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List of Abbreviations

BAC: Bacterial artificial chromosome
CCD: Charge-coupled device
CEN: Centromere
CHIAS: Chromosome Image Analyzing System
CP: Condensation profile (Density profile at the mid-rib of chromatid)
DAPI: 4,6-diamidino-2-phenylindole
DRWID: Drawing idiogram
EDF: Extended DNA fiber
FIB/SEM: Focused ion beam/Scanning electron microscope
FISH: Fluorescence *in situ* hybridization
Idiogram: (Quantitative chromosome map)
IRGSP: International Rice Genome Sequencing Project
LUT: Lookup table
NOR: Nucleolar organizing region
OpenCV: Open Source Computer Vision Library
PAC: P1-derived artificial chromosome
PI: Propidium iodide
rDNA: Ribosomal DNA
SDK: Software development kit
Trs-A: Tandem repeat sequence A