ISSN 0021-924X

VOLUME 130 NO.1 JULY 2001

THE JOURNAL OF BIOCHEMISTRY

BIOCHEMISTRY MOLECULAR BIOLOGY CELL BIOTECHNOLOGY

JB Review

Regulatory Mechanisms of ASK1-Mediated Apoptosis Atsushi Matsuzawa and Hidenori Ichijo

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IV. ORGANIZATION OF MANUSCRIPT

A desirable plan for the organization of a Regular Paper is as follows: (a) SUMMARY, (b) INTRODUCTION with no heading, (c) EXPERIMENTAL PROCEDURES or MATERIALS AND METHODS, (d) RESULTS, (e) DISCUSSION, (f) REFERENCES. In some cases, presentation will be clearer and more effective if the author combines some of these section. For a Rapid Communication, a brief summary is requested, but headings and subheadings should be omitted.

1. Title Page(s)

- Provide a title page(s), containing the following items.
- The form of the paper (Regular Paper or Rapid Communication). The field and its topic under which the paper is to be reviewed.
- (2) Title. The title should be informative and as short as is consistent with clarity. The title should not include chemical formulae or arbitrary abbreviations, but chemical symbols may be used to indicate the structures of isotopically labeled compounds. The numbering of parts in a series of papers is not permitted, but titles and subtitles may be used if necessary.
- (3) By-line. List full names of all authors. A footnote reference(s) to an author(s), indicating a change of address, should be given on the title-page.
- (4) From-line. List the institution(s) in which the work was carried out, and the Zip Code, if available.
- (5) Running title. Provide a short running title of less than 60 strokes. It should be as informative as possible.
- (6) The name, complete mailing address, telephone number, and (if accessible) Fax number and E mail address of the person to whom correspondence should be sent. To expedite the review, much of the journal's correspondence will be by Fax, unless the authors request use of regular mail when submitting the manuscript. The Japanese author(s) must also list in Japanese the name and address of the person who is in charge of proofreading.
- (7) Abbreviations. Non-standard abbreviations (see Section IX-6, 7, and 8) should be defined, even if they are known to

those familiar with the field. List all non-standard abbreviations used in the paper in alphabetical order in a footnote on the title page.

2. Summary

(1) Every paper should have summary. The summary should be concisely written in less than 200 words. Summaries of Rapid Communications should be limited to 100 words. The summary should briefly present the problem, suggest the scope of the work and the plan of experiments, mention significant data and state major findings and conclusions. Avoid statements such as "The significance of these results is discussed" that do not help the reader. The summary should be intelligible to the nonspecialist as well as the specialist in your field, and hence should avoid specialized terms and abbreviations.

 (2) Key words. Provide five key words identifying the nature of the subject matter alphabetically in the last part of the summary.
 3. Introduction

The text of a **Regular Paper** should begin with a short introduction with no heading. This should state the reasons for performing the work, with brief reference to previous work on the subject. Avoid giving an extensive review of the literature.

4. Methods, Results, and Discussion

The arrangement of the paper after the introduction is not fixed. The author may separate sections with italicized subheadings.

The Experimental Procedures or Materials and Methods should give sufficient details to enable the reader to repeat your work exactly, if necessary. The necessity for conciseness should not lead to omission of important experimental details. Refer to previously published procedures employed by citation of both the original description and pertinent published modifications, and do not include extensive description unless they present substantially new modifications. Combination of the Results and Discussion in a single section sometimes gives a clearer and more compact presentation.

5. References

References cited in the text should be numbered in parentheses with italicized Arabic numerals in order of appearance. References to "unpublished experiments" and "personal communications" should appear parenthetically in the text following the name(s) of the source of information [(Yamada, T., personal communication), (Suzuki, M. and Yoshida, M., unpublished observations) *etc.*]. Be sure to verify the wording of any personal communication with the person who supplied the information and get his approval for the use of his name in connection with the quoted information. All references should be listed in numerical order typed double-spaced on a separate sheet under the heading REFERENCES. Please note the following examples.

- (1) For a journal article:
 - Sanger, F., Nicklen, S., and Coulson, A.R. (1977) DNA sequencing with chain-terminating inhibitors. Proc. Natl. Acad. Sci. USA 74, 5463-5467
- (2) For a chapter in an edited book:
- Messing, J. (1983) New M13 vectors for cloning in *Methods* in *Enzymology* (Wu, R., Grossman, L., and Moldave, K., eds.) Vol. 101, pp. 20-51, Academic Press, New York
- (3) For a book by one or more authors:
 - Sambrook, J., Fritsch, E.F., and Maniatis, T. (1989) Molecular Cloning. A Laboratory Manual pp. 1339-1341, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY

Text citations to references written by more than two authors should be styled for example as, Smith *et al.* In the reference list, however, the names of all authors (with initials) must be given. If an article has been accepted for publication by a journal but has not yet appeared in print, the reference should be styled as follows:

 Tanahashi, H. and Ito, T. (1994) Molecular characterization of a novel factor recognizing the interleukin-6 responsive element. J. Biochem. (in press)

The use of "in preparation" and "submitted for publication" is not allowed in the reference list.

Citation of the references written in a language which is usually unreadable for general readers and those published in a journal (or book) to which general reader could not easily access should be avoided.

6. Nucleotide Sequence

Upon acceptance of a paper containing new nucleotide sequence data, a DNA Data Bank of Japan (DDBJ) data submission form will accompany notification of acceptance of manuscript. The Editorial Board strongly urge the deposit of nucleotide sequence data in one of the data banks, DDBJ, GenBankTM, or EMBL. Submission to one of these is sufficient because data are exchanged between these three banks. If the data are already deposited, indicate the accession number in the title page footnote.

7. Electronic manuscripts

Electronic manuscripts reduce the possibility of introducing errors and resulted in rapid delivery of proofs. After acceptance, authors are encouraged to send the disk plus one printed manuscript to the Editorial Office of the Journal.

V. PREPARATION OF TABLES

- 1. Tables should be drawn on separate sheets and numbered consecutively in Roman numerals. For aid in designing tables in acceptable style, refer to current issues of the Journal.
- 2. Each table should have an explanatory title and sufficient experimental detail, usually in a paragraph immediately following the title, to be intelligible without reference to the text (unless the procedure is given in the Experimental Procedures section, or under another table or figure).
- 3. Indicate units of measure clearly.
- 4. Footnotes to tables should be kept to a minimum and should be indicated by superscript lower cases, at the bottom of the table.

VI. PREPARATION OF ILLUSTRATIONS

- 1. Each figure (Scheme, Diagram) should be given on a separate sheet numbered with an Arabic numeral (Fig. 1, Fig. 2, *etc.*). Figures will be reduced to fit into the type area of the printed page $(17.5 \times 23.5 \text{ cm})$.
- 2. Identify all figures in the margin or on the back, with the author's name and figure number and indicate TOP.
- 3. Each figure should be accompanied by a title and an explanatory legend (Legends to Figures). There should be sufficient experimental detail in the legend to make the figure intelligible without reference to the text (unless the same material has been given with a previous figure, or in the Experimental Procedures section).
- 4. Legends to Figures should be typed double-spaced, in numerical order, on a separate page.
- 5. Photographs should be glossy and as high in contrast as possible. Quadruplicate copies for referees should be of the same quality as the original.
- 6. Indicate the magnification of photomicrographs in the legend or include a bar indicating the scale in the figure.
- 7. Flow diagrams and amino acid or nucleotide sequences should always be presented as direct photographic reproduction.

VII. CHEMICAL AND MATHEMATICAL FORMULAE

- 1. Refer in the text to simple chemical compounds by their formulae when these can be printed in simple horizontal lines of type. Do not use structural formulae in the running text.
- 2. Ionic charge should be shown as a superscript following the chemical symbol, e.g. Fe^{2+} , SO_4^{2-} .
- 3. Prepare large structural formulae and long mathematical equations in a form suitable for direct photographic reproduction and include them as a Diagram at the end of the paper.
- 4. Isotopically Labeled Compounds—The symbol for an isotope is shown in square brackets directly before the name (word), as in [1⁴C]urea, [α ·1⁴C]leucine, DL-[methyl-1⁴C]methionine. When more than one position in a substance is labeled with the same isotope and the positions are not indicated, the number of labeled atoms should be indicated as a right-hand subscript; as in [1⁴C₁]glycolic acid. The symbol U indicates uniform, e.g. [U-1⁴C]glucose (where the 1⁴C is uniformly distributed among all six positions). The isotopic prefix precedes that part of the name to which it refers, as in sodium [1⁴C]formate, thiamine [β ·1²P]diphosphate. Terms such as ¹³¹I-labeled albumin should not be contracted to [1³¹I]albumin. When isotopes of more than one element are introduced, their symbols should be arranged in alphabetical order: e.g. L-[3·1⁴C, 2,3·2⁴H, 1⁶N]serine. The symbols ²H and ³H or D and T may be used for deuterium and

tritium, respectively.

For simple molecules, the labeling is indicated by writing the chemical formulae with the prefix superscripts attached to the correct atomic symbols in the formulae: e.g. $^{14}CO_2$, $H_2 ^{16}O$, $^{2}H_2 O$. Square brackets should not be used for them, or when the isotopic symbol is attached to a word that is not a specific chemical name, abbreviation or symbol: e.g. 131 I-labeled, ^{14}C -sugar, ^{14}C -steroids, $^{32}PO_4^{3-}$, but $[^{32}P]$ phosphate.

5. Spectrophotometric Data—Beer's law may be stated as $A = -\log T = \epsilon lc$

Where A is the absorbance; T, the transmittance $(=I/I_0)$; ε , the molar absorption coefficient; c, the concentration of the absorbing substances in moles per liter; and l, the length of the optical path in centimeters. Under these conditions ε has the dimensions liter \cdot mol⁻¹ \cdot cm⁻¹ or more briefly M⁻¹ \cdot cm⁻¹ (not cm² \cdot mol⁻¹). Do not use "O.D." and "E."

VIII. ETHICS

In scientific investigations involving human subjects, experiments should be performed in accordance with the ethical standards formulated in the Helsinki Declaration of 1964 (revised in 1989, cf. http://helix.nih.gov:8001/ohsr/helsinki.phtml). Similarly, animal experiments should follow the ethical standards formulated in the Helsinki Declaration, and measures taken to protect animals from pain or discomfort should be mentioned.

IX. TERMINOLOGY AND ABBREVIATIONS

- 1. Abbreviations with specific meanings may be used for convenience for complex chemical substances, particularly in equations, tables, or figures. Avoid using abbreviations in titles and summaries except the standard ones listed in Table II of Section IX-8.
- 2. Use abbreviations and symbols sparingly in the text. In chemical equations, which traditionally depend upon symbols, an abbreviation or symbol may be used for a term that appears in full in the neighboring text. Trivial names are usually sufficiently short not to require abbreviations.
- 3. An abbreviated name or symbol in a column heading in a table, figure, or photograph must either be taken from the "accepted" list given in Section IX-8 or formulated in accordance with the principles of Section IX-6.
- 4. For spelling of chemical names consult current issues of the Journal. For chemical terms follow essentially the usages and rules recommended by International Scientific Union, especially Nomenclature Committee of IUBMB (NC-IUBMB, IUBMB: International Union of Biochemistry and Molecular Biology) and IUPAC-IUBMB Joint Commission on Biochemical Nomenclature (JCBN, IUPAC: International Union of Pure and Applied Chemistry): see the recommendations in Biochemical Nomenclature and Related Documents (1978), available from The Biochemical Society, 7 Warwick Court, London WC1R 5DP, U. K. and in Biochemical Nomenclature and Related Documents A Compendium, 2nd edn (Liébecq, C., ed.), Portland Press Ltd, London (1992). (see Eur. J. Biochem. 213, 1-3 (1993)).
- Refer also to http://www.chem.qmw.ac.uk/iupac/jcbn/
- 5. Enzymes—Where one or more enzymes figure prominently in a manuscript, authors should use the recommended (trivial) name or systematic name given by Nomenclature Committee of IUBMB and IUPAC-IUBMB Commission on Biochemical Nomenclature: see

Enzyme Nomenclature, Recommendations (1992), Academic Press, Inc.,

- see also Eur. J. Biochem. 213, 1-3 (1993).
- -Supplement Eur. J. Biochem. 223, 1-5 (1994).
- -Supplement 2 Eur. J. Biochem. 232, 1-6 (1995).
- -Supplement 3 Eur. J. Biochem. 237, 1-5 (1996).

-Supplement 4 Eur. J. Biochem. 250, 1-6 (1997).

- When an enzyme is the main subject of a paper, its source, trivial name, systematic name (or the reaction that it catalyzes) and code number (preceded by "EC") should be included.
- 6. Non-Standard Abbreviations—Use of abbreviations other than the standard ones listed in IX-7 and IX-8 should be kept to a minimum. Such abbreviations should be introduced only when absolutely necessary, as in tables, figures, and other illustrations where space is particularly limited. Abbreviations

are usually not needed in the text of a paper where repeated use of long names can be avoided by judicious use of pronouns, or by paraphrasing with words such as "the substrate," "the inhibitor," "the methyl derivative," *etc.* All non-standard abbreviations used in the text should be defined in alphabetical order in a single footnote on the title page.

7. Abbreviations of Units of Measurement and Physical and Chemical Quantities—These abbreviations listed in Table I may be used without definition.

TABLE I

(1)	Profixon t	to the r	amon of unit			
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	mega	104	м	nano	10-9	'n
	hile	103).]_	mano	10-17	
	KIIO	10	ĸ	pico	10 **	р
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	centi	10-2	c ¹⁾	atto	10^{-18}	a
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		(mores/				
	millimo	olar (m	illimoles/litei	:) ma	1 (not 10 ⁻	°M)
	microm	ıolar (n	nicromoles/lit	er) μM	l (or 10 ⁻⁶	M)
	nanomo	olar (na	nomoles/liter) nM	$(0T \times 10^{-1})$	• M)
	nicomo	lar (nia	omoles/liter)	, pM	$(ar \times 10^{-1})$	-12 M)
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(3)	Units of	Length				
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	millime	eter		mn	n	
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	nanome	ever	,	nm	(not $m\mu$)	
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(7)	nour minute second Units of becques courts curie(s) disintes Other Un mole degree degree joule kilocalo parts p cycles p equival ampere ohm volt gauss pascal	Radioac rel per min grations its Celsius absolut er billi er milli per secc ent	n min s etivity nute s per minute e (kelvin) on on on on (hertz)	year month week day Bq d cpn Ci dpr Ci dpr Mo K J kJ cal kJ cal kza pph ppn Hz eq A (Ω V C Pa	yr mo wk d (=1 dps (pm) n (=3.7×10 n l (mmol,) mol, pmo l (not cps) mA)	or 60 01° Bq) umol, 1)
(7)	nour minute second Units of becquer counts curie(s) disinteg disinteg disinteg disinteg degree degree joule kilocalorie kilocalorie kilocalorie kilocalorie parts p parts p cycles r equival ampere ohm volt gauss pascal revoluti	Radioac rel per min grations its Celsius absolut e billi er billi er milli per secc ent	n min 8 etivity nute 9 per minute 6 (kelvin) on on on (hertz)	year month week day Bq d cpn Ci dpr Ci dpr Ci dpr Ci kJ kJ cal kZ cal kZ cal kZ cal kZ cal kZ cal kZ cal kZ cal car Ci Ci dr Ci Ci car Ci Ci Ci car Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci Ci	y mo wk d (=1 dps (pm) a (=3.7×10 n l (mmol,) mol, pmo l (not cps) mA)	or 60 0 ¹⁰ Bq) αmol, 1)
(7)	niour minute second Units of becquer counts curie(s) disintes Other Un mole degree degree joule kilocalo parts p cycles p equival ampere ohm volt gauss pascal revolut Syedbo	Radioac rel per min grations its Celsius absolut e billid er millio per seco ent	n min 8 etivity nute 9 per minute 6 e (kelvin) on ond (hertz) r minute	year month week day Bq d cpn Ci dpr Ci dpr Ci dpr Ci kJ kJ kJ cal kCa kJ kJ cal kCa ppt ppt ppt ppt ppt ppt ppt ppt ppt pp	y mo wk d (=1 dps (pm) n (=3.7×10 n l (mmol,) mol, pmo l (not cps) mA)	or 60)'° Βq) αmol, l)
(7)	noun minute second Units of J becquer counts curie(s) disinteg Other Un mole degree degree joule kilojoul calorie kilocalo parts p parts p cycles r equival ampere ohm volt gauss pascal revoluti	Radioac rel grations its Celsius absolut e rrie er millio per secc ent ions per rg unit	n min s etivity nute s per minute s (kelvin) on ond (hertz) r minute of sedimente of sedimente	year month week day Bq d cpn Ci dpr mo °C K J kJ kJ cal kca kJ kJ cal kca ppt ppr Hz eq A (Ω V G Pa rpn	yr mo wk d (=1 dps (pm) n (=3.7×10 n l (mmol,) mol, pmo l 0 n (not cps) mA)	or 60 D ¹⁰ Bq) αmol, l)
(7)	nour minute second Units of becquer counts curie(s) disinter Other Un mole degree degree joule kilojoul calorie kilocalo parts p cycles r equival ampere ohm volt gauss pascal revolut Svedbe	Radioac rel grations its Celsius absolut e orie er billid er milli per secc ent ions per rg unit cient (n min s etivity nute s per minute e (kelvin) e (kelvin) on ond (hertz) r minute of sedimenta $(0^{-13} s)$	year month week day Bq d cpn Ci dpr Ci dpr mo Ci kJ kJ cal kJ cal kza ppt ppt Hz eq A (0 0 V G Pa rpn tion S	yr mo wk d (=1 dps (pm) n (=3.7×10 n l (mmol,) mol, pmo l (not cps) mA)	or 60 01° Bq) umol, 1)
(7)	noun minute second Units of becquer counts curie(s) disinteg disinteg disinteg disinteg degree degree joule kilocalorie kilocalorie kilocalorie kilocalorie kilocalorie parts p parts p cycles r equival ampere ohm volt gauss pascal revolut: Svedbe coeffi	Radioac rel per min grations its Celsius absolut e billic er billic er milli per secc ent ions pe rg unit cient (1	n min s etivity nute s per minute s per minute (kelvin) on on on (hertz) r minute of sedimenta 0 ⁻¹³ s) emical Quanti	year month week day Bq d cpn Ci dpr Ci dpr mo °C K J kJ cal kJ cal kJ cal kZ pph Hz eq A (0 0 V G Pa rpn tion S ities	y mo wk d (= 1 dps (pm) a (= 3.7 × 10 n l (mmol,) mol, pmo l (not cps) mA)	or 60 0 ¹⁰ Bq) μmol, 1)

equilibrium const	ant	K
rate constant		k
maximum velocit	y	Vmax
Michaelis constan	ıt	Km
equilibrium disso	ciation con-	
stant		Kd
isoelectric point		рI
molecular weight	3)	M _r
retardation factor	•	R _f
acceleration of gr	avity	g
specific rotation		$[\alpha]_{\lambda}^{t}$
partial specific vo	olume	Ũ
diffusion constant	;	D
sedimentation co	efficient	8
density		ρ
sedimentation	coefficient in	
water		
at 20°C, extrap	orated to zero	
concentration		820.w
Gibbs energy cha	nge	⊿Ġ
entropy change	-	ΔS
enthalpy change		ΔH
melting temperat	ure	$T_{\rm m}$
(10) Other Terms		
logarithm		log
logarithm (natura	al)	ln
standard deviatio	n of a series	SD
standard error of	mean of series	SE

¹⁾ to be avoided where possible (except for cm). ²⁾ Terms such as milligram percent (mg%) should not be used. Weight concentrations should be given as g/ml, g/100 ml, etc. ³⁾ Molecular weight is dimensionless. Only molecular mass is expressed by daltons.

8. Accepted Abbreviations and Symbols—Authors may use, without definition, the abbreviations given in Table II and the symbols and abbreviations for amino acid or nucleotide residues in polymers or sequences. Define other abbreviations in a single footnote on the title page.

TABLE II

(1) General	
Adenosine 3':5'-cyclic monophosphate	cAMP
Adenosine 5'-mono-, di, and triphos- phates"	AMP, ADP, and ATP
Adenosine triphosphatase	ATPase
Base pair(s)	bp
Bovine serum albumin	BSA
O-(Carboxymethyl)	CM-
Circular dichroism	CD
Coenzyme A and its acyl derivatives	CoA (or CoASH) and acyl-CoA
Complementary DNA	cDNA
Cyclic AMP	cAMP
Cyclic GMP	cGMP
Cytidine diphosphate choline, etc.	CDP-choline, etc.
Cytidine 5'-mono-, di-, and triphos-	CMP, CDP, and
phates	CTP
Deoxyribonuclease	DNase
Deoxyribonucleic acid	DNA
O-(Diethylaminoethyl)	DEAE-
Dithiothreitol	DTT
Electron paramagnetic resonance	EPR
Electron spin resonance	ESR
Ethylenediaminetetraacetic acid	EDTA
[Ethylenebis(oxyethlenenitrilo)]- tetraacetic acid	EGTA
Flavin-adenine dinucleotide and its	
fully reduced form	FAD and FADH,
Flavin mononucleotide and its fully	
reduced form	FMN and FMNH,
Fourier transform	FT
Gas chromatography-mass spectrom-	
etry	GC-MS

Gas liquid chromatography Glutathione and its oxidized form	GLC GSH and GSSG
Guanosine 3':5'-cyclic monophosphate	cGMP
Guanosine 5'-mono-, di-, and triphos- phates	GMP, GDP, and GTP
Guanosine triphosphatase	GTPase
Hemoglobin	НЪ
Heterogenous nuclear RNA	hnRNA
High performance (pressure) liquid	
chromatography	HPLC
4.(2-Hydroxyethyl)-1-piperazineethane-	
sulfonic acid	HEPES
Immunoglobulin	Ig (IgG, IgM, etc.)
Intrared	ш
Inorganic orthophosphate	P ₁
Inorganic pyrophosphate	TTI IMP INP and ITP
nhates	
Kilohases	kh
Kilohase pairs	khp
Lethal dose, 50%	LDM
Messenger RNA	mRNA
Nicotinamide adenine dinucleotide and	
its reduced form	NAD ⁺ and NADH ²)
Nicotinamide adenine dinucleotide	NADP ⁺ and
phosphate and its reduced form	NADPH ²⁾
Nuclear magnetic resonance	NMR
Nuclear RNA	nRNA
Optical rotatory dispersion	ORD
Phosphoric acid residue	P- or -P
Pseudouridine and pseudouridine	
mono-	
nucleotide Polycomylamida gal alastranhanasia	ψ and ψ MP
Poly(adopulia agid) polyadopulato ³	PAGE Dolu(A) ³
Polymersse chain reaction	POIV(A)
Restriction fragment length polymor.	RELP
phism	
Ribonuclease	RNase
Ribonucleic acid	RNA
Ribosomal RNA	rRNA
Ribosylthymine 5'-mono-, di-, and tri-	TMP, TDP, and
phosphates	TTP
Sodium dodecyl sulfate	SDS
Thin layer chromatography	TLC
Thymidine (2' deoxyribosylthymine)	dTMP, dTDP, and
5'-mono-, di-, and triphosphates	dTTP"
Transfer RNA	tRNA
Tris(hydroxymethyl)aminomethane	Tris
Utraviolet	UV UDP aluceso ata
Uridine 5' mono, di, and triphos.	UMP IDP and
nhates	
(2) Amino acida	011
Alanine	Ala (A)
Arginine	Arg (R)
Asparagine	Asn (N)
Aspartic acid	Asp (D)
Aspartic acid or asparagine	Asx (B)
Cysteine	Cys (C)
Glutamic acid	Glu (E)
Glutamine	Gln (Q)
Glutamic acid or glutamine	Gix (Z)
	Gly (G)
nisuaine Isolougino	H18 (H)
Leucine	Ine (I)
Lugine	Lucu (L)
Methionine	Met (M)
Phenylalanine	Phe (F)

Proline Serine Threonine Tryptophan Tyrosine Valine (2) Nuclein paids	Pro Ser Thr Trp Tyr Val	(P) (S) (T) (W) (Y) (V)
Adenosine		Δ
Bromouridine	BrUrd o	r B
Cytidine	2.0.0 0	Č
Dihydrouridine		D or hU
Guanosine		G
Inosine		Ι
6-Mercaptopurine ribonucleoside		M or sI
(6-thioinosine)		
'a nucleoside'	Nuc or	N
Pseudouridine		∳ or Qª
'a purine nucleoside'		R
'a pyrimidine nucleoside'		Y
Thiouridine		S or sU
Thymidine (2'-deoxyribosylthymine)		ЪЪ
Uridine		U
Xanthosine		Х
Phosphoric residue	-P or	р

¹⁾The various isomers of adenosine monophosphate may be written 2'-AMP, 3'-AMP, or 5'-AMP (in case of possible ambiguity). A similar procedure may be applied to other nucleoside or deoxyribonucleoside monophosphates.

²⁾ NAD(P)⁺ and NAD(P)H indicate either NAD⁺ or NADP⁺ and either NADH or NADPH, respectively.

³⁾ Similarly abbreviate oligo- and polynucleotides composed of repeating sequences or of unknown sequence of given purine or pyrimidine bases, *e.g.* oligothymidylate, oligo(dT); alternating copolymer of A and U, poly(A-U); random copolymer of A and U, poly(A,U).

⁴⁾ The d prefix may be used to represent the corresponding deoxyribonucleoside phosphates, *e.g.* dADP.

- 9. Names of Animals, Plants, and Microorganisms—The scientific names are Latin binomials and should be given in full in the title and summary and on first mention in the text (*e.g. Escherichia coli*). Subsequently, the generic name may be contracted (usually to the first letter), *e.g., E. coli*. The strain of laboratory animals and if possible the source should be stated.
- 10. The cytochromes should be designated by a small italicized letter, e.g. cytochrome a, b_2 , c_1 , etc.

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