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## In-gel digestion for mass spectrometric characterization of proteins and proteomes

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2266	Evidence that SpoIVFB is a novel type of membrane metalloprotease governing intercompartmental communication during Bacillus subtilis sporulation. <b>2000</b> , 182, 3305-9		61
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2263	New method for characterizing highly disulfide-bridged peptides in complex mixtures: application to toxin identification from crude venoms. <b>2007</b> , 6, 3216-23		74
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2094	Glycoprotein capture and quantitative phosphoproteomics indicate coordinated regulation of cell migration upon lysophosphatidic acid stimulation. <b>2010</b> , 9, 2337-53	13
2093	Prolyl 3-hydroxylase 1 null mice display abnormalities in fibrillar collagen-rich tissues such as tendons, skin, and bones. <b>2010</b> , 285, 17253-62	59
2092	Defining the transcriptome and proteome in three functionally different human cell lines. <b>2010</b> , 6, 450	269
2091	Unbiased identification of protein-bait interactions using biochemical enrichment and quantitative proteomics. <b>2010</b> , 2010, pdb.prot5400	5
2090	Transmembrane protein 147 (TMEM147) is a novel component of the Nicalin-NOMO protein complex. <b>2010</b> , 285, 26174-81	18
2089	The SILAC fly allows for accurate protein quantification in vivo. <b>2010</b> , 9, 2173-83	138
2088	Proteomics on an Orbitrap benchtop mass spectrometer using all-ion fragmentation. <b>2010</b> , 9, 2252-61	189
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2085	Megadalton complexes in the chloroplast stroma of <i>Arabidopsis thaliana</i> characterized by size exclusion chromatography, mass spectrometry, and hierarchical clustering. <b>2010</b> , 9, 1594-615	149
2084	Merging molecular electron microscopy and mass spectrometry by carbon film-assisted endoproteinase digestion. <b>2010</b> , 9, 1729-41	9
2083	Identification of <i>Conus</i> peptidylprolyl cis-trans isomerases (PPLases) and assessment of their role in the oxidative folding of conotoxins. <b>2010</b> , 285, 12735-46	25
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2079	Phosphorylation of mouse immunity-related GTPase (IRG) resistance proteins is an evasion strategy for virulent <i>Toxoplasma gondii</i> . <b>2010</b> , 8, e1000576	184

2078	A genome-scale DNA repair RNAi screen identifies SPG48 as a novel gene associated with hereditary spastic paraplegia. <b>2010</b> , 8, e1000408	133
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2076	The acidic A-domain of Arabidopsis TOC159 occurs as a hyperphosphorylated protein. <b>2010</b> , 153, 1016-30	40
2075	Autophagy dysfunction and ubiquitin-positive protein aggregates in Dictyostelium cells lacking Vmp1. <b>2010</b> , 6, 100-9	58
2074	A capillary monolithic trypsin reactor for efficient protein digestion in online and offline coupling to ESI and MALDI mass spectrometry. <b>2010</b> , 82, 1434-43	72
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2072	Quantitative phosphoproteomics reveals widespread full phosphorylation site occupancy during mitosis. <b>2010</b> , 3, ra3	1106
2071	Combined proteomic approaches for the identification of specific amino acid residues modified by 4-hydroxy-2-nonenal under physiological conditions. <b>2010</b> , 9, 5770-81	23
2070	A proteome investigation of roxarsone degradation by Alkaliphilus oremlandii strain OhILAs. <b>2010</b> , 2, 133-9	15
2069	Enhanced characterization of serum autoantibody reactivity following HSP 60 immunization in a rat model of experimental autoimmune glaucoma. <b>2010</b> , 35, 900-8	27
2068	Identification of immunoreactive proteins of Dirofilaria immitis and D. repens recognized by sera from patients with pulmonary and subcutaneous dirofilariasis. <b>2010</b> , 59, 248-56	14
2067	Proteomics analysis of cellular imatinib targets and their candidate downstream effectors. <b>2010</b> , 9, 6033-43	25
2066	Comparative proteomics of kidney samples from puffer fish Takifugu rubripes exposed to excessive fluoride: an insight into molecular response to fluorosis. <b>2010</b> , 20, 345-54	11
2065	Enolase autoantibodies cross-reactive to viral proteins in a mouse model of biliary atresia. <b>2010</b> , 139, 1753-61	62
2064	Systems Biology in Drug Discovery and Development. <b>2010</b> ,	2
2063	Assessment of buffer systems for harvesting proteins from tissue interstitial fluid for proteomic analysis. <b>2010</b> , 9, 4161-9	14
2062	Immunoaffinity enrichment and liquid chromatography-selected reaction monitoring mass spectrometry for quantitation of carbonic anhydrase 12 in cultured renal carcinoma cells. <b>2010</b> , 82, 8998-9005	11
2061	Liquid chromatography electrospray ionization Fourier transform ion cyclotron resonance mass spectrometric characterization of N-linked glycans and glycopeptides. <b>2010</b> , 82, 6542-8	27

2060	Quantitative proteomics reveals a "poised quiescence" cellular state after triggering the DNA replication origin activation checkpoint. <b>2010</b> , 9, 5445-60	6
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2058	Regulation of the autophagy protein LC3 by phosphorylation. <b>2010</b> , 190, 533-9	244
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2056	Mass spectrometric identification of phosphorylation sites in guanylyl cyclase A and B. <b>2010</b> , 49, 10137-45	24
2055	Proteomic identification of Hsc70 as a mediator of RGS9-2 degradation by in vivo interactome analysis. <b>2010</b> , 9, 1510-21	13
2054	Identification of Non-HLA antigens targeted by alloreactive antibodies in patients undergoing chronic hemodialysis. <b>2010</b> , 9, 1041-9	24
2053	Proteomic analysis for antiobesity potential of capsaicin on white adipose tissue in rats fed with a high fat diet. <b>2010</b> , 9, 2977-87	112
2052	Substrate-assisted inhibition of ubiquitin-like protein-activating enzymes: the NEDD8 E1 inhibitor MLN4924 forms a NEDD8-AMP mimetic in situ. <b>2010</b> , 37, 102-11	335
2051	Site-specific identification of SUMO-2 targets in cells reveals an inverted SUMOylation motif and a hydrophobic cluster SUMOylation motif. <b>2010</b> , 39, 641-52	215
2050	Identification of residues on Hsp70 and Hsp90 ubiquitinated by the cochaperone CHIP. <b>2010</b> , 395, 587-94	73
2049	Characterization of a functional DnaG-type primase in archaea: implications for a dual-primase system. <b>2010</b> , 397, 664-76	20
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2045	Treslin collaborates with TopBP1 in triggering the initiation of DNA replication. <b>2010</b> , 140, 349-59	169
2044	The protein composition of mitotic chromosomes determined using multiclassifier combinatorial proteomics. <b>2010</b> , 142, 810-21	217
2043	A family of protein-deglutamylating enzymes associated with neurodegeneration. <b>2010</b> , 143, 564-78	221

2042	The <i>Caenorhabditis elegans</i> Ste20 kinase, GCK-3, is essential for postembryonic developmental timing and regulates meiotic chromosome segregation. <b>2010</b> , 344, 758-71	11
2041	Hyperglycemia alters the schwann cell mitochondrial proteome and decreases coupled respiration in the absence of superoxide production. <b>2010</b> , 9, 458-71	52
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2039	Proteomic analysis of the murine liver in response to a combined exposure to psychological stress and 7,12-dimethylbenz(a)anthracene. <b>2010</b> , 9, 509-20	13
2038	Quantitative proteome and transcriptome analysis of the archaeon <i>Thermoplasma acidophilum</i> cultured under aerobic and anaerobic conditions. <b>2010</b> , 9, 4839-50	35
2037	Top-down and bottom-up proteomics of SDS-containing solutions following mass-based separation. <b>2010</b> , 9, 2863-70	119
2036	Cytotoxic copper(II) salicylaldehyde semicarbazone complexes: mode of action and proteomic analysis. <b>2010</b> , 2, 694-705	28
2035	Direct and indirect detection methods for the analysis of S-nitrosylated peptides and proteins. <b>2010</b> , 473, 265-80	16
2034	Antimicrobial activity of lipophilic avian eggshell surface extracts. <b>2010</b> , 58, 10156-61	19
2033	LC-MS/MS in Proteomics. <b>2010</b> ,	3
2032	A novel class of protease targets of phosphatidylethanolamine-binding proteins (PEBP): a study of the acylpeptide hydrolase and the PEBP inhibitor from the archaeon <i>Sulfolobus solfataricus</i> . <b>2010</b> , 6, 2498-507	8
2031	Proteomic analysis of proteins released from growth-arrested <i>Candida albicans</i> following exposure to caspofungin. <b>2010</b> , 48, 598-605	14
2030	Rapid microscale in-gel processing and digestion of proteins using surface acoustic waves. <b>2010</b> , 10, 1518-20	19
2029	Protein cage nanoparticles bearing the LyP-1 peptide for enhanced imaging of macrophage-rich vascular lesions. <b>2011</b> , 5, 2493-502	91
2028	Comparative analysis on the membrane proteome of <i>Clostridium acetobutylicum</i> wild type strain and its butanol-tolerant mutant. <b>2011</b> , 7, 1660-77	47
2027	Chemical proteomics reveals bolinaquinone as a clathrin-mediated endocytosis inhibitor. <b>2011</b> , 7, 480-5	24
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2025	Subcellular tissue proteomics of hepatocellular carcinoma for molecular signature discovery. <b>2011</b> , 10, 5070-83	34

2024	Proteome of the <i>Caenorhabditis elegans</i> oocyte. <b>2011</b> , 10, 2300-5	12
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2022	TRPM1 forms complexes with nyctalopin in vivo and accumulates in postsynaptic compartment of ON-bipolar neurons in mGluR6-dependent manner. <b>2011</b> , 31, 11521-6	68
2021	Development and use of clickable activity based protein profiling agents for protein arginine deiminase 4. <b>2011</b> , 6, 466-76	34
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2019	Characterization of ubiquitination dependent dynamics in growth factor receptor signaling by quantitative proteomics. <b>2011</b> , 7, 3223-33	50
2018	Multiplexed Preparation of Biological Samples for Mass Spectrometry Using Gel Electrophoresis. <b>2011</b> , 91-105	
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2012	Characterization of the phosphoproteome in androgen-repressed human prostate cancer cells by Fourier transform ion cyclotron resonance mass spectrometry. <b>2011</b> , 10, 3920-8	10
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2009	Preparation and analysis of proteins and peptides using MALDI TOF/TOF mass spectrometry. <b>2011</b> , Chapter 16, Unit 16.13	15
2008	Argonaute Proteins. <b>2011</b> ,	1
2007	The <i>Aspergillus fumigatus</i> toxin fumagillin suppresses the immune response of <i>Galleria mellonella</i> larvae by inhibiting the action of haemocytes. <b>2011</b> , 157, 1481-1488	53



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2005	Nano LC-MS/MS: a robust setup for proteomic analysis. <b>2011</b> , 790, 115-26	40
2004	Nanoproteomics. <b>2011</b> ,	2
2003	The thylakoid membrane proteome of two marine diatoms outlines both diatom-specific and species-specific features of the photosynthetic machinery. <b>2011</b> , 10, 5338-53	102
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1999	Implications of partial tryptic digestion in organic-aqueous solvent systems for bottom-up proteome analysis. <b>2011</b> , 703, 194-203	24
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1995	Human inter- $\beta$ inhibitor is a substrate for factor XIIIa and tissue transglutaminase. <b>2011</b> , 1814, 1624-30	7
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1990	Quantitative in-depth analysis of the dynamic secretome of activated Jurkat T-cells. <b>2011</b> , 75, 561-71	15
1989	Identification and characterization of anti-microbial peptides from rabbit vaginal fluid. <b>2011</b> , 139, 176-86	13

1988	Analyzing protein-protein interactions by quantitative mass spectrometry. <b>2011</b> , 54, 387-95	51
1987	Identification of native Escherichia coli BL21 (DE3) proteins that bind to immobilized metal affinity chromatography under high imidazole conditions and use of 2D-DIGE to evaluate contamination pools with respect to recombinant protein expression level. <b>2011</b> , 78, 216-24	10
1986	Comparative proteomic analysis identifies a role for SUMO in protein quality control. <b>2011</b> , 4, rs4	136
1985	Proteomic analysis of urine from male dogs during early stages of tubulointerstitial injury in a canine model of progressive glomerular disease. <b>2011</b> , 40, 222-36	35
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1976	Proteomic interrogation of human chromatin. <b>2011</b> , 6, e24747	31
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1974	Phenotypic and genome-wide analysis of an antibiotic-resistant small colony variant (SCV) of Pseudomonas aeruginosa. <b>2011</b> , 6, e29276	63
1973	The presence of IGHG1 in human pancreatic carcinomas is associated with immune evasion mechanisms. <b>2011</b> , 40, 753-61	30
1972	Protein acyltransferase function of purified calreticulin: the exclusive role of P-domain in mediating protein acylation utilizing acyloxycoumarins and acetyl CoA as the acyl group donors. <b>2011</b> , 18, 507-17	7
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1970	Btk regulation in human and mouse B cells via protein kinase C phosphorylation of IBtk	<b>2011</b> , 117, 6520-31	22
1969	Rapid characterization of N-linked glycosylation site using non-specific protease digestion of gel-separated glycoproteins and matrix-assisted laser desorption/ionization tandem time-of-flight mass spectrometry.	<b>2011</b> , 17, 573-9	2
1968	Divergence in enzyme regulation between <i>Caenorhabditis elegans</i> and human tyrosine hydroxylase, the key enzyme in the synthesis of dopamine.	<b>2011</b> , 434, 133-41	14
1967	Proteomics of extremophiles.	<b>2011</b> , 13, 1934-55	16
1966	A high-definition native polyacrylamide gel electrophoresis system for the analysis of membrane complexes.	<b>2011</b> , 67, 181-94	34
1965	R3F, a novel membrane-associated glycogen targeting subunit of protein phosphatase 1 regulates glycogen synthase in astrocytoma cells in response to glucose and extracellular signals.	<b>2011</b> , 118, 596-610	14
1964	Fungal proteomics: from identification to function.	<b>2011</b> , 321, 1-9	43
1963	Use of stable isotope labeling by amino acids in cell culture as a spike-in standard in quantitative proteomics.	<i>Nature Protocols</i> , <b>2011</b> , 6, 147-57	18.8 232
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1937	Gel-based proteomics analysis of the heterogeneity of 20S proteasomes from four human pancreatic cancer cell lines. <b>2011</b> , 5, 484-92	8
1936	Lights and shadows of proteomic technologies for the study of protein species including isoforms, splicing variants and protein post-translational modifications. <b>2011</b> , 11, 590-603	17
1935	An approach for identification of phosphoproteins using the G-electrode-loading method in two-dimensional gel electrophoresis. <b>2011</b> , 11, 1545-9	3

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1933	Differential expression of adipose tissue proteins between obesity-susceptible and -resistant rats fed a high-fat diet. <b>2011</b> , 11, 1429-48	35
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1931	A cost-benefit analysis of multidimensional fractionation of affinity purification-mass spectrometry samples. <b>2011</b> , 11, 2603-12	27
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1929	Quantitative proteomics by 2-DE, 16O/18O labelling and linear ion trap mass spectrometry analysis of lymph nodes from piglets inoculated by porcine circovirus type 2. <b>2011</b> , 11, 3452-69	21
1928	Optimization of cell lysis and protein digestion protocols for the analysis of HeLa S3 cells by LC-MS/MS. <b>2011</b> , 11, 4726-30	32
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1924	Specificity analysis-based identification of new methylation targets of the SET7/9 protein lysine methyltransferase. <b>2011</b> , 18, 111-20	128
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1922	Preventing arginine-to-proline conversion in a cell-line-independent manner during cell cultivation under stable isotope labeling by amino acids in cell culture (SILAC) conditions. <b>2011</b> , 412, 123-5	39
1921	Proteomics by mass spectrometry--go big or go home?. <b>2011</b> , 55, 832-41	12
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1918	Protein signatures associated with tumor cell dissemination in head and neck cancer. <b>2011</b> , 74, 558-66	19
1917	Proteomic analysis of changes in protein expression in liver mitochondria in apoE knockout mice. <b>2011</b> , 74, 887-93	13

1916	Unraveling tobacco BY-2 protein complexes with BN PAGE/LC-MS/MS and clustering methods. <b>2011</b> , 74, 1201-17	15
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1910	Differential expression of liver proteins between obesity-prone and obesity-resistant rats in response to a high-fat diet. <b>2011</b> , 106, 612-26	18
1909	Liquid chromatography and mass spectrometry in food allergen detection. <b>2011</b> , 74, 316-45	60
1908	Studies of the mechanistic details of the pH-dependent association of botulinum neurotoxin with membranes. <b>2011</b> , 286, 27011-8	19
1907	Quantitative proteomics identifies ferritin in the innate immune response of <i>C. elegans</i> . <b>2011</b> , 2, 120-30	38
1906	Cullin 4B protein ubiquitin ligase targets peroxiredoxin III for degradation. <b>2011</b> , 286, 32344-54	41
1905	Identification of peroxiredoxin-1 as a novel biomarker of abdominal aortic aneurysm. <b>2011</b> , 31, 935-43	63
1904	The malaria parasite progressively dismantles the host erythrocyte cytoskeleton for efficient egress. <b>2011</b> , 10, M111.010678	54
1903	Neural precursor cell-expressed developmentally down-regulated protein 4-2 (Nedd4-2) regulation by 14-3-3 protein binding at canonical serum and glucocorticoid kinase 1 (SGK1) phosphorylation sites. <b>2011</b> , 286, 37830-40	32
1902	Comparative proteomics analysis of midgut samples from <i>Takifugu rubripes</i> exposed to excessive fluoride: initial molecular response to fluorosis. <b>2011</b> , 21, 444-52	3
1901	Modeling human endometrial decidualization from the interaction between proteome and secretome. <b>2011</b> , 96, 706-16	45
1900	Crumbs regulates rhodopsin transport by interacting with and stabilizing myosin V. <b>2011</b> , 195, 827-38	50
1899	Proteomic survey of ubiquitin-linked nuclear proteins in interferon-stimulated macrophages. <b>2011</b> , 31, 619-28	8

1898	Herpes simplex virus 1 ICP4 forms complexes with TFIID and mediator in virus-infected cells. <b>2011</b> , 85, 5733-44	44
1897	Caspofungin primes the immune response of the larvae of <i>Galleria mellonella</i> and induces a non-specific antimicrobial response. <b>2011</b> , 60, 189-196	54
1896	Identification of outer membrane proteins from an Antarctic bacterium <i>Pseudomonas syringae</i> Lz4W. <b>2011</b> , 10, M110.004549	15
1895	Quantitative proteomic analysis of cellular protein modulation upon inhibition of the NEDD8-activating enzyme by MLN4924. <b>2011</b> , 10, M111.009183	54
1894	Direct regulation of Treslin by cyclin-dependent kinase is essential for the onset of DNA replication. <b>2011</b> , 193, 995-1007	88
1893	Carboxyl-group footprinting maps the dimerization interface and phosphorylation-induced conformational changes of a membrane-associated tyrosine kinase. <b>2011</b> , 10, M110.005678	24
1892	A robust method for quantitative high-throughput analysis of proteomes by 18O labeling. <b>2011</b> , 10, M110.003335	35
1891	Androgen-sensitive microsomal signaling networks coupled to the proliferation and differentiation of human prostate cancer cells. <b>2011</b> , 2, 956-78	12
1890	Chromatin affinity purification and quantitative mass spectrometry defining the interactome of histone modification patterns. <b>2011</b> , 10, M110.005371	66
1889	Quantitative proteomic analysis of chromatin reveals that Ctf18 acts in the DNA replication checkpoint. <b>2011</b> , 10, M110.005561	53
1888	Protein interactions of phosphatase and tensin homologue (PTEN) and its cancer-associated G20E mutant compared by using stable isotope labeling by amino acids in cell culture-based parallel affinity purification. <b>2011</b> , 286, 18093-103	22
1887	Covalent structural changes in unfolded GroES that lead to amyloid fibril formation detected by NMR: insight into intrinsically disordered proteins. <b>2011</b> , 286, 21796-805	8
1886	Activation of BlaR1 protein of methicillin-resistant <i>Staphylococcus aureus</i> , its proteolytic processing, and recovery from induction of resistance. <b>2011</b> , 286, 38148-38158	46
1885	Glycosylation increases the thermostability of human aquaporin 10 protein. <b>2011</b> , 286, 31915-23	49
1884	Human lysophosphatidylcholine acyltransferases 1 and 2 are located in lipid droplets where they catalyze the formation of phosphatidylcholine. <b>2011</b> , 286, 21330-9	110
1883	Unambiguous characterization of site-specific phosphorylation of leucine-rich repeat Fli-I-interacting protein 2 (LRRFIP2) in Toll-like receptor 4 (TLR4)-mediated signaling. <b>2011</b> , 286, 10897-910	22
1882	Reduction in ribosomal protein synthesis is sufficient to explain major effects on ribosome production after short-term TOR inactivation in <i>Saccharomyces cerevisiae</i> . <b>2011</b> , 31, 803-17	30
1881	Invasion of <i>Cryptococcus neoformans</i> into human brain microvascular endothelial cells is mediated through the lipid rafts-endocytic pathway via the dual specificity tyrosine phosphorylation-regulated kinase 3 (DYRK3). <b>2011</b> , 286, 34761-9	54

1880	The RNA polymerase II C-terminal domain promotes splicing activation through recruitment of a U2AF65-Prp19 complex. <b>2011</b> , 25, 972-83	118
1879	Sample preparation techniques for the untargeted LC-MS-based discovery of peptides in complex biological matrices. <b>2011</b> , 2011, 245291	58
1878	Lysine acetylation is a widespread protein modification for diverse proteins in Arabidopsis. <b>2011</b> , 155, 1769-78	149
1877	Substantial histone reduction modulates genomewide nucleosomal occupancy and global transcriptional output. <b>2011</b> , 9, e1001086	140
1876	Dicer-dependent and -independent Argonaute2 protein interaction networks in mammalian cells. <b>2012</b> , 11, 1442-56	43
1875	Comparative proteomic analysis of <i>Lactobacillus plantarum</i> WCFS1 and $\beta$ tsR mutant strains under physiological and heat stress conditions. <b>2012</b> , 13, 10680-96	25
1874	Microbial reduction of chromate in the presence of nitrate by three nitrate respiring organisms. <b>2012</b> , 3, 416	34
1873	Tomato TFT1 is required for PAMP-triggered immunity and mutations that prevent T3S effector XopN from binding to TFT1 attenuate <i>Xanthomonas</i> virulence. <b>2012</b> , 8, e1002768	42
1872	The major autolysin Acm2 from <i>Lactobacillus plantarum</i> undergoes cytoplasmic O-glycosylation. <b>2012</b> , 194, 325-33	36
1871	Chloride channel CLC-2 modulates tight junction barrier function via intracellular trafficking of occludin. <b>2012</b> , 302, C178-87	44
1870	A combination of H2A.Z and H4 acetylation recruits Brd2 to chromatin during transcriptional activation. <b>2012</b> , 8, e1003047	70
1869	Contactin-associated protein-2 antibodies in non-paraneoplastic cerebellar ataxia. <b>2012</b> , 83, 437-40	91
1868	The <i>Pseudomonas aeruginosa</i> N-acylhomoserine lactone quorum sensing molecules target IQGAP1 and modulate epithelial cell migration. <b>2012</b> , 8, e1002953	67
1867	Screening the banana biodiversity for drought tolerance: can an in vitro growth model and proteomics be used as a tool to discover tolerant varieties and understand homeostasis. <b>2012</b> , 3, 176	71
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1865	Quantitative proteomics profiling of murine mammary gland cells unravels impact of annexin-1 on DNA damage response, cell adhesion, and migration. <b>2012</b> , 11, 381-93	35
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1863	Isolation and proteomic characterization of the mouse sperm acrosomal matrix. <b>2012</b> , 11, 758-74	41



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1861	On marathons and Sprints: an integrated quantitative proteomics and transcriptomics analysis of differences between slow and fast muscle fibers. <b>2012</b> , 11, M111.010801	65
1860	Methylation of CenH3 arginine 37 regulates kinetochore integrity and chromosome segregation. <b>2012</b> , 109, 9029-34	47
1859	Comparative evaluation of T11 target structure and its deglycosylated derivative nullifies the importance of glycan moieties in immunotherapeutic efficacy. <b>2012</b> , 44, 259-68	5
1858	RUNX3 interactome reveals novel centrosomal targeting of RUNX family of transcription factors. <b>2012</b> , 11, 1938-47	16
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1856	Genome-wide Runx2 occupancy in prostate cancer cells suggests a role in regulating secretion. <b>2012</b> , 40, 3538-47	35
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1854	Role for Rif1 in the checkpoint response to damaged DNA in Xenopus egg extracts. <b>2012</b> , 11, 1183-94	12
1853	Effect of asynchronous transfer on bovine embryonic development and relationship with early cycle uterine proteome profiles. <b>2012</b> , 24, 962-72	30
1852	Mechanistic studies on activation of ubiquitin and di-ubiquitin-like protein, FAT10, by ubiquitin-like modifier activating enzyme 6, Uba6. <b>2012</b> , 287, 15512-22	33
1851	Modulation of conotoxin structure and function is achieved through a multienzyme complex in the venom glands of cone snails. <b>2012</b> , 287, 34288-303	33
1850	Novel Podoviridae family bacteriophage infecting Weissella cibaria isolated from Kimchi. <b>2012</b> , 78, 7299-308	29
1849	Biotinylation of lysine method identifies acetylated histone H3 lysine 79 in Saccharomyces cerevisiae as a substrate for Sir2. <b>2012</b> , 109, E916-25	16
1848	Mutation in cyclophilin B that causes hyperelastosis cutis in American Quarter Horse does not affect peptidylprolyl cis-trans isomerase activity but shows altered cyclophilin B-protein interactions and affects collagen folding. <b>2012</b> , 287, 22253-65	63
1847	A single rainbow trout cobalamin-binding protein stands in for three human binders. <b>2012</b> , 287, 33917-25	11
1846	Surface multiheme c-type cytochromes from Thermicola potens and implications for respiratory metal reduction by Gram-positive bacteria. <b>2012</b> , 109, 1702-7	129
1845	Absolute quantitation of isoforms of post-translationally modified proteins in transgenic organism. <b>2012</b> , 11, 272-85	21

1844	A sensitive gel-based global O-glycomics approach reveals high levels of mannosyl glycans in the high mass region of the mouse brain proteome. <b>2012</b> , 393, 709-17	18
1843	Ribulose-1,5-bis-phosphate carboxylase/oxygenase accumulation factor1 is required for holoenzyme assembly in maize. <b>2012</b> , 24, 3435-46	80
1842	Optimization of an Efficient Protein Extraction Protocol Compatible with Two-Dimensional Electrophoresis and Mass Spectrometry from Recalcitrant Phenolic Rich Roots of Chickpea ( <i>Cicer arietinum</i> L.). <b>2012</b> , 2012, 536963	21
1841	Quantitative proteomics reveals dynamic changes in the plasma membrane during Arabidopsis immune signaling. <b>2012</b> , 11, M111.014555	79
1840	Mitogen-activated protein kinase (MAPK/ERK) regulates adenomatous polyposis coli during growth-factor-induced cell extension. <b>2012</b> , 125, 1247-58	8
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1838	AUF1/hnRNP D is a novel protein partner of the EBER1 noncoding RNA of Epstein-Barr virus. <b>2012</b> , 18, 2073-82	58
1837	Mass spectrometry-based proteomic analysis of middle-aged vs. aged vastus lateralis reveals increased levels of carbonic anhydrase isoform 3 in senescent human skeletal muscle. <b>2012</b> , 30, 723-33	57
1836	Mass spectrometric characterization of the sarcoplasmic reticulum from rabbit skeletal muscle by on-membrane digestion. <b>2012</b> , 19, 252-63	13
1835	Upregulation of the $\beta$ -form of 14-3-3 protein in telencephalon of goldfish ( <i>Carassius auratus</i> ): its possible role in spatial learning. <b>2012</b> , 23, 840-5	1
1834	Proteomic responses of <i>Roseobacter litoralis</i> OCh149 to starvation and light regimen. <b>2012</b> , 27, 430-42	12
1833	Exploration of the sea urchin coelomic fluid via combinatorial peptide ligand libraries. <b>2012</b> , 222, 93-104	8
1832	Proteomics of the rodent malaria parasite using matrix-assisted laser desorption/ionization quadrupole ion trap time-of-flight tandem mass spectrometry. <b>2012</b> , 28, 813-7	1
1831	Mitotic chromosomes are compacted laterally by KIF4 and condensin and axially by topoisomerase II $\beta$ . <b>2012</b> , 199, 755-70	118
1830	Next-generation sequencing-based transcriptomic and proteomic analysis of the common reed, <i>Phragmites australis</i> (Poaceae), reveals genes involved in invasiveness and rhizome specificity. <b>2012</b> , 99, 232-47	39
1829	Mutational, proteomic and metabolomic analysis of a plant growth promoting copper-resistant <i>Pseudomonas</i> spp. <b>2012</b> , 335, 140-8	12
1828	Ethylene glycol metabolism by <i>Pseudomonas putida</i> . <b>2012</b> , 78, 8531-9	55
1827	Structure of a RING E3 ligase and ubiquitin-loaded E2 primed for catalysis. <b>2012</b> , 489, 115-20	339

1826	A high-throughput approach for measuring temporal changes in the interactome. <b>2012</b> , 9, 907-9	236
1825	Positive correlation between serum immunoreactivity to Demodex-associated Bacillus proteins and erythematotelangiectatic rosacea. <b>2012</b> , 167, 1032-6	55
1824	Toward stable genetic engineering of human O-glycosylation in plants. <b>2012</b> , 160, 450-63	29
1823	Proteomic analysis of trichloroethylene-induced alterations in expression, distribution, and interactions of SET/TAF-I and two SET/TAF-I-binding proteins, eEF1A1 and eEF1A2, in hepatic L-02 cells. <b>2012</b> , 263, 259-72	7
1822	Expert system for computer-assisted annotation of MS/MS spectra. <b>2012</b> , 11, 1500-9	53
1821	Cell type-dependent effects of andrographolide on human cancer cell lines. <b>2012</b> , 91, 751-760	17
1820	Detergent selection for enhanced extraction of membrane proteins. <b>2012</b> , 86, 12-20	100
1819	Multidimensional liquid chromatography platform for profiling alterations of clusterin N-glycosylation in the plasma of patients with renal cell carcinoma. <b>2012</b> , 1256, 121-8	19
1818	Pine nut allergy: clinical features and major allergens characterization. <b>2012</b> , 56, 1884-93	13
1817	Metabolic and proteomic adaptation of Lactobacillus rhamnosus strains during growth under cheese-like environmental conditions compared to de Man, Rogosa, and Sharpe medium. <b>2012</b> , 12, 3206-18	46
1816	Proteomic analyses of transgenic LQT1 and LQT2 rabbit hearts elucidate an increase in expression and activity of energy producing enzymes. <b>2012</b> , 75, 5254-65	10
1815	Interplay between oncogenic K-Ras and wild-type H-Ras in Caco2 cell transformation. <b>2012</b> , 75, 5356-69	6
1814	Mass spectrometry-based label free quantification of gel separated proteins. <b>2012</b> , 75, 5544-53	11
1813	Quantitative proteomic analysis of differentially expressed proteins in the toxicity-lost mutant of Alexandrium catenella (Dinophyceae) in the exponential phase. <b>2012</b> , 75, 5564-77	38
1812	Proteomic analysis of liver mitochondria of apolipoprotein E knockout mice treated with metformin. <b>2012</b> , 77, 167-75	21
1811	Identification of aero-allergens from Rhizopus oryzae: an immunoproteomic approach. <b>2012</b> , 77, 455-68	28
1810	Protein haptentation by amoxicillin: high resolution mass spectrometry analysis and identification of target proteins in serum. <b>2012</b> , 77, 504-20	61
1809	Quantitative proteomic analysis of yeast DNA replication proteins. <b>2012</b> , 57, 196-202	16

1808	Expression and purification of coronavirus envelope proteins using a modified $\beta$ -barrel construct. <b>2012</b> , 85, 133-41	19
1807	Mitochondrial function and energy metabolism in umbilical cord blood- and bone marrow-derived mesenchymal stem cells. <b>2012</b> , 21, 575-88	54
1806	Long noncoding RNAs are rarely translated in two human cell lines. <b>2012</b> , 22, 1646-57	292
1805	Prunasin hydrolases during fruit development in sweet and bitter almonds. <b>2012</b> , 158, 1916-32	32
1804	A chemical proteomics approach reveals Hsp27 as a target for proapoptotic clerodane diterpenes. <b>2012</b> , 8, 2637-44	16
1803	Heat shock proteins as key biological targets of the marine natural cyclopeptide perthamide C. <b>2012</b> , 8, 1412-7	10
1802	Human complement C3 is a substrate for transglutaminases. A functional link between non-protease-based members of the coagulation and complement cascades. <b>2012</b> , 51, 4735-42	20
1801	Rho-associated coiled-coil kinase (ROCK) protein controls microtubule dynamics in a novel signaling pathway that regulates cell migration. <b>2012</b> , 287, 43620-9	54
1800	A comparative proteomic study of human skin suction blister fluid from healthy individuals using immunodepletion and iTRAQ labeling. <b>2012</b> , 11, 3715-27	45
1799	Roles of proteins, polysaccharides, and phenolics in haze formation in white wine via reconstitution experiments. <b>2012</b> , 60, 10666-73	53
1798	Identification of an IgE reactive peptide in hen egg riboflavin binding protein subjected to simulated gastrointestinal digestion. <b>2012</b> , 60, 5215-20	9
1797	Calcium-dependent interaction of calmodulin with human 80S ribosomes and polyribosomes. <b>2012</b> , 51, 6718-27	6
1796	Structural Insights into retinal guanylylcyclase-GCAP-2 interaction determined by cross-linking and mass spectrometry. <b>2012</b> , 51, 4932-49	18
1795	Catabolic pathway of gamma-caprolactone in the biocontrol agent <i>Rhodococcus erythropolis</i> . <b>2012</b> , 11, 206-16	35
1794	Triple SILAC to determine stimulus specific interactions in the Wnt pathway. <b>2012</b> , 11, 982-94	56
1793	Mapping protein receptor-ligand interactions via in vivo chemical crosslinking, affinity purification, and differential mass spectrometry. <b>2012</b> , 56, 161-5	12
1792	Four proteins governing overangiogenic endothelial cell phenotype in patients with multiple myeloma are plausible therapeutic targets. <b>2012</b> , 31, 2258-69	26
1791	Post-translational oxidative modification and inactivation of mitochondrial complex I in epileptogenesis. <b>2012</b> , 32, 11250-8	60

1790	Identifying cellular targets of small-molecule probes and drugs with biochemical enrichment and SILAC. <b>2012</b> , 803, 129-40	24
1789	S-glutathionylation of the Na,K-ATPase catalytic $\beta$ subunit is a determinant of the enzyme redox sensitivity. <b>2012</b> , 287, 32195-205	86
1788	Crystal structure of the lectin of <i>Camptosema pedicellatum</i> : implications of a conservative substitution at the hydrophobic subsite. <b>2012</b> , 152, 87-98	8
1787	In vivo quantitative proteome profiling: planning and evaluation of SILAC experiments. <b>2012</b> , 893, 175-99	14
1786	A systematic investigation into the nature of tryptic HCD spectra. <b>2012</b> , 11, 5479-91	85
1785	Myosin light chain 3f attenuates age-induced decline in contractile velocity in MHC type II single muscle fibers. <b>2012</b> , 11, 203-12	15
1784	Mutation of Phe413 to Tyr in catalase KatE from <i>Escherichia coli</i> leads to side chain damage and main chain cleavage. <b>2012</b> , 525, 207-14	0
1783	Stabilization of the <i>Escherichia coli</i> DNA polymerase III $\beta$ subunit by the $\beta'$ subunit favors in vivo assembly of the Pol III catalytic core. <b>2012</b> , 523, 135-43	12
1782	Minimization of side reactions during Lys Tag derivatization of C-terminal lysine peptides. <b>2012</b> , 712, 101-7	
1781	Regulation of the interferon-inducible 2'-5'-oligoadenylate synthetases by adenovirus VA(I) RNA. <b>2012</b> , 422, 635-649	28
1780	Production and characterization of a novel monoclonal antibody against <i>Vibrio parahaemolyticus</i> F0F1 ATP synthase's delta subunit and its application for rapid identification of the pathogen. <b>2012</b> , 88, 77-82	9
1779	Chemical labelling of active serum thioester proteins for quantification. <b>2012</b> , 217, 256-64	4
1778	Attenuated metabolism is a hallmark of obesity as revealed by comparative proteomic analysis of human omental adipose tissue. <b>2012</b> , 75, 783-95	34
1777	Longitudinal analysis of taurine induced effects on the tear proteome of contact lens wearers and dry eye patients using a RP-RP-Capillary-HPLC-MALDI TOF/TOF MS approach. <b>2012</b> , 75, 3177-90	28
1776	Analysis of N-glycosylation in maize cytokinin oxidase/dehydrogenase 1 using a manual microgradient chromatographic separation coupled offline to MALDI-TOF/TOF mass spectrometry. <b>2012</b> , 75, 4027-37	12
1775	Proteomic analysis of the soluble and the lysosomal+mitochondrial fractions from rat pancreas: Implications for cerulein-induced acute pancreatitis. <b>2012</b> , 1824, 1058-67	10
1774	Comparative proteomic analysis to dissect differences in signal transduction in activating TSH receptor mutations in the thyroid. <b>2012</b> , 44, 290-301	10
1773	Functional characterization of a synthetic hydrophilic antifungal peptide derived from the marine snail <i>Cenchritis muricatus</i> . <b>2012</b> , 94, 968-74	38

1772	A new vesicular scaffolding complex mediates the G-protein-coupled 5-HT1A receptor targeting to neuronal dendrites. <b>2012</b> , 32, 14227-41	24
1771	Comparison of in-gel protein separation techniques commonly used for fractionation in mass spectrometry-based proteomic profiling. <b>2012</b> , 33, 2516-26	31
1770	Adaptive response to acetic acid in the highly resistant yeast species <i>Zygosaccharomyces bailii</i> revealed by quantitative proteomics. <b>2012</b> , 12, 2303-18	30
1769	Investigation of serum proteome alterations in human glioblastoma multiforme. <b>2012</b> , 12, 2378-90	47
1768	Separation and study of the range of plasminogen isoforms in patients with prostate cancer. <b>2012</b> , 77, 1065-71	1
1767	Mapping of cis-regulatory sites in the promoter of testis-specific stellate genes of <i>Drosophila melanogaster</i> . <b>2012</b> , 77, 1285-93	3
1766	Comparison of total and cytoplasmic mRNA reveals global regulation by nuclear retention and miRNAs. <b>2012</b> , 13, 574	30
1765	Combining proteomics and transcriptome sequencing to identify active plant-cell-wall-degrading enzymes in a leaf beetle. <b>2012</b> , 13, 587	51
1764	NanoUPLC-MSE proteomic data assessment of soybean seeds using the Uniprot database. <b>2012</b> , 12, 82	48
1763	High molecular mass proteomics analyses of left ventricle from rats subjected to differential swimming training. <b>2012</b> , 12, 11	10
1762	In-depth proteomic analysis of a mollusc shell: acid-soluble and acid-insoluble matrix of the limpet <i>Lottia gigantea</i> . <b>2012</b> , 10, 28	64
1761	<i>Thermoascus aurantiacus</i> is a promising source of enzymes for biomass deconstruction under thermophilic conditions. <b>2012</b> , 5, 54	59
1760	Mass spectrometry tools for analysis of intermolecular interactions. <b>2012</b> , 896, 387-98	3
1759	Mutant p53 interactome identifies nardilysin as a p53R273H-specific binding partner that promotes invasion. <b>2012</b> , 13, 638-44	55
1758	Proteomic identification of in vivo interactors reveals novel function of skin cornification proteins. <b>2012</b> , 11, 3068-76	16
1757	Differential subcellular targeting of recombinant human $\beta$ -proteinase inhibitor influences yield, biological activity and in planta stability of the protein in transgenic tomato plants. <b>2012</b> , 196, 53-66	21
1756	The protein composition of the digestive fluid from the venus flytrap sheds light on prey digestion mechanisms. <b>2012</b> , 11, 1306-19	63
1755	Comprehensive phosphoproteome analysis of INS-1 pancreatic $\beta$ -cells using various digestion strategies coupled with liquid chromatography-tandem mass spectrometry. <b>2012</b> , 11, 2206-23	21

1754	Large-scale proteome comparative analysis of developing rhizomes of the ancient vascular plant <i>equisetum hyemale</i> . <b>2012</b> , 3, 131	16
1753	Quantitative- and phospho-proteomic analysis of the yeast response to the tyrosine kinase inhibitor imatinib to pharmacoproteomics-guided drug line extension. <b>2012</b> , 16, 537-51	7
1752	Identification of an amino-terminal fragment of apolipoprotein E4 that localizes to neurofibrillary tangles of the Alzheimer's disease brain. <b>2012</b> , 1475, 106-15	31
1751	Effects of left ventricular assist device (LVAD) placement on myocardial oxidative stress markers. <b>2012</b> , 21, 586-97	5
1750	Purification and primary structure determination of a galactose-specific lectin from <i>Vatairea guianensis</i> Aublet seeds that exhibits vasorelaxant effect. <b>2012</b> , 47, 2347-2355	17
1749	Proteome mapping of human skim milk proteins in term and preterm milk. <b>2012</b> , 11, 1696-714	78
1748	In-cell NMR in mammalian cells: part 3. <b>2012</b> , 895, 67-83	10
1747	Recent advances in platelet proteomics. <b>2012</b> , 9, 451-66	24
1746	Proteomic analysis of microvesicles derived from human mesenchymal stem cells. <b>2012</b> , 11, 839-49	295
1745	Identifying chromatin readers using a SILAC-based histone peptide pull-down approach. <b>2012</b> , 512, 137-60	9
1744	Comparative study of workflows optimized for in-gel, in-solution, and on-filter proteolysis in the analysis of plasma membrane proteins. <b>2012</b> , 11, 3030-4	55
1743	Three novel acetylation sites in the Foxp3 transcription factor regulate the suppressive activity of regulatory T cells. <b>2012</b> , 188, 2712-21	113
1742	Comprehensive quantification of monolignol-pathway enzymes in <i>Populus trichocarpa</i> by protein cleavage isotope dilution mass spectrometry. <b>2012</b> , 11, 3390-404	38
1741	Spatial distribution of cellular function: the partitioning of proteins between mitochondria and the nucleus in MCF7 breast cancer cells. <b>2012</b> , 11, 6080-101	21
1740	Integrin and Cell Adhesion Molecules. <b>2012</b> ,	2
1739	A proteomic survey of nonribosomal peptide and polyketide biosynthesis in actinobacteria. <b>2012</b> , 11, 85-94	30
1738	Proteomic analysis of proteins differentially expressed in conidia and mycelium of the entomopathogenic fungus <i>Aschersonia placenta</i> . <b>2012</b> , 58, 1327-34	4
1737	GOFAST: an integrated approach for efficient and comprehensive membrane proteome analysis. <b>2012</b> , 84, 9008-14	20

1736	Coupling a detergent lysis/cleanup methodology with intact protein fractionation for enhanced proteome characterization. <b>2012</b> , 11, 6008-18	63
1735	Comparative metaproteomics and diversity analysis of human intestinal microbiota testifies for its temporal stability and expression of core functions. <b>2012</b> , 7, e29913	147
1734	Comprehensive assessment of milk composition in transgenic cloned cattle. <b>2012</b> , 7, e49697	14
1733	Accelerated identification of proteins by mass spectrometry by employing covalent pre-gel staining with Uniblue A. <b>2012</b> , 7, e31438	7
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1657	Serine protease from midgut of <i>Bombus terrestris</i> males. <b>2013, 82, 117-28</b>	5
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1621	Species differences take shape at nanoparticles: protein corona made of the native repertoire assists cellular interaction. <b>2013</b> , 47, 14367-75	61
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1581	Identification of phosphorylation sites in <i>Hansenula polymorpha</i> Pex14p by mass spectrometry. <b>2013</b> , 3, 6-10	8
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1573	In vivo SILAC-based proteomics reveals phosphoproteome changes during mouse skin carcinogenesis. <b>2013</b> , 3, 552-66	82
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1552	The loss of virulence of histone H1 overexpressing <i>Leishmania donovani</i> parasites is directly associated with a reduction of HSP83 rate of translation. <b>2013</b> , 88, 1015-31	12
1551	Relative quantification of proteasome activity by activity-based protein profiling and LC-MS/MS. <i>Nature Protocols</i> , <b>2013</b> , 8, 1155-68	18.8 62
1550	Antibodies to contactin-1 in chronic inflammatory demyelinating polyneuropathy. <b>2013</b> , 73, 370-80	217
1549	Particles on the move: intracellular trafficking and asymmetric mitotic partitioning of nanoporous polymer particles. <b>2013</b> , 7, 5558-67	31
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1546	Absolute quantification of E1, ubiquitin-like proteins and Nedd8-MLN4924 adduct by mass spectrometry. <b>2013</b> , 67, 139-47	11
1545	Systematic research on the pretreatment of peptides for quantitative proteomics using a C $\beta$ microcolumn. <b>2013</b> , 13, 2229-37	23
1544	Tightly anchored tissue-mimetic matrices as instructive stem cell microenvironments. <b>2013</b> , 10, 788-94	162
1543	Dysferlin interacts with calsequestrin-1, myomesin-2 and dynein in human skeletal muscle. <b>2013</b> , 45, 1927-38	21
1542	Oncogene-induced cellular senescence elicits an anti-Warburg effect. <b>2013</b> , 13, 2585-96	33
1541	Characterization of <i>Cannabis sativa</i> allergens. <b>2013</b> , 111, 32-7	50
1540	<i>Haloferax volcanii</i> archaeosortase is required for motility, mating, and C-terminal processing of the S-layer glycoprotein. <b>2013</b> , 88, 1164-75	41
1539	<i>Mycobacterium tuberculosis</i> utilizes a unique heterotetrameric structure for dehydrogenation of the cholesterol side chain. <b>2013</b> , 52, 2895-904	44

1538	Differential protein expression in mussels <i>Mytilus galloprovincialis</i> exposed to nano and ionic Ag. <b>2013</b> , 136-137, 79-90	74
1537	Unbiased characterization of the senescence-associated secretome using SILAC-based quantitative proteomics. <b>2013</b> , 965, 175-84	10
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1533	Surface-exposed glycoproteins of hyperthermophilic <i>Sulfolobus solfataricus</i> P2 show a common N-glycosylation profile. <b>2013</b> , 12, 2779-90	38
1532	Proteome profiling of human neutrophil granule subsets, secretory vesicles, and cell membrane: correlation with transcriptome profiling of neutrophil precursors. <b>2013</b> , 94, 711-21	151
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1523	The sirtuin SIRT6 regulates stress granule formation in <i>C. elegans</i> and mammals. <b>2013</b> , 126, 5166-77	46
1522	Purification and primary structure of a mannose/glucose-binding lectin from <i>Parkia biglobosa</i> Jacq. seeds with antinociceptive and anti-inflammatory properties. <b>2013</b> , 26, 470-8	18
1521	Dual LC-MS platform for high-throughput proteome analysis. <b>2013</b> , 12, 5963-70	14

1520	Cellular ERK phospho-form profiles with conserved preference for a switch-like pattern. <b>2013</b> , 12, 637-46	17
1519	Shotgun proteomic analysis of wing discs from the domesticated silkworm ( <i>Bombyx mori</i> ) during metamorphosis. <b>2013</b> , 45, 1231-41	9
1518	Combining filter-aided sample preparation and pseudoshotgun technology to profile the proteome of a low number of early passage human melanoma cells. <b>2013</b> , 12, 1040-8	29
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1361	Exposure to mimivirus collagen promotes arthritis. <b>2014</b> , 88, 838-45	17
1360	Mitochondrial aldehyde dehydrogenase activation by Alda-1 inhibits atherosclerosis and attenuates hepatic steatosis in apolipoprotein E-knockout mice. <b>2014</b> , 3, e001329	38
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1194	Development of 'Redox Arrays' for identifying novel glutathionylated proteins in the secretome. <b>2015</b> , 5, 14630	13
1193	Functional and structural properties of a novel cellulosome-like multienzyme complex: efficient glycoside hydrolysis of water-insoluble 7-xylosyl-10-deacetylpaclitaxel. <b>2015</b> , 5, 13768	20
1192	Losartan ameliorates dystrophic epidermolysis bullosa and uncovers new disease mechanisms. <b>2015</b> , 7, 1211-28	102
1191	Expression of SERPINA3s in cattle: focus on bovSERPINA3-7 reveals specific involvement in skeletal muscle. <b>2015</b> , 5, 150071	13
1190	An Aquatic Microbial Metaproteomics Workflow: From Cells to Tryptic Peptides Suitable for Tandem Mass Spectrometry-based Analysis. <b>2015</b> ,	2
1189	Preoperative protein profiles in cerebrospinal fluid in elderly hip fracture patients at risk for delirium: A proteomics and validation study. <b>2015</b> , 4, 115-22	13
1188	High Concentration Trypsin Assisted Fast In-Gel Digestion for Phosphoproteome Analysis. <b>2015</b> , 43, 1452-14582	
1187	Deciphering the mode of action of a mutant <i>Allium sativum</i> Leaf Agglutinin (mASAL), a potent antifungal protein on <i>Rhizoctonia solani</i> . <b>2015</b> , 15, 237	14
1186	Characterization of human reflex tear proteome reveals high expression of lacrimal proline-rich protein 4 (PRR4). <b>2015</b> , 15, 3370-81	34
1185	Mass spectrometry-based analyses showing the effects of secretor and blood group status on salivary N-glycosylation. <b>2015</b> , 12, 29	9
1184	Generation of <i>aroE</i> overexpression mutant of <i>Bacillus megaterium</i> for the production of shikimic acid. <b>2015</b> , 14, 69	12
1183	Proteomic analysis of quail calcified eggshell matrix: a comparison to chicken and turkey eggshell proteomes. <b>2015</b> , 13, 22	20
1182	Hepatocytes respond differently to major dietary trans fatty acid isomers, elaidic acid and trans-vaccenic acid. <b>2015</b> , 13, 31	15
1181	<i>Ixodes scapularis</i> and <i>Ixodes ricinus</i> tick cell lines respond to infection with tick-borne encephalitis virus: transcriptomic and proteomic analysis. <b>2015</b> , 8, 599	48
1180	<i>Amblyomma americanum</i> tick saliva insulin-like growth factor binding protein-related protein 1 binds insulin but not insulin-like growth factors. <b>2015</b> , 24, 539-50	10
1179	Unveiling the optimal parameters for cellulolytic characteristics of <i>Talaromyces verruculosus</i> SGMNPF3 and its secretory enzymes. <b>2015</b> , 119, 88-98	6

1178	Muscle-Specific Variation in Buffalo ( <i>Bubalus bubalis</i> ) Meat Texture: Biochemical, Ultrastructural and Proteome Characterization. <b>2015</b> , 46, 254-261	8
1177	Growth condition-dependent cell surface proteome analysis of <i>Enterococcus faecium</i> . <b>2015</b> , 15, 3806-14	2
1176	Red blood cell storage affects the stability of cytosolic native protein complexes. <b>2015</b> , 55, 1927-36	20
1175	Enrichment of protein N-termini by charge reversal of internal peptides. <b>2015</b> , 15, 2470-8	21
1174	Yeast proteins Gar1p, Nop1p, Npl3p, Nsr1p, and Rps2p are natively methylated and are substrates of the arginine methyltransferase Hmt1p. <b>2015</b> , 15, 3209-18	27
1173	Colonic metaproteomic signatures of active bacteria and the host in obesity. <b>2015</b> , 15, 3544-52	56
1172	Protein disulfide isomerase as a novel target for cyclopentenone prostaglandins: implications for hypoxic ischemic injury. <b>2015</b> , 282, 2045-59	13
1171	In Cell Interactome of Oleocanthal, an Extra Virgin Olive Oil Bioactive Component. <b>2015</b> , 10, 1934578X1501000	
1170	Myeloma cells can corrupt senescent mesenchymal stromal cells and impair their anti-tumor activity. <b>2015</b> , 6, 39482-92	24
1169	Proteomic Characterisation of Two Strains of <i>Mycoplasma mycoides</i> Subsp. <i>Mycoides</i> of Differing Pathogenicity. <b>2015</b> , s13,	
1168	Terminal Mannose Residues in Seminal Plasma Glycoproteins of Infertile Men Compared to Fertile Donors. <b>2015</b> , 16, 14933-50	6
1167	<i>Eucalyptus urograndis</i> stem proteome is responsive to short-term cold stress. <b>2015</b> , 38, 191-8	13
1166	A deep proteomics perspective on CRM1-mediated nuclear export and nucleocytoplasmic partitioning. <b>2015</b> , 4,	125
1165	Honey Bee Infecting Lake Sinai Viruses. <b>2015</b> , 7, 3285-309	52
1164	Affinity proteomics to study endogenous protein complexes: pointers, pitfalls, preferences and perspectives. <b>2015</b> , 58, 103-19	39
1163	Molecular Mechanism Underlying the Entomotoxic Effect of <i>Colocasia esculenta</i> Tuber Agglutinin against <i>Dysdercus cingulatus</i> . <b>2015</b> , 6, 827-846	6
1162	Inflammatory Gene Expression Upon TGF- $\beta$ 1-Induced p38 Activation in Primary Dupuytren's Disease Fibroblasts. <b>2015</b> , 2, 68	7
1161	Interrogation of the Substrate Profile and Catalytic Properties of the Phosphotriesterase from <i>Sphingobium</i> sp. Strain TCM1: An Enzyme Capable of Hydrolyzing Organophosphate Flame Retardants and Plasticizers. <b>2015</b> , 54, 7539-49	25

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1159	The elicitor-like glycoprotein, ELI025, is secreted by the pathogenic oomycete <i>Pythium insidiosum</i> and evades host antibody responses. <b>2015</b> , 10, e0118547	17
1158	Mo-CBP3, an antifungal chitin-binding protein from <i>Moringa oleifera</i> seeds, is a member of the 2S albumin family. <b>2015</b> , 10, e0119871	38
1157	Comprehensive analysis of temporal alterations in cellular proteome of <i>Bacillus subtilis</i> under curcumin treatment. <b>2015</b> , 10, e0120620	1
1156	Proteomic Investigation of the Response of <i>Enterococcus faecalis</i> V583 when Cultivated in Urine. <b>2015</b> , 10, e0126694	18
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1154	Altered Protein Expression in the Ileum of Mice Associated with the Development of Chronic Infections with <i>Echinostoma caproni</i> (Trematoda). <b>2015</b> , 9, e0004082	10
1153	Poly (A) Binding Protein Cytoplasmic 1 Is a Novel Co-Regulator of the Androgen Receptor. <b>2015</b> , 10, e0128495	11
1152	Citrus tristeza virus (CTV) Causing Proteomic and Enzymatic Changes in Sweet Orange Variety "Westin". <b>2015</b> , 10, e0130950	17
1151	Prospection and Evaluation of (Hemi) Cellulolytic Enzymes Using Untreated and Pretreated Biomasses in Two Argentinean Native Termites. <b>2015</b> , 10, e0136573	18
1150	Proteomic Analysis of the Ubiquitin Landscape in the <i>Drosophila</i> Embryonic Nervous System and the Adult Photoreceptor Cells. <b>2015</b> , 10, e0139083	21
1149	A Metabolic Probe-Enabled Strategy Reveals Uptake and Protein Targets of Polyunsaturated Aldehydes in the Diatom <i>Phaeodactylum tricornutum</i> . <b>2015</b> , 10, e0140927	2
1148	Sperm Proteome Maturation in the Mouse Epididymis. <b>2015</b> , 10, e0140650	63
1147	Identification of B6T173 ( <i>ZmPrx35</i> ) as the prevailing peroxidase in highly insect-resistant maize ( <i>Zea mays</i> , p84C3) kernels by activity-directed purification. <b>2015</b> , 6, 670	7
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1144	Tau stabilizes microtubules by binding at the interface between tubulin heterodimers. <b>2015</b> , 112, 7501-6	270
1143	Subunit Interactions within the Carbon-Phosphorus Lyase Complex from <i>Escherichia coli</i> . <b>2015</b> , 54, 3400-11	8



1142	Prmt5 is a regulator of muscle stem cell expansion in adult mice. <b>2015</b> , 6, 7140	71
1141	<i>Helicobacter pylori</i> vesicles carrying CagA localize in the vicinity of cell-cell contacts and induce histone H1 binding to ATP in epithelial cells. <b>2015</b> , 362,	23
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1138	Site-specific methylation of Notch1 controls the amplitude and duration of the Notch1 response. <b>2015</b> , 8, ra30	44
1137	Mitotic Control of Planar Cell Polarity by Polo-like Kinase 1. <b>2015</b> , 33, 522-34	32
1136	Infiltration of chitin by protein coacervates defines the squid beak mechanical gradient. <b>2015</b> , 11, 488-95	98
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1134	Profiling of urinary proteins in Karan Fries cows reveals more than 1550 proteins. <b>2015</b> , 127, 193-201	24
1133	Acute-phase protein behavior in dairy cattle herd naturally infected with <i>Trypanosoma vivax</i> . <b>2015</b> , 211, 141-5	6
1132	Determination of the Mercury Fraction Linked to Protein of Muscle and Liver Tissue of Tucunaré ( <i>Cichla</i> spp.) from the Amazon Region of Brazil. <b>2015</b> , 69, 422-30	18
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1129	The central nervous system transcriptome of the weakly electric brown ghost knifefish ( <i>Apteronotus leptorhynchus</i> ): de novo assembly, annotation, and proteomics validation. <b>2015</b> , 16, 166	14
1128	Dynamic digestive physiology of a female reproductive organ in a polyandrous butterfly. <b>2015</b> , 218, 1548-55	17
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1120	Purification and characterization of a cytochrome c with novel caspase-3 activation activity from the pathogenic fungus <i>Rhizopus arrhizus</i> . <b>2015</b> , 16, 21	5
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1116	Structure of a fungal form of aspartate semialdehyde dehydrogenase from <i>Cryptococcus neoformans</i> . <b>2015</b> , 71, 1365-71	7
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1114	TET3 is recruited by REST for context-specific hydroxymethylation and induction of gene expression. <b>2015</b> , 11, 283-94	92
1113	Differences in urinary proteins related to surgical margin status after radical prostatectomy. <b>2015</b> , 34, 3247-55	7
1112	An enhanced in vivo stable isotope labeling by amino acids in cell culture (SILAC) model for quantification of drug metabolism enzymes. <b>2015</b> , 14, 750-60	6
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1105	A look behind the screens: characterization of the HSP70 family during osmotic stress in a non-model crop. <b>2015</b> , 119, 10-20	18
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1098	Rapid analyses of proteomes and interactomes using an integrated solid-phase extraction-liquid chromatography-MS/MS system. <b>2015</b> , 14, 977-85	5
1097	Identification, cloning and heterologous expression of active [NiFe]-hydrogenase 2 from <i>Citrobacter</i> sp. SG in <i>Escherichia coli</i> . <b>2015</b> , 199, 1-8	4
1096	Changes in protein expression across laboratory and field experiments in <i>Geobacter bemidjiensis</i> . <b>2015</b> , 14, 1361-75	13
1095	Development and application of a quantitative multiplexed small GTPase activity assay using targeted proteomics. <b>2015</b> , 14, 967-76	11
1094	Optimization of a multi-stage, multi-subunit malaria vaccine candidate for the production in <i>Pichia pastoris</i> by the identification and removal of protease cleavage sites. <b>2015</b> , 112, 659-67	9
1093	Two distinct families of protein kinases are required for plant growth under high external Mg <sup>2+</sup> concentrations in <i>Arabidopsis</i> . <b>2015</b> , 167, 1039-57	38
1092	Simultaneous dissection and comparison of IL-2 and IL-15 signaling pathways by global quantitative phosphoproteomics. <b>2015</b> , 15, 520-31	19
1091	Immuno-affinity purification of PglPGIP1, a polygalacturonase-inhibitor protein from pearl millet: studies on its inhibition of fungal polygalacturonases and role in resistance against the downy mildew pathogen. <b>2015</b> , 42, 1123-38	8
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1087	Spleen-specific isoforms of Pax5 and Ataxin-7 as potential proteomic markers of lymphoma-affected spleen. <b>2015</b> , 402, 181-91	3
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1085	Conservation of complete trimethylation of lysine-43 in the rotor ring of c-subunits of metazoan adenosine triphosphate (ATP) synthases. <b>2015</b> , 14, 828-40	23
1084	Arginine deprivation affects glioblastoma cell adhesion, invasiveness and actin cytoskeleton organization by impairment of $\beta$ -actin arginylation. <b>2015</b> , 47, 199-212	29
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1081	Thiol-based regulation of glyceraldehyde-3-phosphate dehydrogenase in blood bank-stored red blood cells: a strategy to counteract oxidative stress. <b>2015</b> , 55, 499-506	19
1080	Evidence of histidine and aspartic acid phosphorylation in human prostate cancer cells. <b>2015</b> , 388, 161-73	7
1079	Proteomic identification and functional characterization of MYH9, Hsc70, and DNAJA1 as novel substrates of HDAC6 deacetylase activity. <b>2015</b> , 6, 42-54	44
1078	A comprehensive proteomic analysis of totarol induced alterations in <i>Bacillus subtilis</i> by multipronged quantitative proteomics. <b>2015</b> , 114, 247-62	19
1077	Changes in protein expression of pacific oyster <i>Crassostrea gigas</i> exposed in situ to urban sewage. <b>2015</b> , 22, 17267-79	12
1076	Urine sample preparation in 96-well filter plates to characterize inflammatory and infectious diseases of the urinary tract. <b>2015</b> , 845, 77-87	4
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1073	The stromal cell-surface protease fibroblast activation protein- $\beta$ localizes to lipid rafts and is recruited to invadopodia. <b>2015</b> , 1853, 2515-25	15
1072	Stable isotope labeling by amino acids in cell culture based proteomics reveals differences in protein abundances between spiral and coccoid forms of the gastric pathogen <i>Helicobacter pylori</i> . <b>2015</b> , 126, 34-45	10
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1070	Association of a characteristic membrane pattern of annexin A2 with high invasiveness and nodal status in colon adenocarcinoma. <b>2015</b> , 166, 196-206	11
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1064	Facile Discovery of Cell-Surface Protein Targets of Cancer Cell Aptamers. <b>2015</b> , 14, 2692-700	26
1063	Cellular Proteome Dynamics during Differentiation of Human Primary Myoblasts. <b>2015</b> , 14, 3348-61	23
1062	Purification of TNFR-Fc produced in recombinant CHO cells: Characterization of product-related impurities. <b>2015</b> , 50, 1313-1317	3
1061	Proteomic Analysis of Connexin 43 Reveals Novel Interactors Related to Osteoarthritis. <b>2015</b> , 14, 1831-45	24
1060	Proteomic analysis of homocholine catabolic pathway in Pseudomonas sp. strain A9. <b>2015</b> , 50, 1735-1747	3
1059	Activation of Autophagic Flux against Xenoestrogen Bisphenol-A-induced Hippocampal Neurodegeneration via AMP kinase (AMPK)/Mammalian Target of Rapamycin (mTOR) Pathways. <b>2015</b> , 290, 21163-21184	56
1058	Proteomic Profiling and Functional Characterization of Multiple Post-Translational Modifications of Tubulin. <b>2015</b> , 14, 3292-304	25
1057	A Dual SILAC Proteomic Labeling Strategy for Quantifying Constitutive and Cell-Cell Induced Protein Secretion. <b>2015</b> , 14, 3229-38	11
1056	Structure of human ST8SialIII sialyltransferase provides insight into cell-surface polysialylation. <b>2015</b> , 22, 627-35	55
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1052	Maternal stress predicts altered biogenesis and the profile of mitochondrial proteins in the frontal cortex and hippocampus of adult offspring rats. <b>2015</b> , 60, 151-62	44
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1049	Centromere protein F includes two sites that couple efficiently to depolymerizing microtubules. <b>2015</b> , 209, 813-28	36
1048	Mechanisms of antibiotic resistance to enrofloxacin in uropathogenic Escherichia coli in dog. <b>2015</b> , 127, 365-76	29
1047	The DEAH-box helicase Dhr1 dissociates U3 from the pre-rRNA to promote formation of the central pseudoknot. <b>2015</b> , 13, e1002083	49
1046	Transcriptomic and Proteomic Profiling of Anabaena sp. Strain 90 under Inorganic Phosphorus Stress. <b>2015</b> , 81, 5212-22	28
1045	Impact of the antifungal protein PgAFP from Penicillium chrysogenum on the protein profile in Aspergillus flavus. <b>2015</b> , 99, 8701-15	32
1044	Proteomic challenges: sample preparation techniques for microgram-quantity protein analysis from biological samples. <b>2015</b> , 16, 3537-63	174
1043	Cadmium toxicity in diazotrophic Anabaena spp. adjudged by hasty up-accumulation of transporter and signaling and severe down-accumulation of nitrogen metabolism proteins. <b>2015</b> , 127, 134-46	38
1042	The Drosophila retinoblastoma binding protein 6 family member has two isoforms and is potentially involved in embryonic patterning. <b>2015</b> , 16, 10242-66	3
1041	A chromophore-containing agglutinin from Haliclona manglaris: purification and biochemical characterization. <b>2015</b> , 72, 1368-75	3
1040	Dissection of metabolic pathways in the Db/Db mouse model by integrative proteome and acetyloyme analysis. <b>2015</b> , 11, 908-22	15
1039	Differences in the resting platelet proteome and platelet releasate between healthy children and adults. <b>2015</b> , 123, 78-88	20
1038	Expression and purification of buffalo interferon-tau and efficacy of recombinant buffalo interferon-tau for in vitro embryo development. <b>2015</b> , 75, 186-96	5
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1035	Proteomic identification of plasma proteins as markers of growth promoter abuse in cattle. <b>2015</b> , 407, 4495-507	19

1034	TRAMM/TrappC12 plays a role in chromosome congression, kinetochore stability, and CENP-E recruitment. <b>2015</b> , 209, 221-34	22
1033	Development of blood transfusion product pathogen reduction treatments: a review of methods, current applications and demands. <b>2015</b> , 52, 19-34	79
1032	Identification and functional characterization of intracellular sialidase NeuA3 from <i>Streptomyces avermitilis</i> . <b>2015</b> , 50, 752-758	3
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1027	Comparative study of the protein profiles of Sunki mandarin and Rangpur lime plants in response to water deficit. <b>2015</b> , 15, 69	22
1026	Comparative proteomic analysis of <i>Salmonella typhimurium</i> LT2 and its hisG gene inactivated mutant. <b>2015</b> , 30, 48-56	1
1025	Phosphoproteomic analysis of wild-type and antimony-resistant <i>Leishmania braziliensis</i> lines by 2D-DIGE technology. <b>2015</b> , 15, 2999-3019	25
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122	Electrophoretic Detection of Black Market Myostatin Propeptide.	0
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