

Standard Abbreviations

3-D, three dimensional	i-V (and g-V), single-channel current voltage relation	RFLP, restriction fragment length polymorphism
A, ampere	I-V (and G-V), membrane current-voltage (or conductance-voltage) relation	RIA, radioimmunoassay
μA, microampere		RMSD, root mean square deviation/difference
pA, picoampere		RNA, ribonucleic acid
Å, angstrom (10 ⁻¹⁰ m)		mRNA, messenger RNA
Ab, antibody	J, Joule	tRNA, transfer RNA
AFM, atomic force microscopy	kJ, kilojoule	rpm, revolutions per minute
Ag, antigen	°K, degree kelvin	RYR, ryanodine receptor
ANOVA, analysis of variance	kb, kilobase	
atm, atmosphere	k _B , Boltzmann constant	s, second(s)
ATP, adenosine triphosphate (also ADP, AMP, CTP, UDP, etc.)	kcal, kilocalorie(s)	SD, standard deviation
	K _d , dissociation constant	SDS, sodium dodecyl sulfate
	K _i , inhibition constant	SERCA, sarco/endoplasmic reticulum Ca ²⁺ -ATPase
	K _m , Michaelis constant	SEM, standard error of the mean
bp, basepair		SR, sarcoplasmic reticulum
Bq, Becquerel	LD ₅₀ , 50% lethal dose	
BSA, bovine serum albumin		T, temperature in degrees Kelvin
	m, meter	t test, Student's t test
C, coulomb	cm ³ (not cc), cubic centimeter(s)	t _{1/2} , half-life, half-time
μC, microcoulombs	μm or 10 ⁻⁶ m (not μ) micrometer(s)	TEA, tetraethylammonium
°C, degree Celsius	M, molar	TIRF, total internal reflection fluorescence
cAMP, cyclic AMP (also cGMP)	mAb, monoclonal antibody	TLC, thin-layer chromatography
cDNA, complementary DNA	MD, molecular dynamics	Tris, tris (hydroxymethyl)aminomethane
CFTR, cystic fibrosis transmembrane conductance regulator	MEM, minimum essential medium	
Ci, curie(s)	Mes, 2-(N-morpholino) ethane-sulfonic acid	U, unit
mCi, millicurie(s)	μeq, microequivalent(s)	UV, ultraviolet
μCi, microcurie(s)	meq, milliequivalent(s)	
CICR, Ca ²⁺ -induced Ca ²⁺ release	MHC, major histocompatibility complex	V, volt
Cm, membrane capacitance	min, minute(s)	mV, millivolt
CNG, cyclic nucleotide-gated	ml, milliliter (but liter)	V _{max} , maximum velocity
cpm, counts per minute	μl, microliter	vol, volume
CRISPR, clustered regularly interspaced short palindromic repeats	mm Hg, millimeters of mercury	
	mo, month	W, watt(s) (voltampere)
	mol, mole	wk, week
D, dalton	mol wt, molecular weight	wt, weight
kD, kilodalton	MOPS, morpholino propane sulfonic acid	WT, wild type
d, day	M _r , relative molecular mass	
dpm, disintegrations per minute	MTS, methanethiosulfonate	YFP, yellow fluorescent protein
diam, diameter		yr, year
DMSO, dimethylsulfoxide	n, number in study or group	
DNA, deoxyribonucleic acid	N, normal (concentration of ionizable groups)	
	NAD ⁺ , nicotinamide adenine dinucleotide (also NADH, NADP, NADPH, etc.)	
ED ₅₀ , 50% effective dose	ND, not determined	
EDTA, ethylenediaminetetraacetic acid	NMDG (and/or NMDA), N-methyl-D- glucamine (or -arginine)	
EGTA, ethyleneglycol-bis(β-amino-ethyl ether)-N,N,N',N'-tetra acetic acid	NMR, nuclear magnetic resonance	
ELISA, enzyme-linked immunosorbent assay	No., number	
EM, electron microscopy	NS, not significant	
cryo-EM, cryo-electron microscopy		
EPR, electron paramagnetic resonance	OD, optical density	
ER, endoplasmic reticulum	osM, osmolar	
	osmol, osmole(s)	
FBS, fetal bovine serum	μosmol, microosmole(s)	
FCS, fetal calf serum	mosmol, milliosmole(s)	
FITC, fluorescein isothiocyanate		
FRAP, fluorescence recovery after photobleaching	Pa, Pascal	
FRET, Förster resonance energy transfer	kPa, kiloPascal	
	PAGE, polyacrylamide gel electrophoresis	
g, gram	PBS, phosphate-buffered saline	
kg, kilogram	PCR, polymerase chain reaction	
g, unit of gravity	PG, prostaglandin	
G, conductance	P _i , inorganic orthophosphate	
GFP, green fluorescent protein	pI, isoelectric point	
	PIPES, piperazine-N,N'-bis(2-ethane sulfonic acid)	
h, hour	PKA, protein kinase A (also PKC, PKG)	
HEPES, N-2-hydroxyethyl-piperazine-N'-2-ethanesulfonic acid	PLA ₂ , phospholipase A2 (also PLC)	
HPLC, high-performance liquid chromatography	PMA, phorbol myristate acetate	
	PMSF, phenylmethylsulfonyl fluoride	
I, current		
Ig, immunoglobulin	r, correlation coefficient	
IL, interleukin (e.g., IL-2)	R, gas constant	
IU, international unit	R ₀ , retardation factor	