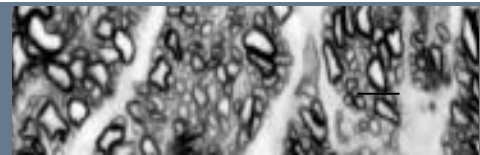




Revised May 23, 2024

A, ampere(s)	Ci, curie(s)	<i>E. coli</i> , <i>Escherichia coli</i>
Å, angstrom unit(s)	c-KIT, CD117, mast/stem cell growth factor receptor, protooncogene c-KIT	ED ₅₀ , 50% effective dose
aa, amino acid(s)	cM, centimorgan(s)	EDTA, ethylenediamine tetraacetic acid
Ab, antibody	C _{max} , maximum [peak] concentration	EEG, electroencephalogram
AIDS, acquired immunodeficiency syndrome	C _{min} , minimum [trough] concentration	EGF, epidermal growth factor
AKT, v-akt murine thymoma viral oncogene homolog 1	CMP, cytidine monophosphate (CDP, CTP)	EGFP, enhanced GFP
ALS, amyotrophic lateral sclerosis	CMV, cytomegalovirus	EGFR, EGF receptor
AMP, adenosine monophosphate (ADP, ATP)	CNRS, Centre National de la Recherche Scientifique	EGTA, ethyleneglycol-bis-(β-aminoethylether)- <i>N,N,N',N'</i> -tetraacetic acid
AMPK, AMP kinase	CNS, central nervous system	ELISA, enzyme-linked immunosorbent assay
ANCOVA, analysis of covariance	CoA, coenzyme A	EMSA, electrophoretic mobility shift assay
ANOVA, analysis of variance	COVID-19, coronavirus disease 2019	ER, endoplasmic reticulum
ATPase, adenosine triphosphatase (AMPase, ADPase)	COX, cyclooxygenase	ERK, extracellular signal-regulated kinase
AU, arbitrary unit(s)	cpm, count(s) per minute	°F, degree(s) Fahrenheit
AUC, area under the curve	CRISPR, clustered regularly interspaced short palindromic repeats	FACS, fluorescence-activated cell sorting
BAC, bacterial artificial chromosome	CSA, colony-stimulating activity	F-actin, filamentous actin
β-gal, β-galactosidase	CSF, colony-stimulating factor	FBS, fetal bovine serum
BM, bone marrow	Ct, threshold cycle	Fc, crystallizable fragment [of immunoglobulin molecule]
BMI, body mass index	CT, computed tomography	FCS, fetal calf serum
BMP, bone morphogenetic protein	CXCL, CXC chemokine ligand	FDA, Food and Drug Administration
bp, base pair(s)	CXCR, CXC chemokine receptor	FDR, false discovery rate
BP, blood pressure	d, day(s)	FFPE, formalin-fixed, paraffin-embedded
bpm, beat(s) per minute	<i>d</i> , density	FGF, fibroblast growth factor
BRAF, v-raf murine sarcoma viral oncogene homolog B	3D, 3-dimensional	FISH, fluorescence in situ hybridization
BrdU, bromodeoxyuridine	Da, dalton(s)	FITC, fluorescein isothiocyanate
BSA, bovine serum albumin	DAB, 3,3'-diaminobenzidine	<i>f</i> , floxed
BTU, British thermal unit(s)	DAPI, 4',6-diamidino-2-phenylindole	Fox, Forkhead box
BW, body weight	DC, dendritic cell	ft, foot, feet
°C, degree(s) Celsius	DEAE, diethylaminoethyl	FWER, family-wise error rate
cAMP, cyclic adenosine monophosphate (cGMP)	Δ (delta), change in, change of	g, gram(s)
CAR, chimeric antigen receptor (CAR T cell)	DFG, Deutsche Forschungsgemeinschaft	<i>g</i> , unit(s) of gravity
Cas9, CRISPR-associated protein 9	DMEM, Dulbecco's modified Eagle medium	GABA, γ-aminobutyric acid
CCL, CC chemokine ligand	DMSO, dimethylsulfoxide	GAP, GTPase-activating protein
CCR, CC chemokine receptor	DNA, deoxyribonucleic acid	GAPDH, glyceraldehyde-3-phosphate dehydrogenase
CD, cluster of differentiation (CD4, CD8)	dpc, day(s) post coitum	GEF, guanine nucleotide exchange factor
CDC, Centers for Disease Control and Prevention	dpf, day(s) post fertilization	GFP, green fluorescent protein
cDNA, complementary DNA	<i>dp/dt</i> , first derivative of pressure measured over time	GM-CSF, granulocyte macrophage colony-stimulating factor
CDP, cytosine diphosphate	<i>dp/dV</i> , pressure per unit change in volume	GMP, guanosine monophosphate (GDP, GTP)
C/EBP, CCAAT/enhancer-binding protein	dpm, disintegration(s) per minute	GPCR, G protein-coupled receptor
CFA, complete Freund's adjuvant	dsDNA, double-stranded DNA	GWAS, genome-wide association study/studies
CFSE, carboxyfluorescein diacetate succinimidyl ester	dsRNA, double-stranded RNA	Gy, gray(s)
CFU, colony-forming unit(s)	DTT, dithiothreitol	h, hour(s)
ChIP, chromatin immunoprecipitation	E1, embryonic day 1 (E2, E3)	HA, hemagglutinin
CHO, Chinese hamster ovary	EBV, Epstein-Barr virus	HBSS, Hanks balanced salt solution
CI, confidence interval	EC ₅₀ , 50% effective concentration	HBV, hepatitis B virus
	ECG, electrocardiogram, electrocardiography	
	ECL, enhanced chemiluminescence	



HDL, high-density lipoprotein	JAK, Janus kinase	N, normal [solution]
H&E, hematoxylin and eosin	JNK, c-Jun NH ₂ -terminal kinase	<i>n</i> , number in group
HEPES, <i>N</i> -2-hydroxyethylpiperazine- <i>N'</i> -2-ethanesulfonic acid	JUN, Jun protooncogene	<i>N</i> , total sample size
HGF, hepatocyte growth factor	°K, degree(s) Kelvin	NA, not applicable
HIF, hypoxia-inducible factor	<i>K_A</i> , association constant	NAD, nicotinamide adenine dinucleotide
HIV, human immunodeficiency virus (HIV-1, HIV-2)	kb, kilobase(s)	NADH, reduced NAD
HLA, human leukocyte antigen	kcal, kilocalorie(s)	NADPH, reduced NAD phosphate
HMG, 3-hydroxy-3-methyl-glutaryl	<i>K_D</i> , dissociation constant	NF-κB, nuclear factor κB
HPLC, high-performance liquid chromatography	kDa, kilodalton(s)	NIH, National Institutes of Health
HPV, human papilloma virus	<i>K_I</i> , inhibition constant	NK, natural killer [cell]
HR, hazard ratio	<i>K_m</i> , Michaelis-Menten constant	NKT, natural killer T [cell]
HRP, horseradish peroxidase	KO, knockout	NLR, Nod-like receptor
HSA, human serum albumin	L, liter(s)	NMDA, <i>N</i> -methyl-D-aspartate
hsp, heat shock protein	LD ₅₀ , 50% lethal dose	NMR, nuclear magnetic resonance
HUVEC, human umbilical vein endothelial cell	LDL, low-density lipoprotein	NO, nitric oxide
	lod, log odds ratio	no., number
	LPS, lipopolysaccharide	NOD, nonobese diabetic
	LUC, luciferase	NOR, nonobese resistant
		NOS, NO synthase
<i>i</i> , electric current	<i>m</i> , meter(s)	NP-40, Nonidet P-40
IACUC, Institutional Animal Care and Use Committee	M, molar	NS, not significant
IB, immunoblot	mAb, monoclonal Ab	NSAID, nonsteroidal antiinflammatory drug
IC ₅₀ , 50% inhibitory concentration	MALDI, matrix-assisted laser desorption/ionization	nt, nucleotide(s)
ICAM, intercellular adhesion molecule	MAPK, mitogen-activated protein kinase	OCT, optimal cutting temperature [compound]
ICOS, inducible costimulatory molecule	Mb, megabase	OD, optical density
<i>i.c.v.</i> , intracerebroventricular(ly)	2-ME, 2-mercaptoethanol	OR, odds ratio
ID ₅₀ , 50% infective dose	MEK, MAPK kinase	ORF, open reading frame
IDL, intermediate-density lipoprotein	MEM, Eagle minimal essential medium	osm, osmole(s)
IFN, interferon	mEq, milliequivalent	OVA, ovalbumin
Ig, immunoglobulin (IgE, IgG)	MFI, mean fluorescence intensity	
IGF, insulin-like growth factor	MHC, major histocompatibility complex	P, phosphate (PO ₄)
IHC, immunohistochemistry	min, minute(s)	<i>P</i> , probability
IkB, inhibitor of NF-κB (IkBα, IkBβ)	miRNA, microRNA	P1, postnatal day 1 (P2, P3)
IL, interleukin (IL-12)	mmHg, millimeter(s) of mercury	PAGE, polyacrylamide gel electrophoresis
<i>i.m.</i> , intramuscular(ly)	MMP, matrix metalloproteinase	PBMC, peripheral blood mononuclear cell
IMDM, Iscove's modified Dulbecco's medium	mo, month(s)	PBS, phosphate-buffered saline
<i>i.n.</i> , intranasal(ly)	MOI, multiplicity(ies) of infection	PCR, polymerase chain reaction
<i>in.</i> , inch(es)	mol, mole(s)	PDGF, platelet-derived growth factor
INSERM, Institut National de la Santé et de la Recherche Médicale	MOPS, 3-(<i>N</i> -morpholino)propanesulfonic acid	PDGFR, PDGF receptor
<i>i.p.</i> , intraperitoneal(ly)	<i>M_r</i> , relative molecular mass	PECAM, platelet-endothelial cell adhesion molecule
IP, immunoprecipitation	MRI, magnetic resonance imaging	PEG, polyethylene glycol
IQR, interquartile range	mRNA, messenger RNA	PET, positron emission tomography
IRB, institutional review board	ms, millisecond(s)	PFU, plaque-forming unit(s)
ISH, in situ hybridization	mTOR, mammalian target of rapamycin	pg, picogram(s)
IU, international unit(s)	MTT assay, 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide assay	pH, hydrogen ion concentration
<i>i.v.</i> , intravenous(ly)	MW, molecular weight	pI, isoelectric point
	Myc, V-myc myelocytomatosis viral oncogene homolog (avian)	PI3K, phosphatidylinositol-3'-kinase
		PIPES, piperazine- <i>N,N'</i> -bis(2-ethanesulfonic acid)



PKC, protein kinase C (PKA, PKB)	SH2, Src homology 2	V, volt(s)
PLC, phospholipase C	shRNA, short hairpin RNA	VCAM, vascular cell adhesion molecule
PMA, phorbol myristate acetate	siRNA, small interfering RNA	VEGF, vascular endothelial growth factor
PMN, polymorphonuclear cell	SIV, simian immunodeficiency virus	VEGFR, VEGF receptor
PMSF, phenylmethylsulfonyl fluoride	SMAD, SMAD family member(s)	VLDL, very low-density lipoprotein
PNS, peripheral nervous system	SNP, single nucleotide polymorphism	V_{max} , maximum velocity
PPAR, peroxisome proliferator-activated receptor (PPAR γ)	SOCS, suppressor of cytokine signaling	vol, volume
psi, pound(s) per square inch	SOD, superoxide dismutase	vWF, von Willebrand factor
PVDF, polyvinylidene difluoride	SRC, protooncogene tyrosine-protein kinase SRC	W, watt(s)
<i>r</i> , correlation coefficient	SREBP, sterol regulatory element-binding protein	WBC, white blood cell
RAB, RAS-related GTP-binding protein	SSC, standard saline citrate	WHO, World Health Organization
rad, radiation-absorbed dose	ssDNA, single-stranded DNA	wk, week(s)
RAG, recombination-activating gene	STAT, signal transducer and activator of transcription	WNT, wingless-type MMTV integration site family
RANK, receptor activator of NF- κ B	<i>t</i> , time	wt, weight
RANKL, RANK ligand	$t_{1/2}$, half-life	WT, wild-type
RANTES, regulated on activation, T cell expressed, and secreted	TALEN, transcription activator-like effector nuclease	yr, year(s)
RAS, rat sarcoma viral oncogene homolog	TBS, triethanolamine-buffered saline	
RBC, red blood cell	TCA, tricarboxylic acid	
RFLP, restriction fragment length polymorphism	Tg, transgene, transgenic	
RHO, Ras homolog family	TGF, transforming growth factor	
RIA, radioimmunoassay	Th cell, T helper cell (Th ₁ , Th ₂)	
RIPA, radioimmunoprecipitation assay	TLC, thin-layer chromatography	
RLU, relative light unit(s)	TLR, Toll-like receptor	
RNA, ribonucleic acid	TNF, tumor necrosis factor	
RNAi, RNA interference	TOF, time-of-flight (MALDI/TOF)	
ROS, reactive oxygen species	TRAIL, TNF-related apoptosis-inducing ligand	
rpm, revolution(s) per minute	Treg, regulatory T cell	
RPMI medium, Roswell Park Memorial Institute medium	Tris, tris(hydroxymethyl)-aminomethane	
rRNA, ribosomal RNA	TRITC, tetra-rhodamine isothiocyanate	
RTK, receptor tyrosine kinase	TUNEL, terminal deoxynucleotidyl transferase-mediated dUTP nick end labeling	
RU, resonance unit(s)	U, unit(s)	
s, second(s)	UCD, University of California, Davis	
SARS, severe acute respiratory syndrome	UCLA, University of California, Los Angeles	
SARS-CoV-2, SARS coronavirus 2	UCSD, University of California, San Diego	
s.c., subcutaneous(ly)	UCSF, University of California, San Francisco	
SCID, severe combined immunodeficiency disease	UMP, uridine monophosphate (UDP, UTP)	
SD, standard deviation	UTR, untranslated region	
SDS, sodium dodecylsulfate	UV, ultraviolet	
SEM, standard error of the mean		
-Seq, sequencing (suffix for RNA-Seq, ChIP-Seq, etc.)		
sgRNA, single-guide RNA		