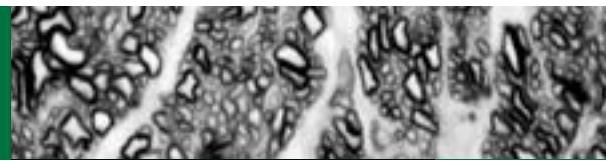
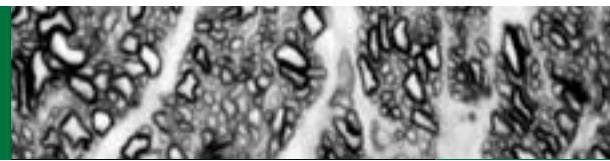


A, ampere(s)	CI, confidence interval	E1, embryonic day 1 (E2, E3)
Å, angstrom unit(s)	Ci, curie(s)	EBV, Epstein-Barr virus
aa, amino acid(s)	c-KIT, CD117, mast/stem cell growth factor receptor, protooncogene c-KIT	EC ₅₀ , 50% effective concentration
Ab, antibody	cM, centimorgan(s)	ECG, electrocardiogram, electrocardiography
AIDS, acquired immunodeficiency syndrome	C _{max} , maximum [peak] concentration	ECL, enhanced chemiluminescence
AKT, v-akt murine thymoma viral oncogene homolog 1	C _{min} , minimum [trough] concentration	<i>E. coli</i> , <i>Escherichia coli</i>
ALS, amyotrophic lateral sclerosis	CMP, cytidine monophosphate (CDP, CTP)	ED ₅₀ , 50% effective dose
AMP, adenosine monophosphate (ADP, ATP)	CMV, cytomegalovirus	EDTA, ethylenediamine tetraacetic acid
AMPK, AMP kinase	CNRS, Centre National de la Recherche Scientifique	EEG, electroencephalogram
ANCOVA, analysis of covariance	CNS, central nervous system	EGF, epidermal growth factor
ANOVA, analysis of variance	CoA, coenzyme A	EGFP, enhanced GFP
ATPase, adenosine triphosphatase (ATPase, ADPase)	COVID-19, coronavirus disease 2019	EGFR, EGF receptor
AU, arbitrary unit(s)	COX, cyclooxygenase	EGTA, ethyleneglycol-bis-(β-aminoethyl ether)-N,N,N',N'-tetraacetic acid
AUC, area under the curve	cpm, count(s) per minute	ELISA, enzyme-linked immunosorbent assay
BAC, bacterial artificial chromosome	CRISPR, clustered regularly interspaced short palindromic repeats	EMSA, electrophoretic mobility shift assay
β-gal, β-galactosidase	CSA, colony-stimulating activity	ER, endoplasmic reticulum
BM, bone marrow	CSF, colony-stimulating factor	ERK, extracellular signal-regulated kinase
BMI, body mass index	Ct, threshold cycle	°F, degree(s) Fahrenheit
BMP, bone morphogenetic protein	CT, computed tomography	FACS, fluorescence-activated cell sorting
bp, base pair(s)	CXCL, CXC chemokine ligand	F-actin, filamentous actin
BP, blood pressure	CXCR, CXC chemokine receptor	FBS, fetal bovine serum
bpm, beat(s) per minute	d, day(s)	Fc, crystallizable fragment [of immunoglobulin molecule]
BRAF, v-raf murine sarcoma viral oncogene homolog B	d, density	FCS, fetal calf serum
BrdU, bromodeoxyuridine	3D, 3-dimensional	FDA, Food and Drug Administration
BSA, bovine serum albumin	Da, dalton(s)	FDR, false discovery rate
BTU, British thermal unit(s)	DAB, 3,3'-diaminobenzidine	FFPE, formalin-fixed, paraffin-embedded
BW, body weight	DAPI, 4',6-diamidino-2-phenylindole	FGF, fibroblast growth factor
°C, degree(s) Celsius	DC, dendritic cell	FISH, fluorescence in situ hybridization
cAMP, cyclic adenosine monophosphate	DEAE, diethylaminoethyl	FITC, fluorescein isothiocyanate
(cGMP)	Δ (delta), change in, change of	fl, floxed
Cas9, CRISPR-associated protein 9	DFG, Deutsche Forschungsgemeinschaft	Fox, Forkhead box
CCL, CC chemokine ligand	DMEM, Dulbecco's modified Eagle medium	ft, foot, feet
CCR, CC chemokine receptor	DMSO, dimethylsulfoxide	FWER, family-wise error rate
CD, cluster of differentiation (CD4, CD8)	DNA, deoxyribonucleic acid	g, gram(s)
CDC, Centers for Disease Control and Prevention	dpc, day(s) post coitum	g, unit(s) of gravity
cDNA, complementary DNA	dpf, day(s) post fertilization	GABA, γ-aminobutyric acid
CDP, cytosine diphosphate	dP/dt, first derivative of pressure measured over time	GAP, GTPase-activating protein
C/EBP, CCAAT/enhancer-binding protein	dP/dV, pressure per unit change in volume	GAPDH, glyceraldehyde-3-phosphate dehydrogenase
CFA, complete Freund's adjuvant	dpm, disintegration(s) per minute	GEF, guanine nucleotide exchange factor
CFSE, carboxyfluorescein diacetate succinimidyl ester	dsDNA, double-stranded DNA	GFP, green fluorescent protein
CFU, colony-forming unit(s)	dsRNA, double-stranded RNA	GM-CSF, granulocyte macrophage colony-stimulating factor
ChIP, chromatin immunoprecipitation	DTT, dithiothreitol	GMP, guanosine monophosphate (GDP, GTP)
CHO, Chinese hamster ovary		GPCR, G protein-coupled receptor



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



PAGE, polyacrylamide gel electrophoresis	RPMI medium, Roswell Park Memorial Institute medium	TRAIL, TNF-related apoptosis-inducing ligand
PBMC, peripheral blood mononuclear cell	rRNA, ribosomal RNA	Treg, regulatory T cell
PBS, phosphate-buffered saline	RTK, receptor tyrosine kinase	Tris, tris(hydroxymethyl)-aminomethane
PCR, polymerase chain reaction	RU, resonance unit(s)	TRITC, tetrarhodamine isothiocyanate
PDGF, platelet-derived growth factor	s, second(s)	TUNEL, terminal deoxynucleotidyl transferase-mediated dUTP nick end labeling
PDGFR, PDGF receptor	SARS, severe acute respiratory syndrome	U, unit(s)
PECAM, platelet–endothelial cell adhesion molecule	SARS-CoV-2, SARS coronavirus 2	UCD, University of California, Davis
PEG, polyethylene glycol	s.c., subcutaneous(ly)	UCLA, University of California, Los Angeles
PET, positron emission tomography	SCID, severe combined immunodeficiency disease	UCSD, University of California, San Diego
PFU, plaque-forming unit(s)	SD, standard deviation	UCSF, University of California, San Francisco
pg, picogram(s)	SDS, sodium dodecylsulfate	UMP, uridine monophosphate (UDP, UTP)
pH, hydrogen ion concentration	SEM, standard error of the mean	UTR, untranslated region
pI, isoelectric point	-Seq, sequencing (suffix for RNA-Seq, ChIP-Seq, etc.)	UV, ultraviolet
PI3K, phosphatidylinositol-3'-kinase	sgRNA, single-guide RNA	V, volt(s)
PIPES, piperazine-N,N'-bis(2-ethanesulfonic acid)	SH2, Src homology 2	VCAM, vascular cell adhesion molecule
PKC, protein kinase C (PKA, PKB)	shRNA, short hairpin RNA	VEGF, vascular endothelial growth factor
PLC, phospholipase C	siRNA, small interfering RNA	VEGFR, VEGF receptor
PMA, phorbol myristate acetate	SIV, simian immunodeficiency virus	VLDL, very low-density lipoprotein
PMN, polymorphonuclear cell	SMAD, SMAD family member(s)	V _{max} , maximum velocity
PMSF, phenylmethylsulfonyl fluoride	SNP, single nucleotide polymorphism	vol, volume
PNS, peripheral nervous system	SOCS, suppressor of cytokine signaling	vWF, von Willebrand factor
PPAR, peroxisome proliferator-activated receptor (PPAR γ)	SOD, superoxide dismutase	W, watt(s)
psi, pound(s) per square inch	SRC, protooncogene tyrosine-protein kinase SRC	WBC, white blood cell
PVDF, polyvinylidene difluoride	SREBP, sterol regulatory element-binding protein	WHO, World Health Organization
<i>r</i> , correlation coefficient	SSC, standard saline citrate	wk, week(s)
RAB, RAS-related GTP-binding protein	ssDNA, single-stranded DNA	WNT, wingless-type MMTV integration site family
rad, radiation-absorbed dose	STAT, signal transducer and activator of transcription	wt, weight
RAG, recombination-activating gene	<i>t</i> , time	WT, wild-type
RANK, receptor activator of NF- κ B	<i>t</i> _{1/2} , half-life	yr, year(s)
RANKL, RANK ligand	TALEN, transcription activator-like effector nuclease	
RANTES, regulated on activation, T cell expressed, and secreted	TBS, triethanolamine-buffered saline	
RAS, rat sarcoma viral oncogene homolog	TCA, tricarboxylic acid	
RBC, red blood cell	Tg, transgene, transgenic	
RFLP, restriction fragment length polymorphism	TGF, transforming growth factor	
RHO, Ras homolog family	Th cell, T helper cell (Th1, Th2)	
RIA, radioimmunoassay	TLC, thin-layer chromatography	
RIPA, radioimmunoprecipitation assay	TLR, Toll-like receptor	
RLU, relative light unit(s)	TNF, tumor necrosis factor	
RNA, ribonucleic acid	TOF, time-of-flight (MALDI/TOF)	
RNAi, RNA interference		
ROS, reactive oxygen species		
rpm, revolution(s) per minute		