

The following abbreviations may be used without spelling out:

- General note: Enzyme abbreviations are okay without definition when used in a cell line name, i.e., "CHO(DHFR⁻) cell line," or in the name of a plasmid vector, etc., i.e., "pSV-DHFR."
- Any units of measure in the following list are okay to abbreviate when preceded by a numeral. If used without a numeral they should be spelled out, e.g., "Several base pairs were removed . . ." (not "Several bp were removed . . .").

A	absorbance
A	adenosine
Å	angstrom
aa	amino acid (as a unit of length/size for proteins, not to be used in a sentence)
ABC	ATP-binding cassette, e.g., ABC transporter
ABO	a blood group
Ac	acetyl
acetyl-CoA	acetyl coenzyme A
AdoMet	S-adenosylmethionine or S-adenosyl-L-methionine (see SAM)
ADP	adenosine diphosphate (same for C, G, I, T, U bases, i.e., CDP, GDP...)
AIDS	acquired immunodeficiency syndrome
ALS	amyotrophic lateral sclerosis
AMP	adenosine monophosphate (same for C, G, I, T, U bases, i.e., CMP, GMP...)
ANOVA	analysis of variance
ATP	adenosine triphosphate (same for C, G, I, T, U bases, i.e., CTP, GTP...)
ATPase	adenylpyrophosphatase
Beq	becquerel
BLAST	basic local alignment search tool
bp	base pair(s)
C	cytosine
cal	calorie
cAMP	cyclic AMP
CD	circular dichroism
cGMP	cyclic GMP
CHAPS	3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate
Ci	Curie
Co-A	coenzyme A: hyphenate CoA to a preceding word (acyl-CoA), but coenzyme A is spaced--acyl coenzyme A (ok without def.)
cos	cosine
COSY	correlated spectroscopy
cpm/CPM	counts per minute
CRISPR	clustered regularly interspaced short palindromic repeats
cryo-EM	cryo-electron microscopy
cts	counts
CV	coefficient of variation
$\Delta G, \Delta H, \Delta H^{\circ}$	(energy terms that do not need definition)
d	differentiate
Da	Dalton (also kDa for kilodalton)

dATP	deoxyATP
DEAD	acronym for Asp-Glu-Ala-Asp, e.g., DEAD-box helicase
deg.	degree(s)
disints	disintegrations
DNA	deoxyribonucleic acid
dpm/DPM	disints per minute
dsDNA/dsRNA	double-stranded DNA/RNA
DTT	dithiothreitol
E	reduction potential
e	exponential
E'0	oxidation-reduction potential
EC ₅₀	half maximal effective concentration
ECG	electrocardiogram
ED ₅₀	median effective dose
EDTA	ethylenediaminetetraacetic acid
EEG	electroencephalogram
EF-hand	A protein structure. The E & F are part of a lettering scheme for helices (helices A-X)
EGTA	ethylene glycol-bis(2-aminoethylether)- <i>N,N,N',N'</i> -tetraacetic acid
ELISA	enzyme-linked immunosorbent assay
EM	electron microscopy (write out SEM as scanning electron microscopy, not scanning EM)
EMSA	electrophoretic mobility shift assay
eq	equivalent
FISH	fluorescence in situ hybridization
FITC	fluorescein isothiocyanate
fMet	formylmethionine
FMN	Standard abbreviation for riboflavin 5'-phosphate and also flavin mononucleotide
FPLC	fast protein liquid chromatography
FRET	Förster/fluorescence resonance energy transfer
FTIR	Fourier transform infrared
G	guanosine
g	gravitational force
GalNAc	<i>N</i> -acetylgalactosamine
GAPDH	glyceraldehyde-3-phosphate dehydrogenase
GC	gas chromatography
GC/MS or GC-MS	gas chromatography/mass spectrometry
GFP	green fluorescent protein
G*G:C	asterisk indicates Hoogsteen bonding, and colon indicates Watson-Crick hydrogen bonding
GLC	gas/liquid chromatography
GlcNAc	<i>N</i> -acetylglucosamine
GSH, GSSG	glutathione, glutathione disulfide
H&E	hematoxylin and eosin
HeLa	cells derived from Henrietta Lacks sample
HIV	human immunodeficiency virus
HPLC	high-pressure (or performance) liquid chromatography

I	inosine
<i>I</i>	ionic strength
IκB	inhibitor of κB
IC ₅₀	half maximal inhibitory concentration
ID ₅₀	infective dose
i.p.	intraperitoneal
IPTG	isopropyl-β,D-thiogalactopyranoside
IR	infrared
i.u.	international unit
i.v.	intravenous
<i>J</i>	joule
K	Kelvin
kb	10 ³ bases
kbp	10 ³ base pairs
KO	knockout
l	liter
LB	Luria broth
LC/MS or LC-MS	liquid chromatography/mass spectrometry
LD ₅₀	median lethal dose
ln	logarithm to the base e
log	logarithm to the base 10
M	molar (moles/liter)
m	meter
mAb	monoclonal antibody
MALDI	matrix-assisted laser desorption ionization
MALDI-TOF	matrix-assisted laser desorption ionization time-of-flight
MDM2	mouse (or mammalian) double minute 2 homolog
Mes	4-morpholineethanesulfonic acid
MgATP	magnesium bound to ATP
miRNA	microRNA
MRI	magnetic resonance imaging
mRNA	messenger RNA
MYrs	one million years
<i>m/z</i>	mass-to-charge ratio
N	Newton
N	(small caps) normal
NAD	nicotinamide adenine dinucleotide (also NAD ⁺ /NADH/NADP/NADP ⁺ /NADPH ok).
NFκB or NF-κB	nuclear factor [kappa]-light-chain-enhancer of activated B cells
NMR	nuclear magnetic resonance
NOE	Nuclear Overhauser enhancement
NOESY	NOE spectroscopy
nt	nucleotide(s)
NTP	nucleotide triphosphate
<i>O</i> -GlcNAcylation	<i>O</i> -linked attachment of <i>N</i> -acetylglucosamine to proteins
ORF	open reading frame
Pa	pascal
PAGE	polyacrylamide gel electrophoresis

PBS	phosphate-buffered saline or NaCl/Pi
PCR	polymerase chain reaction
PDZ	A protein domain; contraction of postsynaptic density protein 95, Drosophila disc large tumor suppressor, and zonula occludens-1
PEG	polyethylene glycol
PEI	polyethyleneimine
PET	positron emission tomography
pI	isoelectric point
P _i , PP _i	i (poly)phosphate
PI3K	phosphatidylinositol 3-kinase or phosphoinositide 3-kinase
PKA/PKC	protein kinase A/C
PMSF	phenylmethylsulphonyl fluoride
ppb/p.p.b	parts per billion
ppm/p.p.m.	parts per million
pppGp	guanosine 3'-monophosphate 5'-triphosphate
Pur	purine
Pyr	pyrimidine
<i>r</i>	measurement constant of linear regression analysis

<i>R</i>	gas constant
rad	radian
revs	revolutions
rf	radiofrequency
R_g	radius of gyration
RING	really interesting new gene (e.g., RING finger domain)
rms/RMS	root-mean-square r.m.s.
rmsd/RMSD	root-mean-square deviation r.m.s.d.
RNA	ribonucleic acid
RNAi	RNA interference
RNA-Seq	RNA sequencing
RPMI1640	Roswell Park Memorial Institute 1640 medium (RPMI also ok)
rpm, RPM, revs/min	revolutions per minute (all 3 abbrevs okay)
rRNA	ribosomal RNA
RT-PCR	reverse transcription-polymerase chain reaction
<i>S</i>	Svedberg
<i>s</i>	sedimentation coefficient
SAH/AdoHcy	S-adenosylhomocysteine
SAM/AdoMet	S-adenosylmethionine (it is OK to use SAM instead of changing it to AdoMet as long as the author is consistent in the article)
SD	standard deviation
SDS	sodium dodecyl sulphate
SEM	standard error of the mean
shRNA	short hairpin RNA
sin	sine
siRNA	small/short interfering RNA
SNARE	soluble NSF attachment protein receptor
SNP	single nucleotide polymorphism
SOS response	a cellular response to DNA damage
ssDNA/ssRNA	single-stranded DNA/RNA
<i>T</i>	absolute temperature (in Kelvin)
T	thymidine
tan	tangent
TFA	trifluoroacetic acid
TLC	thin layer chromatography
T_m or t_m	melting temperature (in degrees Celsius)
TMS	tetramethylsilyl
TOCSY	total COSY
tRNA	transfer RNA
TUNEL	terminal deoxynucleotidyltransferase-mediated dUTP nick end labeling
U	uridine
UTR	untranslated region
UV	ultraviolet light (change UV/Vis to UV-visible)
V_M	“Matthew’s volume” (in %, v/v)
WT	wildtype

Xgal	5-bromo-4-chloro-3-indolyl- β ,D-galactopyranoside
YFP	yellow fluorescent protein
ψ	pseudouridine
Z-DNA or Z DNA	a particular form of DNA