few exceptions because of the Journal’s budgetary constraints. Tabular material should not duplicate data already presented in the charts. Unnecessary columns of data that can easily be derived from the rest of the results in the table should not be included. Large masses of individual values should be avoided; instead, these should be averaged and an appropriate designation of the dispersion such as standard deviation or standard error included.

Authors are obliged to indicate the significance of their observations by appropriate statistical analysis; tables without such information are not acceptable.

Every table must have a descriptive title and an explanatory paragraph that clearly gives the experimental details for understanding by the reader without reference to the text. Each column must carry an appropriate heading and, if numerical measurements are given, these units should be added to the column heading. Tables should be numbered with Arabic numerals and table footnotes should be indicated with superscript italic letters (a, b, c, etc.).

All units of measurement and concentration should be clearly designated. Exponential terminology is discouraged (the term mM is preferable to \(10^{-3}\) M). If exponentials are absolutely unavoidable in column headings, the quantity expressed should be preceded, not followed, by the power of 10 by which its value has been multiplied, i.e., \(10^{-3}\times\) concentration (M). This will prevent confusion as to whether the quantity should be multiplied or divided to obtain the correct value.

Charts. Line-cut illustrations (graphs and drawings) are to be designated charts. Flow diagrams and complex biochemical structures should be professionally prepared (not simply typewritten) and considered charts.

Graphs should be used sparingly and only when a salient point needs illustration. Straight-line functions such as relationships between concentration and absorbance, or Lineweaver-Burk plots when these are linear, should instead be described in a few lines in the text. To conserve space each chart should include those curves that may appropriately appear together.

The use of exponentials for labeling coordinates in charts is considered ambiguous and should, if at all possible, be avoided. If exponentials must be used, the quantity expressed should be preceded by the power of 10 by which its value has been multiplied, i.e., \(10^3\times\) concentration (M). The form “Concentration (M \(\times\) \(10^{-3}\))” is not acceptable. If powers of 10 are used, the legend should designate how the quantity is to be calculated (whether multiplied or divided) to give the correct value.

Preparation of charts. Charts must be drawn with professional instruments and may be on Bristol board, tracing paper or cloth, or coordinate paper printed in light blue. Charts should not be mounted on heavy cardboard. Clear, glossy prints are acceptable in lieu of original drawings, provided that all parts of the chart are in focus. X-ray films or Polaroid photographs are not acceptable. If original drawings are submitted, they should not be larger than 21.6 x 28 cm (8½ x 11 inches).

Except for especially complicated drawings showing large amounts of data, all charts will be reduced to one-column width (6.9 cm or 3½ inches) or less. It is the responsibility of the author to see that the abscissas, ordinates, lines, and especially the symbols are sufficiently large so that when the charts are reduced to the size of a single column, the letters and numbers will be at least 1.5 mm high and the smallest part of the illustration will be discernible. In original charts, this can be accomplished by having the minimum height for lower-case letters 5 mm; numerals and upper-case letters 6 mm; and symbols within the drawings 5 mm. The thickness of ruled lines on charts is also vital for clear presentation of the data. Size recommendations for lines are as follows: #1 Leroy for graph grids, bonds, and arrows; #2 Leroy for graph borders or reference lines; and #5 Leroy for graph curves or emphasis lines.

Points of observation should be denoted with different instructions for authors
Symbols rather than with different types of lines; their significance can be explained directly in the body of the chart or in the legend. Only those common symbols for which the printer has type (\(\times\), \(\bigcirc\), \(\cdot\), \(\square\), \(\blacksquare\), \(\triangle\), \(\Delta\), \(\circ\)) should be used.

Charts should be ruled off on all four sides close to the area occupied by the curve, and abscissas and ordinates should be clearly marked with appropriate units. Explanations of the coordinates should not extend beyond the respective lines. If a chart contains a left- and a right-hand ordinate, explanation of the left ordinate should read in the upward direction and that of the right ordinate should read downward. Titles printed outside the confines of the charts waste space; all of this information can easily be included in the legend.

Each chart should be labeled in pencil on the reverse side with Arabic numerals and the first author’s name.

Figure legends. An appropriate legend for each figure, including stains and magnifications where applicable, is required. Any abbreviations or reference points on a figure should be explained in the legend. All attempts will be made to place legends under the plates to which they refer. To facilitate proper layout, authors may wish to keep their plates to 7\(\frac{1}{4}\) x 8\(\frac{1}{2}\) inches.

Abbreviations

Abbreviations are in general a hindrance to readers in fields other than that of the author(s), to abstractors, and to scientists in foreign countries. Authors should limit their use to an absolute minimum. Short terms need not be abbreviated, e.g., daunomycin, folate, vincristine. Abbreviations are not to be used in titles, but running titles may carry abbreviations for purposes of brevity. Abstracts may contain abbreviations for terms mentioned many times in that section but their identification is mandatory.

Authors should follow the recommendations of the IUPAC-IUB Commission on Biochemical Nomenclature (see section below on Terminology). All nonstandard abbreviations should be identified in an inclusive abbreviation footnote to the first such abbreviation after the Abstract.

Abbreviations that form recognizable words, such as EAT and MOPS are not acceptable.

Standard Abbreviations. Authors may use, without definition, the abbreviations in the following lists.

- NAD\(^+\), NADH: nicotinamide adenine dinucleotide and its reduced form
- NADP\(^+\), NADPH: nicotinamide adenine dinucleotide phosphate and its reduced form
- (DPN\(^+\), TPN\(^+\), and their reduced forms are not acceptable.)
- CoA, acyl-CoA: coenzyme A and its acyl derivatives (e.g., acetyl)
- AMP, GMP, IMP, UMP, CMP, TMP: the 5'-phosphates of ribosyladenine, guanine, inosine, uracil, cytosine, and thymine
- ATP, etc.: the 5'(pyro)diphosphates of adenosine, etc.
- ATP, etc.: the 5'(pyro)triphosphates of adenosine, etc.
- dAMP, dGMP, dIMP: the 5'-phosphates of 2'-deoxyribosyladenine, etc.
- RNA, DNA: ribonucleic acid, deoxyribonucleic acid
- RNase, DNase: ribonuclease, deoxyribonuclease
- mRNA: messenger RNA
- rRNA: nuclear RNA
- tRNA: ribosomal RNA
- P\(_1\), P\(_1\): orthophosphate, pyrophosphate
Tris
EDTA
POPOP
DEAE, TEAE
UV, IR
RBC, WBC

tris(hydroxymethyl)aminomethane
ethylenediaminetetraacetate
1,4-bis[2-(5-phenyloxazolyl)]benzene
2,5-diphenyloxazole
diethylaminoethyl, triethylaminoethyl
ultraviolet light, infrared
red blood cell(s), white blood cell(s)

Other Standard Abbreviations

Units of Concentration
molar (moles/liter) M (not used for moles)
millimolar (millimoles/liter) mm (preferred to 10⁻³ M)
micromolar (micromoles/liter) μM (preferred to 10⁻⁶ M)
nanomolar nm (not μM)
picomolar pm (not μM)
The expression mg % should be avoided; weight concentrations should be given as g per ml, g per 100 ml, g per liter, etc.

Units of Length, Area, Volume, Mass, Time

The abbreviations below are correct for both singular and plural forms of each term.

meter m
centimeter cm
square centimeter sq cm
millimeter mm
micrometer (not micron) μm (not μ)
nanometer (not millimicron) nm (not μm)
picometer (not micromicron) pm (not μm)
Angstrom (0.1 nm) Å

liter not abbreviated
milliliter ml (use instead of cc or cm³)
microliter μl (not l)
gram g
milligram mg
microgram μg (not γ)
kilogram kg
hour hr
minute min
second sec

Physical and Chemical Units

retardation factor Rf
acceleration of gravity g
sedimentation coefficient s
sedimentation coefficient in water at 20° S20,w
degree Celsius (Centigrade) ° (not °C)
degree Kelvin °K
diffusion coefficient D
equilibrium constant K
inhibition constant Ki
Michaelis constant Km
maximum velocity Vmax

Others
mole mol
Curie Ci
equivalent eq
counts per minute cpm
disintegrations per minute dpm
revolutions per minute rpm
volt V
Svedberg unit S
absorbance A (not O.D.)
probability p
roentgen R
standard deviation S.D.
standard error of the mean S.E.
logarithm (Briggsian) log
logarithm (natural) ln
entropy S

in chemical compounds
ortho o
meta m
para p
secondary sec
tertiary tert
	routes of administration
intramuscular i.m.
intraperitoneal i.p.
intravenous i.v.
oral p.o.
subcutaneous s.c.

Terminology

Approved terms and abbreviations for chemical substances have been published in Biochemical Nomenclature and Related Documents, International Union of Biochemistry, Third Edition, 1978. This volume is available for $7.00 (to accompany order) from: Biochemical Society Depot, P. O. Box 32, Commerce Way, Cochester, Essex, Great Britain CO2-8HP. Included are all recommendations issued by the IUPAC-IUB Commission on Biochemical Nomenclature in the following areas: general abbreviations and symbols; abbreviations and symbols for chemical names of special interest in biological chemistry; stereochemistry; natural products and related compounds; isotopically labelled and modified compounds; biochemical equilibrium data; α-amino acids; symbols for amino-acid derivatives and peptides; synthetic modifications of natural peptides; synthetic polypeptides or polymerized amino acids; amino-acid sequences; conformation of polypeptide chains; peptide hormones; human immunoglobulins, multiple forms of enzymes; nucleic acids, polynucleotides, and their constituents; lipids; steroids, quinones with isoprenoid side chains; carotenoids; tocopherols and related compounds; carbohydrates; cyclitols; phosphorus-containing compounds of importance in biochemistry; folic acids and related compounds; vitamins B-6 and related compounds; corrinoids.
Isotopically Labeled Compounds. A radioactive nuclide is indicated by its mass number as a superscript to the left of the symbol \( ^{32}\text{P} \); when written out, it should correspond to the spoken word (phosphorus-32).

In an isotopically labeled compound, the isotopic prefix should be placed in square brackets and immediately precede the name (word) to which it refers, as in \([^{14}\text{C}]\)thymidine, \([\alpha-^{14}\text{C}]\)leucine, \(\text{L-[^{14}\text{C}]methyl-^{14}\text{C}}\)methionine, \(\text{[H]}^{3}\)hydroxykynurenine. When more than one position in a substance is labeled by means of the same isotope and the positions are not indicated, the number of labeled atoms is added as a subscript to the right of the element, as in \([^{14}\text{C}]\)glycolic acid. The symbol \(U\) indicates uniform labeling and \(G\), general labeling, e.g., \([U-^{14}\text{C}]\)glucose (where the \(^{14}\text{C}\) is uniformly distributed among all six positions) and \([G-^{14}\text{C}]\)glucose (where the \(^{14}\text{C}\) is distributed among all six positions, but not necessarily uniformly).

The isotopic prefix precedes that part of the name to which it refers, as in sodium \([^{14}\text{C}]\)formate, iodol\([^{14}\text{C}]\)acetate, \(1\)-aminol\([^{14}\text{C}]\)phenylalanine, \(\alpha\)-naphtyl\([^{14}\text{C}]\)nicotinic acid, \(2\)-acetamido-\([^{14}\text{C}]\)labeled glucose, \(\text{fructose} \, 1,6\)-\([^{14}\text{C}]\)bisphosphatase, \(17\)-\(\beta\)-\(^{14}\text{C}\)estradiol. Terms such as \(\text{[H]^{13}	ext{I]-labeled albumin}\) should not be contracted to \(\text{[H]^{13}	ext{I]alburnin}}\) (since native albumin does not contain iodine), and \(\text{[^{14}\text{C}]-labeled amino acids}\) should similarly not be written as \(\text{[^{14}\text{C}]-amino acids}\) (since there is no carbon in the amino group).

When isotopes of more than one element are introduced, their symbols should be arranged in alphabetical order, e.g., \([3-^{14}\text{C}]\)valine, \(2,3\)-\(D\)-\(^{14}\text{N}\)serine. Deuterium and tritium may be designated as \(^{2}\text{H}\) or \(^{3}\text{H}\) or as \(D\) and \(T\), respectively.

When not sufficiently distinguished by the foregoing means, the positions of isotopic labeling are indicated by Arabic numerals, Greek letters, or prefixes in italics, as appropriate; these are to be placed within square brackets to appear before the symbol of the element concerned and are attached to it by a hyphen. Examples of this style are \([1-^{14}\text{C}]\)alanine, \(\text{L-[^{14}\text{C}]leucine or L-[^{14}\text{C}]leucine, [carboxy-}^{14}\text{C}]\)leucine, \(\text{[2,3-}^{14}\text{C}]\)maleic anhydride, \(\text{[3,4-}^{14}\text{C}, \text{35S}]\)methionine, \(\text{L-[^{14}\text{C}]methyl-}^{14}\text{C}]\)methionine. The symbol indicating configuration always precedes the bracketed isotope, and a hyphen is used to separate if from the brackets, e.g., \(D-[^{14}\text{C}]\)glucose; \(\text{L-[^{14}\text{C}]leucine}.

The same rules apply when the labeled compound is designated by a standard abbreviation or symbol other than the atomic symbol, e.g., \([\alpha-^{32}\text{P}]\)ATP, \([^{32}\text{P}]\)CMP, or \(\text{[}^{32}\text{P]}\)dUrd. The square brackets are not to be used, however, with atomic symbols, or when the isotopic symbol is attached to a word that is not a specific chemical name, abbreviation, or symbol. Proper usage here is: \(^{14}\text{C}\)CO\(_{2}\), \(\text{H}_{2}\)O, \(\text{H}_{2}\)SO\(_{4}\), \(\text{^{32}P}\), \(\text{[}^{14}\text{I]-labeled}\), \(\text{H}-\text{ligands, [}^{14}\text{C]-steroids.}\)

Enzymes. Authors should use the Recommended (trivial) Name given by the IUB Commission on Enzyme Nomenclature Recommendations (1972) of the International Union of Pure and Applied Chemistry and the International Union of Biochemistry (Elsevier Publishing Company, Amsterdam, 1973), and Supplement 1: corrections and additions, 1975, which may be found in Biochem. Biophys. Acta, 429: 1-45, 1976. A new edition is in preparation and will be available from Academic Press, Inc., New York, N. Y. In some cases the Systematic Name or the reaction catalyzed should also be included. It is strongly recommended that the Enzyme Commission number be stated at first mention.

For information on isotope nomenclature, consult Biochemical Nomenclature and Related Documents (page 113), mentioned previously or J. Biol. Chem., 252: 5939-5941, 1977.

Histones. Histone nomenclature should conform to the following system proposed at a Ciba conference held on April 4-5, 1974, in London: the six histone fractions are to be labeled H1, H2A, H2B, H3, and H4, rather than F1, F1", F2a2, F2b, F3, and F2a1, respectively.


Drugs. Generic names of drugs are preferred; a proprietary name may be used only after the first mention of the generic name and should be avoided in titles unless both names can easily be listed. If a foreign proprietary name is used, the name of the comparable U. S. product should be given. When there is no generic name for a drug, authors should give the chemical name or formula or a description of the active ingredients.

Authors should refer to the formally adopted generic names listed in AMA Drug Evaluations (Second Edition, 1973), The United States Pharmacopoeia (USP, Nineteenth Revision, 1975), National Formulary (NF, Fourteenth Edition, 1975), 1st Supplement of USP XIX and NF XIV (1975), and USAN and the USP Dictionary of Drug Names (1975). In addition, the Council on Drugs reports in The Journal (New Names) drug names adopted by the USAN (United States Adopted Names) Council. These monographs include both the generic and proprietary names for the newest drugs, usually prior to their publication elsewhere.

Tumors. Tumors used in experimental investigations should be clearly described and identified in acceptable terminology. If these tumors are well known and have been identified in previous publications, extended descriptions and photomicrographs are unnecessary.

General. The composition of all solutions and buffers should be specified in sufficient detail so that the concentration of each component can be determined. The word "saline" should be replaced by "NaCl solution," along with the exact concentration. Inexact terms such as "physiological saline" or "phosphate-buffered saline" are not permitted; exact contents and concentrations should be given.

Decimals are preferred to fractions; the form 0.01, not .01, is required in text, tables, and charts.

Ionic charge should be designated by a superscript immediately following the chemical symbol, e.g., \(\text{Mg}^{2+}, \text{S}^{-}\).

Advice on biochemical nomenclature is readily available from Dr. Waldo E. Cohn, Director, Office of Biochemical
Nomenclature, Biology Division, Oak Ridge National Laboratory, Box Y, Oak Ridge, Tennessee 37380.

Alterations in Proof

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American Cancer Society
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