

List of abbreviations

The abbreviations listed here are used without definition in articles published in the *Iranian Biomedical Journal*. The form may be used for both singular and plural.

::	novel junction (fusion or insertion)	HEPES	N-2-hydroxyethylpiperazine-N'-2 ethanesulfonic acid	PBMC	peripheral blood mononuclear cell
A	absorbance, adenosine, ampere	HIV	human immunodeficiency virus	PBS	phosphate-buffered saline
aa	amino acid	HLA	human histocompatibility leukocyte antigens	PCR	polymerase chain reaction
Ab	antibody	HPLC	high performance liquid chromatography	PE	phycoerythrin
Ag	antigen	HPRT	hypoxanthine-guanine phosphoribosyl transferase	PEG	polyethylene glycol
AIDS	acquired immune deficiency syndrome	HSV	herpes simplex virus	pfu	plaque-forming unit
A-MuLV	Abelson murine leukemia virus	HTLV	human T lymphocyte virus	PHA	phytohemagglutinin
AMV	avian myeloblastosis virus	i.d.	intradermal	P _i	inorganic phosphate
APC	antigen-presenting cell	i.m.	intramuscular	PMA	phorbol myristate acetate
ATP	adenosine triphosphate (also ADP, AMP)	i.p.	intraperitoneal	PMN	polymorphonuclear leukocytes
BCG	Bacillus Calmette Gue'r'in	i.v.	intravenous	PMSF	phenylmethylsulfonyl fluoride
bp	base pair	ID ₅₀	50% infective dose or 50% inhibiting dose	ppm	points per million
BSA	bovine serum albumin	IEF	isoelectric focusing	PWM	pokeweed mitogen
C	region, constant region of Ig, complement, cytidine	IFA	incomplete Freund's adjuvant	R	receptor (e.g., IL-2R)
°C	degree Celsius	IFN	interferon (e.g., IFN-γ)	r	recombinant (e.g., rIFN-γ)
cal	calorie	Ig	immunoglobulin	RBC	red blood cell
cAMP	cyclic AMP (adenosine 3', 5'-mono-phosphate)	IL	interleukin (e.g., IL-2)	RF	rheumatoid factor
cDNA	complementary DNA	IU	international unit	RIA	radioimmunoassay
CDR	complementarity determining region	J region	joining region of Ig or TCR	RNA	ribonucleic acid
CFA	complete Freund's adjuvant	kb	kilobase (s) or 1000 pb	RNase	ribonuclease
CFU	colony-forming unit	kDa	kilodalton (s)	rpm	revolutions per minute
CHO	Chinese hamster ovary	KLH	keyhole limpet hemocyanin	rRNA	ribosomal RNA
CLL	chronic lymphocytic leukemia	l (L)	liter	s	second (time)
Ci	curie	LAK	lymphokine-activated killer	S	sedimentation constant, Svedberg
CMV	cytomegalovirus	LD ₅₀	50% lethal dose	s.c.	unit of sedimentation coefficient
Con A	concanavalin A	LFA-1	leukocyte function-associated antigen-1	SCID	subcutaneous
cpm	counts per minute	LN	lymph node	SD	severe combined immunodeficiency
CSF	colony-stimulating factor	in	logarithm (base e)	SDS	standard deviation
CTL	cytotoxic T lymphocyte	log	logarithm (base 10)	SE	sodium dodecyl sulfate
d	day	LPS	lipopolysaccharide	SEM	standard error
D	region, diversity region of Ig or TCR	m	meter	SLE	standard error of the mean
DEAE	diethylaminoethyl	M	molar	sp.	systemic lupus erythematosus
DMEM	Dulbecco's modified Eagle's medium	mAb	monoclonal antibody	sp act	species (singular)
DMSO	dimethyl sulfoxide	2-ME	2-mercaptoethanol	spp.	specific activity
DNA	deoxyribonucleic acid	MEM	minimum essential medium	SRBC	species (plural)
DNase	deoxyribonuclease	MHC	major histocompatibility complex	ss	sheep red blood cells
DNP	dinitrophenyl	min	minute	SSC	single-strand (ed) (e.g., ssDNA)
dNTP	deoxyribonucleosid triphosphate	ml	milliliter	SV40	standard saline citrate
dpm	disintegrations per minute	MLC	mixed lymphocyte culture	T	simian virus 40
ds	double-strand (ed) (as dsDNA)	MLR	mixed leukocyte reaction	<i>t</i> _{1/2}	thymidine
DTT	dithiothreitol	MIs	minor lymphocyte stimulating	<i>t</i> _{1/2}	half-life, half-time
E:T ratio	effector to target ratio	mo	month	<i>t</i> _{1/2}	terminator of transcription
EBV	Epstein-Barr virus	mol	mole	TCA	trichloroacetic acid
ED ₅₀	50% effective dose	<i>M</i> _r	relative molecular mass (dimensionless)	TCR	T cell receptor for antigen
EDTA	ethylenediaminetetraacetic acid	mRNA	messenger RNA	TdR	thymidine deoxyribose (also UdR, AdR)
EGTA	ethyleneglycol-bis(β-aminoethyl ether)-N,N,N',N' tetraacetic acid	MW	molecular weight	TFA	trifluoroacetic acid
ELISA	enzyme-linked immunosorbent assay	N	any nucleoside	TGF	transforming growth factor
EtdBr	ethidium bromide	n	number (sample size)	Th cell	T helper cell
°F	degree Farenheit	NAD	nicotinamide-adenine dinucleotide	TK	thymidine kinase
FACS	fluorescence-activated cell sorter	ND	not determined	TLC	thin-layer chromatography
FCS	fetal calf serum	NK cell	natural killer cell	TMV	tobacco mosaic virus
FITC	fluorescein isothiocyanate	No.	number	TNF	tumor necrosis factor
g	gram	NP-40	Nonidet P-40	TNP	trinitrophenyl
G	guanosine	NS	not (statistically) significant	Tris	tris (hydroxymethyl)aminomethane
g	unit of gravity	OD	optical density	Ts cell	T suppressor cell
Gal	-galactosidase	oligo	oligodeoxyribonucleotide	U	unit, uridine
	GDP, GMP, GTP, CTP, and UDP)	ORF	open reading frame	URF	unidentified open reading frame
GM-CSF	granulocyte/macrophage colony-stimulating factor	ori	origin(s) of DNA replication	UV	ultraviolet
GVHD	graft-vs-host disease	osM	osmolar	V	variable region of Ig, volt
H	chain, heavy chain of Ig	osmol	osmole	vol	volume
h	hour	OVA	ovalbumin	W	watt
HAT	hypoxanthine, aminopterin, thymidine	P	probability	wk	week
HBSS	Hanks' balanced salt solution	PAGE	polyacrylamide gel electrophoresis	wt	weight
		PBL	peripheral blood lymphocyte	̄x	mean (sample)
				Y	pyrimidine
				yr	year