

ISCN Symbols and Abbreviated Terms

Symbols and abbreviated terms used in the description of chromosomes and chromosomal abnormalities are listed below. For a detailed discussion of these terms, consult ISCN (1995): An International System for Human Cytogenetic Nomenclature, Mitelman, F (ed); S. Karger, Basel, 1995.

Consider the following when searching for chromosomal abnormalities:

add	additional material of unknown origin	
approximate sign (~)	denotes intervals and boundaries of a chromosome segment or number of chromosomes, fragments, or markers; denotes a range of number of copies of a chromosomal region when the exact number cannot be determined	
arr	microarray	
arrow (-> or \rightarrow)	from - to, in detailed system	
brackets, square ([])	surround number of cells or genome build	
cen	centromere	
cab		
chr	comparative genomic hybridization	
cht	chromatid	
	brook in detailed system	
	break, in detailed system	
	break and reunion, in detailed system	
cp	denotes sub banda	
decimal point (.)	denotes sub-bands	
del		
der	derivative chromosome	
aic	aicentric	
an	designates a chromosome adnormality that has not been inherited (de novo)	
aup		
rra .	rragile site	
h	heterochromatin, constitutive	
hmz	homozygous, homozygosity; used when one or two copies of a genome are detected, but previous, known heterozygosity has been reduced to homozygosity through a variety of mechanisms, e.g. loss of heterozygosity (LOH)	
hsr	homogeneously staining region	
htz	heterozygous, heterozygosity	
i	isochromosome	
idic	isodicentric chromosome	
ins	insertion	
inv	inversion	
mar	marker chromosome	
mat	maternal origin	
mos	mosaic	
р	short arm of chromosome	
parentheses ()	surround structurally altered chromosomes and breakpoints; surround chromosome numbers, X, and Y in normal and abnormal results; surround coordinates (or nucleotide positions) in abnormal result	
pat	paternal origin	
ps	satellited short arm of chromosome	
pter	terminal end of the short arm	
q	long arm of chromosome	
qter	terminal end of the long arm	
question mark (?)	questionable identification of a chromosome or chromosome structure	
r	ring chromosome	
rec	recombinant chromosome	
rob	robertsinian translocation	
S	satellite	
sce	sister chromatid exchange	
sdl	sideline	
seq	sequencing	
slant line, single (/)	separates clones, or contiguous probes	
stk	satellite stalk	
subtel	subtelomeric region	
t	translocation	
tas	telomeric association	
ter	terminal (end of chromsome) or telomere	
upd	uniparental disomy	
var	variant or variable region	
in Situ Hybridization: Symbols and Abbreviations		

minus sign (-)	loss; decrease in length; locus absent from a specific chromosome
plus sign, single (+)	additional normal or abnormal chromosomes; increase in length locus present on a specific chromosome
plus sign, double (++)	two hybridization signals or hybridization regions on a specific chromosome
multiplication sign (x)	multiple copies of rearranged chromosomes; designates aberrant polyploidy clones in neoplasias; with number to indicate number of signals seen; multiple copies of a chromosome

multiplication sign (x)	or chromosomal region
period (.)	separates various techniques
semicolon (;)	separates altered chromosomes and breakpoints in structural rearrangements involving more than one chromosome; seperates probes on different derivative chromosomes
FISH	fluorescence in situ hybridization
ish	in situ hybridization; when used without a prefix applies to metaphase or prometaphase chromosomes of dividing cells
wcp	whole chromosome paint



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CUSTOMER SERVICE customerservice@coriell.org (800) 752-3805 ● (856) 757-4848

Coriell Institute for Medical Research 403 Haddon Avenue Camden, NJ 08103, USA (856) 966-7377

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