TABLE OF CONTENTS

- Description ........................................ p.1
- Audience ........................................... p.1
- Impact Factor ...................................... p.1
- Abstracting and Indexing ....................... p.2
- Editorial Board .................................... p.2
- Guide for Authors ................................ p.5

DESCRIPTION

*Journal of Proteomics* is aimed at protein scientists and analytical chemists in the field of proteomics, biomarker discovery, protein analytics, plant proteomics, microbial and animal proteomics, human studies, tissue imaging by mass spectrometry, non-conventional and non-model organism proteomics, and protein bioinformatics. The journal welcomes papers in new and upcoming areas such as metabolomics, genomics, systems biology, toxicogenomics, pharmacoproteomics.

*Journal of Proteomics* unifies both fundamental scientists and clinicians, and includes translational research. Suggestions for reviews, webinars and thematic issues are welcome. All manuscripts are strictly peer reviewed and conform the highest ethical standards. *Journal of Proteomics* is an official journal of the [European Proteomics Association (EuPA)](https://www.eu-pa.org) and also publishes official EuPA reports and participates in the [International Proteomics Tutorial Programme](https://www.hupo.org) with HUPO and other partners.

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Academic and industrial researchers in the fields of proteomics, analytical chemistry, biochemistry, biology, medicine, bioinformatics, protein science, biotechnology and applied physics.

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3) This initial independent validation and performance assessment has to be performed in samples that reflect the typical clinical situation depending on the targeted context of use.
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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 Ν,Ν′-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
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
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<tbody>
<tr>
<td>CHCA α-cyano-4-hydroxycinnamic acid</td>
<td>Collision-induced dissociation</td>
</tr>
<tr>
<td>CHES 2-(N-cyclohexylamino)ethanesulphonic acid</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>Con A Concanavalin A</td>
<td>Central nervous system</td>
</tr>
<tr>
<td>cpm counts per minute</td>
<td>Collision-induced dissociation</td>
</tr>
<tr>
<td>CTAB etyltrimethylammonium bromide</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>CID collision-induced dissociation</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>CIEF capillary isoelectric focusing</td>
<td>Critical micelle concentration</td>
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<tr>
<td>CMC critical micelle concentration</td>
<td>Central nervous system</td>
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<tr>
<td>CNS central nervous system</td>
<td>Critical micelle concentration</td>
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<tr>
<td>CIEF capillary isoelectric focusing</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>CIEF capillary isoelectric focusing</td>
<td>Critical micelle concentration</td>
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<tr>
<td>Do dalton (molecular mass)</td>
<td>Critical micelle concentration</td>
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<td>2-DE two-dimensional electrophoresis</td>
<td>Critical micelle concentration</td>
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<td>DIGE fluorescence difference gel electrophoresis</td>
<td>Critical micelle concentration</td>
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<tr>
<td>DGGE denaturing gradient gel electrophoresis</td>
<td>Critical micelle concentration</td>
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<td>DMEM Dulbecco's modified Eagle medium</td>
<td>Critical micelle concentration</td>
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<td>DMF N,N-dimethylformamide</td>
<td>Critical micelle concentration</td>
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<td>DMSO dimethyl sulphoxide</td>
<td>Critical micelle concentration</td>
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<td>DOC sodium deoxycholate</td>
<td>Critical micelle concentration</td>
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<tr>
<td>dsDNA double-stranded DNA</td>
<td>Critical micelle concentration</td>
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<tr>
<td>DTT dithiothreitol</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>ECL enhanced chemiluminescence</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>EDTA ethylenediaminetetraacetic acid</td>
<td>Critical micelle concentration</td>
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<tr>
<td>EEO electroendosmosis</td>
<td>Critical micelle concentration</td>
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<tr>
<td>EGTA ethylene glycol-bis(β-aminoothylether)-N,N,N',N'-tetraacetic acid</td>
<td>Critical micelle concentration</td>
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<td>EKC electrokinetic chromatography</td>
<td>Critical micelle concentration</td>
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<td>ELISA enzyme-linked immunosorbt assay</td>
<td>Critical micelle concentration</td>
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<td>EMSA electrophoretic mobility shift assay</td>
<td>Critical micelle concentration</td>
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<tr>
<td>EOF electroosmotic flow</td>
<td>Critical micelle concentration</td>
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<tr>
<td>ER endoplasmic reticulum</td>
<td>Critical micelle concentration</td>
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<tr>
<td>ESI electrospray ionization</td>
<td>Critical micelle concentration</td>
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<tr>
<td>EST expressed sequence tag</td>
<td>Critical micelle concentration</td>
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<tr>
<td>EUPA European Proteome Association</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>FAB fast atom bombardment</td>
<td>Critical micelle concentration</td>
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<tr>
<td>FACS fluorescence activated cell sorting</td>
<td>Critical micelle concentration</td>
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<tr>
<td>FBS fetal bovine serum</td>
<td>Critical micelle concentration</td>
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<tr>
<td>FCS fetal calf serum</td>
<td>Critical micelle concentration</td>
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<tr>
<td>FIGE field inversion gel electrophoresis</td>
<td>Critical micelle concentration</td>
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<tr>
<td>FITC fluorescein isothiocyanate</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>FT Fourier transform</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>FT-ICR Fourier transform-ion cyclotron resonance</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>GC gas chromatography</td>
<td>Critical micelle concentration</td>
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<tr>
<td>GIF graphic interchange format</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>GRAVY grand average hydrophobicity</td>
<td>Critical micelle concentration</td>
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<tr>
<td>GSH glutathione</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>GST glutathione-S-transferase</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>HE hematoxylin and eosin</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>HEPES N-(2-hydroxyethyl)piperazine-2'-(2-ethanesulphonic acid)</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>HPCE high-performance capillary electrophoresis</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>HPLC high-performance liquid chromatography</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>HRP horseradish peroxidase</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>HSA human serum albumin</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>HSP heat shock protein</td>
<td>Critical micelle concentration</td>
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<tr>
<td>HTML hypertext mark-up language</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>HUPO Human Proteome Organisation</td>
<td>Critical micelle concentration</td>
</tr>
<tr>
<td>HVR hypervariable region</td>
<td>Critical micelle concentration</td>
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<tr>
<td>ICAT isotop-coded affinity tag</td>
<td>Critical micelle concentration</td>
</tr>
</tbody>
</table>
ICR ion cyclotron resonance
id inside diameter
IEF isoelectric focusing
Ig immunoglobulin
IMAC immobilized metal affinity capture
IPG immobilized pH gradient
IT ion trap
iTRAQ isobaric tag for relative and absolute quantitation
kbp kilobase pairs
kDa kilodalton (molecular mass)
LC liquid chromatography
LED light-emitting diode
LOD limit of detection
LOQ limit of quantitation
mAb monoclonal antibody
MALDI-MS matrix-assisted laser-desorption ionization-mass spectrometry
Mbp megabase
MEKC micellar electrokinetic capillary chromatography
MES 2-(N-morpholino)ethanesulphonic acid
MHC major histocompatibility complex
MOPS 3-(N-morpholino)propanesulphonic acid
$M_r$ relative molecular mass (dimensionless)
MS mass spectrometry
MS/MS tandem mass spectrometry
MTT 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide
$m/z$ mass-to-charge ratio
NC nitrocellulose NEPHGE nonequilibrium pH gradient electrophoresis
NMR nuclear magnetic resonance
NP-40 Nonidet P-40
od outside diameter
OD optical density
OFAGE orthogonal field alternation gel electrophoresis
ORF open reading frame
PAGE polyacrylamide gel electrophoresis
PBS phosphate-buffered saline
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 $N,N',N'$-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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