**JOURNAL OF PROTEOMICS**
An official journal of the European Proteomics Association (EuPA)

**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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The journal’s open access companion title, *EuPA Open Proteomics*, welcomes full papers, reviews, mini-reviews, short communications, perspectives, opinions, comments and book reviews.

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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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The following types of paper are published:

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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 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 ethylene glycol-bis(β-aminoethylether)-N,N,N',N'-tetraacetic acid
EKC electrophoretic chromatography
ELISA enzyme-linked immunosorbet 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)ethanesulphonic acid
MHC major histocompatibility complex
MOPS 3-(N-morpholino)propanesulphonic 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 NPEGe 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'-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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