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) and also publishes official EuPA reports and participates in the International Proteomics Tutorial Programme with HUPO and other partners.

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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)dimethylamonio]-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 etyltrimethylammonium 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 dithioerithiol
DTT dithiothreitol
ECL enhanced chemiluminescence
EDTA ethylenediaminetetraacetic acid
EEO electroendosmosis
EGTA ethyleneglycol-bis(β-aminoethylether)-N,N',N'-tetraacetic acid
EKC electrophoresis
ELISA enzyme-linked immunosorbent assay
EMSA electrophoretic mobility shift assay
EOF electroosmotic flow
ER endoplasmic reticulum
ESI electrospray ionization
EST expressed sequence tag
EUPA European Proteome Association
FAB fast atom bombardment
FACS fluorescence activated cell sorting
FBS fetal bovine serum
FCS fetal calf serum
FIGE field inversion gel electrophoresis
FITC fluorescein isothiocyanate
FT Fourier transform
FT-ICR Fourier transform-ion cyclotron resonance
GC gas chromatography
GIF graphic interchange format
GRAVY grand average hydrophobicity
GSH glutathione
GST glutathione-S-transferase
HE hematoxylin and eosin
HEPES N-(2-hydroxyethyl)piperazine-2'-(2-ethanesulphonic acid)
HPCE high-performance capillary electrophoresis
HPLC high-performance liquid chromatography
HRP horseradish peroxidase
HSA human serum albumin
HSP heat shock protein
HTML hypertext mark-up language
HUPO Human Proteome Organisation
HVR hypervariable region
ICAT isotop-coded affinity tag
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)ethanesulfonic acid
MHC major histocompatibility complex
MOPS 3-(N-morpholino)propanesulfonic acid
Mr 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',N’-tetramethylethlenediamine

TFA trifluoroacetic acid

THF tetrahydrofuran

TIC total ion current

TLC thin-layer chromatography

TNF tumour necrosis factor