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Appendix

Standard abbreviations allowed to be used without explanation or definition in all articles published in the *Journal of Proteomics*.

A absorbance
ACES 2-[(2-amino-2-oxoethyl)amino] ethanesulphonic acid
ACN acetonitrile
A/D analog to digital converter
AEBSF 4-(2-aminoethyl)benzenesulphonyl fluoride
amu atomic mass unit
ANOVA analysis of variance
API atmospheric pressure ionization
AUC area under curve
Bis N,N"-methylenebisacrylamide
bp base pairs
BSA bovine serum albumin
%C cross-linking agent (g/100 mL)/%T
CAPS 3-(cyclohexylamino)-1-propanesulphonic acid
CBB Coomassie Brilliant Blue
CCD charge-coupled device
CD circular dicroism
CE capillary electrophoresis
CEC capillary electrochromatography
CFE continuous flow electrophoresis
CHAPS 3-[(3-cholamidopropyl)dimethylammonio]-1-propanesulphonate
CHCA α-cyano-4-hydroxycinnamic acid
CHES 2-((N-cyclohexylamino)ethanesulphonic acid
CID collision-induced dissociation
CIEF capillary isoelectric focusing
CMC critical micelle concentration
Con A Concanavalin A
CNS central nervous system
cpm counts per minute
CTAB ethyltrimethylammonium bromide
CV coefficient of variation
CZE capillary zone electrophoresis
1-D one-dimensional
2-D two-dimensional
Da dalton (molecular mass)
2-DE two-dimensional electrophoresis
DIGE fluorescence difference gel electrophoresis
DGGE denaturing gradient gel electrophoresis
DMEM Dulbecco’s modified Eagle medium
DMF N,N-dimethylformamide
DMSO dimethyl sulphoxide
DOC sodium deoxycholate
dsDNA double-stranded DNA
DTE dithioerithriol
DTT dithiothreitol
ECL enhanced chemiluminescence
EDTA ethylenediaminetetraacetic acid
EEO electrodosmosis
EGTA ethylene glycol-bis(β-aminoethyl ether)-N,N,N,N'-tetraacetic acid
EKC electrokinetic chromatography
ELISA enzyme-linked immunosorbent assay
EMSA electrophoretic mobility shift assay
EOF electroosmotic flow
ER endoplasmic reticulum
ESI electrospray ionization
EST expressed sequence tag
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Full Form</th>
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<tbody>
<tr>
<td>EUPA</td>
<td>European Proteome Association</td>
</tr>
<tr>
<td>FAB</td>
<td>fast atom bombardment</td>
</tr>
<tr>
<td>FACS</td>
<td>fluorescence activated cell sorting</td>
</tr>
<tr>
<td>FBS</td>
<td>fetal bovine serum</td>
</tr>
<tr>
<td>FCS</td>
<td>fetal calf serum</td>
</tr>
<tr>
<td>FIGE</td>
<td>field inversion gel electrophoresis</td>
</tr>
<tr>
<td>FITC</td>
<td>fluorescein isothiocyanate</td>
</tr>
<tr>
<td>FT</td>
<td>Fourier transform</td>
</tr>
<tr>
<td>FT-ICR</td>
<td>Fourier transform-ion cyclotron resonance</td>
</tr>
<tr>
<td>GC</td>
<td>gas chromatography</td>
</tr>
<tr>
<td>GIF</td>
<td>graphic interchange format</td>
</tr>
<tr>
<td>GRAVY</td>
<td>grand average hydrophobicity</td>
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<tr>
<td>GSH</td>
<td>glutathione</td>
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<tr>
<td>GST</td>
<td>glutathione-S-transferase</td>
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<tr>
<td>HE</td>
<td>hematoxylin and eosin</td>
</tr>
<tr>
<td>HEPES</td>
<td>N-(2-hydroxyethyl)piperazine-2’-(2-ethanesulphonic acid)</td>
</tr>
<tr>
<td>HPCE</td>
<td>high-performance capillary electrophoresis</td>
</tr>
<tr>
<td>HPLC</td>
<td>high-performance liquid chromatography</td>
</tr>
<tr>
<td>HRP</td>
<td>horseradish peroxidase</td>
</tr>
<tr>
<td>HSA</td>
<td>human serum albumin</td>
</tr>
<tr>
<td>HSP</td>
<td>heat shock protein</td>
</tr>
<tr>
<td>HTML</td>
<td>hypertext mark-up language</td>
</tr>
<tr>
<td>HUPO</td>
<td>Human Proteome Organisation</td>
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<tr>
<td>HVR</td>
<td>hypervariable region</td>
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<tr>
<td>ICAT</td>
<td>isotop-coded affinity tag</td>
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<tr>
<td>ICR</td>
<td>ion cyclotron resonance</td>
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<tr>
<td>id</td>
<td>inside diameter</td>
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<tr>
<td>IEF</td>
<td>isoelectric focusing</td>
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<tr>
<td>Ig</td>
<td>immunoglobulin</td>
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<tr>
<td>IMAC</td>
<td>immobilized metal affinity capture</td>
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<tr>
<td>IPG</td>
<td>immobilized pH gradient</td>
</tr>
<tr>
<td>IT</td>
<td>ion trap</td>
</tr>
<tr>
<td>iTRAQ</td>
<td>isobaric tag for relative and absolute quantitation</td>
</tr>
<tr>
<td>kbp</td>
<td>kilobase pairs</td>
</tr>
<tr>
<td>kDa</td>
<td>kilodalton (molecular mass)</td>
</tr>
<tr>
<td>LC</td>
<td>liquid chromatography</td>
</tr>
<tr>
<td>LED</td>
<td>light-emitting diode</td>
</tr>
<tr>
<td>LOD</td>
<td>limit of detection</td>
</tr>
<tr>
<td>LOQ</td>
<td>limit of quantitation</td>
</tr>
<tr>
<td>mAb</td>
<td>monoclonal antibody</td>
</tr>
<tr>
<td>MALDI-MS</td>
<td>matrix-assisted laser-desorption ionization-mass spectrometry</td>
</tr>
<tr>
<td>Mb</td>
<td>megabase</td>
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<tr>
<td>MEKC</td>
<td>micellar electrokinetic capillary chromatography</td>
</tr>
<tr>
<td>MES</td>
<td>2-(N-morpholino)ethanesulphonic acid</td>
</tr>
<tr>
<td>MHC</td>
<td>major histocompatibility complex</td>
</tr>
<tr>
<td>MOPS</td>
<td>3-(N-morpholino)propanesulphonic acid</td>
</tr>
<tr>
<td>Mr</td>
<td>relative molecular mass (dimensionless)</td>
</tr>
<tr>
<td>MS</td>
<td>mass spectrometry</td>
</tr>
<tr>
<td>MS/MS</td>
<td>tandem mass spectrometry</td>
</tr>
<tr>
<td>MTT</td>
<td>3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide</td>
</tr>
<tr>
<td>m/z</td>
<td>mass-to-charge ratio</td>
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<tr>
<td>NC</td>
<td>nitrocellulose</td>
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<tr>
<td>NEPHGE</td>
<td>nonequilibrium pH gradient electrophoresis</td>
</tr>
<tr>
<td>NMR</td>
<td>nuclear magnetic resonance</td>
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<tr>
<td>NP-40</td>
<td>Nonidet P-40</td>
</tr>
<tr>
<td>OD</td>
<td>outside diameter</td>
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<tr>
<td>OD</td>
<td>optical density</td>
</tr>
<tr>
<td>OFAGE</td>
<td>orthogonal field alternation gel electrophoresis</td>
</tr>
<tr>
<td>ORF</td>
<td>open reading frame</td>
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<tr>
<td>PAGE</td>
<td>polyacrylamide gel electrophoresis</td>
</tr>
<tr>
<td>PBS</td>
<td>phosphate-buffered saline</td>
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</tbody>
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PCR polymerase chain reaction
PDMS polydimethylsiloxane
PED pulsed electrochemical detection PEG polyethylene glycol
PFGE pulsed-field gel electrophoresis
PFU plaque-forming units
pI isoelectric point
PMF peptide mass fingerprinting
PMS phenazine methosulphate
PMSF phenylmethylsulphonyl fluoride
PMT photomultiplier tube
PSD post-source decay
PTFE polytetrafluoroethylene
PTH phenylthiohydantoin
PTM post-translational modification
PVA polyvinyl alcohol
PVDF polyvinylidene difluoride
PVP polyvinylpyrrolidone
Q-TOF quadrupole time-of-flight
RACE rapid amplification of cDNA ends
RFLP restriction fragment length polymorphism
RIA radioimmunoassay
ROS reactive oxygen species
RP reversed phase
rpm revolutions per minute
RSD relative standard deviation
RT-PCR reverse transcriptase-PCR
SAGE serial analysis of gene expression
SD standard deviation
SDS sodium dodecyl sulphate
SEC size-exclusion chromatography
SELDI surface-enhanced laser desorption/ionization
SEM standard error of the mean
SIM selected ion monitoring
S/N signal-to-noise ratio
SPE solid-phase extraction
SPR surface plasmon resonants
SSCP single-strand conformation polymorphism
ssDNA single-stranded DNA
SSP sample spot number
STR short tandem repeat
%T total gel concentration (acrylamide plus cross-linking agent; g/100 mL)
TBS Tris-buffered saline
TCA trichloroacetic acid
TEMED N,N',N',N'-tetramethylethylenediamine
TFA trifluoroacetic acid
THF tetrahydrofuran
TIC total ion current
TLC thin-layer chromatography
TNF tumour necrosis factor
TOF time of flight
Tris tris(hydroxymethyl)aminomethane
TRITC tetramethylrhodamine isothiocyanate
URL uniform resource locator
UTR untranslated region
UV ultraviolet
Vh volt × hours
z ion charge
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