

**Chromosome analysis in barley:
DNA composition and organization of centromeres
and
the upper chromosome size limit**

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List of abbreviations

A	recombinant karyotype with elongated chromosome arm
BAC	bacterial artificial chromosome
BCS2	barley variant of the cereal centromere sequence1
CCS1	cereal centromere sequence1
<i>cereba</i>	<i>centromeric retroelement of barley</i>
DAPI	4',6-Diamidino-2-phenylindole
dATP	2'-deoxyadenosine 5'-triphosphate
dCTP	2'-deoxycytidine 5'-triphosphate
dGTP	2'-deoxyguanosine 5'-triphosphate
dTTP	2'-deoxythymidine 5'-triphosphate
dUTP	2'-deoxyuridine 5'-triphosphate
EDTA	ethylenediaminetetra-acetic acid
FISH	fluorescent in situ hybridization
GISH	genomic in situ hybridization
L	long chromosome arm
LTR	long terminal repeat
NOR	nucleolar organizer
PBS	primer binding site
PCR	polymerase chain reaction
PFGE	pulsed field gel electrophoresis
PPT	polypurine tract
P1, P2	parental lines
RB	RNA binding site
rDNA	ribosomal DNA
rpm	revolutions per minute
S	short chromosome arm
SD	standard deviation
SDS	sodium dodecyl sulphate
Tris	Tris-(hydroxymethyl)-aminomethan
UV	ultraviolet
W	normal karyotype, wild-typ