

表 1 これまでに報告されたプロテオミクスに関する主な応用研究例（技術的な開発に関するものは除いた）

gene-product mapping	Mycoplasma genitalium	Wasinger et al	Electrophoresis. 1995
		Wasinger et al	Eur J Biochem. 2000
		Balasubramanian et al	Nucleic Acids Res. 2000
		Langen et al	Electrophoresis. 1997
	Haemophilus influenzae	Link et al	Electrophoresis. 1997
		Fountoulakis et al	Electrophoresis. 1998
		Bini et al	Electrophoresis. 1997
		kaji et al	Electrophoresis. 2000
	Caenorhabditis elegans	Mawuenyega	J Proteome Res. 2003
		Madi et al	Electrophoresis. 2003
		Payne et al	Nucleic Acids Res. 1997
		Fey et al	Electrophoresis. 1997
	Saccharomyces cerevisiae	Garrels et al	Electrophoresis. 1997
		Yan et al	Electrophoresis. 1999
		Washburn et al	Nat Biotechnol. 2001
		Celis et al	FEBS Lett. 1996
	Human cells	Wimmer et al	Electrophoresis. 1996
		Ostergaard et al	Cancer Res. 1997
		Celis et al	Electrophoresis. 1999
		O'Connor et al	Electrophoresis. 1997
	neuroblastoma cells	Cordwell et al	Electrophoresis. 1997
		Urquhart et al	Electrophoresis. 1997
		Jungblut et al	Mol Microbiol. 1999
		Jungblut et al	Infect Immun. 2001
	bladder squamous cell carcinomas	Mattow et al	Proteomics. 2001
		Wasinger et al	Electrophoresis. 1997
		Wasinger et al	Electrophoresis. 1999
		Link et al	Electrophoresis. 1997
	Salmonella enterica	VanBogelen et al	Electrophoresis. 1997
		Tonella et al	Electrophoresis. 1998
		Thomas	Bioinformatics. 1999
		Sazuka et al	Electrophoresis. 1997
	Spiroplasma melliferum	Sazuka et al	Electrophoresis. 1999
		Wang et al	Electrophoresis. 2000
		Simon et al	Proteomics. 2002
		McAtee et al	Helicobacter. 1998
	Mycobacterium tuberculosis	Jungblut et al	Mol Microbiol. 2000
		Lock et al	Pathology. 2001
		Cho et al	Electrophoresis. 2002
		Rabilloud et al	Electrophoresis. 1998
	Ochrobactrum anthropi	Witzmann et al	Electrophoresis. 1998
		Hubbard	Electrophoresis. 1998
		Guerreiro et al	Electrophoresis. 1999
		Kristensen et al	Exp Dermatol. 1999
	Escherichia coli	Shetty et al	Biol Reprod. 1999
		Costa et al	Electrophoresis. 1999
		Stark et al	Eur J Biochem. 1999
		Page et al	Proc Natl Acad Sci U S A. 1999
	Cyanobacterium Synechocystis	Lehmborg et al	J Chromatogr B Biomed Sci Appl. 1999
		Tsugita et al	Electrophoresis. 2000
		Seow et al	Electrophoresis. 2000
		Ou et al	Electrophoresis. 2001
	Helicobacter pylori	Simpson et al	Electrophoresis. 2000
		Joubert-Caron et al	Electrophoresis. 2000
		Anglade et al	Electrophoresis. 2000
		Koc et al	J Biol Chem. 2000
	human mitochondrial proteome	Kristensen et al	Hepatology. 2000
	rat kidney		
	rat enamel cells		
	Sinorhizobium meliloti		
	rat dermal papilla		
	Human sperm proteome		
	xylem maritime pine		
	human bile		
	human myoepithelial breast cells		
	adenovirus type 5		
	mouse brain		
	human hepatocellular carcinoma cells		
	human colon carcinoma cells		
	human lymphoblastoid cells		
	Lactococcus lactis		
	mitochondrial small subunit ribosomal proteins		
	rat hepatic stellate cells		

human senescent fibroblasts	Dierick et al	Ann N Y Acad Sci. 2000
human Jurkat T-cells	Thiede et al	Electrophoresis. 2000
Lactobacillus delbrueckii	Rechinger et al	Electrophoresis. 2000
Mycoplasma pneumoniae	Regula et al	Electrophoresis. 2000
murine B-lymphocytes	Frey et al	Electrophoresis. 2000
Bacillus subtilis	Jurgen et al	Appl Microbiol Biotechnol. 2001
	Buttner et al	Electrophoresis. 2001
	Eymann	J Bacteriol. 2002
Burkitt lymphoma cell line	Poirier et al	Electrophoresis. 2001
maize leaves	Porubleva et al	Electrophoresis. 2001
Corynebacterium glutamicum	Hermann et al	Electrophoresis. 2001
Toxoplasma gondii	Dlugonska	Parasitol Res. 2001
	Cohen et al	Int J Parasitol. 2002
dental tissues	Hubbard et al	Proteomics. 2001
rat skeletal muscle proteins	Yan et al	Proteomics. 2001
translated polypeptides from cDNA library	Lefkovits et al	Proteomics. 2001
Drosophila melanogaster	Roos et al	J Biol Chem. 2002
	Vierstraete et al	Biochem Biophys Res Commun. 2003
malaria genome	Carlton et al	Mol Biochem Parasitol. 2001
human primary T helper ce	Nyman et al	Electrophoresis. 2001
mouse cerebellum proteome	Beranova-Giorgianni et al	Brain Res Mol Brain Res. 2002
rat polymorphonuclear leukocytes	Piubelli et al	Electrophoresis. 2002
human breast cancer cell line	Harris et al	Proteomics. 2002
mouse brain proteome	Klose et al	Nat Genet. 2002
human pituitary	Beranova-Giorgianni et al	Proteomics. 2002
rat hippocampal neurons	Oguri et al	Proteomics. 2002
human stomach tissue	Ha et al	Electrophoresis. 2002
Pseudomonas aeruginosa	Nouwens et al	Proteomics. 2002
Plasmodium falciparum	Lasonder et al	Nature. 2002
human temporal cortex lobes	Chen et al	Neurochem Res. 2002
Brucella melitensis	Mujer et al	Ann N Y Acad Sci. 2002
human fetal brain	Fountoulakis et al	Proteomics. 2002
Arabidopsis thaliana	Carpi et al	Proteomics. 2002
human Reed-Steinberg cell	Brown and Nazmi	Ann Clin Lab Sci. 2002
Methanococcus jannaschii	Giometti et al	J Chromatogr B Anal Tech Biomed Life Sci. 200
rat brain tissue	Carboni et al	Electrophoresis. 2002
human retinal pigment epithelium	West et al	Mol Cell Proteomics. 2003
Rice proteomics	Komatsu et al	Mol Cell Proteomics. 2003
human heart mitochondrial proteome	Taylor et al	Nat Biotechnol. 2003
Lactococcus lactis	Guillot et al	Proteomics. 2003
Wheat proteomics	Islam et al	Proteomics. 2003
adenovirus type 5 proteome	Chelius et al	J Proteome Res. 2002
human umbilical vein endothelial cells	Bruneet et al	Proteomics. 2003
neural stem cells from adult rat hippocampus	Maurer et al	Proteome Sci. 2003
rat auditory brainstem	Nothwang et al	Brain Res Mol Brain Res. 2003
Proteomes of human cell lines	Schirle et al	Mol Cell Proteomics. 2003
rat brain postsynaptic density	Li et al	J Biol Chem. 2004
human pituitary proteome	Desiderio and Zhan	Cell Mol Biol (Noisy-le-grand). 2003
rat liver peroxisome	Kikuchi et al	J Biol Chem. 2004
Proteome analysis of rice tissues	Tanaka et al	Mol Genet Genomics. 2004
rat pancreatic acinar cells	Yu et al	Proteomics. 2003
human pancreas	Hu et al	Electrophoresis. 2004
biomarkers expressed by human pluripotent stem cells	Hayman et al	Biochem Biophys Res Commun. 2004
Targeted/focused proteomi	Morel et al	Electrophoresis. 2000
rhodopsin-bearing post-Golgi compartment	Journet et al	Electrophoresis. 2000
monocytic lysosomal proteins	Karlberg et al	Yeast. 2000
mitochondrial proteome	Lopez et al	Electrophoresis. 2000
	Hanson et al	Electrophoresis. 2001

Proteasomal proteomics	Verma et al	Mol Biol Cell. 2000
renal tubule Na ⁺ transporter	Brooks et al	J Physiol. 2001
phagosome proteome	Garin et al	J Cell Biol. 2001
trans-Golgi proteins	Wu et al	Traffic. 2000
Glycoprotein identification	Hanisch et al	Anal Biochem. 2001
nolR-regulated proteins	Chen et al	Electrophoresis. 2000
membrane subproteome	Nouwens et al	Electrophoresis. 2000
cell wall proteins of tobacco cells	Blee et al	Planta. 2001
urinary protein profiles	Hampel	J Am Soc Nephrol. 2001
GTPase signaling networks	Alton	Methods Enzymol. 2001
mammalian mitochondrial ribosome	Koc et al	Protein Sci. 2001
dendritic cell-derived exosomes	Thery et al	J Immunol. 2001
nucleoporin interacting proteins	Allen et al	J Biol Chem. 2001
brain proteins induced by kainic acid	Krapfenbauer et al	Eur J Biochem. 2001
Arabidopsis thaliana pollen coat	Mayfield et al	Science. 2001
colostral fat globule membrane	Quaranta et al	Electrophoresis. 2001
bacterial outer membrane proteins	Molloy et al	Electrophoresis. 2001
Chlamydia pneumoniae elementary body	Vandahl et al	Electrophoresis. 2001
Cell wall-active antibiotic induced proteins	Singh et al	FEMS Microbiol Lett. 2001
novel nuclear protein	Choong et al	FEBS Lett. 2001
subnuclear compartments	Rout and Field	Biol Chem. 2001
cell envelope of Trichoderma reesei	Lim et al	Proteomics. 2001
human sperm surface proteins	Shetty et al	Electrophoresis. 2001
peroxisomal membrane proteins of yeast	Schafer et al	Electrophoresis. 2001
inner nuclear membrane proteins	Dreger et al	Proc Natl Acad Sci U S A. 2001
Extracellular proteins of Staphylococcus aureus	Ziebandt et al	Proteomics. 2001
chloroplast lumen of Arabidopsis thaliana	Schubert et al	J Biol Chem. 2002
immunogenic proteins of Helicobacter pylori	Utt et al	J Immunol Methods. 2002
aniline-induced proteins in Acinetobacter lwoffii	Kim et al	Curr Microbiol. 2002
rat spermatogonia	Guillaume et al	Mol Reprod Dev. 2001
Arabidopsis mitochondrial proteome	Millar et al	Plant Physiol. 2001
	Kruft et al	Plant Physiol. 2001
Lens proteomics	Lampi et al	Invest Ophthalmol Vis Sci. 2002
	Ueda	Invest Ophthalmol Vis Sci. 2002
brain of fetal Down syndrome	Toda	Ann N Y Acad Sci. 2001
protein alterations in aging	Le Naour et al	J Biol Chem. 2001
differentiation and maturation of dendritic cells	Colello et al	Electrophoresis. 2002
oligodendrocyte-associated proteins	Bestel-Corre et al	Electrophoresis. 2002
symbiosis-related proteins	Charlwood et al	Anal Biochem. 2002
human milk fat globular membrane proteins	Hughes et al	Infect Immun. 2002
outer surface proteins of Streptococcus agalactiae	Woo et al	Electrophoresis. 2002
embryo proteins in rice	Maltman et al	Electrophoresis. 2002
ER from developing and germinating seed of castor	O'Neill et al	Proteomics. 2002
platelet proteome	Shimizu et al	J Bacteriol. 2002
Clostridium perfringens	Becamel et al	EMBO J. 2002
Synaptic multiprotein complexes	Park et al	Hepatology. 2002
tissue ferritin light chain in hepatocellular carcinoma	Sabarth et al	J Biol Chem. 2002
surface proteins of Helicobacter pylori	Bumann et al	Infect Immun. 2002
secreted proteins of Helicobacter pylori	Gallardo et al	Plant Physiol. 2002
Arabidopsis seed germination	Rappsilber et al	Genome Res. 2002
human spliceosome	Cronshaw et al	J Cell Biol. 2002
mammalian nuclear pore complex	Journet et al	Proteomics. 2002
human lysosomes	Schutt et al	FEBS Lett. 2002
human lipofuscin	Lim and Bodnar	Proteomics. 2002
conditioned medium of feeder layers for ES cells	Andon et al	Proteomics. 2002
wheat amyloplasts	Yamaguchi et al	Plant Cell. 2002
Chlamydomonas reinhardtii chloroplast ribosome	van Greevenbroek et al	J Lipid Res. 2002
protein secretion by HepG2 cells	Scherl et al	Mol Biol Cell. 2002
human nucleolus		

	secreted muscle components	Gajendran et al	Proteomics. 2002
	Xenopus laevis neuroendocrine cells	Devreese et al	J Chromatogr A. 2002
	human CSF proteins	Davidsson et al	Brain Res Mol Brain Res. 2002
	nuclear proteome	Dellaire et al	Nucleic Acids Res. 2003
	human B cell-derived exosomes	Wubbolts et al	J Biol Chem. 2003
	Candida albicans cell wall proteome	Pitarch et al	Mol Cell Proteomics. 2002
	differentiation of human bone marrow stromal cells	Andersen et al	J Bone Miner Res. 2003
	cerebral cortex from MK-801-treated rats	Paulson et al	J Neurosci Res. 2003
	human mitochondrial proteome	Lescuyer et al	Proteomics. 2003
	calmodulin-binding proteins	O'Day	Cell Signal. 2003
	divalent metal cation binding proteins	Herald et al	FEBS Lett. 2003
	rat kidney cortex following treatment with gentamicin	Charlwood et al	J Proteome Res. 2002
	apoptotic thymus maturation	Kawakami et al	J Chromatogr B Anal Tech Biomed Life Sci. 200
	EB virus-transformed B-lymphoblasts	Toda and Sugimoto	J Chromatogr B Anal Tech Biomed Life Sci. 200
	plasma membrane of plant roots	Santoni et al	Biochem J. 2003
	mouse astrocytic secretion and CSF	Lafon-Cazal	J Biol Chem. 2003
	secreted prostatic factors	Andersen et al	Eur J Cancer. 2003
	secreted proteins during osteoclast differentiation	Kubota et al	Proteomics. 2003
	human prostasomes	Utleg et al	Prostate. 2003
	human Nop56p-associated pre-ribosomal ribonucleoprotein comple	Hayano et al	J Biol Chem. 2003
	mammalian selenoproteomes	Kryukov et al	Science. 2003
	rat cerebrospinal fluid	Gianazza et al	Biochem J. 2003
	rat spermatogonial proteome	Com et al	Mol Cell Proteomics. 2003
	chromodomain-containing proteins	Tajul-Arifin et al	Genome Res. 2003
	mouse secretome	Grimmond et al	Genome Res. 2003
	dermal fibroblasts from human of different ages	Boraldi et al	Proteomics. 2003
	membrane proteins of lymphoma-derived cell line	Poirier et al	Proteomics. 2003
	human vessels	Duran et al	Proteomics. 2003
	mouse liver mitochondrial inner membrane	Da Cruz et al	J Biol Chem. 2003
	human laryngeal muscle protein	Li et al	Proteomics. 2003
	rat heart in ischemia and ischemia-reperfusion	Sakai et al	Proteomics. 2003
	conditioned medium from cultured hippocampal progenitors	Dah et al	Rapid Commun Mass Spectrom. 2003
	rat cornea during angiogenesis	Thompson et al	Proteomics. 2003
	hepatocellular carcinoma metastasis	Ding et al	Mol Cell Proteomics. 2004
	human mesencephalic tissues of PD	Basso et al	Neurol Sci. 2003
	cerebral cortex of fetus with Down syndrome	Engidawork et al	Neuroscience. 2003
	post mortem changes in the mouse brain	Franzen et al	Proteomics. 2003
	liver proteome in senescence accelerated mice	Cho et al	Proteomics. 2003
	redox regulation of surface protein thiols	Laragione et al	Proc Natl Acad Sci U S A. 2003
	rat plasma exposed to dioxin	Son et al	Proteomics. 2003
	targets of oxidative stress in human epithelial lens cells	Paron et al	Biochem J. 2004
	glial cells treated by radiation or hydroperoxide	Miura et al	Biol Sci Space. 2003
	oxidative stress-resistant cells	Keightley et al	Mol Cell Proteomics. 2004
	rat brain proteins after desflurane anesthesia	Futterer et al	Anesthesiology. 2004
	human T helper 1 and 2 cells	Rautajoki et al	Proteomics. 2004
	rat hippocampus after chronic antidepressant treatment	Khawaja et al	J Neurosci Res. 2004
Drug discovery	melanosomal proteins	Basrur et al	J Proteome Res. 2003
	Anticancer drugs	Kovarova et al	Electrophoresis. 2000
	targeting neuropeptides in the brain	Skold et al	Proteomics. 2002
	targets of quinoline drugs in purine binding proteome	Graves et al	Mol Pharmacol. 2002
	protozoan parasite leishmania	Drummelsmith et al	Mol Cell Proteomics. 2003
	cell cycle-related drug targets	Flory and Aebersold	Prog Cell Cycle Res. 2003
	discovery of drugs targetting mitochondrial oxidative damage	Gibson	Sci Aging Knowledge Env. 2004
Probing protein functions	combination of gene knockout	Dainese et al	Electrophoresis. 1997
	myb-like protein	Denis et al	Mol Microbiol. 1998
	ATPases	Goffeau	Acta Physiol Scand Suppl. 1998
	protein phosphatase 1-binding proteins	Damer et al	J Biol Chem. 1998

	apoptosis-associated protein	Brockstedt et al	J Protein Chem. 1999
	heat shock proteins	Munchbach et al	Eur J Biochem. 1999
	protein phosphatase 1	Alms et al	EMBO J. 1999
	adenomatous polyposis coli gene-mutant	Minowa et al	Electrophoresis. 2000
	p53-null mice	Cole et al	Electrophoresis. 2000
	lovastatin-induced protein	Steiner et al	Electrophoresis. 2000
	proteases in colorectal carcinoma	McKerrow et al	Mol Med. 2000
	Saccharomyces cerevisiae cell wall biogenesis	Pardo et al	Electrophoresis. 2000
	protein kinase C epsilon signaling complexes	Ping et al	Circ Res. 2001
	MAP kinase pathway signaling	Lewis et al	Mol Cell. 2000
	replicon and luteolin interactions	Chen et al	Electrophoresis. 2000
	serine hydrolase	Kidd et al	Biochemistry. 2001
	tropomyosin-5b and maspin	Zucchi et al	Proc Natl Acad Sci U S A. 2001
	sodium transporters in kidney	Knepper and Brooks	Curr Opin Nephrol Hypertens. 2001
	srhSR gene pair of Staphylococcus aureus	Throup et al	Biochemistry. 2001
	phosphorylation of Cu/Zn SOD	Csar et al	Proteomics. 2001
	rat activin subunits betaC and betaE	Vejda et al	J Mol Endocrinol. 2002
	Myc oncoprotein function	Shiio et al	EMBO J. 2002
	heterogeneous nuclear ribonucleoproteins	Gagne et al	Biochem J. 2003
	protein kinase C signaling system	Pass et al	Methods Mol Biol. 2003
	14-3-3zeta as a MAP kinase-activated PK2 substrate	Powell et al	Mol Cell Biol. 2003
	analysis of ubiquitin-proteasome effects	Jin et al	Oncogene. 2003
	peribosomal ribonucleoprotein complexes	Takahashi et al	Mass Spectrom Rev. 2003
	identification of modulators regulated by the E7 oncogene	Lee et al	Proteomics. 2004
Cell response	Osmoresponsive proteins	Blomberg et al	Electrophoresis. 1997
	cyclosporine A nephrotoxicity	Aicher et al	Electrophoresis. 1998
	Interferon gamma regulates	Aboagye-Mathiesen et al	Electrophoresis. 1999
	peroxisome proliferator on hepatocytes	Edvardsson et al	Electrophoresis. 1999
	environmental signals in Salmonella typhimurium.	Deiwick et al	Electrophoresis. 1999
	inversion stimulation	Choe et al	Electrophoresis. 1999
	low temperature	Kaufmann et al	Biotechnol Bioeng. 1999
	Calcium-dependent secretion	Boussac et al	Electrophoresis. 2000
	immortalization of human B-lymphoblastoid cell	Toda et al	Electrophoresis. 2000
	interferon-alpha-regulated genes	Nyman	Eur J Biochem. 2000
	EGF, TNF-alpha and nafenopin on hepatocytes	Chevalier et al	Eur J Biochem. 2000
	Fas-induced apoptosis	Gerner et al	J Biol Chem. 2000
	cadmium response	Vido et al	J Biol Chem. 2001
	in-vitro aging	Toda et al	Exp Gerontol. 2000
	lipid secretory mechanisms	Wu et al	Electrophoresis. 2000
	heat shock	Zuber et al	J Bacteriol. 2001
		Rosen et al	J Bacteriol. 2002
		Kim et al	J Biol Chem. 2002
	Rosen et al	J Bacteriol. 2002	Exp Cell Res. 2001
	glucose repression in Bacillus subtilis	Yoshida et al	Nucleic Acids Res. 2001
	phagocytosis	Monahan et al	Microbiology. 2001
	light-induced proteins	Choi et al	Mol Cells. 2000
	cellular responses to toxic compounds	Moller et al	Toxicology. 2001
	bacterial cell cycle	Grunenfelder et al	Proc Natl Acad Sci U S A. 2001
	Fas-induced apoptosis	Thiede et al	J Biol Chem. 2001
	IL-1 beta on rat islets of Langerhans	Larsen et al	Diabetes. 2001
	arabidopsis seed germination	Gallardo et al	Plant Physiol. 2001
	PC12 cells on PC12 cells	Huang et al	Brain Res Mol Brain Res. 2001
	myeloid differentiation program	Lian et al	Blood. 2001
	differentiation of mouse ES cells to neural cells	Guo et al	Electrophoresis. 2001
	apoptosis induced by all-trans retinoic acid	Wan et al	Electrophoresis. 2001
	thermoreistance in human gastric carcinoma cell	Sinha et al	Electrophoresis. 2001
	rat trigeminal ganglia during inflammation	Friso et al	Proteomics. 2001
	androgen-regulated genes	Waghray et al	Proteomics. 2001

oxidative stress in <i>Saccharomyces cerevisiae</i>	Prouzet-Mauleo et al	J Biol Chem. 2002
adaptation of <i>Acetobacter aceti</i> to high acetate concentrations	Steiner and Sauer	Appl Environ Microbiol. 2001
response of human fibroblasts to endothelin-1	Predic et al	Proteomics. 2002
differentiating rat RPE-J cells	West et al	Exp Eye Res. 2001
Myocardiac cell in low local blood flow	Laussmann et al	FASEB J. 2002
activation of neutrophil by ipopolysaccharide	Fessler et al	J Biol Chem. 2002
oxidative stress in <i>E coli</i>	Tang et al	Microbiology. 2002
leuX-encoded tRNA ⁵ (Leu) in <i>E coli</i>	Dobrindt et al	J Mol Microbiol Biotech. 2002
cytokine induced proteins in intestinal epithelial cells	Barcelo-Batllo et al	Proteomics. 2002
gene expression by calcium signalling	Jenkins et al	Proteomics. 2001
differentiation of preadipocytes to adipocytes	Kratchmarova et al	Mol Cell Proteomics. 2002
myocardial ischemia and reperfusion	Schwartz et al	Proteomics. 2002
neural tube closure in the mouse embryo	Greene et al	J Biol Chem. 2002
lipopolysaccharide-induced apoptosis	Huang et al	Proteomics. 2002
rice leaves during drought stress	Salekdeh et al	Proteomics. 2002
senescence in leaves of white clover	Wilson et al	Proteomics. 2002
TCDD upon I κ B and IKK in microsomes	Bruno et al	Arch Biochem Biophys. 2002
PPAR α -mediated responses in rodent liver	Chevalier et al	Curr Protein Pept Sci. 2000
rat hippocampus on intermittent hypoxia	Gozal et al	J Neurochem. 2002
human eosinophil activation	Levi-Schaffer et al	Proteomics. 2002
IL-1 β induced protein in islets of Langerhans	Sparre et al	Diabetologia. 2002
bacterial heat-shock response	Rosen and Ron	Mass Spectrom Rev. 2002
heat stress on hexaploid wheat grain	Majoul et al	Proteomics. 2003
disulfide stress in <i>Bacillus subtilis</i>	Leichert et al	J Bacteriol. 2003
radiation-induced protein alterations	Szkanderova et al	Folia Biol (Praha). 2003
Glutamine starvation of monocytes	Zellner et al	Biochim Biophys Acta. 2003
oxidative stress response to diesel exhaust particle chemicals	Xiao et al	J Biol Chem. 2003
antiestrogen resistance in breast cancer	Clarke et al	Oncogene. 2003
androgen-coregulated protein networks	Wright et al	Genome Biol. 2003
hyperoxia-induced responses	Vorum et al	Proteomics. 2004

Post-translational modification protein methylation

	Yan et al	Electrophoresis. 1999
	Wilkins et al	J Mol Biol. 1999
	Vener et al	J Biol Chem. 2001
	Huang et al	J Biochem (Tokyo). 2002
protein carbonylation	Reinheckel et al	Arch Biochem Biophys. 2000
	Oh-Ishi et al	Free Radic Biol Med. 2003
proteome phosphorylation	Yanagida et al	Electrophoresis. 2000
	Ficarro et al	J Biol Chem. 2003
in vivo degradation products of α B-crystallin	Colvis et al	Electrophoresis. 2000
Protein S-nitrosylation	Jaffrey et al	Nat Cell Biol. 2001
protein nitration	Aulak et al	Proc Natl Acad Sci U S A. 2001
protein glutathionylation	Fratelli et al	Proc Natl Acad Sci U S A. 2002
	Lind et al	Arch Biochem Biophys. 2002
phosphotyrosine proteome	Maguire et al	Proteomics. 2002
oxidatively modified proteins in Alzheimer's disease brain	Castegna et al	J Neurochem. 2002
protein ubiquitination	Peng et al	Nat Biotechnol. 2003
histone methylation in yeasts	Roguev et al	J Biol Chem. 2003
phosphorylation of ATP synthase	Hojlund et al	J Biol Chem. 2003
tryptophan oxidation	Taylor et al	J Biol Chem. 2003
keratan sulfate-glycanated thyroglobulin and transferrin	Magro et al	Am J Pathol. 2003
S-nitrosylated proteins in endothelial cells	Martinez-Ruiz and Lama	Arch Biochem Biophys. 2004

Toxicology

exposure of rats to JP-8 jet fuel vapor	Witzmann et al	Electrophoresis. 2000
bacterial pathogens	Jungblut	Microbes Infect. 2001
acetaminophen toxicity in mouse	Ruepp et al	Toxicol Sci. 2002
drug-mediated hepatotoxicity	Man et al	Proteomics. 2002
Proteomics of snake venoms	Nawarak et al	Electrophoresis. 2003

	Toxicoproteomics	Merrick and Tomer	Environ Health Perspect. 2003
Effect of gene manipulation	transfected with antisense EGF receptor glycogen synthase kinase-3 transgenic mice angiotensin II type 1a receptor knockout mice NAG7 transfection tau transgenic mice	Yu et al Tilleman et al Brooks et al Tan et al Tilleman et al	Electrophoresis. 2001 Proteomics. 2002 Hypertension. 2002 Proteomics. 2002 Proteomics. 2002
Disease markers	cardiac hypertrophy bladder cancer Alzheimer's disease Candida albicans pathogenicity serological marker for tuberculosis Bladder squamous cell carcinoma biomarkers microorganism identification B-cell chronic lymphocytic leukemia cerebral ischemia liver transplantation effects of hypoxia human breast cancer renal cell carcinoma colorectal carcinogenesis rat hepatomas HLA-B27-associated diseases circulating tumor antigen in breast cancer breast cancer-specific antigenic marker lung cancer prostate and bladder cancers human renal cell carcinoma malignant prostate tissue brain in Alzheimer's disease Bacillus cereus T spores brain of fetal Down syndrome invasive ovarian cancer Type 1 diabetes mellitus Down syndrome brain human prostate cancer reactive lymph-node and lymphoma breast carcinoma ovarian cancer hepatocellular carcinoma cerebrospinal fluid proteins in Alzheimer patients skin irritation by sodium lauryl sulphate autoantibodies in hepatocellular carcinoma esophageal scans cell cancer-specific protein Huntington's disease lung adenocarcinoma Salmonella Pathogenicity Island 2 Scott syndrome hypoxia-induced hypertension Autoantibody profiling human gastric carcinoma Hashimoto's encephalopathy prostate cancer renal cell carcinoma	Arnott et al Orntoft et al Edgar et al Niimi et al Hendrickson et al Celis et al Pineda et al Voss et al Sironi et al Pan et al Hoang et al Czerwenka et al Klade et al Stulik et al Zeindl-Eberhart et al Kuon et al Le Naour et al Kobayashi Oh et al Adam et al Balabanov et al Meehan et al Schonberger et al Tsuji and Shimohama Tsuji et al Demirev et al Freidl et al Cheon et al Jones et al Karlsen et al Peyrl et al Ahram et al Antonucci et al Brown Petricoin et al Lim et al Kim et al Davidsson et al Boxman Le Naour et al Zhou et al Zabel et al Chen et al Deiwick et al Imam-Sghiour et al Thongboonkerd et al Hueber et al Tomlinson et al Ochi et al Petricoin et al Kellner et al	Anal Biochem. 1998 Urol Res. 1998 Mol Psychiatry. 1999 Electrophoresis. 1999 J Clin Microbiol. 2000 Electrophoresis. 2000 Anal Chem. 2000 Int J Cancer. 2001 Stroke. 2001 Transplant Proc. 2001 Biochemistry. 2001 Cancer Detect Prev. 2001 Proteomics. 2001 Electrophoresis. 2001 Electrophoresis. 2001 J Immunol. 2001 Clin Cancer Res. 2001 Clin Cancer Res. 2001 Proteomics. 2001 Proteomics. 2001 Eur J Biochem. 2001 Prostate. 2002 Proteomics. 2001 Dis Markers. 2001 Neurochem Res. 2002 Anal Chem. 2001 J Neural Transm Suppl. 2001 J Neural Transm Suppl. 2001 Proteomics. 2002 Dis Markers. 2001 Electrophoresis. 2002 Mol Carcinog. 2002 Electrophoresis. 2002 Ann Clin Lab Sci. 2002 Lancet. 2002 BBRC. 2002 Electrophoresis. 2002 Neuroreport. 2002 Br J Dermatol. 2002 Mol Cell Proteomics. 2002 Mol Cell Proteomics. 2002 Mol Cell Proteomics. 2002 Clin Cancer Res. 2002 Proteomics. 2002 Proteomics. 2002 J Biol Chem. 2002 Arthritis Res. 2002 Electrophoresis. 2002 FEBS Lett. 2002 J Natl Cancer Inst. 2002 Proteomics. 2002

breast cancer cell membranes	Unwin et al	Proteomics. 2003
familial amyotrophic lateral sclerosis	Adam et al	J Biol Chem. 2003
cell surface proteome of cancer cells	Allen et al	J Biol Chem. 2003
neuromuscular diseases	Shin et al	J Biol Chem. 2003
frontotemporal dementia	van den Heuvel et al	Ann Clin Biochem. 2003
human pituitary adenoma proteome	Davidsson et al	Brain Res Mol Brain Res. 2002
nuclear matrix proteins	Zhan and Desiderio	Proteomics. 2003
celiac disease autoantigens	Oehr	Anticancer Res. 2003
synovial fluid of osteoarthritis patients	Stulik et al	Proteomics. 2003
colorectal cancer cell line	Yamagiwa et al	J Orthop Sci. 2003
sera of patients with Behcet's disease	Stierum et al	Biochim Biophys Acta. 2003
proteome of SARS-coronavirus	Lee et al	Adv Exp Med Biol. 2003
tumour subsets in non-small-cell lung cancer	Snijder et al	J Mol Biol. 2003
hematopoietic stem cell-like fractions in leukemic disorders.	Yanagisawa et al	Lancet. 2003
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