

CITATION REPORT

List of articles citing

The ubiquitin system

DOI: 10.1146/annurev.biochem.67.1.425

Annual Review of Biochemistry, 1998, 67, 425-79.

Source: <https://exaly.com/paper-pdf/28886959/citation-report.pdf>

Version: 2024-04-20

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2257	A novel site for ubiquitination: the N-terminal residue, and not internal lysines of MyoD, is essential for conjugation and degradation of the protein. 1998 , 17, 5964-73		206
2256	The ubiquitin-proteasome pathway: on protein death and cell life. 1998 , 17, 7151-60		1058
2255	The ubiquitin system. <i>Annual Review of Biochemistry</i> , 1998 , 67, 425-79	29.1	6758
2254	Identification of the receptor component of the I kappa B alpha-ubiquitin ligase. 1998 , 396, 590-4		591
2253	Regulation of activity of the transcription factor GATA-1 by acetylation. 1998 , 396, 594-8		638
2252	The MHC class I ligand-generating system: roles of immunoproteasomes and the interferon-gamma-inducible proteasome activator PA28. 1998 , 163, 161-76		264
2251	The proteasome: a protein-destroying machine. 1998 , 3, 499-510		81
2250	Molecular biology of the proteasome. 1998 , 247, 537-41		82
2249	Di-leucine-mediated internalization of ligand by a truncated growth hormone receptor is independent of the ubiquitin conjugation system. 1998 , 273, 16426-33		36
2248	Differential sensitivity of breast cancer and melanoma cells to proteasome inhibitor Velcade. 1998 , 22, 817		0
2247	Is NF- κ B the sensor of oxidative stress?. 1999 , 13, 1137-1143		729
2246	The NF-kappa B activation pathway: a paradigm in information transfer from membrane to nucleus. 1999 , 1999, RE1		295
2245	COP9 signalosome-directed c-Jun activation/stabilization is independent of JNK. 1999 , 274, 35297-300		117
2244	Interaction between RGS7 and polycystin. 1999 , 96, 6371-6		144
2243	Ubiquitin cross-reactive protein gene expression is increased in decidualized endometrial stromal cells at the initiation of pregnancy. 1999 , 5, 966-72		29
2242	cDNA cloning, characterization, and chromosome mapping of UBE2E3 (alias Ubch9), encoding an N-terminally extended human ubiquitin-conjugating enzyme. 1999 , 84, 99-104		7
2241	The Doa4 deubiquitinating enzyme is required for ubiquitin homeostasis in yeast. 1999 , 10, 2583-94		246

2240	Human BUBR1 is a mitotic checkpoint kinase that monitors CENP-E functions at kinetochores and binds the cyclosome/APC. 1999 , 146, 941-54	311
2239	The Arabidopsis cullin AtCUL1 is modified by the ubiquitin-related protein RUB1. 1999 , 96, 15342-7	152
2238	Identification of rabbit reticulocyte E217K as a UBC7 homologue and functional characterization of its core domain loop. 1999 , 274, 14685-91	9
2237	Multiubiquitin chain binding subunit MCB1 (RPN10) of the 26S proteasome is essential for developmental progression in <i>Physcomitrella patens</i> . 1999 , 11, 1457-72	85
2236	Ligand-induced ubiquitination of the epidermal growth factor receptor involves the interaction of the c-Cbl RING finger and UbCH7. 1999 , 274, 31707-12	272
2235	E2/E3-mediated assembly of lysine 29-linked polyubiquitin chains. 1999 , 274, 27299-306	54
2234	RING fingers mediate ubiquitin-conjugating enzyme (E2)-dependent ubiquitination. 1999 , 96, 11364-9	945
2233	Temperature-sensitive ZAP70 mutants degrading through a proteasome-independent pathway. Restoration of a kinase domain mutant by Cdc37. 1999 , 274, 34515-8	47
2232	Cell cycle-regulated attachment of the ubiquitin-related protein SUMO to the yeast septins. 1999 , 147, 981-94	333
2231	Identification of the ubiquitin carrier proteins, E2s, involved in signal-induced conjugation and subsequent degradation of I κ B α . 1999 , 274, 14823-30	99
2230	p57(Kip2) is degraded through the proteasome in osteoblasts stimulated to proliferation by transforming growth factor beta1. 1999 , 274, 12197-200	65
2229	The beginning of the end: I κ B kinase (IKK) and NF- κ B activation. 1999 , 274, 27339-42	542
2228	The import pathway of human and <i>Thermoplasma</i> 20S proteasomes into HeLa cell nuclei is different from that of classical NLS-bearing proteins. 1999 , 380, 1183-92	11
2227	VHL: a very hip ligase. 1999 , 96, 12230-2	43
2226	Covalent modification of the homeodomain-interacting protein kinase 2 (HIPK2) by the ubiquitin-like protein SUMO-1. 1999 , 96, 12350-5	143
2225	The RING finger of c-Cbl mediates desensitization of the epidermal growth factor receptor. 1999 , 274, 22151-4	246
2224	The ubiquitin-proteasome pathway and serine kinase activity modulate adenomatous polyposis coli protein-mediated regulation of beta-catenin-lymphocyte enhancer-binding factor signaling. 1999 , 274, 16641-5	56
2223	beta-TrCP mediates the signal-induced ubiquitination of I κ B β . 1999 , 274, 29591-4	54

2222	The catalytic sites of 20S proteasomes and their role in subunit maturation: a mutational and crystallographic study. 1999 , 96, 10976-83	242
2221	Neurite outgrowth in PC12 cells. Distinguishing the roles of ubiquitylation and ubiquitin-dependent proteolysis. 1999 , 274, 11789-95	85
2220	Molecular dissection of the interactions among I κ B α , FWD1, and Skp1 required for ubiquitin-mediated proteolysis of I κ B α . 1999 , 274, 29641-7	36
2219	Characterization and dynamics of aggresome formation by a cytosolic GFP-chimera. 1999 , 146, 1239-54	514
2218	The conserved SOCS box motif in suppressors of cytokine signaling binds to elongins B and C and may couple bound proteins to proteasomal degradation. 1999 , 96, 2071-6	535
2217	Growth retardation in mice lacking the proteasome activator PA28 γ . 1999 , 274, 38211-5	141
2216	The role of multiubiquitination in dislocation and degradation of the alpha subunit of the T cell antigen receptor. 1999 , 274, 36852-8	102
2215	C-terminal truncations destabilize the cystic fibrosis transmembrane conductance regulator without impairing its biogenesis. A novel class of mutation. 1999 , 274, 21873-7	141
2214	The sizes of peptides generated from protein by mammalian 26 and 20 S proteasomes. Implications for understanding the degradative mechanism and antigen presentation. 1999 , 274, 3363-71	429
2213	A new 30-kDa ubiquitin-related SUMO-1 hydrolase from bovine brain. 1999 , 274, 31131-4	66
2212	Structure and mechanism of ATP-dependent proteases. 1999 , 3, 584-91	65
2211	Proteasome inhibition by the natural products epoxomicin and dihydroeponemycin: insights into specificity and potency. 1999 , 9, 3335-40	100
2210	Structural and functional analysis of the six regulatory particle triple-A ATPase subunits from the Arabidopsis 26S proteasome. 1999 , 18, 529-39	69
2209	Isolation of a novel SUMO protein from tomato that suppresses EIX-induced cell death. 1999 , 19, 533-41	81
2208	UPL1 and 2, two 405 kDa ubiquitin-protein ligases from Arabidopsis thaliana related to the HECT-domain protein family. 1999 , 20, 183-95	37
2207	The deubiquitinating enzyme Fam interacts with and stabilizes beta-catenin. 1999 , 4, 757-67	113
2206	Upregulation of RGS7 may contribute to tumor necrosis factor-induced changes in central nervous function. 1999 , 5, 913-8	62
2205	SKP2 is required for ubiquitin-mediated degradation of the CDK inhibitor p27. 1999 , 1, 193-9	1304

2204	The base of the proteasome regulatory particle exhibits chaperone-like activity. 1999 , 1, 221-6	411
2203	Intragenic deletion in the gene encoding ubiquitin carboxy-terminal hydrolase in gad mice. 1999 , 23, 47-51	405
2202	Moving protein heads for breakdown. 1999 , 398, 103-4	19
2201	A SMAD ubiquitin ligase targets the BMP pathway and affects embryonic pattern formation. 1999 , 400, 687-93	690
2200	CUL-2 is required for the G1-to-S-phase transition and mitotic chromosome condensation in <i>Caenorhabditis elegans</i> . 1999 , 1, 486-92	108
2199	Covalent modification of all members of human cullin family proteins by NEDD8. 1999 , 18, 6829-34	248
2198	How NF-kappaB is activated: the role of the IkappaB kinase (IKK) complex. 1999 , 18, 6867-74	984
2197	The specificity of proteasomes: impact on MHC class I processing and presentation of antigens. 1999 , 172, 29-48	67
2196	Thymocyte apoptosis. 1999 , 19, 337-49	19
2195	Polypeptide tags, ubiquitous modifiers for plant protein regulation. 1999 , 41, 435-42	52
2194	Activator complexes containing the proteasomal regulatory ATPases S10b (SUG2) and S6 (TBP1) in different tissues and organisms. 1999 , 26, 35-8	3
2193	The proteasome-dependent proteolytic system. 1999 , 26, 3-9	34
2192	Structure and functional analysis of the 26S proteasome subunits from plants. 1999 , 26, 137-46	36
2191	Assembly of the regulatory complex of the 26S proteasome. 1999 , 26, 15-9	29
2190	Degradation of MyoD by the ubiquitin pathway: regulation by specific DNA-binding and identification of a novel site for ubiquitination. 1999 , 26, 59-64	18
2189	GFP-labelling of 26S proteasomes in living yeast: insight into proteasomal functions at the nuclear envelope/rough ER. 1999 , 26, 131-5	48
2188	Identification of a novel ubiquitin conjugation motif, required for ligand-induced internalization of the growth hormone receptor. 1999 , 18, 28-36	153
2187	Eukaryotic 20S proteasome catalytic subunit propeptides prevent active site inactivation by N-terminal acetylation and promote particle assembly. 1999 , 18, 3575-85	116

2186	Apg16p is required for the function of the Apg12p-Apg5p conjugate in the yeast autophagy pathway. 1999 , 18, 3888-96	339
2185	Apg10p, a novel protein-conjugating enzyme essential for autophagy in yeast. 1999 , 18, 5234-41	216
2184	Degradation of cell proteins and the generation of MHC class I-presented peptides. 1999 , 17, 739-79	789
2183	Ubiquitin-mediated proteolysis in learning and memory. 1999 , 20, 125-42	47
2182	Genetic evidence for interaction between components of the yeast 26S proteasome: combination of a mutation in RPN12 (a lid component gene) with mutations in RPT1 (an ATPase gene) causes synthetic lethality. 1999 , 262, 145-53	6
2181	Expression of inositol trisphosphate receptors. 1999 , 26, 237-51	246
2180	The F-box: a new motif for ubiquitin dependent proteolysis in cell cycle regulation and signal transduction. 1999 , 72, 299-328	223
2179	A family of mammalian F-box proteins. 1999 , 9, 1180-2	307
2178	Deletion of the Cul1 gene in mice causes arrest in early embryogenesis and accumulation of cyclin E. 1999 , 9, 1191-4	120
2177	Ubiquitin pathway: another link in the polyubiquitin chain?. 1999 , 9, R554-7	31
2176	Nedd4-like proteins: an emerging family of ubiquitin-protein ligases implicated in diverse cellular functions. 1999 , 9, 166-9	175
2175	Retrograde protein translocation: ERADication of secretory proteins in health and disease. 1999 , 24, 266-70	333
2174	Characterization of a temperature-sensitive mutant of a ubiquitin-conjugating enzyme and its use as a heat-inducible degradation signal. 1999 , 272, 263-9	14
2173	Protein misfolding and degradation in genetic diseases. 1999 , 14, 186-98	151
2172	Effect of epitope flanking residues on the presentation of N-terminal cytotoxic T lymphocyte epitopes. 1999 , 29, 2213-22	25
2171	Tyrosine kinase-dependent ubiquitination of CD16 zeta subunit in human NK cells following receptor engagement. 1999 , 29, 3179-87	18
2170	A ubiquitin-like protein which is synergistically inducible by interferon-gamma and tumor necrosis factor-alpha. 1999 , 29, 4030-6	99
2169	One ring to rule a superfamily of E3 ubiquitin ligases. 1999 , 284, 601, 603-4	135

2168	Cloning genes encoding MHC class II-restricted antigens: mutated CDC27 as a tumor antigen. 1999 , 284, 1351-4		262
2167	The 26S proteasome: a molecular machine designed for controlled proteolysis. <i>Annual Review of Biochemistry</i> , 1999 , 68, 1015-68	29.1	1583
2166	Discovering novel chemotherapeutic drugs for the third millennium. 1999 , 35, 2010-30		117
2165	Function of the ubiquitin-proteasome pathway in auxin response. 1999 , 4, 107-112		82
2164	Altered states: programmed proteolysis and the budding yeast cell cycle. 1999 , 2, 610-7		6
2163	Ubiquitin ligase activity and tyrosine phosphorylation underlie suppression of growth factor signaling by c-Cbl/Sli-1. 1999 , 4, 1029-40		847
2162	Ras enhances Myc protein stability. 1999 , 3, 169-79		371
2161	Proteasome active sites allosterically regulate each other, suggesting a cyclical bite-chew mechanism for protein breakdown. 1999 , 4, 395-402		234
2160	Mechanisms for generating the autonomous cAMP-dependent protein kinase required for long-term facilitation in <i>Aplysia</i> . 1999 , 22, 147-56		163
2159	Yeast tom1 mutant exhibits pleiotropic defects in nuclear division, maintenance of nuclear structure and nucleocytoplasmic transport at high temperatures. 1999 , 234, 285-95		29
2158	The ubiquitin system in gametogenesis. 1999 , 151, 5-16		80
2157	Purification and characterization of the 26S proteasome from cultured rice (<i>Oryza sativa</i>) cells. 1999 , 149, 33-41		16
2156	The tyrosine kinase negative regulator c-Cbl as a RING-type, E2-dependent ubiquitin-protein ligase. 1999 , 286, 309-12		914
2155	Integration of signaling networks that regulate <i>Dictyostelium</i> differentiation. 1999 , 15, 469-517		139
2154	Molecular cloning and characterization of human AOS1 and UBA2, components of the sentrin-activating enzyme complex. 1999 , 448, 185-9		126
2153	Identification, molecular cloning, and characterization of subunit 11 of the human 26S proteasome. 1999 , 449, 88-92		3
2152	Discrimination between ubiquitin-dependent and ubiquitin-independent proteolytic pathways by the 26S proteasome subunit 5a. 1999 , 450, 123-5		8
2151	Mutational analysis of subunit i beta2 (MECL-1) demonstrates conservation of cleavage specificity between yeast and mammalian proteasomes. 1999 , 454, 11-5		25

2150	A family of structurally related RING finger proteins interacts specifically with the ubiquitin-conjugating enzyme UbcM4. 1999 , 454, 257-61	45
2149	A complex containing betaTrCP recruits Cdc34 to catalyse ubiquitination of IkappaBalph. 1999 , 455, 311-4	17
2148	The proteasome inhibitor PI31 competes with PA28 for binding to 20S proteasomes. 1999 , 457, 333-8	67
2147	Molecular cloning of cDNA encoding a cyclin-selective ubiquitin carrier protein (E2-C) from <i>Carassius auratus</i> (goldfish) and expression analysis of the cloned gene. 1999 , 458, 375-7	9
2146	Substrate targeting in the ubiquitin system. 1999 , 97, 427-30	395
2145	Secretagogues cause ubiquitination and down-regulation of inositol 1, 4,5-trisphosphate receptors in rat pancreatic acinar cells. 1999 , 116, 1194-201	50
2144	Introduction to Programmed proteolysis and the control of cell division. A Discussion Meeting held at the Royal Society on 4 and 5 November 1998. 1999 , 354, 1499-1500	78
2143	The proteasome: a macromolecular assembly designed for controlled proteolysis. 1999 , 354, 1501-11	83
2142	SCF ubiquitin protein ligases and phosphorylation-dependent proteolysis. 1999 , 354, 1533-50	107
2141	Two distinct ubiquitin-proteolysis pathways in the fission yeast cell cycle. 1999 , 354, 1551-7	16
2140	Mechanisms and regulation of the degradation of cyclin B. 1999 , 354, 1571-5; discussion 1575-6	74
2139	Control of NF-kappa B transcriptional activation by signal induced proteolysis of I kappa B alpha. 1999 , 354, 1601-9	70
2138	Genetics of Angelman syndrome. 1999 , 65, 1-6	158
2137	Calpains: physiological and pathophysiological significance. 1999 , 6, 91-102	8
2136	Ubiquitin binding interface mapping on yeast ubiquitin hydrolase by NMR chemical shift perturbation. 1999 , 38, 9242-53	23
2135	Crystal structure of the cyclin-specific ubiquitin-conjugating enzyme from clam, E2-C, at 2.0 A resolution. 1999 , 38, 6471-8	23
2134	The ubiquitin-conjugating enzymes UbcH7 and UbcH8 interact with RING finger/IBR motif-containing domains of HHARI and H7-AP1. 1999 , 274, 30963-8	95
2133	The ubiquitin-proteasome pathway and pathogenesis of human diseases. 1999 , 50, 57-74	382

2132	Identification of the von Hippel-lindau tumor-suppressor protein as part of an active E3 ubiquitin ligase complex. 1999 , 96, 12436-41	411
2131	Subunits and substrates of the anaphase-promoting complex. 1999 , 248, 339-49	108
2130	Accumulating active p53 in the nucleus by inhibition of nuclear export: a novel strategy to promote the p53 tumor suppressor function. 1999 , 253, 315-24	57
2129	The BTRC gene, encoding a human F-box/WD40-repeat protein, maps to chromosome 10q24-q25. 1999 , 58, 104-5	6
2128	USP25, a novel gene encoding a deubiquitinating enzyme, is located in the gene-poor region 21q11.2. 1999 , 62, 395-405	36
2127	Proteasome beta-type subunits: unequal roles of propeptides in core particle maturation and a hierarchy of active site function. 1999 , 291, 997-1013	106
2126	The binding site for UCH-L3 on ubiquitin: mutagenesis and NMR studies on the complex between ubiquitin and UCH-L3. 1999 , 291, 1067-77	37
2125	cbl-b inhibits EGF-receptor-induced apoptosis by enhancing ubiquitination and degradation of activated receptors. 1999 , 2, 111-8	44
2124	Subunit compositions and catalytic properties of proteasomes from developmental temperature-sensitive mutants of <i>Drosophila melanogaster</i> . 1999 , 368, 85-97	27
2123	IkappaBalpha ubiquitination is catalyzed by an SCF-like complex containing Skp1, cullin-1, and two F-box/WD40-repeat proteins, betaTrCP1 and betaTrCP2. 1999 , 256, 127-32	112
2122	In vivo and in vitro recruitment of an IkappaBalpha-ubiquitin ligase to IkappaBalpha phosphorylated by IKK, leading to ubiquitination. 1999 , 256, 121-6	29
2121	Characterization of an oxygen/redox-dependent degradation domain of hypoxia-inducible factor alpha (HIF-alpha) proteins. 1999 , 260, 557-61	118
2120	Molecular cloning of chick UCH-6 which shares high similarity with human UCH-L3: its unusual substrate specificity and tissue distribution. 1999 , 264, 235-40	6
2119	Deubiquitinating enzymes: their diversity and emerging roles. 1999 , 266, 633-40	150
2118	Posttranslational quality control: folding, refolding, and degrading proteins. 1999 , 286, 1888-93	930
2117	Ubiquitin-dependent signaling: the role of ubiquitination in the response of cells to their environment. 1999 , 129, 1933-6	58
2116	Chapter 2: Degradation of Gap Junctions and Connexins. 1999 , 49, 23-41	1
2115	Ubiquitin system: selectivity and timing of protein destruction. 1999 , 125, 223-9	33

2114	Rpn9 is required for efficient assembly of the yeast 26S proteasome. 1999 , 19, 6575-84	59
2113	Isolation and characterization of cytosolic and membrane-bound deubiquitinating enzymes from bovine brain. 1999 , 126, 612-23	15
2112	Structural motifs involved in ubiquitin-mediated processing of the NF-kappaB precursor p105: roles of the glycine-rich region and a downstream ubiquitination domain. 1999 , 19, 3664-73	101
2111	ATP-Dependent inactivation and sequestration of ornithine decarboxylase by the 26S proteasome are prerequisites for degradation. 1999 , 19, 7216-27	44
2110	The proteasome activator 11 S REG (PA28) and Class I antigen presentation. 2000 , 345, 1	92
2109	Ligand binding directly stimulates ubiquitination of the inositol 1,4,5-trisphosphate receptor. 2000 , 348, 551	11
2108	The proteasome activator 11 S REG (PA28) and Class I antigen presentation. 2000 , 345, 1-15	209
2107	Ligand binding directly stimulates ubiquitination of the inositol 1,4,5-trisphosphate receptor. 2000 , 348, 551-556	29
2106	Burn injury upregulates the activity and gene expression of the 20 S proteasome in rat skeletal muscle. 2000 , 99, 181-187	35
2105	Burn injury upregulates the activity and gene expression of the 20 S proteasome in rat skeletal muscle. 2000 , 99, 181	20
2104	Amino acid regulation of gene expression. 2000 , 351, 1-12	132
2103	Amino acid regulation of gene expression. 2000 , 351, 1-12	208
2102	Characterisation of the human and mouse orthologues of the Drosophila ariadne gene. 2000 , 90, 242-5	6
2101	Degradation of the transcription factor Gcn4 requires the kinase Pho85 and the SCF(CDC4) ubiquitin-ligase complex. 2000 , 11, 915-27	113
2100	Proteasome inhibitors as anti-cancer agents. 2000 , 11, 407-17	40
2099	Anabolic and catabolic mediators of intestinal protein turnover: a new experimental approach. 2000 , 3, 183-9	7
2098	Parkin is metabolized by the ubiquitin/proteasome system. 2000 , 11, 2635-8	44
2097	Rapid turnover of tryptophan hydroxylase is driven by proteasomes in RBL2H3 cells, a serotonin producing mast cell line. 2000 , 127, 121-7	21

2096	The ubiquitin-mediated proteolytic pathway: mode of action and clinical implications. 2000 , 34, 40-51	217
2095	Structure and regulation of opioid receptors. 2000 , 55, 334-46	74
2094	Linking Notch signaling, chromatin remodeling, and T-cell leukemogenesis. 2000 , Suppl 35, 46-53	30
2093	Histidine-tagged ubiquitin substitutes for wild-type ubiquitin in <i>Saccharomyces cerevisiae</i> and facilitates isolation and identification of in vivo substrates of the ubiquitin pathway. 2000 , 282, 54-64	30
2092	Regulation of the epithelial Na ⁺ channel by Nedd4 and ubiquitination. 2000 , 57, 809-15	168
2091	Autosomal recessive juvenile parkinsonism: a key to understanding nigral degeneration in sporadic Parkinson's disease. 2000 , 20 Suppl, S85-90	84
2090	Tansley Review No. 118: Post-ingestion metabolism of fresh forage. 2000 , 148, 37-55	36
2089	Degradation of transcription factor IRF-1 by the ubiquitin-proteasome pathway. The C-terminal region governs the protein stability. 2000 , 267, 1680-6	67
2088	Proteome analysis reveals ubiquitin-conjugating enzymes to be a new family of interferon-alpha-regulated genes. 2000 , 267, 4011-9	80
2087	Probing the proteasome pathway. 2000 , 18, 494-6	14
2086	Short-lived green fluorescent proteins for quantifying ubiquitin/proteasome-dependent proteolysis in living cells. 2000 , 18, 538-43	466
2085	Familial Parkinson disease gene product, parkin, is a ubiquitin-protein ligase. 2000 , 25, 302-5	1684
2084	Basic Medical Research Award. The ubiquitin system. 2000 , 6, 1073-81	549
2083	A ubiquitin-based tagging system for controlled modulation of protein stability. 2000 , 18, 1298-302	77
2082	Understanding IAP function and regulation: a view from <i>Drosophila</i> . 2000 , 7, 1045-56	115
2081	The IAP family: endogenous caspase inhibitors with multiple biological activities. 2000 , 10, 169-77	237
2080	Differential interaction of plakoglobin and beta-catenin with the ubiquitin-proteasome system. 2000 , 19, 1992-2001	58
2079	An N-terminal p14ARF peptide blocks Mdm2-dependent ubiquitination in vitro and can activate p53 in vivo. 2000 , 19, 2312-23	223

2078	The structures of HslU and the ATP-dependent protease HslU-HslV. 2000 , 403, 800-5	378
2077	Peptides accelerate their uptake by activating a ubiquitin-dependent proteolytic pathway. 2000 , 405, 579-83	165
2076	Ubiquitin biology: an old dog learns an old trick. 2000 , 2, E139-41	16
2075	LAP proteins: what's up with epithelia?. 2000 , 2, E141-3	41
2074	The meteoric rise of regulated intracellular proteolysis. 2000 , 1, 145-8	47
2073	A ubiquitin-like system mediates protein lipidation. 2000 , 408, 488-92	1494
2072	An update of pTRIDENT multicistronic expression vectors: pTRIDENTs containing novel streptogramin-responsive promoters. 2000 , 16, 724-35	35
2071	Protein degradation in signaling. 2000 , 3, 381-6	175
2070	Smads as transcriptional co-modulators. 2000 , 12, 235-43	466
2069	The U box is a modified RING finger - a common domain in ubiquitination. 2000 , 10, R132-4	309
2068	Transcriptional regulation: Kamikaze activators. 2000 , 10, R341-3	80
2067	Membrane biology: membrane-regulated transcription. 2000 , 10, R869-71	21
2066	Regulation and function of the p53-related proteins: same family, different rules. 2000 , 10, 197-202	95
2065	Intracellular targeting of the proteasome. 2000 , 10, 268-72	94
2064	Ubiquitin in chains. 2000 , 25, 544-8	385
2063	Does failure of parkin-mediated ubiquitination cause juvenile parkinsonism?. 2000 , 25, 524-7	28
2062	Regulatory subunit interactions of the 26S proteasome, a complex problem. 2000 , 25, 83-8	199
2061	Promoter analysis of the human ubiquitin-conjugating enzyme gene family UBE2L1-4, including UBE2L3 which encodes UbcH7. 2000 , 1491, 57-64	5

2060	Molecular cloning of cDNA encoding a ubiquitin-activating enzyme (E1) from goldfish (<i>Carassius auratus</i>) and expression analysis of the cloned gene. 2000 , 1492, 259-63	5
2059	Disruption of the gene encoding the ubiquitin-conjugating enzyme UbcM4 has no effect on proliferation and in vitro differentiation of mouse embryonic stem cells. 2000 , 1494, 75-82	3
2058	Molecular characterization of ubiquitin genes from <i>Aspergillus nidulans</i> : mRNA expression on different stress and growth conditions. 2000 , 1490, 237-44	27
2057	F-box proteins and protein degradation: an emerging theme in cellular regulation. 2000 , 44, 123-8	98
2056	Relationship between the ubiquitin-dependent pathway and apoptosis in different cells of the central nervous system: effect of thyroid hormones. 2000 , 25, 627-35	15
2055	Ubiquitination of HIV-1 and MuLV Gag. 2000 , 278, 111-21	134
2054	Progress in the clinical and molecular genetics of familial parkinsonism. 2000 , 2, 207-18	33
2053	A molecular biomarker system for assessing the health of coral (<i>Montastraea faveolata</i>) during heat stress. 2000 , 2, 533-44	186
2052	Recognition of the polyubiquitin proteolytic signal. 2000 , 19, 94-102	1240
2051	Ubc8p functions in catabolite degradation of fructose-1, 6-bisphosphatase in yeast. 2000 , 19, 2161-7	65
2050	Covalent modifier NEDD8 is essential for SCF ubiquitin-ligase in fission yeast. 2000 , 19, 3475-84	181
2049	Developmentally regulated, alternative splicing of the Rpn10 gene generates multiple forms of 26S proteasomes. 2000 , 19, 4144-53	41
2048	Mechanism of regulation of the hypoxia-inducible factor-1 alpha by the von Hippel-Lindau tumor suppressor protein. 2000 , 19, 4298-309	657
2047	Subunit-specific degradation of the UmuD/D' heterodimer by the ClpXP protease: the role of trans recognition in UmuD' stability. 2000 , 19, 5251-8	95
2046	Phosphorylation and N-terminal region of yeast ribosomal protein P1 mediate its degradation, which is prevented by protein P2. 2000 , 19, 6075-84	57
2045	Targeted disruption of Skp2 results in accumulation of cyclin E and p27(Kip1), polyploidy and centrosome overduplication. 2000 , 19, 2069-81	555
2044	Steady-state kinetic analysis of human ubiquitin-activating enzyme (E1) using a fluorescently labeled ubiquitin substrate. 2000 , 19, 489-98	23
2043	Mdm2 is a RING finger-dependent ubiquitin protein ligase for itself and p53. 2000 , 275, 8945-51	812

2042	Structural features of the 26S proteasome complex isolated from rat testis and sperm tail. 2000 , 57, 176-84	39
2041	Phosphorylation meets ubiquitination: the control of NF-[kappa]B activity. 2000 , 18, 621-63	3979
2040	Ubiquitination and endocytosis of plasma membrane proteins: role of Nedd4/Rsp5p family of ubiquitin-protein ligases. 2000 , 176, 1-17	309
2039	Molecular cloning, gene expression, and identification of a splicing variant of the mouse parkin gene. 2000 , 11, 417-21	58
2038	Regulation of transcription factor function by phosphorylation. 2000 , 57, 1172-83	234
2037	Regulation of transcription factors by protein degradation. 2000 , 57, 1207-19	74
2036	Extragenic suppressors that rescue defects in the heat stress response of the budding yeast mutant tom1. 2000 , 262, 940-8	13
2035	A Brassica napus skp1-like gene promoter drives GUS expression in Arabidopsis thaliana male and female gametophytes. 2000 , 13, 29-35	9
2034	SUMO conjugation and deconjugation. 2000 , 263, 771-86	101
2033	Deregulation of the ubiquitin system and p53 proteolysis modify the apoptotic response in B-CLL lymphocytes. 2000 , 96, 269-274	79
2032	The ubiquitin-proteasome pathway mediates the regulated degradation of mammalian 3-hydroxy-3-methylglutaryl-coenzyme A reductase. 2000 , 275, 35840-7	117
2031	An N-acetylated natural ligand of human histocompatibility leukocyte antigen (HLA)-B39. Classical major histocompatibility complex class I proteins bind peptides with a blocked NH(2) terminus in vivo. 2000 , 191, 2083-92	21
2030	Oxidized LDLs alter the activity of the ubiquitin-proteasome pathway: potential role in oxidized LDL-induced apoptosis. 2000 , 14, 532-42	112
2029	Proteasomes in the archaea from structure to function. 2000 , 5, d837-865	3
2028	Nuclear redistribution of tonicity-responsive enhancer binding protein requires proteasome activity. 2000 , 278, C323-30	47
2027	Chronic contractile activity upregulates the proteasome system in rabbit skeletal muscle. 2000 , 88, 1134-41	39
2026	Protein aggregation after transient cerebral ischemia. 2000 , 20, 3191-9	225
2025	Posttranslational modification of Bcl-2 facilitates its proteasome-dependent degradation: molecular characterization of the involved signaling pathway. 2000 , 20, 1886-96	279

2024	Clink, a nanovirus-encoded protein, binds both pRB and SKP1. 2000 , 74, 2967-72	90
2023	SUMO--nonclassical ubiquitin. 2000 , 16, 591-626	642
2022	The regulatory complex of <i>Drosophila melanogaster</i> 26S proteasomes. Subunit composition and localization of a deubiquitylating enzyme. 2000 , 150, 119-30	124
2021	A new SUMO-1-specific protease, SUSP1, that is highly expressed in reproductive organs. 2000 , 275, 14102-6	116
2020	Inhibition of proteasomal degradation by the gly-Ala repeat of Epstein-Barr virus is influenced by the length of the repeat and the strength of the degradation signal. 2000 , 97, 8381-5	69
2019	Human papillomavirus type 16 E6 induces self-ubiquitination of the E6AP ubiquitin-protein ligase. 2000 , 74, 6408-17	101
2018	2,3,7,8-tetrachlorodibenzo-p-dioxin-induced degradation of aryl hydrocarbon receptor (AhR) by the ubiquitin-proteasome pathway. Role of the transcription activator and DNA binding of AhR. 2000 , 275, 8432-8	214
2017	Identification and characterization of a mammalian protein interacting with 20S proteasome precursors. 2000 , 97, 10348-53	74
2016	A chemical genomics approach toward understanding the global functions of the target of rapamycin protein (TOR). 2000 , 97, 13227-32	153
2015	Proteolytic processing and assembly of the C5 subunit into the proteasome complex. 2000 , 275, 6592-9	8
2014	A protein conjugation system in yeast with homology to biosynthetic enzyme reaction of prokaryotes. 2000 , 275, 7462-5	117
2013	A human gene coding for a membrane-associated nucleic acid-binding protein. 2000 , 275, 33655-62	41
2012	Ubiquitin-mediated degradation of the proapoptotic active form of bid. A functional consequence on apoptosis induction. 2000 , 275, 21648-52	156
2011	Involvement of the ubiquitin-proteasome pathway in the degradation of nontyrosine kinase-type cytokine receptors of IL-9, IL-2, and erythropoietin. 2000 , 165, 6372-80	48
2010	Why does threonine, and not serine, function as the active site nucleophile in proteasomes?. 2000 , 275, 14831-7	102
2009	Physical association of ubiquitin ligases and the 26S proteasome. 2000 , 97, 2497-502	158
2008	Mapping subunit contacts in the regulatory complex of the 26 S proteasome. S2 and S5b form a tetramer with ATPase subunits S4 and S7. 2000 , 275, 875-82	50
2007	Activation of atypical protein kinase C zeta by caspase processing and degradation by the ubiquitin-proteasome system. 2000 , 275, 40620-7	72

2006	Functions of the DNA damage response pathway target Ho endonuclease of yeast for degradation via the ubiquitin-26S proteasome system. 2000 , 97, 10077-82	45
2005	Dimerization with retinoid X receptors and phosphorylation modulate the retinoic acid-induced degradation of retinoic acid receptors alpha and gamma through the ubiquitin-proteasome pathway. 2000 , 275, 33280-8	115
2004	N(alpha)-acetylation and proteolytic activity of the yeast 20 S proteasome. 2000 , 275, 4635-9	88
2003	Characterization of ubiquitinated lysosomal membrane proteins in acanthamoeba castellanii. 2000 , 4, 165-171	2
2002	Inhibition of the ubiquitin-proteasome system in Alzheimer's disease. 2000 , 97, 9902-6	283
2001	Huanglian, A chinese herbal extract, inhibits cell growth by suppressing the expression of cyclin B1 and inhibiting CDC2 kinase activity in human cancer cells. 2000 , 58, 1287-93	80
2000	Sphingolipids signal heat stress-induced ubiquitin-dependent proteolysis. 2000 , 275, 17229-32	98
1999	Proapoptotic p53-interacting protein 53BP2 is induced by UV irradiation but suppressed by p53. 2000 , 20, 8018-25	35
1998	MAP kinases and the regulation of nuclear receptors. 2000 , 2000, pe1	11
1997	Nuclear inclusions in oculopharyngeal muscular dystrophy consist of poly(A) binding protein 2 aggregates which sequester poly(A) RNA. 2000 , 9, 2321-8	197
1996	Glycoprotein folding in the endoplasmic reticulum. 2000 , 35, 433-73	12
1995	New crystal forms and low resolution structure analysis of 20S proteasomes from bovine liver. 2000 , 127, 941-3	9
1994	Ubiquitin immunochemistry as a diagnostic aid for community pathologists evaluating patients who have dementia. 2000 , 13, 420-6	27
1993	Selective proteolysis of human type 2 deiodinase: a novel ubiquitin-proteasomal mediated mechanism for regulation of hormone activation. 2000 , 14, 1697-708	125
1992	Ubiquitin fusion technique and its descendants. 2000 , 327, 578-93	49
1991	Substrate-induced down-regulation of human type 2 deiodinase (hD2) is mediated through proteasomal degradation and requires interaction with the enzyme's active center. 2000 , 141, 1127-35	87
1990	Insulin inhibits the ubiquitin-dependent degrading activity of the 26S proteasome. 2000 , 141, 2508-17	42
1989	Ubiquitin-proteasome system and increased sensitivity of B-CLL lymphocytes to apoptotic death activation. 2000 , 38, 499-504	42

1988	Superinduction of CYP1A1 gene expression. Regulation of 2,3,7, 8-tetrachlorodibenzo-p-dioxin-induced degradation of Ah receptor by cycloheximide. 2000 , 275, 12676-83	68
1987	The YXXL motif, but not the two NPXY motifs, serves as the dominant endocytosis signal for low density lipoprotein receptor-related protein. 2000 , 275, 17187-94	171
1986	Ubiquitin-mediated proteolysis of a short-lived regulatory protein depends on its cellular localization. 2000 , 275, 39403-10	40
1985	Ubiquitinated sperm mitochondria, selective proteolysis, and the regulation of mitochondrial inheritance in mammalian embryos. 2000 , 63, 582-90	325
1984	The ubiquitin-specific protease family from Arabidopsis. AtUBP1 and 2 are required for the resistance to the amino acid analog canavanine. 2000 , 124, 1828-43	97
1983	cDNA cloning, expression, and functional characterization of PI31, a proline-rich inhibitor of the proteasome. 2000 , 275, 18557-65	93
1982	Fusion of the human gene for the polyubiquitination coeffector UEV1 with Kua, a newly identified gene. 2000 , 10, 1743-56	73
1981	Divergent N-terminal sequences target an inducible testis deubiquitinating enzyme to distinct subcellular structures. 2000 , 20, 6568-78	63
1980	Cell cycle-dependent expression of mammalian E2-C regulated by the anaphase-promoting complex/cyclosome. 2000 , 11, 2821-31	46
1979	Hybrid proteasomes. Induction by interferon-gamma and contribution to ATP-dependent proteolysis. 2000 , 275, 14336-45	279
1978	The evolutionarily conserved N-terminal region of Cbl is sufficient to enhance down-regulation of the epidermal growth factor receptor. 2000 , 275, 367-77	119
1977	Posttranslational phosphorylation and ubiquitination of the <i>Saccharomyces cerevisiae</i> Poly(A) polymerase at the S/G(2) stage of the cell cycle. 2000 , 20, 2794-802	20
1976	Analysis of a gene encoding Rpn10 of the fission yeast proteasome reveals that the polyubiquitin-binding site of this subunit is essential when Rpn12/Mts3 activity is compromised. 2000 , 275, 15182-92	67
1975	Hormone binding induces rapid proteasome-mediated degradation of thyroid hormone receptors. 2000 , 97, 8985-90	129
1974	A Di-leucine signal in the ubiquitin moiety. Possible involvement in ubiquitination-mediated endocytosis. 2000 , 275, 26213-9	68
1973	Differential regulation of sentrinized proteins by a novel sentrin-specific protease. 2000 , 275, 3355-9	211
1972	Identification and characterization of a SUMO-1 conjugation system that modifies neuronal calcium/calmodulin-dependent protein kinase II in <i>Drosophila melanogaster</i> . 2000 , 275, 40765-76	44
1971	Ubiquitin in retrovirus assembly: actor or bystander?. 2000 , 97, 12945-7	92

1970	RGS4 is arginylated and degraded by the N-end rule pathway in vitro. 2000 , 275, 22931-41	125
1969	The APC11 RING-H2 finger mediates E2-dependent ubiquitination. 2000 , 11, 2315-25	156
1968	Proteasome inhibition interferes with gag polyprotein processing, release, and maturation of HIV-1 and HIV-2. 2000 , 97, 13057-62	291
1967	Altered activity, social behavior, and spatial memory in mice lacking the NTAN1p amidase and the asparagine branch of the N-end rule pathway. 2000 , 20, 4135-48	85
1966	Cyclization of polyubiquitin by the E2-25K ubiquitin conjugating enzyme. 2000 , 275, 36862-8	20
1965	Conjugation of Nedd8 to CUL1 enhances the ability of the ROC1-CUL1 complex to promote ubiquitin polymerization. 2000 , 275, 32317-24	164
1964	Ca ²⁺ -free calmodulin and calmodulin damaged by in vitro aging are selectively degraded by 26 S proteasomes without ubiquitination. 2000 , 275, 20295-301	89
1963	Endocytosis and degradation of the growth hormone receptor are proteasome-dependent. 2000 , 275, 1575-80	145
1962	Differential influence on cytotoxic T lymphocyte epitope presentation by controlled expression of either proteasome immunosubunits or PA28. 2000 , 192, 483-94	93
1961	Degradation signals recognized by the Ubc6p-Ubc7p ubiquitin-conjugating enzyme pair. 2000 , 20, 7214-9	72
1960	Homodimer of two F-box proteins betaTrCP1 or betaTrCP2 binds to I κ B α for signal-dependent ubiquitination. 2000 , 275, 2877-84	107
1959	Felix Hoppe-Seyler Lecture 2000. The ubiquitin system and the N-end rule pathway. 2000 , 381, 779-89	57
1958	Constitutive instability of muscle regulatory factor Myf5 is distinct from its mitosis-specific disappearance, which requires a D-box-like motif overlapping the basic domain. 2000 , 20, 8923-32	25
1957	Cystic fibrosis mutations lead to carboxyl-terminal fragments that highlight an early biogenesis step of the cystic fibrosis transmembrane conductance regulator. 2000 , 275, 19577-84	11
1956	Degradation of DNA topoisomerase I by a novel trypsin-like serine protease in proliferating human T lymphocytes. 2000 , 275, 13109-17	9
1955	The effect of heat shock on 20S/26S proteasomes. 2000 , 381, 1017-23	36
1954	Analysis of the deubiquitinating enzymes of the yeast <i>Saccharomyces cerevisiae</i> . 2000 , 381, 981-92	146
1953	The abundance of Met30p limits SCF(Met30p) complex activity and is regulated by methionine availability. 2000 , 20, 7845-52	26

1952	The progesterone receptor and ubiquitin are differentially regulated within the endometrial glands of the natural and stimulated cycle. 2000 , 6, 264-8	12
1951	The SCF(HOS/beta-TRCP)-ROC1 E3 ubiquitin ligase utilizes two distinct domains within CUL1 for substrate targeting and ubiquitin ligation. 2000 , 20, 1382-93	92
1950	The yeast ULP2 (SMT4) gene encodes a novel protease specific for the ubiquitin-like Smt3 protein. 2000 , 20, 2367-77	314
1949	Mutations in the tumor suppressors Smad2 and Smad4 inactivate transforming growth factor beta signaling by targeting Smads to the ubiquitin-proteasome pathway. 2000 , 97, 4820-5	167
1948	Identification of a novel isopeptidase with dual specificity for ubiquitin- and NEDD8-conjugated proteins. 2000 , 275, 14212-6	76
1947	A hemoglobin with an optical function. 2000 , 275, 4810-5	29
1946	Suppressor of cytokine signaling-1 inhibits VAV function through protein degradation. 2000 , 275, 14005-8	139
1945	Endoplasmic reticulum quality control of oligomeric membrane proteins: topogenic determinants involved in the degradation of the unassembled Na,K-ATPase alpha subunit and in its stabilization by beta subunit assembly. 2000 , 11, 1657-72	53
1944	Proteasome-mediated degradation of the papillomavirus E2-TA protein is regulated by phosphorylation and can modulate viral genome copy number. 2000 , 74, 6031-8	67
1943	A nonproteolytic function of the proteasome is required for the dissociation of Cdc2 and cyclin B at the end of M phase. 2000 , 14, 2344-57	55
1942	Purification and characterization of Candida albicans 20S proteasome: identification of four proteasomal subunits. 2000 , 375, 211-9	13
1941	Ubiquitylation and destruction of endogenous c-mycS by the proteasome: are myc boxes dispensable?. 2000 , 374, 306-12	12
1940	Use of chemical chaperones in the yeast Saccharomyces cerevisiae to enhance heterologous membrane protein expression: high-yield expression and purification of human P-glycoprotein. 2000 , 376, 34-46	86
1939	Proteolytic degradation of tyrosine nitrated proteins. 2000 , 380, 360-6	227
1938	Catalytic activities of the 20 S proteasome, a multicatalytic proteinase complex. 2000 , 383, 1-16	276
1937	The gene expression of ubiquitin ligase E3alpha is upregulated in skeletal muscle during sepsis in rats-potential role of glucocorticoids. 2000 , 267, 504-8	49
1936	The internalization and endosomal trafficking of the EGF receptor in response to EGF is delayed in the waved-2 mouse liver. 2000 , 267, 881-6	3
1935	Sepsis-induced muscle proteolysis is prevented by a proteasome inhibitor in vivo. 2000 , 270, 215-21	46

1934	Phosphorylation of Cdc20/fizzy negatively regulates the mammalian cyclosome/APC in the mitotic checkpoint. 2000 , 271, 299-304	97
1933	Rapid isolation and characterization of the yeast proteasome regulatory complex. 2000 , 273, 509-15	41
1932	Isolation of a novel ubiquitin-like protein from <i>Pleurotus ostreatus</i> mushroom with anti-human immunodeficiency virus, translation-inhibitory, and ribonuclease activities. 2000 , 276, 587-93	75
1931	Tissue distribution of constitutive proteasomes, immunoproteasomes, and PA28 in rats. 2000 , 277, 348-54	103
1930	The polyubiquitin gene is essential for meiosis in fission yeast. 2000 , 254, 143-52	26
1929	Ubiquitin-dependent protein processing controls radiation-induced apoptosis through the N-end rule pathway. 2000 , 257, 48-57	13
1928	The mouse <i>Psma1</i> gene coding for the alpha-type C2 proteasome subunit: structural and functional analysis, mapping, and colocalization with <i>Pde3b</i> on mouse chromosome 7. 2000 , 66, 313-23	5
1927	An algorithm for the prediction of proteasomal cleavages. 2000 , 298, 417-29	138
1926	The proteasome activator 11 S REG or PA28: chimeras implicate carboxyl-terminal sequences in oligomerization and proteasome binding but not in the activation of specific proteasome catalytic subunits. 2000 , 299, 641-54	24
1925	Ubiquitin-mediated proteolysis and human disease. 2000 , 71, 261-6	27
1924	Endoplasmic reticulum-associated protein degradation. 2000 , 11, 159-64	38
1923	Getting in and out of the proteasome. 2000 , 11, 149-58	56
1922	Ubiquitination and deubiquitination: targeting of proteins for degradation by the proteasome. 2000 , 11, 141-8	442
1921	The COP/DET/FUS proteins-regulators of eukaryotic growth and development. 2000 , 11, 495-503	92
1920	Recognition and ubiquitination of Notch by Itch, a hect-type E3 ubiquitin ligase. 2000 , 275, 35734-7	255
1919	Ubiquitin-like proteins: new wines in new bottles. 2000 , 248, 1-14	418
1918	A HECT domain ubiquitin ligase closely related to the mammalian protein WWP1 is essential for <i>Caenorhabditis elegans</i> embryogenesis. 2000 , 252, 137-45	33
1917	Cloning and characterization of the genes encoding the ankyrin repeat and SOCS box-containing proteins <i>Asb-1</i> , <i>Asb-2</i> , <i>Asb-3</i> and <i>Asb-4</i> . 2000 , 258, 31-41	39

1916	MDM2--master regulator of the p53 tumor suppressor protein. 2000 , 242, 15-29	511
1915	Nob1p, a new essential protein, associates with the 26S proteasome of growing <i>saccharomyces cerevisiae</i> cells. 2000 , 243, 37-45	44
1914	Differential display and gene arrays to examine auditory plasticity. 2000 , 147, 293-302	41
1913	Tau protein isoforms, phosphorylation and role in neurodegenerative disorders. 2000 , 33, 95-130	1420
1912	Structure and expression of the <i>Aplysia</i> polyubiquitin gene. 2000 , 76, 424-8	9
1911	Chloroplast proteases: possible regulators of gene expression?. 2000 , 82, 647-54	69
1910	Emerging regulatory mechanisms for fibrinolytic gene expression. 2000 , 14, 146-154	4
1909	Lovastatin and simvastatin are modulators of the proteasome. 2000 , 32, 957-65	33
1908	The Smad pathway. 2000 , 11, 5-13	217
1907	F-box proteins in <i>Arabidopsis</i> . 2000 , 5, 454-7	73
1906	The hPLIC proteins may provide a link between the ubiquitination machinery and the proteasome. 2000 , 6, 409-19	305
1905	Smad7 binds to Smurf2 to form an E3 ubiquitin ligase that targets the TGF beta receptor for degradation. 2000 , 6, 1365-75	1090
1904	Ulp1-SUMO crystal structure and genetic analysis reveal conserved interactions and a regulatory element essential for cell growth in yeast. 2000 , 5, 865-76	567
1903	Proteasomal turnover of p21Cip1 does not require p21Cip1 ubiquitination. 2000 , 5, 403-10	356
1902	Proteolysis and the cell cycle: with this RING I do thee destroy. 2000 , 10, 54-64	272
1901	Cell cycle-regulated modification of the ribosome by a variant multiubiquitin chain. 2000 , 102, 67-76	300
1900	Regulation of transcription by ubiquitination without proteolysis: Cdc34/SCF(Met30)-mediated inactivation of the transcription factor Met4. 2000 , 102, 303-14	249
1899	Structure of a c-Cbl-UbcH7 complex: RING domain function in ubiquitin-protein ligases. 2000 , 102, 533-9	724

1898	RING finger proteins: mediators of ubiquitin ligase activity. 2000 , 102, 549-52	1027
1897	A proteasome howdunit: the case of the missing signal. 2000 , 101, 341-4	122
1896	SUMO-1 modification of Mdm2 prevents its self-ubiquitination and increases Mdm2 ability to ubiquitinate p53. 2000 , 101, 753-62	234
1895	An ARID family protein binds to the African swine fever virus encoded ubiquitin conjugating enzyme, UBCv1. 2000 , 471, 17-22	15
1894	Control of interleukin-18 secretion by dendritic cells: role of calcium influxes. 2000 , 481, 245-8	49
1893	Leucine limitation induces autophagy and activation of lysosome-dependent proteolysis in C2C12 myotubes through a mammalian target of rapamycin-independent signaling pathway. 2000 , 275, 29900-6	158
1892	Keratins turn over by ubiquitination in a phosphorylation-modulated fashion. 2000 , 149, 547-52	139
1891	Ubiquitin protein ligase activity of IAPs and their degradation in proteasomes in response to apoptotic stimuli. 2000 , 288, 874-7	857
1890	The F-box protein family. 2000 , 1, REVIEWS3002	455
1889	Ubiquitin- and proteasome-dependent pathway of protein degradation as an emerging therapeutic target. 2000 , 4, 89-111	7
1888	Molecular cloning of ubiquitin-activating enzyme (E1) from <i>Xenopus laevis</i> . 2000 , 11, 349-52	
1887	Biophysical characterization of elongin C from <i>Saccharomyces cerevisiae</i> . 2000 , 39, 11137-46	8
1886	Nonhydrolyzable diubiquitin analogues are inhibitors of ubiquitin conjugation and deconjugation. 2000 , 39, 10001-10	84
1885	The reversible modification regulates the membrane-binding state of Apg8/Aut7 essential for autophagy and the cytoplasm to vacuole targeting pathway. 2000 , 151, 263-76	747
1884	Genetics of the mammalian circadian system: Photic entrainment, circadian pacemaker mechanisms, and posttranslational regulation. 2000 , 34, 533-562	239
1883	Autophagy, cytoplasm-to-vacuole targeting pathway, and pexophagy in yeast and mammalian cells. <i>Annual Review of Biochemistry</i> , 2000 , 69, 303-42	29.1 314
1882	Purification and characterization of proteasomes from <i>Saccharomyces cerevisiae</i> . 2001 , Chapter 21, Unit 21.5	16
1881	The Regulation of Enzyme Activity. 89-118	

1880	Assembly of the 26S proteasome is regulated by phosphorylation of the p45/Rpt6 ATPase subunit. 2001 , 40, 314-9	115
1879	Folding of newly translated proteins in vivo: the role of molecular chaperones. <i>Annual Review of Biochemistry</i> , 2001 , 70, 603-47	29.1 945
1878	Regulation of proteolysis. 2001 , 4, 45-9	52
1877	Newly synthesized human delta opioid receptors retained in the endoplasmic reticulum are retrotranslocated to the cytosol, deglycosylated, ubiquitinated, and degraded by the proteasome. 2001 , 276, 4416-23	176
1876	Tomato Ve disease resistance genes encode cell surface-like receptors. 2001 , 98, 6511-5	362
1875	Plant Nitrogen. 2001 ,	16
1874	Regulation of Smad degradation and activity by Smurf2, an E3 ubiquitin ligase. 2001 , 98, 974-9	428
1873	Quaternary structure of the ATPase complex of human 26S proteasomes determined by chemical cross-linking. 2001 , 386, 89-94	62
1872	Ubiquitin-dependent 26S proteasomal pathway: a role in the degradation of native human liver CYP3A4 expressed in <i>Saccharomyces cerevisiae</i> ?. 2001 , 393, 106-16	37
1871	Receptor-associated protein binding blocks ubiquitinylation of the low density lipoprotein receptor-related protein. 2001 , 396, 106-10	3
1870	Molecular cloning of a novel ubiquitin-like protein, UBIN, that binds to ER targeting signal sequences. 2001 , 280, 535-40	17
1869	A novel centrosomal ring-finger protein, dorfin, mediates ubiquitin ligase activity. 2001 , 281, 706-13	66
1868	Apolipoprotein E in macrophages and hepatocytes is degraded via the proteasomal pathway. 2001 , 282, 608-14	15
1867	Occurrence of a putative SCF ubiquitin ligase complex in <i>Drosophila</i> . 2001 , 286, 357-64	24
1866	Antiproliferative and antimutagenic activities in a peptide from puffball mushroom <i>Calvatia caelata</i> . 2001 , 289, 744-9	44
1865	CPEB degradation during <i>Xenopus</i> oocyte maturation requires a PEST domain and the 26S proteasome. 2001 , 231, 447-58	77
1864	Analysis of apoptosis induced by HIV-1 Vpr and examination of the possible role of the hHR23A protein. 2001 , 267, 243-57	34
1863	Intracellular targeting of proteins by sumoylation. 2001 , 271, 57-65	92

1862	Ubiquitin-activating enzyme (E1) isoforms in lens epithelial cells: origin of translation, E2 specificity and cellular localization determined with novel site-specific antibodies. 2001 , 73, 827-36	28
1861	Crystal structure of the 20 S proteasome:TMC-95A complex: a non-covalent proteasome inhibitor. 2001 , 311, 543-8	162
1860	Reconstitution of hybrid proteasomes from purified PA700-20 S complexes and PA28alphabeta activator: ultrastructure and peptidase activities. 2001 , 313, 465-71	60
1859	Altered trafficking of membrane proteins in purkinje cells of SCA1 transgenic mice. 2001 , 159, 905-13	80
1858	FAM deubiquitylating enzyme is essential for preimplantation mouse embryo development. 2001 , 109, 151-60	55
1857	The small ubiquitin-like modifier-1 (SUMO-1) consensus sequence mediates Ubc9 binding and is essential for SUMO-1 modification. 2001 , 276, 21664-9	388
1856	Does an inhibition of the ubiquitin/26S proteasome pathway of protein degradation underlie the pathogenesis of non-familial Alzheimer's disease?. 2001 , 56, 395-9	10
1855	Human mdm2 mediates multiple mono-ubiquitination of p53 by a mechanism requiring enzyme isomerization. 2001 , 276, 31357-67	116
1854	A novel factor required for the SUMO1/Smt3 conjugation of yeast septins. 2001 , 275, 223-31	107
1853	Molecular dissection of the 11S REG (PA28) proteasome activators. 2001 , 83, 373-83	69
1852	Control of I κ B α proteolysis by the ubiquitin-proteasome pathway. 2001 , 83, 351-6	84
1851	Genetic dissection of the yeast 26S proteasome: cell cycle defects caused by the Deltarpn9 mutation. 2001 , 83, 333-40	14
1850	20S proteasome biogenesis. 2001 , 83, 289-93	62
1849	The unfolding of substrates and ubiquitin-independent protein degradation by proteasomes. 2001 , 83, 311-8	80
1848	The transcriptional role of Smads and FAST (FoxH1) in TGF β and activin signalling. 2001 , 180, 3-11	75
1847	The role of the ubiquitin-proteasomal pathway in Parkinson's disease and other neurodegenerative disorders. 2001 , 24, S7-14	158
1846	The role of the ubiquitin-proteasomal pathway in Parkinson's disease and other neurodegenerative disorders. 2001 , 24, 7-14	151
1845	Late assembly domains engage the cellular ubiquitination machinery to promote virus release. 2001 , 77, 128-130	

1844	Viral interaction with the host cell sumoylation system. 2001 , 81, 17-27	42
1843	Protein synthesis. 2001 , 31-75	67
1842	Regulation of receptor fate by ubiquitination of activated beta 2-adrenergic receptor and beta-arrestin. 2001 , 294, 1307-13	731
1841	Post-translational protein modifications in antigen recognition and autoimmunity. 2001 , 22, 443-9	233
1840	A new Smurf in the village. 2001 , 1, 441-2	21
1839	Cellular defenses against unfolded proteins: a cell biologist thinks about neurodegenerative diseases. 2001 , 29, 15-32	870
1838	Parkin and the molecular pathways of Parkinson's disease. 2001 , 31, 885-8	134
1837	Chemotropic responses of retinal growth cones mediated by rapid local protein synthesis and degradation. 2001 , 32, 1013-26	671
1836	beta-Thymosins, small acidic peptides with multiple functions. 2001 , 33, 205-20	334
1835	Ubiquitylation in plants: a post-genomic look at a post-translational modification. 2001 , 6, 463-70	147
1834	Impairment of bile salt-dependent lipase secretion in AR4-2J rat pancreatic cells induces its degradation by the proteasome. 2001 , 1530, 184-98	10
1833	Lack of proteasome active site allostery as revealed by subunit-specific inhibitors. 2001 , 7, 411-20	108
1832	The axial channel of the proteasome core particle is gated by the Rpt2 ATPase and controls both substrate entry and product release. 2001 , 7, 1143-52	347
1831	Selective degradation of ubiquitinated Sic1 by purified 26S proteasome yields active S phase cyclin-Cdk. 2001 , 8, 439-48	84
1830	Ubiquitin enters the new millennium. 2001 , 8, 499-504	333
1829	Involvement of PIAS1 in the sumoylation of tumor suppressor p53. 2001 , 8, 713-8	392
1828	Regulation of the G1 to S transition by the ubiquitin pathway. 2001 , 490, 179-89	96
1827	The proteasome inhibitor MG132 promotes accumulation of the steroidogenic acute regulatory protein (StAR) and steroidogenesis. 2001 , 490, 59-64	18

1826	In vitro ubiquitination of cyclin D1 by ROC1-CUL1 and ROC1-CUL3. 2001 , 494, 181-5	23
1825	Binding and regulation of HIF-1alpha by a subunit of the proteasome complex, PSMA7. 2001 , 498, 62-6	51
1824	cis-Inhibition of proteasomal degradation by viral repeats: impact of length and amino acid composition. 2001 , 499, 137-42	32
1823	Molecular insights into polyubiquitin chain assembly: crystal structure of the Mms2/Ubc13 heterodimer. 2001 , 105, 711-20	257
1822	An unfolded putative transmembrane polypeptide, which can lead to endoplasmic reticulum stress, is a substrate of Parkin. 2001 , 105, 891-902	910
1821	An E3-like factor that promotes SUMO conjugation to the yeast septins. 2001 , 106, 735-44	533
1820	SP-RING for SUMO: new functions bloom for a ubiquitin-like protein. 2001 , 107, 5-8	233
1819	Molecular regulation of the training response: New techniques to study old questions. 2001 , 1, 1-7	1
1818	Smurf1 interacts with transforming growth factor-beta type I receptor through Smad7 and induces receptor degradation. 2001 , 276, 12477-80	661
1817	Proteasome inhibitors block a late step in lysosomal transport of selected membrane but not soluble proteins. 2001 , 12, 2556-66	99
1816	Atrogin-1, a muscle-specific F-box protein highly expressed during muscle atrophy. 2001 , 98, 14440-5	1340
1815	Compartment-specific functions of the ubiquitin-proteasome pathway. 2001 , 142, 97-160	8
1814	Inhibition of Cdh1-APC by the MAD2-related protein MAD2L2: a novel mechanism for regulating Cdh1. 2001 , 15, 1759-64	103
1813	Redundancy of mammalian proteasome beta subunit function during endoplasmic reticulum associated degradation. 2001 , 40, 13397-405	34
1812	Erythrocyte spectrin is an E2 ubiquitin conjugating enzyme. 2001 , 40, 11630-42	15
1811	Trafficking and cell surface stability of ENaC. 2001 , 281, F391-9	97
1810	Distinct characteristics of two human Nedd4 proteins with respect to epithelial Na(+) channel regulation. 2001 , 281, F469-77	100
1809	Signal transduction pathways and transcriptional mechanisms as targets for prevention of emergence of multidrug resistance in human cancer cells. 2001 , 2, 57-77	35

1808	Regulation of the anaphase-promoting complex by the dual specificity phosphatase human Cdc14a. 2001 , 276, 48237-42	77
1807	Identification of cathepsin L as a differentially expressed message associated with skeletal muscle wasting. 2001 , 360, 143-150	134
1806	Rapid Degradation of Auxin/Indoleacetic Acid Proteins Requires Conserved Amino Acids of Domain II and Is Proteasome Dependent. 2001 , 13, 2349	3
1805	Molecular cloning of cDNA encoding polypeptide chain elongation factor 1alpha from goldfish (Carassius auratus). 2001 , 12, 419-24	4
1804	Lysosomal Degradation of Proteins. 2001 ,	
1803	Isolation of ubiquitin-E2 (ubiquitin-conjugating enzyme) complexes from erythroleukaemia cells using immunoaffinity techniques. 2001 , 356, 199-206	10
1802	Glucose regulates protein catabolism in ras-transformed fibroblasts through a lysosomal-dependent proteolytic pathway. 2001 , 357, 255-61	4
1801	Polyamine analogues inhibit the ubiquitination of spermidine/spermine N1-acetyltransferase and prevent its targeting to the proteasome for degradation. 2001 , 358, 137-45	25
1800	Identification of cathepsin L as a differentially expressed message associated with skeletal muscle wasting. 2001 , 360, 143-50	73
1799	Isolation of ubiquitinE2 (ubiquitin-conjugating enzyme) complexes from erythroleukaemia cells using immunoaffinity techniques. 2001 , 356, 199-206	10
1798	Glucose regulates protein catabolism in ras-transformed fibroblasts through a lysosomal-dependent proteolytic pathway. 2001 , 357, 255-261	6
1797	Polyamine analogues inhibit the ubiquitination of spermidine/spermine N1-acetyltransferase and prevent its targeting to the proteasome for degradation. 2001 , 358, 137-145	46
1796	Ubiquitination is essential for human cytomegalovirus US11-mediated dislocation of MHC class I molecules from the endoplasmic reticulum to the cytosol. 2001 , 358, 369-377	76
1795	Differential regulation of the lysosomal, Ca ²⁺ -dependent and ubiquitin/proteasome-dependent proteolytic pathways in fast-twitch and slow-twitch rat muscle following hyperinsulinaemia. 2001 , 101, 551	12
1794	Ubiquitination is essential for human cytomegalovirus US11-mediated dislocation of MHC class I molecules from the endoplasmic reticulum to the cytosol. 2001 , 358, 369-77	60
1793	Differential regulation of the lysosomal, Ca ²⁺ -dependent and ubiquitin/proteasome-dependent proteolytic pathways in fast-twitch and slow-twitch rat muscle following hyperinsulinaemia. 2001 , 101, 551-558	21
1792	Tumor necrosis factor-alpha induces coordinated changes in major histocompatibility class I presentation pathway, resulting in increased stability of class I complexes at the cell surface. 2001 , 98, 1108-15	89
1791	The proteasome: a supramolecular assembly designed for controlled proteolysis. 2001 , 59, 187-222	40

1790	Tyropeptins A and B, new proteasome inhibitors produced by <i>Kitasatospora</i> sp. MK993-dF2. I. Taxonomy, isolation, physico-chemical properties and biological activities. 2001 , 54, 997-1003	44
1789	Proteasomes: Methods for Preparation. 2001 ,	
1788	Insights into the role of the von Hippel-Lindau gene product. A key player in hypoxic regulation. 2001 , 9, 235-40	19
1787	Muscle cachexia: current concepts of intracellular mechanisms and molecular regulation. 2001 , 233, 9-17	211
1786	Peptide Bonds, Disulfide Bonds and Properties of Small Peptides. 2001 ,	
1785	Regulation of immune responses by E3 ubiquitin-protein ligases. 2002 , 5, 161-75	8
1784	Auxin Signaling Involves Regulated Protein Degradation by the Ubiquitin-Proteasome Pathway. 2001 , 20, 265-273	18
1783	Parkin is linked to the ubiquitin pathway. 2001 , 79, 482-94	60
1782	New drugs in gynecologic cancer. 2001 , 2, 119-28	2
1781	Hepatocellular ubiquitin expression in alpha1-antitrypsin deficiency. 2001 , 4, 344-50	3
1780	Assessing the health of grass shrimp (<i>Palaeomonetes pugio</i>) exposed to natural and anthropogenic stressors: a molecular biomarker system. 2001 , 3, 380-97	89
1779	Alpha-synuclein has an altered conformation and shows a tight intermolecular interaction with ubiquitin in Lewy bodies. 2001 , 102, 329-34	28
1778	Increasing <i>Saccharomyces cerevisiae</i> stress resistance, through the overactivation of the heat shock response resulting from defects in the Hsp90 chaperone, does not extend replicative life span but can be associated with slower chronological ageing of nondividing cells. 2001 , 265, 258-63	48
1777	E3 ubiquitin-protein ligase activity of Parkin is dependent on cooperative interaction of RING finger (TRIAD) elements. 2001 , 8, 421-9	23
1776	Developmental changes in the expression of parkin and UbcR7, a parkin-interacting and ubiquitin-conjugating enzyme, in rat brain. 2001 , 77, 1561-8	13
1775	Ubiquitin C-terminal hydrolase-L1 (PGP9.5) expression in human neural cell lines following induction of neuronal differentiation and exposure to cytokines, neurotrophic factors or heat stress. 2001 , 27, 95-104	28
1774	Damage control--a possible non-proteolytic role for ubiquitin in limiting neurodegeneration. 2001 , 27, 89-94	15
1773	The ubiquitin protein catabolic disorders. 2001 , 27, 171-9	65

1772	Degradation signals within both terminal domains of the cauliflower mosaic virus capsid protein precursor. 2001 , 27, 335-43	29
1771	The ubiquitin-specific protease UBP14 is essential for early embryo development in <i>Arabidopsis thaliana</i> . 2001 , 27, 393-405	94
1770	N-Terminally extended human ubiquitin-conjugating enzymes (E2s) mediate the ubiquitination of RING-finger proteins, ARA54 and RNF8. 2001 , 268, 2725-32	79
1769	Structure of a new crystal form of tetraubiquitin. 2001 , 57, 341-4	62
1768	Synthetic peptide conjugates tailor-made probes for the biology of protein modification and protein processing. 2001 , 57, 2247-2277	28
1767	La protéolyse ubiquitine-protéasome-dépendante : une machinerie complexe spécialisée dans la destruction sélective et hautement régulée des protéines. 2001 , 15, 23-31	
1766	Proteasome inhibitors: from research tools to drug candidates. 2001 , 8, 739-58	916
1765	Identification of molecular determinants required for interaction of ubiquitin-conjugating enzymes and RING finger proteins. 2001 , 268, 5912-9	22
1764	Differentiation-dependent sensitivity to cell death induced in the developing retina by inhibitors of the ubiquitin-proteasome proteolytic pathway. 2001 , 13, 1938-44	10
1763	The ubiquitin-proteasome cascade is required for mammalian long-term memory formation. 2001 , 14, 1820-6	176
1762	Chronological lifespan of stationary phase yeast cells; a model for investigating the factors that might influence the ageing of postmitotic tissues in higher organisms. 2001 , 18, 499-509	116
1761	The ubiquitin-proteasome pathway and proteasome inhibitors. 2001 , 21, 245-73	351
1760	Inverse relation between levels of p27(Kip1) and of its ubiquitin ligase subunit Skp2 in colorectal carcinomas. 2001 , 91, 1745-51	156
1759	Ubiquitin-mediated proteolysis of vertebrate G1- and S-phase regulators. 2001 , 187, 1-10	86
1758	Heat shock response and ageing: mechanisms and applications. 2001 , 25, 845-57	167
1757	Purification and identification of monoubiquitin-phosphoglycerate mutase B complex from human colorectal cancer tissues. 2001 , 94, 662-8	31
1756	Molecular cloning and characterization of a RING-H2 finger protein, ANAPC11, the human homolog of yeast Apc11p. 2001 , 83, 249-58	3
1755	High dose of dexamethasone upregulates TCR/CD3-induced calcium response independent of TCR zeta chain expression in human T lymphocytes. 2001 , 83, 401-13	11

1754	Ubiquitin and malignant transformation of oral mucosa. 2001 , 23, 972-8	2
1753	Purification of poly-ubiquitinated proteins by S5a-affinity chromatography. 2001 , 1, 773-7	50
1752	Mechanisms underlying ubiquitination. <i>Annual Review of Biochemistry</i> , 2001 , 70, 503-33	29.1 2894
1751	Ubiquitin-mediated degradation of hepatitis C virus core protein is regulated by processing at its carboxyl terminus. 2001 , 280, 301-9	53
1750	The NS2 protein generated by the parvovirus minute virus of mice is degraded by the proteasome in a manner independent of ubiquitin chain elongation or activation. 2001 , 285, 346-55	23
1749	The Epstein-Barr virus encoded latent membrane protein 2A augments signaling from latent membrane protein 1. 2001 , 289, 192-207	37
1748	Isolation and Identification of PACE-Binding Protein Rpn4, a New Transcriptional Activator Regulating 26S-Proteasomal and Other Genes. 2001 , 35, 356-364	20
1747	A combination of the F-box motif and kelch repeats defines a large Arabidopsis family of F-box proteins. 2001 , 46, 603-14	47
1746	Effects of the polyubiquitin gene Ubi. U4 leader intron and first ubiquitin monomer on reporter gene expression in <i>Nicotiana tabacum</i> . 2001 , 45, 655-67	56
1745	The plant cell cycle: G1/S regulation. 2001 , 118, 223-236	14
1744	Low-density lipoprotein receptor family: endocytosis and signal transduction. 2001 , 23, 53-67	101
1743	Cic1, an adaptor protein specifically linking the 26S proteasome to its substrate, the SCF component Cdc4. 2001 , 20, 4423-31	37
1742	Chemical shifts in denatured proteins: resonance assignments for denatured ubiquitin and comparisons with other denatured proteins. 2001 , 19, 153-65	62
1741	SKP1-SnRK protein kinase interactions mediate proteasomal binding of a plant SCF ubiquitin ligase. 2001 , 20, 2742-56	182
1740	Sec61p-independent degradation of the tail-anchored ER membrane protein Ubc6p. 2001 , 20, 3124-31	109
1739	Lysine 188 substitutions convert the pattern of proteasome activation by REGgamma to that of REGs alpha and beta. 2001 , 20, 3359-69	48
1738	NEDD8 recruits E2-ubiquitin to SCF E3 ligase. 2001 , 20, 4003-12	257
1737	Yeast Hct1 recognizes the mitotic cyclin Clb2 and other substrates of the ubiquitin ligase APC. 2001 , 20, 5165-75	172

1736	A novel active site-directed probe specific for deubiquitylating enzymes reveals proteasome association of USP14. 2001 , 20, 5187-96	408
1735	Immunoproteasome assembly and antigen presentation in mice lacking both PA28alpha and PA28beta. 2001 , 20, 5898-907	125
1734	APC/C-mediated destruction of the centrosomal kinase Nek2A occurs in early mitosis and depends upon a cyclin A-type D-box. 2001 , 20, 7117-27	159
1733	Influenza B virus NS1 protein inhibits conjugation of the interferon (IFN)-induced ubiquitin-like ISG15 protein. 2001 , 20, 362-71	388
1732	Dimerization with PEBP2beta protects RUNX1/AML1 from ubiquitin-proteasome-mediated degradation. 2001 , 20, 723-33	226
1731	COP9 signalosome-specific phosphorylation targets p53 to degradation by the ubiquitin system. 2001 , 20, 1630-9	299
1730	Substrate specificity of the human proteasome. 2001 , 8, 1131-41	85
1729	Solution structure of ThiS and implications for the evolutionary roots of ubiquitin. 2001 , 8, 47-51	85
1728	Defining polyubiquitin chain topology. 2001 , 8, 650-2	16
1727	Crystal structure of the human ubiquitin conjugating enzyme complex, hMms2-hUbc13. 2001 , 8, 669-73	130
1726	Proteins containing the UBA domain are able to bind to multi-ubiquitin chains. 2001 , 3, 939-43	347
1725	Proteolysis-independent regulation of PI3K by Cbl-b-mediated ubiquitination in T cells. 2001 , 2, 870-5	240
1724	Caspase-dependent deubiquitination of monoubiquitinated nucleosomal histone H2A induced by diverse apoptogenic stimuli. 2001 , 8, 1182-96	58
1723	Human cyclin C protein is stabilized by its associated kinase cdk8, independently of its catalytic activity. 2001 , 20, 551-62	32
1722	Ras-GAP SH3 domain binding protein (G3BP) is a modulator of USP10, a novel human ubiquitin specific protease. 2001 , 20, 3869-79	130
1721	Molecular chaperones and the art of recognizing a lost cause. 2001 , 3, E51-3	104
1720	Molecular dissection of autophagy: two ubiquitin-like systems. 2001 , 2, 211-6	1030
1719	Degradation of a cohesin subunit by the N-end rule pathway is essential for chromosome stability. 2001 , 410, 955-9	228

1718	TGF-beta induces assembly of a Smad2-Smurf2 ubiquitin ligase complex that targets SnoN for degradation. 2001 , 3, 587-95	267
1717	Ubiquitination-dependent mechanisms regulate synaptic growth and function. 2001 , 412, 449-52	337
1716	Cell cycle. Archipelago of destruction. 2001 , 413, 268-9	17
1715	Genomes and souls. 2001 , 413, 269-269	
1714	Multisite phosphorylation of a CDK inhibitor sets a threshold for the onset of DNA replication. 2001 , 414, 514-21	639
1713	Proteomic investigation of metabolic shift in mammalian cell culture. 2001 , 17, 1137-44	35
1712	A Schistosoma mansoni Pad1 homologue stabilizes c-Jun. 2001 , 116, 209-18	3
1711	Caretaker or undertaker? The role of the proteasome in aging. 2001 , 122, 235-54	79
1710	Role of proteasomal degradation in the cell cycle-dependent regulation of DNA topoisomerase IIalpha expression. 2001 , 61, 795-802	30
1709	A molecular biomarker system for assessing the health of gastropods (Ilyanassa obsoleta) exposed to natural and anthropogenic stressors. 2001 , 259, 189-214	52
1708	Protein stability: the COP9 signalosome gets in on the act. 2001 , 11, R643-6	24
1707	New complexities for BRCA1 and BRCA2. 2001 , 11, R668-76	88
1706	Neutralized functions as an E3 ubiquitin ligase during Drosophila development. 2001 , 11, 1675-9	131
1705	Activated c-Abl is degraded by the ubiquitin-dependent proteasome pathway. 2001 , 11, 1759-65	51
1704	Not such a dismal science: the economics of protein synthesis, folding, degradation and antigen processing. 2001 , 11, 294-7	126
1703	The WWE domain: a common interaction module in protein ubiquitination and ADP ribosylation. 2001 , 26, 273-5	155
1702	Dissecting glycoprotein quality control in the secretory pathway. 2001 , 26, 619-24	202
1701	Structure of a conjugating enzyme-ubiquitin thiolester intermediate reveals a novel role for the ubiquitin tail. 2001 , 9, 897-904	144

1700	Targeting protein ubiquitination for drug discovery. What is in the drug discovery toolbox?. 2001 , 6, 244-250	14
1699	Proteases and cellular regulation in plants. 2001 , 4, 254-60	88
1698	X-ray structure of the human hyperplastic discs protein: an ortholog of the C-terminal domain of poly(A)-binding protein. 2001 , 98, 4414-9	70
1697	Evidence for direct interaction between Sprouty and Cbl. 2001 , 276, 5866-75	102
1696	Membrane topology and function of Der3/Hrd1p as a ubiquitin-protein ligase (E3) involved in endoplasmic reticulum degradation. 2001 , 276, 10663-9	144
1695	Features of the parkin/ariadne-like ubiquitin ligase, HHARI, that regulate its interaction with the ubiquitin-conjugating enzyme, Ubc7. 2001 , 276, 19640-7	61
1694	Regulation of the level of Vesl-1S/Homer-1a proteins by ubiquitin-proteasome proteolytic systems. 2001 , 276, 15893-7	40
1693	Ubiquitination precedes internalization and proteolytic cleavage of plasma membrane-bound glycine receptors. 2001 , 276, 42978-85	75
1692	The Mdm-2 amino terminus is required for Mdm2 binding and SUMO-1 conjugation by the E2 SUMO-1 conjugating enzyme Ubc9. 2001 , 276, 40389-95	43
1691	Multiple roles for Rsp5p-dependent ubiquitination at the internalization step of endocytosis. 2001 , 276, 25974-81	120
1690	Direct demonstration of rapid degradation of nuclear sterol regulatory element-binding proteins by the ubiquitin-proteasome pathway. 2001 , 276, 36431-7	128
1689	N-end rule specificity within the ubiquitin/proteasome pathway is not an affinity effect. 2001 , 276, 39428-37	22
1688	The von Hippel-Lindau tumor suppressor protein mediates ubiquitination of activated atypical protein kinase C. 2001 , 276, 43611-7	144
1687	Checkpoint inhibition of the APC/C in HeLa cells is mediated by a complex of BUBR1, BUB3, CDC20, and MAD2. 2001 , 154, 925-36	676
1686	Ligand-dependent degradation of Smad3 by a ubiquitin ligase complex of ROC1 and associated proteins. 2001 , 12, 1431-43	187
1685	Src-catalyzed phosphorylation of c-Cbl leads to the interdependent ubiquitination of both proteins. 2001 , 276, 35185-93	174
1684	Divergent N-terminal sequences of a deubiquitinating enzyme modulate substrate specificity. 2001 , 276, 20357-63	40
1683	COOH-terminal truncations promote proteasome-dependent degradation of mature cystic fibrosis transmembrane conductance regulator from post-Golgi compartments. 2001 , 153, 957-70	75

1682	Involvement of the ubiquitin/proteasome system in sorting of the interleukin 2 receptor beta chain to late endocytic compartments. 2001 , 12, 1293-301	102
1681	The C-terminal region of an Apg7p/Cvt2p is required for homodimerization and is essential for its E1 activity and E1-E2 complex formation. 2001 , 276, 9846-54	70
1680	Deubiquitination step in the endocytic pathway of yeast plasma membrane proteins: crucial role of Doa4p ubiquitin isopeptidase. 2001 , 21, 4482-94	142
1679	Yeast Ull1/Siz1 is a novel SUMO1/Smt3 ligase for septin components and functions as an adaptor between conjugating enzyme and substrates. 2001 , 276, 48973-7	146
1678	Immunoproteasomes shape immunodominance hierarchies of antiviral CD8(+) T cells at the levels of T cell repertoire and presentation of viral antigens. 2001 , 193, 1319-26	221
1677	F-box protein Grr1 interacts with phosphorylated targets via the cationic surface of its leucine-rich repeat. 2001 , 21, 2506-20	64
1676	Substrate recognition by the Cdc20 and Cdh1 components of the anaphase-promoting complex. 2001 , 15, 2396-407	185
1675	Glucose-induced monoubiquitination of the <i>Saccharomyces cerevisiae</i> galactose transporter is sufficient to signal its internalization. 2001 , 183, 3083-8	59
1674	Tricorn protease in bacteria: characterization of the enzyme from <i>Streptomyces coelicolor</i> . 2001 , 382, 449-58	10
1673	Tsg101, a homologue of ubiquitin-conjugating (E2) enzymes, binds the L domain in HIV type 1 Pr55(Gag). 2001 , 98, 7724-9	492
1672	The Cbl family: ubiquitin ligases regulating signaling by tyrosine kinases. 2001 , 2001, pe40	49
1671	Construction and analysis of mouse strains lacking the ubiquitin ligase UBR1 (E3alpha) of the N-end rule pathway. 2001 , 21, 8007-21	115
1670	Proteasome-mediated degradation of BRCA1 protein in MCF-7 human breast cancer cells. 2001 , 19, 687	2
1669	Utilization of a storage protein in the embryonic development of drosophila and xenopus. 2001 , 5, 85-90	1
1668	Dissection of autophagosome formation using Apg5-deficient mouse embryonic stem cells. 2001 , 152, 657-68	1165
1667	Proteasome-mediated glucocorticoid receptor degradation restricts transcriptional signaling by glucocorticoids. 2001 , 276, 42714-21	272
1666	Inhibition of 20 S and 26 S proteasome activity by lithium chloride: impact on the differentiation of leukemia cells by all-trans retinoic acid. 2001 , 276, 42722-7	16
1665	Lung Krüppel-like factor contains an autoinhibitory domain that regulates its transcriptional activation by binding WWP1, an E3 ubiquitin ligase. 2001 , 276, 29299-306	54

1664	In vitro assembly and recognition of Lys-63 polyubiquitin chains. 2001 , 276, 27936-43	206
1663	Kinetic analysis of the conjugation of ubiquitin to picornavirus 3C proteases catalyzed by the mammalian ubiquitin-protein ligase E3alpha. 2001 , 276, 39629-37	11
1662	The RING heterodimer BRCA1-BARD1 is a ubiquitin ligase inactivated by a breast cancer-derived mutation. 2001 , 276, 14537-40	503
1661	A HECT domain E3 enzyme assembles novel polyubiquitin chains. 2001 , 276, 19871-8	99
1660	The DELLA motif is essential for gibberellin-induced degradation of RGA. 2001 , 98, 14162-7	358
1659	U box proteins as a new family of ubiquitin-protein ligases. 2001 , 276, 33111-20	425
1658	Degradation of the kinesin Kip1p at anaphase onset is mediated by the anaphase-promoting complex and Cdc20p. 2001 , 98, 12515-20	56
1657	The human homolog of <i>Saccharomyces cerevisiae</i> Apg7p is a Protein-activating enzyme for multiple substrates including human Apg12p, GATE-16, GABARAP, and MAP-LC3. 2001 , 276, 1701-6	254
1656	The molecular chaperone DnaJ is required for the degradation of a soluble abnormal protein in <i>Escherichia coli</i> . 2001 , 276, 3920-8	44
1655	Proteasome involvement in agonist-induced down-regulation of mu and delta opioid receptors. 2001 , 276, 12345-55	113
1654	Cyclin A is destroyed in prometaphase and can delay chromosome alignment and anaphase. 2001 , 153, 121-36	316
1653	ATF4 degradation relies on a phosphorylation-dependent interaction with the SCF(betaTrCP) ubiquitin ligase. 2001 , 21, 2192-202	200
1652	Proteins related to the Nedd4 family of ubiquitin protein ligases interact with the L domain of Rous sarcoma virus and are required for gag budding from cells. 2001 , 98, 11199-204	195
1651	The infected cell protein 0 of herpes simplex virus 1 dynamically interacts with proteasomes, binds and activates the cdc34 E2 ubiquitin-conjugating enzyme, and possesses in vitro E3 ubiquitin ligase activity. 2001 , 98, 8815-20	105
1650	Enac degradation in A6 cells by the ubiquitin-proteasome proteolytic pathway. 2001 , 276, 12903-10	102
1649	The tumor autocrine motility factor receptor, gp78, is a ubiquitin protein ligase implicated in degradation from the endoplasmic reticulum. 2001 , 98, 14422-7	337
1648	Oxidative modification and inactivation of the proteasome during coronary occlusion/reperfusion. 2001 , 276, 30057-63	301
1647	The nuclear ubiquitin-proteasome system degrades MyoD. 2001 , 276, 22468-75	59

1646	Ubiquitination and degradation of Syk and ZAP-70 protein tyrosine kinases in human NK cells upon CD16 engagement. 2001 , 98, 9611-6	49
1645	Cbl-b-dependent coordinated degradation of the epidermal growth factor receptor signaling complex. 2001 , 276, 27677-84	117
1644	Elevating the level of Cdc34/Ubc3 ubiquitin-conjugating enzyme in mitosis inhibits association of CENP-E with kinetochores and blocks the metaphase alignment of chromosomes. 2001 , 154, 707-17	27
1643	Loss of Smad4 function in pancreatic tumors: C-terminal truncation leads to decreased stability. 2001 , 276, 43175-81	68
1642	The possible biological and reproductive functions of ubiquitin. 2001 , 7, 102-11	66
1641	Sensitivity of mammalian cells expressing mutant ubiquitin to protein-damaging agents. 2001 , 276, 46073-8	72
1640	APC2 Cullin protein and APC11 RING protein comprise the minimal ubiquitin ligase module of the anaphase-promoting complex. 2001 , 12, 3839-51	153
1639	Selective degradation of oxidized calmodulin by the 20 S proteasome. 2001 , 276, 937-43	105
1638	Functional interaction between SEL-10, an F-box protein, and the nuclear form of activated Notch1 receptor. 2001 , 276, 34371-8	278
1637	Anti-atherogenic antioxidants regulate the expression and function of proteasome alpha-type subunits in human endothelial cells. 2001 , 276, 40497-501	19
1636	PIASy, a nuclear matrix-associated SUMO E3 ligase, represses LEF1 activity by sequestration into nuclear bodies. 2001 , 15, 3088-103	430
1635	Targeting of NEDD8 and its conjugates for proteasomal degradation by NUB1. 2001 , 276, 46655-60	112
1634	Localization of the Rsp5p ubiquitin-protein ligase at multiple sites within the endocytic pathway. 2001 , 21, 3564-75	80
1633	CHIP is a U-box-dependent E3 ubiquitin ligase: identification of Hsc70 as a target for ubiquitylation. 2001 , 276, 42938-44	462
1632	Molecular pathology of von Hippel-Lindau disease and the VHL tumour suppressor gene. 2001 , 2001, 1-27	37
1631	Domains of the Rsp5 ubiquitin-protein ligase required for receptor-mediated and fluid-phase endocytosis. 2001 , 12, 421-35	124
1630	Interaction of the ring finger-related U-box motif of a nuclear dot protein with ubiquitin-conjugating enzymes. 2001 , 276, 19617-23	39
1629	Smad-mediated transcription is required for transforming growth factor-beta 1-induced p57(Kip2) proteolysis in osteoblastic cells. 2001 , 276, 10700-5	45

1628	Overlapping recognition determinants within the <i>ssrA</i> degradation tag allow modulation of proteolysis. 2001 , 98, 10584-9	224
1627	Agonist-promoted ubiquitination of the G protein-coupled receptor CXCR4 mediates lysosomal sorting. 2001 , 276, 45509-12	376
1626	The cellular level of PR500, a protein complex related to the 19S regulatory particle of the proteasome, is regulated in response to stresses in plants. 2001 , 12, 383-92	46
1625	Uptake of the ATP-binding cassette (ABC) transporter Ste6 into the yeast vacuole is blocked in the <i>doa4</i> Mutant. 2001 , 12, 1047-59	67
1624	Cbl promotes ubiquitination of the T cell receptor zeta through an adaptor function of Zap-70. 2001 , 276, 26004-11	133
1623	Regulation of STRA13 by the von Hippel-Lindau tumor suppressor protein, hypoxia, and the UBC9/ubiquitin proteasome degradation pathway. 2001 , 276, 15306-15	87
1622	Proteasome inhibition induces nuclear translocation and transcriptional activation of the dioxin receptor in mouse embryo primary fibroblasts in the absence of xenobiotics. 2001 , 21, 1700-9	62
1621	c-Abl regulates p53 levels under normal and stress conditions by preventing its nuclear export and ubiquitination. 2001 , 21, 5869-78	82
1620	The conserved npl4 protein complex mediates proteasome-dependent membrane-bound transcription factor activation. 2001 , 12, 3226-41	141
1619	A role for a novel luminal endoplasmic reticulum aminopeptidase in final trimming of 26 S proteasome-generated major histocompatibility complex class I antigenic peptides. 2001 , 276, 30050-6	36
1618	Distinct functional surface regions on ubiquitin. 2001 , 276, 30483-9	185
1617	Cbl-b, a RING-type E3 ubiquitin ligase, targets phosphatidylinositol 3-kinase for ubiquitination in T cells. 2001 , 276, 4872-8	155
1616	Beta-arrestin and Mdm2, unsuspected partners in signaling from the cell surface. 2001 , 2001, pe41	9
1615	Bestatin as an experimental tool in mammals. 2001 , 2, 67-85	80
1614	Rapid degradation of auxin/indoleacetic acid proteins requires conserved amino acids of domain II and is proteasome dependent. 2001 , 13, 2349-60	234
1613	Cyclopentenone prostaglandins of the J series inhibit the ubiquitin isopeptidase activity of the proteasome pathway. 2001 , 276, 30366-73	103
1612	Accumulation of the proteolytic marker peptide ubiquitin in the trophoblast of mammalian blastocysts. 2001 , 3, 157-61	15
1611	Mechanisms of MHC class I-restricted antigen presentation. 2001 , 5, 379-393	4

1610	Inhibition of proteasome activity by tyropeptin A in PC12 cells. 2002 , 66, 2256-8	20
1609	Ascidian sperm lysin system. 2002 , 19, 139-51	37
1608	Ubiquitylation of the transducin betagamma subunit complex. Regulation by phosducin. 2002 , 277, 44566-75	49
1607	Subcellular recruitment of fibrillarin to nucleoplasmic proteasomes: implications for processing of a nucleolar autoantigen. 2002 , 13, 3576-87	54
1606	Phyllopod acts as an adaptor protein to link the sina ubiquitin ligase to the substrate protein tramtrack. 2002 , 22, 6854-65	52
1605	Deubiquitinating function of adenovirus proteinase. 2002 , 76, 6323-31	90
1604	The kinase-null EphB6 receptor undergoes transphosphorylation in a complex with EphB1. 2002 , 277, 3823-8	81
1603	A ubiquitin-interacting motif (UIM) is essential for Eps15 and Eps15R ubiquitination. 2002 , 277, 30746-53	82
1602	Binding to Elongin C inhibits degradation of interacting proteins in yeast. 2002 , 277, 15586-91	5
1601	Clastosome: a subtype of nuclear body enriched in 19S and 20S proteasomes, ubiquitin, and protein substrates of proteasome. 2002 , 13, 2771-82	111
1600	Overexpression of the ubiquitin-conjugating enzyme Cdc34 confers resistance to methylmercury in <i>Saccharomyces cerevisiae</i> . 2002 , 61, 738-41	37
1599	Sumoylation of Mdm2 by protein inhibitor of activated STAT (PIAS) and RanBP2 enzymes. 2002 , 277, 50131-6	76
1598	Covalent attachment of the SUMO-1 protein to the negative regulatory domain of the c-Myb transcription factor modifies its stability and transactivation capacity. 2002 , 277, 8999-9009	140
1597	Smurf1 regulates the inhibitory activity of Smad7 by targeting Smad7 to the plasma membrane. 2002 , 277, 39919-25	146
1596	Mdm-2 and ubiquitin-independent p53 proteasomal degradation regulated by NQO1. 2002 , 99, 13125-30	184
1595	A molecular basis for stabilization of the von Hippel-Lindau (VHL) tumor suppressor protein by components of the VHL ubiquitin ligase. 2002 , 277, 30388-93	47
1594	Phosphorylation and O-linked glycosylation of Elf-1 leads to its translocation to the nucleus and binding to the promoter of the TCR zeta-chain. 2002 , 168, 2865-71	70
1593	Differentiation of Hdm2-mediated p53 ubiquitination and Hdm2 autoubiquitination activity by small molecular weight inhibitors. 2002 , 99, 14734-9	100

1592	Antagonistic regulation of myogenesis by two deubiquitinating enzymes, UBP45 and UBP69. 2002 , 99, 9733-8	43
1591	The anaphase-promoting complex: it's not just for mitosis any more. 2002 , 16, 2179-206	382
1590	The SCF(COI1) ubiquitin-ligase complexes are required for jasmonate response in Arabidopsis. 2002 , 14, 1919-35	519
1589	Posttranslational Modifications of Proteins. 2002 ,	6
1588	A principal role for the proteasome in endoplasmic reticulum-associated degradation of misfolded intracellular cystic fibrosis transmembrane conductance regulator. 2002 , 277, 11709-14	108
1587	Pseudosubstrate regulation of the SCF(beta-TrCP) ubiquitin ligase by hnRNP-U. 2002 , 16, 439-51	101
1586	Rub1p processing by Yuh1p is required for wild-type levels of Rub1p conjugation to Cdc53p. 2002 , 1, 491-4	41
1585	Activation of UBC5 ubiquitin-conjugating enzyme by the RING finger of ROC1 and assembly of active ubiquitin ligases by all cullins. 2002 , 277, 15758-65	64
1584	Changes in the expression and the enzymic properties of the 20S proteasome in sugar-starved maize roots. evidence for an in vivo oxidation of the proteasome. 2002 , 128, 1149-62	56
1583	Mcm3 is polyubiquitinated during mitosis before establishment of the pre-replication complex. 2002 , 277, 41706-14	10
1582	The F-box subunit of the SCF E3 complex is encoded by a diverse superfamily of genes in Arabidopsis. 2002 , 99, 11519-24	517
1581	Caspase-mediated parkin cleavage in apoptotic cell death. 2002 , 277, 15303-8	43
1580	Fusion proteins with COOH-terminal ubiquitin are stable and maintain dual functionality in vivo. 2002 , 277, 38818-26	41
1579	Nrdp1/FLRF is a ubiquitin ligase promoting ubiquitination and degradation of the epidermal growth factor receptor family member, ErbB3. 2002 , 99, 14843-8	123
1578	Serpin 2a is induced in activated macrophages and conjugates to a ubiquitin homolog. 2002 , 168, 2415-23	78
1577	Functional p53 chimeras containing the Epstein-Barr virus Gly-Ala repeat are protected from Mdm2- and HPV-E6-induced proteolysis. 2002 , 99, 1532-7	40
1576	Molecular characterization of plant ubiquitin-conjugating enzymes belonging to the UbcP4/E2-C/UBCx/UbcH10 gene family. 2002 , 130, 1230-40	36
1575	Biochemistry, cellular and molecular biology, and physiological roles of the iodothyronine selenodeiodinases. 2002 , 23, 38-89	1299

1574	Recent advances in the genetics and pathogenesis of Parkinson disease. 2002 , 58, 179-85	211
1573	Cloning of a cDNA encoding an E2 ubiquitin-conjugating enzyme from <i>Catharanthus roseus</i> : expression analysis in plant organs and in response to hormones in cell suspensions. 2002 , 53, 149-150	2
1572	<i>Arabidopsis</i> COP10 is a ubiquitin-conjugating enzyme variant that acts together with COP1 and the COP9 signalosome in repressing photomorphogenesis. 2002 , 16, 554-9	95
1571	In vivo interference with Skp1 function leads to genetic instability and neoplastic transformation. 2002 , 22, 8375-87	44
1570	Kaposi's sarcoma-associated herpesvirus K3 utilizes the ubiquitin-proteasome system in routing class major histocompatibility complexes to late endocytic compartments. 2002 , 76, 5522-31	81
1569	The role of lineage-specific gene family expansion in the evolution of eukaryotes. 2002 , 12, 1048-59	332
1568	Multiple ubiquitin ligase-mediated processes require COP9 signalosome and AXR1 function. 2002 , 14, 2553-63	121
1567	The checkpoint protein Chfr is a ligase that ubiquitinates Plk1 and inhibits Cdc2 at the G2 to M transition. 2002 , 156, 249-59	165
1566	Analysis of protein-protein proximities using the split-ubiquitin system. 2002 , 1, 230-8	18
1565	Two distinct proteolytic systems responsible for glucose-induced degradation of fructose-1,6-bisphosphatase and the Gal2p transporter in the yeast <i>Saccharomyces cerevisiae</i> share the same protein components of the glucose signaling pathway. 2002 , 277, 8248-54	43
1564	Interferon-gamma-mediated activation and ubiquitin-proteasome-dependent degradation of PPARgamma in adipocytes. 2002 , 277, 4062-8	151
1563	Identification of developmentally expressed proteins that functionally interact with Nedd4 ubiquitin ligase. 2002 , 277, 2897-907	57
1562	Staring, a novel E3 ubiquitin-protein ligase that targets syntaxin 1 for degradation. 2002 , 277, 35071-9	92
1561	Isolation and functional analysis of mouse Uba52 gene and its relevance to diabetic nephropathy. 2002 , 277, 29953-62	22
1560	CUL-4A is critical for early embryonic development. 2002 , 22, 4997-5005	78
1559	Viral late domains. 2002 , 76, 4679-87	372
1558	Proteasome regulates the delivery of LDL receptor-related protein into the degradation pathway. 2002 , 13, 3325-35	35
1557	Cytokinin growth responses in <i>Arabidopsis</i> involve the 26S proteasome subunit RPN12. 2002 , 14, 17-32	162

1556	Transmission of proteotoxicity across cellular compartments. 2002 , 16, 1307-13	16
1555	Cloning and characterization of an androgen receptor N-terminal-interacting protein with ubiquitin-protein ligase activity. 2002 , 29, 41-60	67
1554	Equine infectious anemia virus and the ubiquitin-proteasome system. 2002 , 76, 3038-44	58
1553	Regulation of the transcription factor Gcn4 by Pho85 cyclin PCL5. 2002 , 22, 5395-404	58
1552	Degradation of the alkylated form of the DNA repair protein, O(6)-alkylguanine-DNA alkyltransferase. 2002 , 23, 823-30	116
1551	An easily dissociated 26 S proteasome catalyzes an essential ubiquitin-mediated protein degradation pathway in <i>Trypanosoma brucei</i> . 2002 , 277, 15486-98	54
1550	Insulin induces heterologous desensitization of G-protein-coupled receptor and insulin-like growth factor I signaling by downregulating beta-arrestin-1. 2002 , 22, 6272-85	72
1549	Analysis of the adenovirus E1B-55K-anchored proteome reveals its link to ubiquitination machinery. 2002 , 76, 9194-206	188
1548	The 26S proteasome Rpn10 gene encoding splicing isoforms: evolutionary conservation of the genomic organization in vertebrates. 2002 , 383, 1257-61	8
1547	Ubiquitination of a novel deubiquitinating enzyme requires direct binding to von Hippel-Lindau tumor suppressor protein. 2002 , 277, 4656-62	127
1546	Structural and functional analysis of the human mitotic-specific ubiquitin-conjugating enzyme, UbcH10. 2002 , 277, 21913-21	50
1545	A small molecule ubiquitination inhibitor blocks NF-kappa B-dependent cytokine expression in cells and rats. 2002 , 277, 23573-81	69
1544	Activation of Syk tyrosine kinase is required for c-Cbl-mediated ubiquitination of Fcepsilon RI and Syk in RBL cells. 2002 , 277, 36940-7	63
1543	The pRb-related protein p130 is regulated by phosphorylation-dependent proteolysis via the protein-ubiquitin ligase SCF(Skp2). 2002 , 16, 2946-57	210
1542	SUMO-1 and p53. 2002 , 1, 243-247	72
1541	The Cyclin-Dependent Kinase Inhibitor Butyrolactone Is a Potent Inhibitor of p21WAF1/CIP1 Expression. 2002 , 1, 87-93	8
1540	Seek and Destroy: SCF Ubiquitin Ligases in Mammalian Cell Cycle Control. 2002 , 1, 248-252	32
1539	Ubc6p and ubc7p are required for normal and substrate-induced endoplasmic reticulum-associated degradation of the human selenoprotein type 2 iodothyronine monodeiodinase. 2002 , 16, 1999-2007	52

1538	In vitro reconstitution of CFTR biogenesis and degradation. 2002 , 70, 295-310	9
1537	The proteasome: a novel target for cancer chemotherapy. 2002 , 16, 433-43	440
1536	Proteasome activity is required for androgen receptor transcriptional activity via regulation of androgen receptor nuclear translocation and interaction with coregulators in prostate cancer cells. 2002 , 277, 36570-6	106
1535	Cell-cycle dependent dynamic change of 26S proteasome distribution in tobacco BY-2 cells. 2002 , 43, 604-13	30
1534	Role of the Arabidopsis RING-H2 protein RBX1 in RUB modification and SCF function. 2002 , 14, 2137-44	137
1533	A homolog of the E3 ubiquitin ligase Rbx1 is induced during hyperosmotic stress of salmon. 2002 , 282, R1643-53	13
1532	Transferable domain in the G(1) cyclin Cln2 sufficient to switch degradation of Sic1 from the E3 ubiquitin ligase SCF(Cdc4) to SCF(Grr1). 2002 , 22, 4463-76	38
1531	Phosphorylated alpha-synuclein is ubiquitinated in alpha-synucleinopathy lesions. 2002 , 277, 49071-6	315
1530	Mapping the Progress of Alzheimer's and Parkinson's Disease. 2002 ,	2
1529	Proteomic analysis of leaf peroxisomal proteins in greening cotyledons of Arabidopsis thaliana. 2002 , 43, 689-96	136
1528	Mechanisms underlying nonsteroidal anti-inflammatory drug-induced p27(Kip1) expression. 2002 , 62, 1515-21	29
1527	Identification of tumor-associated antigens using proteomics. 2002 , 1, 257-62	31
1526	Analysis of Drosophila 26 S proteasome using RNA interference. 2002 , 277, 6188-97	85
1525	Comparative genomics and evolution of proteins involved in RNA metabolism. 2002 , 30, 1427-64	383
1524	Ubiquitin-fused and/or multiple early genes from cottontail rabbit papillomavirus as DNA vaccines. 2002 , 76, 7616-24	51
1523	Native CYP2C11: heterologous expression in Saccharomyces cerevisiae reveals a role for vacuolar proteases rather than the proteasome system in the degradation of this endoplasmic reticulum protein. 2002 , 61, 1146-53	21
1522	Degradation or maintenance: actions of the ubiquitin system on eukaryotic chromatin. 2002 , 1, 1-10	45
1521	Long term regulation of aquaporin-2 expression in vasopressin-responsive renal collecting duct principal cells. 2002 , 277, 10379-86	138

1520	Diversity of TITAN Functions in Arabidopsis Seed Development. 2002 , 128, 38-51	89
1519	Amino acid-dependent Gcn4p stability regulation occurs exclusively in the yeast nucleus. 2002 , 1, 663-72	25
1518	Null mutation of AtCUL1 causes arrest in early embryogenesis in Arabidopsis. 2002 , 13, 1916-28	144
1517	Monitoring protein degradation. 2002 , 351, 639-47	26
1516	Expression and characterization of the thylakoid lumen protease DegP1 from Arabidopsis. 2002 , 130, 857-64	61
1515	Role of ubiquitin associated with protein-disulfide isomerase in the endoplasmic reticulum in stress-induced apoptotic cell death. 2002 , 277, 35386-92	129
1514	A ubiquitin-proteasome system is responsible for the protection of yeast and human cells against methylmercury. 2002 , 16, 709-11	47
1513	Complementary roles of multiple nuclear targeting signals in the capsid proteins of the parvovirus minute virus of mice during assembly and onset of infection. 2002 , 76, 7049-59	90
1512	Formation of Mallory body-like inclusions and cell death induced by deregulated expression of keratin 18. 2002 , 13, 3441-51	24
1511	Signaling networks that link cell proliferation and cell fate. 2002 , 277, 11617-20	249
1510	A death-associated protein kinase (DAPK)-interacting protein, DIP-1, is an E3 ubiquitin ligase that promotes tumor necrosis factor-induced apoptosis and regulates the cellular levels of DAPK. 2002 , 277, 46980-6	85
1509	Investigation of intracellular factors involved in methylmercury toxicity. 2002 , 196, 65-70	20
1508	[Structures and functions of the 26S proteasome Rpn10 family]. 2002 , 122, 615-24	0
1507	Neurodegenerative diseases. 2002 , 210-236	3
1506	Renal gene expression in embryonic and newborn diabetic mice. 2002 , 10, 130-8	5
1505	Posttranslational protein modifications: new flavors in the menu of autoantigens. 2002 , 14, 244-9	66
1504	Assaying protein ubiquitination in <i>Saccharomyces cerevisiae</i> . 2002 , 351, 248-57	14
1503	Assembly of the <i>Drosophila</i> 26 S proteasome is accompanied by extensive subunit rearrangements. 2002 , 365, 527-36	31

1502	Structural and functional characterization of the USP11 deubiquitinating enzyme, which interacts with the RanGTP-associated protein RanBPM. 2002 , 367, 87-95	70
1501	Phosphorylation of cytokeratin 17 by herpes simplex virus type 2 US3 protein kinase. 2002 , 46, 707-19	18
1500	Concerted action of ENaC, Nedd4-2, and Sgk1 in transepithelial Na(+) transport. 2002 , 283, F377-87	150
1499	Cellular Adaptation to Amino Acid Availability: Mechanisms Involved in the Regulation of Gene Expression and Protein Metabolism. 2002 , 3, 189-206	3
1498	Self-Processing of Subunits of the Proteasome. 2002 , 22, 335-371	4
1497	Control of ubiquitination of proteins in rat tissues by ubiquitin conjugating enzymes and isopeptidases. 2002 , 282, E739-45	32
1496	Structure determination of the constitutive 20S proteasome from bovine liver at 2.75 Å resolution. 2002 , 131, 171-3	38
1495	Cellular physiological assessment of bivalves after chronic exposure to spilled Exxon Valdez crude oil using a novel molecular diagnostic biotechnology. 2002 , 36, 2987-93	48
1494	Direct identification of a G protein ubiquitination site by mass spectrometry. 2002 , 41, 5067-74	87
1493	The ubiquitin superfamily: members, features, and phylogenies. 2002 , 1, 411-9	21
1492	Panepophenanthrin, from a mushroom strain, a novel inhibitor of the ubiquitin-activating enzyme. 2002 , 65, 1491-3	83
1491	Role of Rpn11 metalloprotease in deubiquitination and degradation by the 26S proteasome. 2002 , 298, 611-5	822
1490	Basic Concepts of Gene Expression. 1-95	
1489	The low lysine content of ricin A chain reduces the risk of proteolytic degradation after translocation from the endoplasmic reticulum to the cytosol. 2002 , 41, 3405-13	113
1488	The APG8/12-activating enzyme APG7 is required for proper nutrient recycling and senescence in <i>Arabidopsis thaliana</i> . 2002 , 277, 33105-14	427
1487	Insulin-like growth factor-binding protein 3 expression increases during immortalization of cervical keratinocytes by human papillomavirus type 16 E6 and E7 proteins. 2002 , 161, 603-10	27
1486	p62 Is a common component of cytoplasmic inclusions in protein aggregation diseases. 2002 , 160, 255-63	495
1485	The ubiquitin-proteasome proteolytic pathway: destruction for the sake of construction. 2002 , 82, 373-428	3210

1484	MdmX is a RING finger ubiquitin ligase capable of synergistically enhancing Mdm2 ubiquitination. 2002 , 277, 49668-75	83
1483	Oxygen-dependent ubiquitination and degradation of hypoxia-inducible factor requires nuclear-cytoplasmic trafficking of the von Hippel-Lindau tumor suppressor protein. 2002 , 22, 5319-36	142
1482	Changes in three types of ubiquitin mRNA and ubiquitin-protein conjugate levels during lens development. 2002 , 74, 595-604	8
1481	PJA1, encoding a RING-H2 finger ubiquitin ligase, is a novel human X chromosome gene abundantly expressed in brain. 2002 , 79, 869-74	41
1480	26 S proteasomes function as stable entities. 2002 , 315, 627-36	48
1479	Implications for the ubiquitination reaction of the anaphase-promoting complex from the crystal structure of the Doc1/Apc10 subunit. 2002 , 316, 955-68	41
1478	20 S proteasomes are imported as precursor complexes into the nucleus of yeast. 2002 , 317, 401-13	87
1477	Dantrolene downregulates the gene expression and activity of the ubiquitin-proteasome proteolytic pathway in septic skeletal muscle. 2002 , 104, 82-7	31
1476	Proteasomal degradation of retinoblastoma-related p130 during adipocyte differentiation. 2002 , 290, 1066-71	20
1475	Isolation and characterization of a novel F-box protein Pof10 in fission yeast. 2002 , 290, 1399-407	9
1474	Characterization of a novel cysteine peptidase from tissue culture of garlic (<i>Allium sativum</i> L.). 2002 , 38, 608-612	11
1473	Analysis of protein ubiquitination. 2002 , Chapter 14, Unit 14.5	7
1472	Structural and functional features of the 37-kDa 2-5A-dependent RNase L in chronic fatigue syndrome. 2002 , 22, 443-56	18
1471	The role of the ubiquitination-proteasome pathway in breast cancer: ubiquitin mediated degradation of growth factor receptors in the pathogenesis and treatment of cancer. 2003 , 5, 8-15	42
1470	Immunoblotting methods for the study of protein ubiquitination. 2002 , 194, 179-203	6
1469	The elusive structural role of ubiquitinated histones. 2002 , 80, 311-9	31
1468	Genetic Engineering. 2002 ,	
1467	Budding yeast Dsk2p is a polyubiquitin-binding protein that can interact with the proteasome. 2002 , 99, 745-50	197

1466	Oscillatory expression of the bHLH factor Hes1 regulated by a negative feedback loop. 2002 , 298, 840-3	592
1465	Notch signaling induces rapid degradation of achaete-scute homolog 1. 2002 , 22, 3129-39	142
1464	Initiation of eukaryotic DNA replication: regulation and mechanisms. 2002 , 72, 41-94	38
1463	Cystic Fibrosis Methods and Protocols. 2002 ,	1
1462	A cycloheximide-sensitive factor regulates TCDD-induced degradation of the aryl hydrocarbon receptor. 2002 , 46, 1491-500	14
1461	The nucleoporin RanBP2 has SUMO1 E3 ligase activity. 2002 , 108, 109-20	633
1460	Structural basis for E2-mediated SUMO conjugation revealed by a complex between ubiquitin-conjugating enzyme Ubc9 and RanGAP1. 2002 , 108, 345-56	459
1459	CNF1 exploits the ubiquitin-proteasome machinery to restrict Rho GTPase activation for bacterial host cell invasion. 2002 , 111, 553-64	227
1458	In vivo and in vitro phosphorylation of <i>Candida albicans</i> 20S proteasome. 2002 , 404, 116-25	29
1457	Proteasome-mediated degradation of tau proteins occurs independently of the chymotrypsin-like activity by a nonprocessive pathway. 2002 , 408, 103-10	65
1456	Ubiquitin-like proteins and Rpn10 play cooperative roles in ubiquitin-dependent proteolysis. 2002 , 293, 986-92	110
1455	Cell adhesion protects c-Raf-1 against ubiquitin-dependent degradation by the proteasome. 2002 , 294, 976-80	14
1454	Targeted substrate degradation by an engineered double RING ubiquitin ligase. 2002 , 295, 370-5	8
1453	Identification of ubiquitin-like protein-binding subunits of the 26S proteasome. 2002 , 296, 813-9	117
1452	A ubiquitin-interacting motif from Hrs binds to and occludes the ubiquitin surface necessary for polyubiquitination in monoubiquitinated proteins. 2002 , 296, 1222-7	57
1451	Physical association of the APIS complex and general transcription factors. 2002 , 296, 991-9	42
1450	Yeast Npi3/Bro1 is involved in ubiquitin-dependent control of permease trafficking. 2002 , 517, 103-9	53
1449	Degradation of human Aurora-A protein kinase is mediated by hCdh1. 2002 , 519, 59-65	81

1448	Inhibition of ubiquitin-dependent proteolysis by a synthetic glycine-alanine repeat peptide that mimics an inhibitory viral sequence. 2002 , 522, 93-8	13
1447	Dimerization, ubiquitylation and endocytosis go together in growth hormone receptor function. 2002 , 529, 102-9	34
1446	The regions of securin and cyclin B proteins recognized by the ubiquitination machinery are natively unfolded. 2002 , 527, 303-8	34
1445	Stabilization signals: a novel regulatory mechanism in the ubiquitin/proteasome system. 2002 , 529, 22-6	27
1444	FGF receptors ubiquitylation: dependence on tyrosine kinase activity and role in downregulation. 2002 , 528, 83-9	49
1443	Nitric oxide induces neutral ceramidase degradation by the ubiquitin/proteasome complex in renal mesangial cell cultures. 2002 , 532, 441-4	25
1442	Structural properties of polyubiquitin chains in solution. 2002 , 324, 637-47	231
1441	Stage- and sex-dependent expressions of Usp9x, an X-linked mouse ortholog of Drosophila Fat facets, during gonadal development and oogenesis in mice. 2002 , 119 Suppl 1, S91-5	21
1440	Selective mutagenesis of lysyl residues leads to a stable and active form of delta 9 stearyl-CoA desaturase. 2002 , 1583, 45-52	9
1439	Protein degradation and the generation of MHC class I-presented peptides. 2002 , 80, 1-70	264
1438	Parkin and CASK/LIN-2 associate via a PDZ-mediated interaction and are co-localized in lipid rafts and postsynaptic densities in brain. 2002 , 277, 486-91	142
1437	Ubiquitin-dependent proteolysis: its role in human diseases and the design of therapeutic strategies. 2002 , 77, 44-56	64
1436	Human origin recognition complex large subunit is degraded by ubiquitin-mediated proteolysis after initiation of DNA replication. 2002 , 9, 481-91	274
1435	The SCF ubiquitin ligase: an extended look. 2002 , 9, 923-5	135
1434	Dual regulation of the met4 transcription factor by ubiquitin-dependent degradation and inhibition of promoter recruitment. 2002 , 10, 69-80	102
1433	Multiple associated proteins regulate proteasome structure and function. 2002 , 10, 495-507	519
1432	NEDD8 modification of CUL1 dissociates p120(CAND1), an inhibitor of CUL1-SKP1 binding and SCF ligases. 2002 , 10, 1511-8	261
1431	Drosophila Nedd4, a ubiquitin ligase, is recruited by Commissureless to control cell surface levels of the roundabout receptor. 2002 , 35, 447-59	144

1430	Parkin protects against the toxicity associated with mutant alpha-synuclein: proteasome dysfunction selectively affects catecholaminergic neurons. 2002 , 36, 1007-19	506
1429	Cbl and Cbl-b in T-cell regulation. 2002 , 23, 140-3	70
1428	Drosophila Roc1a encodes a RING-H2 protein with a unique function in processing the Hh signal transducer Ci by the SCF E3 ubiquitin ligase. 2002 , 2, 757-70	52
1427	Regulated proteolysis of Xom mediates dorsoventral pattern formation during early Xenopus development. 2002 , 3, 557-68	28
1426	The gene encoding a hybrid ubiquitin fusion protein involved in ribosome biogenesis is essential for growth. 2002 , 2, 25-30	
1425	Impairment of proteasome structure and function in aging. 2002 , 34, 1461-74	239
1424	Identification of brain proteins that interact with 2-methylnorharman. An analog of the parkinsonian-inducing toxin, MPP+. 2002 , 44, 255-65	29
1423	Immune evasion by a novel family of viral PHD/LAP-finger proteins of gamma-2 herpesviruses and poxviruses. 2002 , 88, 55-69	68
1422	Human papillomavirus immortalization and transformation functions. 2002 , 89, 213-28	583
1421	Intracellular glycosylation and development. 2002 , 1573, 336-45	17
1420	The relationship between skeletal muscle proteolysis and ubiquitin-proteasome proteolytic pathway in burned rats. 2002 , 28, 527-33	29
1419	The ubiquitin-proteasome pathway in thymocyte apoptosis: caspase-dependent processing of the deubiquitinating enzyme USP7 (HAUSP). 2002 , 39, 431-41	32
1418	A gene trap Dissociation insertion line, associated with a RING-H2 finger gene, shows tissue specific and developmental regulated expression of the gene in Arabidopsis. 2002 , 290, 63-71	14
1417	Metal resistance in yeast mediated by the expression of a maize 20S proteasome alpha subunit. 2002 , 293, 199-204	19
1416	A new subfamily of structurally related human F-box proteins. 2002 , 296, 11-20	30
1415	Molecular cloning of the fish interferon stimulated gene, 15 kDa (ISG15) orthologue: a ubiquitin-like gene induced by nephrotoxic damage. 2002 , 298, 129-39	67
1414	Benzoxazinones in plants: Occurrence, synthetic access, and biological activity. 2002 , 185-232	35
1413	Emergence of multidrug resistance in leukemia cells during chemotherapy: mechanisms and prevention. 2002 , 11, 231-41	11

1412	Pharmacophore model for novel inhibitors of ubiquitin isopeptidases that induce p53-independent cell death. 2002 , 62, 351-8	85
1411	Stress and muscle wasting. 2002 , 80, E50-E55	1
1410	Cellular control of ubiquitin-proteasome-dependent proteolysis1. 2002 , 80, E56-E63	9
1409	Increased muscle proteolysis after local trauma mainly reflects macrophage-associated lysosomal proteolysis. 2002 , 282, E326-35	49
1408	A role of the ubiquitin-proteasome system in neuropathic pain. 2002 , 22, 1363-72	52
1407	Mutant products of the NF2 tumor suppressor gene are degraded by the ubiquitin-proteasome pathway. 2002 , 277, 31279-82	25
1406	Characterization of the proteasome from the extremely halophilic archaeon Haloarcula marismortui. 2002 , 1, 53-61	20
1405	Structural attributes in the conjugation of Ubiquitin SUMO and RUB to protein substrates. 2002 , 7, a148-162	
1404	Methods for study of protein dynamics and protein-protein interaction in protein-ubiquitination by electron paramagnetic resonance spectroscopy. 2002 , 7, c97-110	24
1403	Autophagosome formation in mammalian cells. 2002 , 27, 421-9	739
1402	Cloning of a cDNA encoding an E2 ubiquitin-conjugating enzyme from Catharanthus roseus : expression analysis in plant organs and in response to hormones in cell suspensions. 2002 , 53, 149-150	8
1401	Protein Quality Control in the Export Pathway: The Endoplasmic Reticulum and its Cytoplasmic Proteasome Connection. 2002 , 180-213	4
1400	Isolation of genes induced in Naegleria fowleri during mouse brain passage. 2002 , 38, 105-111	2
1399	A Schistosoma mansoni Pad1 homologue stabilizes c-Jun. 2002 , 121, 163-72	11
1398	Regulation of Egr-1 by association with the proteasome component C8. 2002 , 1592, 163-7	32
1397	Interaction of connexins with protein partners in the control of channel turnover and gating. 2002 , 94, 445-56	36
1396	Glutathione, iron and Parkinson's disease. 2002 , 64, 1037-48	332
1395	Regulation of apoptosis by the ubiquitin and proteasome pathway. 2002 , 6, 25-48	92

1394	Vitellin polypeptide pathways in late insect yolk sacs. 2002 , 30, 243-50	5
1393	Protein degradation: four E3s for the notch pathway. 2002 , 12, R74-8	149
1392	Multiple Skp1-related proteins in <i>Caenorhabditis elegans</i> : diverse patterns of interaction with Cullins and F-box proteins. 2002 , 12, 267-75	60
1391	The <i>Caenorhabditis elegans</i> Skp1-related gene family: diverse functions in cell proliferation, morphogenesis, and meiosis. 2002 , 12, 277-87	97
1390	Plant defence: a new weapon in the arsenal. 2002 , 12, R352-4	17
1389	The ubiquitin-interacting motifs target the endocytic adaptor protein epsin for ubiquitination. 2002 , 12, 1112-6	101
1388	ER quality control: a function for sugars in the cytosol. 2002 , 12, R663-5	
1387	Ubiquitin system: JAMMING in the name of the lid. 2002 , 12, R815-7	19
1386	From UBA to UBX: new words in the ubiquitin vocabulary. 2002 , 12, 216-21	145
1385	BSD: a novel domain in transcription factors and synapse-associated proteins. 2002 , 27, 168-70	32
1384	Protein quality control: U-box-containing E3 ubiquitin ligases join the fold. 2002 , 27, 368-75	310
1383	SUMO wrestling with specificity. 2002 , 10, 281-2	4
1382	The structure of the mammalian 20S proteasome at 2.75 Å resolution. 2002 , 10, 609-18	435
1381	Bridging the gap between SCF and ubiquitin transfer. 2002 , 10, 741-2	1
1380	Biosynthetic incorporation of oxidized amino acids into proteins and their cellular proteolysis. 2002 , 32, 766-75	50
1379	Proteomic identification of oxidatively modified proteins in Alzheimer's disease brain. Part I: creatine kinase BB, glutamine synthase, and ubiquitin carboxy-terminal hydrolase L-1. 2002 , 33, 562-71	497
1378	Chemical genomics in the global study of protein functions. 2002 , 7, 197-205	45
1377	Catabolic response to stress and potential benefits of nutrition support. 2002 , 18, 971-7	77

1376	Stage- and sex-dependent expressions of Usp9x, an X-linked mouse ortholog of Drosophila Fat facets, during gonadal development and oogenesis in mice. 2002 , 2, 87-91	5
1375	Structural basis of ubiquitylation. 2002 , 12, 822-30	50
1374	Abnormal expression of various molecular forms and distribution of T cell receptor zeta chain in patients with systemic lupus erythematosus. 2002 , 46, 163-74	57
1373	Elusive recognition determinants for ubiquitination. 2002 , 15, 3-5	2
1372	Molecular cloning and immunohistochemical localization of ubiquitin C-Terminal hydrolase expressed in testis of a teleost, the Nile Tilapia, <i>Oreochromis niloticus</i> . 2002 , 293, 368-83	12
1371	Histone ubiquitination: a tagging tail unfolds?. 2002 , 24, 166-74	123
1370	Proteasome dynamics during cell cycle in rat Schwann cells. 2002 , 38, 313-28	14
1369	Versatile protein tag, SUMO: its enzymology and biological function. 2002 , 191, 257-68	127
1368	Targeted expression of dominant negative proteasome mutants in <i>Drosophila melanogaster</i> . 2002 , 34, 80-2	40
1367	ASK1 physically interacts with COI1 and is required for male fertility in <i>Arabidopsis</i> . 2002 , 45, 631-6	4
1366	A test of fusion protein stability in the plant <i>Arabidopsis thaliana</i> reveals degradation signals from ACC synthase and from the plant N-end rule pathway. 2002 , 21, 174-179	13
1365	Ubiquitin-proteasome-dependent proteolysis in rainbow trout (<i>Oncorhynchus mykiss</i>): effect of food deprivation. 2002 , 445, 257-66	65
1364	Spatial distribution of the 26S proteasome in meristematic tissues and primordia of rice (<i>Oryza sativa</i> L.). 2002 , 214, 703-7	11
1363	Study of the regression process in cardiac rhabdomyomas. 2002 , 5, 29-36	23
1362	Alterations of ubiquitin immunoreactivity in the hippocampal formation after perforant pathway lesion. 2002 , 103, 453-7	10
1361	Major histocompatibility complex class I-restricted antigen processing and presentation. 2002 , 60, 1-9	57
1360	Isopeptide bonds in chemotactic tripeptides. Synthesis and activity of lysine-containing fMLF analogs. 2002 , 59, 283-91	5
1359	Hassles with taking out the garbage: aggravating aggresomes. 2002 , 3, 388-96	306

1358	Glutathione decreases in dopaminergic PC12 cells interfere with the ubiquitin protein degradation pathway: relevance for Parkinson's disease?. 2002 , 80, 555-61	60
1357	The activity of the 20S proteasome is maintained in detached wheat leaves during senescence in darkness. 2002 , 40, 161-166	15
1356	Expression of proteasome subunit isoforms during spermatogenesis in <i>Drosophila melanogaster</i> . 2002 , 11, 627-39	40
1355	Selective adrenergic/cyclic AMP-dependent switch-off of proteasomal proteolysis alone switches on neural signal transduction: an example from the pineal gland. 2000 , 75, 2123-32	57
1354	Structure/function of alpha-synuclein in health and disease: rational development of animal models for Parkinson's and related diseases. 2002 , 82, 449-57	64
1353	Astrocytic but not neuronal increased expression and redistribution of parkin during unfolded protein stress. 2002 , 83, 1431-40	83
1352	Purification, crystallization and preliminary X-ray diffraction analysis of yeast regulatory particle non-ATPase subunit 6 (Nas6p). 2002 , 58, 859-60	3
1351	Combinatorial diversity of fission yeast SCF ubiquitin ligases by homo- and heterooligomeric assemblies of the F-box proteins Pop1p and Pop2p. 2002 , 3, 22	34
1350	The PEST sequence does not contribute to the stability of the cystic fibrosis transmembrane conductance regulator. 2002 , 3, 29	5
1349	The F-box protein SKP2 mediates androgen control of p27 stability in LNCaP human prostate cancer cells. 2002 , 3, 22	58
1348	Molecular cloning of an elongation factor 1alpha and its mRNA localization in testis of the Nile tilapia <i>Oreochromis niloticus</i> . 2002 , 68, 830-837	4
1347	The cell biology of phytochrome signalling. 2002 , 154, 553-590	62
1346	Activation and degradation of the transcription factor C/EBP during long-term facilitation in <i>Aplysia</i> . 1999 , 73, 2415-23	58
1345	EL5, a rice N-acetylchitooligosaccharide elicitor-responsive RING-H2 finger protein, is a ubiquitin ligase which functions in vitro in co-operation with an elicitor-responsive ubiquitin-conjugating enzyme, OsUBC5b. 2002 , 30, 447-55	88
1344	A role for nuclear localised proteasomes in mediating auxin action. 2002 , 30, 691-8	3
1343	Ruk is ubiquitinated but not degraded by the proteasome. 2002 , 269, 3402-8	22
1342	Antiproliferative proteins of the BTG/Tob family are degraded by the ubiquitin-proteasome system. 2002 , 269, 3596-604	43
1341	Proteasome-driven turnover of tryptophan hydroxylase is triggered by phosphorylation in RBL2H3 cells, a serotonin producing mast cell line. 2002 , 269, 4780-8	18

1340	RING finger, B-box, and coiled-coil (RBCC) protein expression in branchial epithelial cells of Japanese eel, <i>Anguilla japonica</i> . 2002 , 269, 6152-61	11
1339	Interaction of Hsp90 with 20S proteasome: thermodynamic and kinetic characterization. 2002 , 48, 169-77	34
1338	Phosphorylation regulates the stability of the regulatory CK2beta subunit. 2002 , 21, 3754-64	66
1337	Ubiquitination capabilities in response to neocarzinostatin and H(2)O(2) stress in cell lines from patients with ataxia-telangiectasia. 2002 , 21, 4363-73	22
1336	CK2-dependent phosphorylation of the E2 ubiquitin conjugating enzyme UBC3B induces its interaction with beta-TrCP and enhances beta-catenin degradation. 2002 , 21, 3978-87	46
1335	Selective proteasomal dysfunction in the hippocampal CA1 region after transient forebrain ischemia. 2002 , 22, 705-10	79
1334	Structural basis for the recognition of hydroxyproline in HIF-1 alpha by pVHL. 2002 , 417, 975-8	550
1333	E3 ubiquitin ligase that recognizes sugar chains. 2002 , 418, 438-42	298
1332	A cryptic protease couples deubiquitination and degradation by the proteasome. 2002 , 419, 403-7	591
1331	Active genes are tri-methylated at K4 of histone H3. 2002 , 419, 407-11	1606
1330	Structure of the HP1 chromodomain bound to histone H3 methylated at lysine 9. 2002 , 416, 103-7	505
1329	Ubiquitination-dependent cofactor exchange on LIM homeodomain transcription factors. 2002 , 416, 99-103	131
1328	Structure of the Cul1-Rbx1-Skp1-F boxSkp2 SCF ubiquitin ligase complex. 2002 , 416, 703-9	1145
1327	A proteasomal ATPase subunit recognizes the polyubiquitin degradation signal. 2002 , 416, 763-7	376
1326	DNA repair: right on target with ubiquitin. 2002 , 419, 120-1	18
1325	The missing link. 2002 , 419, 121-3	1
1324	Ubiquitin branches out. 2002 , 4, E295-8	42
1323	Hakai, a c-Cbl-like protein, ubiquitinates and induces endocytosis of the E-cadherin complex. 2002 , 4, 222-31	680

1322	The Doc1 subunit is a processivity factor for the anaphase-promoting complex. 2002 , 4, 880-7	113
1321	Dysregulation of T lymphocyte function in itchy mice: a role for Itch in TH2 differentiation. 2002 , 3, 281-7	290
1320	Not just research tools--proteasome inhibitors offer therapeutic promise. 2002 , 8, 338-40	97
1319	Efp: a ring of independence?. 2002 , 8, 661-2	3
1318	Ubiquitin and the synapse. 2002 , 3, 854-61	142
1317	<i>Giardia intestinalis</i> glucosamine 6-phosphate isomerase: the key enzyme to encystment appears to be controlled by ubiquitin attachment. 2002 , 49, 134-6	15
1316	UP REGULATION OF UBIQUITIN C-TERMINAL HYDROLASE IN THE RESPONSE OF THE MOSQUITO ANOPHELES STEPHENS TO PLASMODIUM YOELII INFECTION. 2002 , 9, 23-27	
1315	The <i>Candida albicans</i> UBI3 gene encoding a hybrid ubiquitin fusion protein involved in ribosome biogenesis is essential for growth. 2002 , 2, 25-30	5
1314	All four Sendai Virus C proteins bind Stat1, but only the larger forms also induce its mono-ubiquitination and degradation. 2002 , 295, 256-65	104
1313	Differential production of cytokines and activation of NF-kappaB in HPV-transformed keratinocytes. 2002 , 298, 271-85	35
1312	The carboxyl segment of the mumps virus V protein associates with Stat proteins in vitro via a tryptophan-rich motif. 2002 , 300, 92-9	77
1311	Lysine-independent ubiquitination of Epstein-Barr virus LMP2A. 2002 , 300, 153-9	52
1310	The role of regulated protein degradation in auxin response. 2002 , 49, 401-408	90
1309	The Proteasome: Destroy to Live. 2002 , 36, 613-624	11
1308	Protein complexes mediate signalling in plant responses to hormones, light, sucrose and pathogens. 2002 , 50, 971-80	30
1307	Apoptosis in Schwann cell cultures is closely interrelated with the activity of the ubiquitin-proteasome proteolytic pathway. 2002 , 27, 1401-19	7
1306	Ubiquitin-dependent sperm quality control mechanism recognizes spermatozoa with DNA defects as revealed by dual ubiquitin-TUNEL assay. 2002 , 61, 406-13	70
1305	A Method for Analyzing the Ubiquitination and Degradation of Aurora-A. 2002 , 4, 62-69	4

1304	Phosphorylation of retinoid X receptor suppresses its ubiquitination in human hepatocellular carcinoma. 2002 , 35, 332-40	55
1303	The ubiquitin-proteasome system and its role in ethanol-induced disorders. 2002 , 7, 15-28	32
1302	Role of ubiquitination in retro-translocation of cholera toxin and escape of cytosolic degradation. 2002 , 3, 1222-7	120
1301	LNx functions as a RING type E3 ubiquitin ligase that targets the cell fate determinant Numb for ubiquitin-dependent degradation. 2002 , 21, 93-102	139
1300	Structure and functional interactions of the Tsg101 UEV domain. 2002 , 21, 2397-406	235
1299	Identification of a ubiquitin-protein ligase subunit within the CCR4-NOT transcription repressor complex. 2002 , 21, 355-64	161
1298	Regulation of the ubiquitin-conjugating enzyme hHR6A by CDK-mediated phosphorylation. 2002 , 21, 2009-18	55
1297	Phosphorylation-dependent ubiquitylation and degradation of androgen receptor by Akt require Mdm2 E3 ligase. 2002 , 21, 4037-48	340
1296	Sprouty2 attenuates epidermal growth factor receptor ubiquitylation and endocytosis, and consequently enhances Ras/ERK signalling. 2002 , 21, 4796-808	193
1295	Regulation of G(2)/M events by Cdc25A through phosphorylation-dependent modulation of its stability. 2002 , 21, 5911-20	235
1294	Cell cycle-dependent nuclear export of Cdh1p may contribute to the inactivation of APC/C(Cdh1). 2002 , 21, 6515-26	86
1293	Activation of the E3 ligase function of the BRCA1/BARD1 complex by polyubiquitin chains. 2002 , 21, 6755-62	222
1292	The SOCS box: a tale of destruction and degradation. 2002 , 27, 235-41	347
1291	Parkin's substrates and the pathways leading to neuronal damage. 2003 , 3, 1-13	40
1290	Making yeast tremble: yeast models as tools to study neurodegenerative disorders. 2003 , 4, 133-46	32
1289	Interaction of the tail with the catalytic region of a class II E2 conjugating enzyme. 2003 , 26, 147-55	9
1288	The over-expression of an alfalfa RING-H2 gene induces pleiotropic effects on plant growth and development. 2003 , 52, 121-33	32
1287	The Arabidopsis SKP1-like genes present a spectrum of expression profiles. 2003 , 52, 715-27	30

1286	Conservation and divergence of ASK1 and ASK2 gene functions during male meiosis in <i>Arabidopsis thaliana</i> . 2003 , 53, 163-73	39
1285	Doc1 mediates the activity of the anaphase-promoting complex by contributing to substrate recognition. 2003 , 22, 786-96	154
1284	Ras promotes p21(Waf1/Cip1) protein stability via a cyclin D1-imposed block in proteasome-mediated degradation. 2003 , 22, 2036-46	119
1283	For whom the bell tolls: protein quality control of the endoplasmic reticulum and the ubiquitin-proteasome connection. 2003 , 22, 2309-17	330
1282	Identification of the RNA polymerase II subunit hsRPB7 as a novel target of the von Hippel-Lindau protein. 2003 , 22, 4249-59	71
1281	The pore of activated 20S proteasomes has an ordered 7-fold symmetric conformation. 2003 , 22, 4356-64	87
1280	A conserved catalytic residue in the ubiquitin-conjugating enzyme family. 2003 , 22, 5241-50	134
1279	Arkadia amplifies TGF-beta superfamily signalling through degradation of Smad7. 2003 , 22, 6458-70	174
1278	<i>Drosophila</i> morgue and the intersection between protein ubiquitination and programmed cell death. 2003 , 8, 129-39	12
1277	Proteolysis in bacterial regulatory circuits. 2003 , 19, 565-87	341
1276	Regulation of membrane protein transport by ubiquitin and ubiquitin-binding proteins. 2003 , 19, 141-72	931
1275	Controlling transcription by destruction: the regulation of yeast Gcn4p stability. 2003 , 44, 8-18	32
1274	Not just for housekeeping: protein initiation and elongation factors in cell growth and tumorigenesis. 2003 , 81, 536-48	111
1273	Pael receptor, endoplasmic reticulum stress, and Parkinson's disease. 2003 , 250 Suppl 3, III25-9	36
1272	Identification and characterization of three novel cold acclimation-responsive genes from the extremophile hair grass <i>Deschampsia antarctica</i> Desv. 2003 , 7, 459-69	22
1271	Cell-cycle-related variation in proteins in suspension-cultured rice cells. 2003 , 116, 469-75	3
1270	Involvement of the ubiquitin/proteasome pathway in the organisation and polarised growth of kiwifruit pollen tubes. 2003 , 16, 123-133	16
1269	The ubiquitin proteasome system functions as an inhibitory constraint on synaptic strengthening. 2003 , 13, 887-98	120

1268	Transferring substrates to the 26S proteasome. 2003 , 28, 26-31	140
1267	A closer look of the HECTic ubiquitin ligases. 2003 , 11, 5-6	9
1266	RING finger ubiquitin protein ligases: implications for tumorigenesis, metastasis and for molecular targets in cancer. 2003 , 13, 5-14	110
1265	The role of ubiquitylation in signaling by growth factors: implications to cancer. 2003 , 13, 29-40	60
1264	Deregulated degradation of the cdk inhibitor p27 and malignant transformation. 2003 , 13, 41-7	305
1263	The ubiquitin/proteasome system in Epstein-Barr virus latency and associated malignancies. 2003 , 13, 69-76	21
1262	Genes and parkinsonism. 2003 , 2, 221-8	85
1261	When protein destruction runs amok, malignancy is on the loose. 2003 , 4, 251-6	75
1260	Dual roles of human BubR1, a mitotic checkpoint kinase, in the monitoring of chromosomal instability. 2003 , 4, 483-97	149
1259	The roles of the ubiquitin-proteasome and autophagy/lysosome pathways in Huntington's disease and related conditions. 2003 , 3, 141-148	9
1258	BAG-1: a multifunctional regulator of cell growth and survival. 2003 , 1603, 83-98	44
1257	Phylogeny of Eukaryotes recovered with molecular data: highlights and pitfalls. 2003 , 39, 113-122	16
1256	Proteasome degradation: enter the substrate. 2003 , 13, 550-3	47
1255	Ubiquitin-mediated proteasome activity is required for agonist-induced endocytosis of GluRs. 2003 , 13, 2073-81	169
1254	The F box protein AFR is a positive regulator of phytochrome A-mediated light signaling. 2003 , 13, 2091-6	64
1253	Identification of a gene in <i>Leishmania infantum</i> encoding a protein that contains a SP-RING/MIZ zinc finger domain. 2003 , 1629, 44-52	9
1252	Signals in hepatitis A virus P3 region proteins recognized by the ubiquitin-mediated proteolytic system. 2003 , 309, 306-19	18
1251	Epstein-Barr virus nuclear antigen 1 (EBNA1) induced cytotoxicity in epithelial cells is associated with EBNA1 degradation and processing. 2003 , 313, 663-76	15

1250	Transcriptional profiling in hepatoblastomas using high-density oligonucleotide DNA array. 2003 , 145, 152-60	43
1249	Molecular cloning, differential expression, and functional characterization of a family of class I ubiquitin-conjugating enzyme (E2) genes in cotton (<i>Gossypium</i>). 2003 , 1625, 269-79	21
1248	SNARE regulators: matchmakers and matchbreakers. 2003 , 1641, 99-110	72
1247	Low-level arsenite causes accumulation of ubiquitinated proteins in rabbit renal cortical slices and HEK293 cells. 2003 , 186, 101-9	63
1246	N-terminal destruction signals lead to rapid degradation of the major histocompatibility complex class II transactivator CIITA. 2003 , 33, 2337-47	36
1245	Profiling stage-dependent changes of protein expression in <i>Caenorhabditis elegans</i> by mass spectrometric proteome analysis leads to the identification of stage-specific marker proteins. 2003 , 24, 1809-17	26
1244	Transcription profiling reveals mitochondrial, ubiquitin and signaling systems abnormalities in postmortem brains from subjects with a history of alcohol abuse or dependence. 2003 , 72, 756-67	94
1243	Ubiquitin-dependent proteolysis in mammalian spermatogenesis, fertilization, and sperm quality control: killing three birds with one stone. 2003 , 61, 88-102	213
1242	Impact of genetic analysis on Parkinson's disease research. 2003 , 18 Suppl 6, S96-8	16
1241	Simplified synthetic TMC-95A/B analogues retain the potency of proteasome inhibitory activity. 2003 , 4, 508-13	24
1240	Increased ubiquitination and reduced expression of LCK in T lymphocytes from patients with systemic lupus erythematosus. 2003 , 48, 1343-54	74
1239	Transcription activation by a PNA-peptide chimera in a mammalian cell extract. 2003 , 10, 909-16	28
1238	Cloning and identification of a novel ubiquitin-like protein, BMSC-UbP, from human bone marrow stromal cells. 2003 , 86, 169-75	12
1237	Mechanisms regulating the cadmium-mediated suppression of Sp1 transcription factor activity in alveolar epithelial cells. 2003 , 184, 157-78	61
1236	Vitellin cleavage products are proteolytically degraded by ubiquitination in stick insect embryos. 2003 , 34, 39-48	5
1235	Possible role of ubiquitin in silica biomineralization in diatoms: identification of a homologue with high silica affinity. 2003 , 20, 163-9	9
1234	Starvation and temperature upshift cause an increase in the enzymatically active cell wall-associated glyceraldehyde-3-phosphate dehydrogenase protein in yeast. 2003 , 4, 297-303	19
1233	Identification of metabolic enzymes in renal cell carcinoma utilizing PROTEOMEX analyses. 2003 , 1646, 21-31	57

1232	The link between 20S proteasome activity and post-replication DNA repair in <i>Saccharomyces cerevisiae</i> . 2003 , 49, 1321-32	23
1231	Interaction of NtCDPK1 calcium-dependent protein kinase with NtRpn3 regulatory subunit of the 26S proteasome in <i>Nicotiana tabacum</i> . 2003 , 33, 825-40	97
1230	A novel C-terminal proteolytic processing of cytosolic pyruvate kinase, its phosphorylation and degradation by the proteasome in developing soybean seeds. 2003 , 34, 77-93	61
1229	The HECT ubiquitin-protein ligase (UPL) family in <i>Arabidopsis</i> : UPL3 has a specific role in trichome development. 2003 , 35, 729-42	158
1228	Comparative analysis of the self-incompatibility (S-) locus region of <i>Prunus mume</i> : identification of a pollen-expressed F-box gene with allelic diversity. 2003 , 8, 203-13	237
1227	A palmitoylated RING finger ubiquitin ligase and its homologue in the brain membranes. 2003 , 86, 749-62	20
1226	Glycogen synthase kinase-3beta phosphorylates synphilin-1 in vitro. 2003 , 23, 199-202	6
1225	Iron-responsive genes of <i>Phanerochaete chrysosporium</i> isolated by differential display reverse transcription polymerase chain reaction. 2003 , 5, 777-86	10
1224	The role of proteolysis in R gene mediated defence in plants. 2003 , 4, 287-96	21
1223	Regulated interaction between polypeptide chain elongation factor-1 complex with the 26S proteasome during <i>Xenopus</i> oocyte maturation. 2003 , 4, 6	10
1222	From transcriptome to proteome: differentially expressed proteins identified in synovial tissue of patients suffering from rheumatoid arthritis and osteoarthritis by an initial screen with a panel of 791 antibodies. 2003 , 3, 991-1002	253
1221	Transcriptome characterization of the dimorphic and pathogenic fungus <i>Paracoccidioides brasiliensis</i> by EST analysis. 2003 , 20, 263-71	65
1220	Proteome analysis of conditioned medium from cultured adult hippocampal progenitors. 2003 , 17, 2195-202	26
1219	NEDD8 protein is involved in ubiquitinated inclusion bodies. 2003 , 199, 259-66	66
1218	CLONING AND EXPRESSION OF <i>SPODOPTERA LITURA</i> UBIQUITIN GENE. 2003 , 10, 27-34	2
1217	Small molecule activators of sirtuins extend <i>Saccharomyces cerevisiae</i> lifespan. 2003 , 425, 191-6	3055
1216	Control of spontaneous and damage-induced mutagenesis by SUMO and ubiquitin conjugation. 2003 , 425, 188-91	686
1215	The gene product Murr1 restricts HIV-1 replication in resting CD4+ lymphocytes. 2003 , 426, 853-7	202

1214	Inducible p27(Kip1) expression inhibits proliferation of K562 cells and protects against apoptosis induction by proteasome inhibitors. 2003 , 10, 290-301	25
1213	Negative regulation of Rap1 activation by the Cbl E3 ubiquitin ligase. 2003 , 4, 425-31	31
1212	Retinoid target genes in acute promyelocytic leukemia. 2003 , 17, 1723-30	64
1211	Proteomic analysis of ubiquitin-proteasome effects: insight into the function of eukaryotic initiation factor 5A. 2003 , 22, 4819-30	65
1210	Monoubiquitination and cellular distribution of XIAP in neurons after traumatic brain injury. 2003 , 23, 1129-36	42
1209	Overexpression of HDJ-2 protects astrocytes from ischemia-like injury and reduces redistribution of ubiquitin staining in vitro. 2003 , 23, 1113-6	17
1208	A transgenic mouse model of the ubiquitin/proteasome system. 2003 , 21, 897-902	194
1207	Diverse roles for ubiquitin-dependent proteolysis in transcriptional activation. 2003 , 5, 845-50	152
1206	Targeting of protein ubiquitination by BTB-Cullin 3-Roc1 ubiquitin ligases. 2003 , 5, 1001-7	337
1205	BTB proteins as henchmen of Cul3-based ubiquitin ligases. 2003 , 5, 950-1	45
1204	Identification of the ubiquitin-protein ligase that recognizes oxidized IRP2. 2003 , 5, 336-40	156
1203	Identification of Stk6/STK15 as a candidate low-penetrance tumor-susceptibility gene in mouse and human. 2003 , 34, 403-12	285
1202	Enhancement of CIITA transcriptional function by ubiquitin. 2003 , 4, 1074-82	87
1201	The antiretroviral enzyme APOBEC3G is degraded by the proteasome in response to HIV-1 Vif. 2003 , 9, 1404-7	788
1200	Role of SGT1 in the regulation of plant R gene signalling. 2003 , 5, 969-76	62
1199	Extracellular ubiquitin system implicated in fertilization of the ascidian, <i>Halocynthia roretzi</i> : isolation and characterization. 2003 , 264, 299-299	
1198	Early degradation of paternal mitochondria in domestic pig (<i>Sus scrofa</i>) is prevented by selective proteasomal inhibitors lactacystin and MG132. 2003 , 68, 1793-800	84
1197	Hepatic cytochrome P450 degradation: mechanistic diversity of the cellular sanitation brigade. 2003 , 35, 107-43	44

1196	Analysis of CUL-5 expression in breast epithelial cells, breast cancer cell lines, normal tissues and tumor tissues. 2003 , 2, 40	43
1195	A ubiquitin-binding motif required for intramolecular monoubiquitylation, the CUE domain. 2003 , 22, 1273-81	229
1194	CUL-4A stimulates ubiquitylation and degradation of the HOXA9 homeodomain protein. 2003 , 22, 6057-67	60
1193	Structure and ubiquitin interactions of the conserved zinc finger domain of Npl4. 2003 , 278, 20225-34	115
1192	Structure of the Jab1/MPN domain and its implications for proteasome function. 2003 , 42, 11460-5	100
1191	New polyhydroxy sterols: proteasome inhibitors from a marine sponge <i>Acanthodendrilla</i> sp. 2003 , 66, 1181-5	44
1190	Role of an N-terminal site of Ubc9 in SUMO-1, -2, and -3 binding and conjugation. 2003 , 42, 9959-69	83
1189	Quantity and quality control of gastric proton pump in the endoplasmic reticulum by ubiquitin/proteasome system. 2003 , 42, 4771-9	4
1188	The calpain system. 2003 , 83, 731-801	2232
1187	Multiple functional categories of proteins identified in an in vitro cellular ubiquitin affinity extract using shotgun peptide sequencing. 2003 , 2, 394-404	33
1186	Multifaceted roles of beta-arrestins in the regulation of seven-membrane-spanning receptor trafficking and signalling. 2003 , 375, 503-15	332
1185	Peptidylarginine deiminase type 4: identification of a rheumatoid arthritis-susceptible gene. 2003 , 9, 503-8	41
1184	The C289G and C418R missense mutations cause rapid sequestration of human Parkin into insoluble aggregates. 2003 , 14, 357-64	67
1183	Ubiquitination of alpha-synuclein is not required for formation of pathological inclusions in alpha-synucleinopathies. 2003 , 163, 91-100	119
1182	Extracellular ubiquitin system implicated in fertilization of the ascidian, <i>Halocynthia roretzi</i> : isolation and characterization. 2003 , 264, 299-307	27
1181	Protein kinase CK2: structure, regulation and role in cellular decisions of life and death. 2003 , 369, 1-15	958
1180	New patterns of inheritance in mitochondrial disease. 2003 , 310, 247-51	39
1179	Coordinate upregulation of proteolytic-related genes in rat muscle during late fasting. 2003 , 311, 929-34	9

1178	UV irradiation triggers ubiquitin-dependent degradation of p21(WAF1) to promote DNA repair. 2003 , 114, 599-610	221
1177	Investigations on the maturation and regulation of archaeobacterial proteasomes. 2003 , 327, 75-83	84
1176	Novel ubiquitin fusion proteins: ribosomal protein P1 and actin. 2003 , 328, 771-8	26
1175	Lens fibers have a fully functional ubiquitin-proteasome pathway. 2003 , 76, 623-31	42
1174	Ubiquitin binding proteins protect ubiquitin conjugates from disassembly. 2003 , 535, 77-81	40
1173	TIP120A associates with unneddylated cullin 1 and regulates its neddylation. 2003 , 541, 102-8	28
1172	Induction of MafBx and Murf ubiquitin ligase mRNAs in rat skeletal muscle after LPS injection. 2003 , 544, 214-7	115
1171	Misfolded plant virus proteins: elicitors and targets of ubiquitylation. 2003 , 545, 229-32	16
1170	Inhibition of ubiquitin/proteasome-dependent proteolysis in <i>Saccharomyces cerevisiae</i> by a Gly-Ala repeat. 2003 , 555, 397-404	33
1169	Regulating the regulators: lysine modifications make their mark. 2003 , 112, 11-7	204
1168	Structural basis for phosphodependent substrate selection and orientation by the SCFCdc4 ubiquitin ligase. 2003 , 112, 243-56	424
1167	The polycomb protein Pc2 is a SUMO E3. 2003 , 113, 127-37	460
1166	The ubiquitin ligase activity in the DDB2 and CSA complexes is differentially regulated by the COP9 signalosome in response to DNA damage. 2003 , 113, 357-67	604
1165	Solution structure of a CUE-ubiquitin complex reveals a conserved mode of ubiquitin binding. 2003 , 113, 621-30	199
1164	Mechanism of ubiquitin recognition by the CUE domain of Vps9p. 2003 , 113, 609-20	190
1163	EIN3-dependent regulation of plant ethylene hormone signaling by two arabidopsis F box proteins: EBF1 and EBF2. 2003 , 115, 679-89	563
1162	N-Terminal modifications of the 19S regulatory particle subunits of the yeast proteasome. 2003 , 409, 341-8	72
1161	The role of ubiquitin in down-regulation and intracellular sorting of membrane proteins: insights from yeast. 2003 , 1614, 139-55	57

1160	Characterization of the mouse gene for the U-box-type ubiquitin ligase UFD2a. 2003 , 300, 297-304	46
1159	Nedd8-modification of Cul1 is promoted by Roc1 as a Nedd8-E3 ligase and regulates its stability. 2003 , 301, 392-8	80
1158	Mammalian Numb is a target protein of Mdm2, ubiquitin ligase. 2003 , 302, 869-72	43
1157	Calpain is involved in the HIV replication from the latently infected OM10.1 cells. 2003 , 303, 940-6	18
1156	Preferential interaction of TIP120A with Cul1 that is not modified by NEDD8 and not associated with Skp1. 2003 , 303, 1209-16	53
1155	Beacon interacts with cdc2/cdc28-like kinases. 2003 , 304, 125-9	20
1154	Alterations of structure and hydrolase activity of parkinsonism-associated human ubiquitin carboxyl-terminal hydrolase L1 variants. 2003 , 304, 176-83	129
1153	Activation of Nrf2 and accumulation of ubiquitinated A170 by arsenic in osteoblasts. 2003 , 305, 271-7	82
1152	ISG15, not just another ubiquitin-like protein. 2003 , 307, 431-4	58
1151	The polyamines spermine and spermidine protect proteins from structural and functional damage by AGE precursors: a new role for old molecules?. 2003 , 72, 2603-16	65
1150	Involvement of the proteasome in activation of endothelial nitric oxide synthase. 2003 , 73, 2225-36	17
1149	Part I: parkin-associated proteins and Parkinson's disease. 2003 , 45, 1-13	60
1148	The DNA topoisomerase I binding protein topors as a novel cellular target for SUMO-1 modification: characterization of domains necessary for subcellular localization and sumolation. 2003 , 290, 13-27	41
1147	Non-covalent interaction of ubiquitin with insulin-degrading enzyme. 2003 , 204, 11-20	24
1146	Cullin-5 is ubiquitous in the rat brain. 2003 , 345, 121-5	10
1145	Characterization of a novel ubiquitin-fusion gene Uba256 from Spodoptera litura nucleopolyhedrovirus. 2003 , 303, 111-9	4
1144	Transcriptional regulation by the MAP kinase signaling cascades. 2003 , 320, 3-21	395
1143	Therapeutic anti-cancer targets upstream of the proteasome. 2003 , 29 Suppl 1, 49-57	51

1142	Type I interferons induce proteins susceptible to act as thyroid receptor (TR) corepressors and to signal the TR for destruction by the proteasome: possible etiology for unexplained chronic fatigue. 2003 , 60, 175-80	10
1141	Neurological disease: UPS stops delivering!. 2003 , 24, 18-23	29
1140	Endoproteolytic activity of the proteasome. 2003 , 299, 408-11	346
1139	Deubiquitination, a new player in Golgi to endoplasmic reticulum retrograde transport. 2003 , 278, 51989-92	62
1138	In vivo assays to study histone ubiquitylation. 2003 , 31, 59-66	26
1137	Biotin-ubiquitin tagging of mammalian proteins in Escherichia coli. 2003 , 30, 140-9	21
1136	Quantitating protein synthesis, degradation, and endogenous antigen processing. 2003 , 18, 343-54	415
1135	GRAIL: an E3 ubiquitin ligase that inhibits cytokine gene transcription is expressed in anergic CD4+ T cells. 2003 , 18, 535-47	241
1134	Depletion of polyubiquitin encoded by the UBI4 gene confers pleiotropic phenotype to Candida albicans cells. 2003 , 39, 70-81	19
1133	Differential expression of ubiquitin and proteasome-dependent pathway components in rat tissues. 2003 , 134, 297-305	12
1132	Fission yeast COP9/signalosome suppresses cullin activity through recruitment of the deubiquitylating enzyme Ubp12p. 2003 , 11, 927-38	154
1131	The F-box protein Skp2 participates in c-Myc proteasomal degradation and acts as a cofactor for c-Myc-regulated transcription. 2003 , 11, 1189-200	401
1130	Context of multiubiquitin chain attachment influences the rate of Sic1 degradation. 2003 , 11, 1435-44	128
1129	Structure of a beta-TrCP1-Skp1-beta-catenin complex: destruction motif binding and lysine specificity of the SCF(beta-TrCP1) ubiquitin ligase. 2003 , 11, 1445-56	501
1128	Parkin suppresses dopaminergic neuron-selective neurotoxicity induced by Pael-R in Drosophila. 2003 , 37, 911-24	317
1127	Structural basis of degradation signal recognition by SspB, a specificity-enhancing factor for the ClpXP proteolytic machine. 2003 , 12, 75-86	46
1126	BTB/POZ domain proteins are putative substrate adaptors for cullin 3 ubiquitin ligases. 2003 , 12, 783-90	260
1125	Endocytosis of the AT1A angiotensin receptor is independent of ubiquitylation of its cytoplasmic serine/threonine-rich region. 2003 , 35, 992-1002	6

1124	Sepsis upregulates the gene expression of multiple ubiquitin ligases in skeletal muscle. 2003 , 35, 698-705	181
1123	Role of the Apg12 conjugation system in mammalian autophagy. 2003 , 35, 553-61	96
1122	Role of proteasomes in the degradation of short-lived proteins in human fibroblasts under various growth conditions. 2003 , 35, 651-64	62
1121	Substrate access and processing by the 20S proteasome core particle. 2003 , 35, 606-16	146
1120	UBA domain containing proteins in fission yeast. 2003 , 35, 629-36	27
1119	Regulation of proteolysis during reloading of the unweighted soleus muscle. 2003 , 35, 665-75	56
1118	Purification of N-terminally truncated histone H2A-monoubiquitin conjugates from leukemic cell nuclei: probable proteolytic products of ubiquitinated H2A. 2003 , 35, 1588-600	12
1117	The ubiquitin/26S proteasome pathway, the complex last chapter in the life of many plant proteins. 2003 , 8, 135-42	426
1116	The COP9 signalosome promotes degradation of Cyclin E during early Drosophila oogenesis. 2003 , 4, 699-710	101
1115	A hedgehog-responsive region in the Drosophila wing disc is defined by debra-mediated ubiquitination and lysosomal degradation of Ci. 2003 , 4, 917-28	40
1114	Role of ubiquitin-mediated proteolysis in the pathogenesis of neurodegenerative disorders. 2003 , 2, 343-56	89
1113	Immunoproteasomes and immunosenescence. 2003 , 2, 419-32	67
1112	Monitoring the ubiquitin/proteasome system in conformational diseases. 2003 , 2, 433-49	38
1111	An ubiquitin ligase recognizing a protein oxidized by iron: implications for the turnover of oxidatively damaged proteins. 2003 , 134, 175-82	22
1110	The COP9 signalosome. 2003 , 19, 261-86	390
1109	Transforming growth factor β 2003 , 1119-1152	5
1108	Endocrine mechanisms of disease: Expression and degradation of androgen receptor: mechanism and clinical implication. 2003 , 88, 4043-54	125
1107	Proteasome inhibitors as therapeutic agents. 2003 , 13, 45-57	10

1106	Synthesis of a TMC-95A ketomethylene analogue by cyclization via intramolecular Suzuki coupling. 2003 , 5, 3435-7	50
1105	Cell Cycle Checkpoint Control Protocols. 2003 ,	
1104	Activation of the programmed cell death pathway by inhibition of proteasome function in plants. 2003 , 278, 19406-15	161
1103	Quantifying recruitment of cytosolic peptides for HLA class I presentation: impact of TAP transport. 2003 , 170, 2977-84	46
1102	Dynamic interplay between O-glycosylation and O-phosphorylation of nucleocytoplasmic proteins: a new paradigm for metabolic control of signal transduction and transcription. 2003 , 73, 107-36	96
1101	Overproduction of polypeptides corresponding to the amino terminus of the F-box proteins Cdc4p and Met30p inhibits ubiquitin ligase activities of their SCF complexes. 2003 , 2, 123-33	19
1100	Rpn6p, a proteasome subunit from <i>Saccharomyces cerevisiae</i> , is essential for the assembly and activity of the 26 S proteasome. 2003 , 278, 6687-95	38
1099	Protein-protein interactions within an E2-RING finger complex. Implications for ubiquitin-dependent DNA damage repair. 2003 , 278, 7051-8	61
1098	Impaired degradation of inhibitory subunit of NF-kappa B (I kappa B) and beta-catenin as a result of targeted disruption of the beta-TrCP1 gene. 2003 , 100, 8752-7	95
1097	Aggregated and monomeric alpha-synuclein bind to the S6' proteasomal protein and inhibit proteasomal function. 2003 , 278, 11753-9	316
1096	Degradation of p57Kip2 mediated by SCFSkp2-dependent ubiquitylation. 2003 , 100, 10231-6	242
1095	Structure and ubiquitin binding of the ubiquitin-interacting motif. 2003 , 278, 28976-84	152
1094	The Grb10/Nedd4 complex regulates ligand-induced ubiquitination and stability of the insulin-like growth factor I receptor. 2003 , 23, 3363-72	209
1093	Cooperative inhibition of bone morphogenetic protein signaling by Smurf1 and inhibitory Smads. 2003 , 14, 2809-17	259
1092	Proteolytic targeting of transcriptional regulator TIP120B by a HECT domain E3 ligase. 2003 , 278, 23369-75	24
1091	Proteasomes modulate conjugation to the ubiquitin-like protein, ISG15. 2003 , 278, 1594-602	58
1090	Determinants of nuclear and cytoplasmic ubiquitin-mediated degradation of MyoD. 2003 , 278, 1817-23	44
1089	The COOH-terminal domain of wild-type Cot regulates its stability and kinase specific activity. 2003 , 23, 7377-90	37

1088	p97, a protein coping with multiple identities. 2003 , 116, 4283-90	139
1087	A novel role for N-glycans in the ERAD system. 2003 , 134, 183-90	44
1086	Global role for ClpP-containing proteases in stationary-phase adaptation of Escherichia coli. 2003 , 185, 115-25	98
1085	Rad23 ubiquitin-associated domains (UBA) inhibit 26 S proteasome-catalyzed proteolysis by sequestering lysine 48-linked polyubiquitin chains. 2003 , 278, 8951-9	189
1084	Changes in developmental state: demolish the old to construct the new. 2003 , 17, 2201-4	2
1083	Overexpression of the tumor autocrine motility factor receptor Gp78, a ubiquitin protein ligase, results in increased ubiquitinylation and decreased secretion of apolipoprotein B100 in HepG2 cells. 2003 , 278, 23984-8	90
1082	A negatively charged amino acid in Skp2 is required for Skp2-Cks1 interaction and ubiquitination of p27Kip1. 2003 , 278, 32390-6	23
1081	The pleiotropic role of the 26S proteasome subunit RPN10 in Arabidopsis growth and development supports a substrate-specific function in abscisic acid signaling. 2003 , 15, 965-80	215
1080	TRF1 is degraded by ubiquitin-mediated proteolysis after release from telomeres. 2003 , 17, 1328-33	167
1079	Targeted disruption of p185/Cul7 gene results in abnormal vascular morphogenesis. 2003 , 100, 9855-60	122
1078	Rapid turnover of extracellular signal-regulated kinase 3 by the ubiquitin-proteasome pathway defines a novel paradigm of mitogen-activated protein kinase regulation during cellular differentiation. 2003 , 23, 4542-58	105
1077	Cdc34 self-association is facilitated by ubiquitin thiolester formation and is required for its catalytic activity. 2003 , 23, 5388-400	44
1076	Degradation of transcription repressor ZBRK1 through the ubiquitin-proteasome pathway relieves repression of Gadd45a upon DNA damage. 2003 , 23, 7305-14	43
1075	Regulation of protein tyrosine kinase signaling by substrate degradation during brain development. 2003 , 23, 9293-302	136
1074	Members of the Arabidopsis-SKP1-like gene family exhibit a variety of expression patterns and may play diverse roles in Arabidopsis. 2003 , 133, 203-17	95
1073	Regulation of cell polarity and protrusion formation by targeting RhoA for degradation. 2003 , 302, 1775-9	452
1072	Cryptococcus neoformans gene expression during experimental cryptococcal meningitis. 2003 , 2, 1336-49	105
1071	Replication-initiator protein (UL9) of the herpes simplex virus 1 binds NFB42 and is degraded via the ubiquitin-proteasome pathway. 2003 , 100, 9803-7	22

1070	Nitric oxide inhibits H ₂ O ₂ -induced transferrin receptor-dependent apoptosis in endothelial cells: Role of ubiquitin-proteasome pathway. 2003 , 100, 10653-8	87
1069	The cellular protein level of parkin is regulated by its ubiquitin-like domain. 2003 , 278, 16054-8	29
1068	PepN, the major Suc-LLVY-AMC-hydrolyzing enzyme in Escherichia coli, displays functional similarity with downstream processing enzymes in Archaea and eukarya. Implications in cytosolic protein degradation. 2003 , 278, 5548-56	31
1067	TIP120A associates with cullins and modulates ubiquitin ligase activity. 2003 , 278, 15905-10	59
1066	Conditional knockdown of proteasomes results in cell-cycle arrest and enhanced expression of molecular chaperones Hsp70 and Hsp40 in chicken DT40 cells. 2003 , 278, 16237-43	6
1065	Cyclophilin A interacts with HIV-1 Vpr and is required for its functional expression. 2003 , 278, 43202-13	69
1064	Pleiotropic effects of Ubp6 loss on drug sensitivities and yeast prion are due to depletion of the free ubiquitin pool. 2003 , 278, 52102-15	93
1063	Ubiquitination of prohibitin in mammalian sperm mitochondria: possible roles in the regulation of mitochondrial inheritance and sperm quality control. 2003 , 69, 254-60	135
1062	Regulation of apoptosis: the ubiquitous way. 2003 , 17, 790-9	201
1061	Fbs2 is a new member of the E3 ubiquitin ligase family that recognizes sugar chains. 2003 , 278, 43877-84	131
1060	Ubiquitin pathway proteins influence the mechanism of action of the novel immunosuppressive drug FTY720 in Saccharomyces cerevisiae. 2003 , 278, 26976-82	18
1059	A role for Saccharomyces cerevisiae Cul8 ubiquitin ligase in proper anaphase progression. 2003 , 278, 22828-37	40
1058	PRT1 of Arabidopsis is a ubiquitin protein ligase of the plant N-end rule pathway with specificity for aromatic amino-terminal residues. 2003 , 133, 1360-6	67
1057	Preservation of caspase-3 subunits from degradation contributes to apoptosis evoked by lactacystin: any single lysine or lysine pair of the small subunit is sufficient for ubiquitination. 2003 , 64, 334-45	49
1056	A nuclear protease required for flowering-time regulation in Arabidopsis reduces the abundance of SMALL UBIQUITIN-RELATED MODIFIER conjugates. 2003 , 15, 2308-19	177
1055	Scores of RINGS but no PHDs in ubiquitin signaling. 2003 , 2, 123-6	79
1054	Activation of the ERK1/2 signaling pathway promotes phosphorylation and proteasome-dependent degradation of the BH3-only protein, Bim. 2003 , 278, 18811-6	480
1053	Recovery of gap junctional intercellular communication after phorbol ester treatment requires proteasomal degradation of protein kinase C. 2003 , 24, 1239-45	40

1052	Differential ubiquitination of stallion sperm proteins: possible implications for infertility and reproductive seasonality. 2003 , 68, 688-98	37
1051	Selective degradation of excess Ldb1 by Rnf12/RLIM confers proper Ldb1 expression levels and Xlim-1/Ldb1 stoichiometry in Xenopus organizer functions. 2003 , 130, 4161-75	38
1050	Developmental defects observed in hypomorphic anaphase-promoting complex mutants are linked to cell cycle abnormalities. 2003 , 130, 1605-20	53
1049	Adenoviral transgene ubiquitination enhances mouse immunization and class I presentation by human dendritic cells. 2003 , 14, 1319-32	7
1048	Rapid Ca ²⁺ -dependent decrease of protein ubiquitination at synapses. 2003 , 100, 14908-13	110
1047	Proteomics in drug discovery. 2003 , 65, 309-42	5
1046	A novel polyubiquitin structure in Cercozoa and Foraminifera: evidence for a new eukaryotic supergroup. 2003 , 20, 62-6	74
1045	Targeting E3 Ubiquitin Ligases for Cancer Therapy. 2003 , 2, 621-627	68
1044	The RING-H2 protein RNF11 is overexpressed in breast cancer and is a target of Smurf2 E3 ligase. 2003 , 89, 1538-44	78
1043	Protein Misfolding and Disease. 2003 ,	
1042	Molecular genetics of activity-dependent structural changes at the synapse. 2003 , 17, 271-93	1
1041	Reaper is regulated by IAP-mediated ubiquitination. 2003 , 278, 4028-34	52
1040	Epstein-Barr virus activates beta-catenin in type III latently infected B lymphocyte lines: association with deubiquitinating enzymes. 2003 , 100, 15572-6	47
1039	Mammalian numb proteins promote Notch1 receptor ubiquitination and degradation of the Notch1 intracellular domain. 2003 , 278, 23196-203	340
1038	Osteopontin regulation by inorganic phosphate is ERK1/2-, protein kinase C-, and proteasome-dependent. 2003 , 278, 41921-9	123
1037	The small heat-shock protein alpha B-crystallin promotes FBX4-dependent ubiquitination. 2003 , 278, 4699-704	99
1036	Erythropoietin receptors associate with a ubiquitin ligase, p33RUL, and require its activity for erythropoietin-induced proliferation. 2003 , 278, 26851-61	19
1035	Deubiquitinating enzymes as cellular regulators. 2003 , 134, 9-18	114

1034	Comparative proteomic analysis of proliferating and functionally differentiated mammary epithelial cells. 2003 , 2, 1039-54	46
1033	Protein phosphatase 2A associates with Rb2/p130 and mediates retinoic acid-induced growth suppression of ovarian carcinoma cells. 2003 , 278, 41881-9	33
1032	Ubiquitin ligase activities of Bombyx mori nucleopolyhedrovirus RING finger proteins. 2003 , 77, 923-30	63
1031	Isolation of tobacco ubiquitin-conjugating enzyme cDNA in a yeast two-hybrid system with tobacco ERF3 as bait and its characterization of specific interaction. 2003 , 54, 1175-81	36
1030	Supramolecular complex formation between Rad6 and proteins of the p53 pathway during DNA damage-induced response. 2003 , 23, 2463-75	40
1029	Ataxin-3 interactions with rad23 and valosin-containing protein and its associations with ubiquitin chains and the proteasome are consistent with a role in ubiquitin-mediated proteolysis. 2003 , 23, 6469-83	192
1028	Smurf1 facilitates myogenic differentiation and antagonizes the bone morphogenetic protein-2-induced osteoblast conversion by targeting Smad5 for degradation. 2003 , 278, 39029-36	70
1027	Modulation of gene expression by cancer chemopreventive dithiolethiones through the Keap1-Nrf2 pathway. Identification of novel gene clusters for cell survival. 2003 , 278, 8135-45	555
1026	The COP9 signalosome interacts physically with SCF CO11 and modulates jasmonate responses. 2003 , 15, 1083-94	179
1025	Trafficking patterns of beta-arrestin and G protein-coupled receptors determined by the kinetics of beta-arrestin deubiquitination. 2003 , 278, 14498-506	207
1024	Exploring the functional complexity of cellular proteins by protein knockout. 2003 , 100, 14127-32	44
1023	Heme activates the heme oxygenase-1 gene in renal epithelial cells by stabilizing Nrf2. 2003 , 284, F743-52	131
1022	Zinc-induced PTEN protein degradation through the proteasome pathway in human airway epithelial cells. 2003 , 278, 28258-63	125
1021	Ubiquitin conjugation is not required for the degradation of oxidized proteins by proteasome. 2003 , 278, 311-8	333
1020	Keap1-dependent proteasomal degradation of transcription factor Nrf2 contributes to the negative regulation of antioxidant response element-driven gene expression. 2003 , 278, 21592-600	806
1019	Identification and characterization of DEN1, a deneddylase of the ULP family. 2003 , 278, 28892-900	145
1018	Degradation of transcription factor Nrf2 via the ubiquitin-proteasome pathway and stabilization by cadmium. 2003 , 278, 2396-402	346
1017	TNF-alpha increases ubiquitin-conjugating activity in skeletal muscle by up-regulating UbcH2/E220k. 2003 , 17, 1048-57	200

1016	Interaction of the anaphase-promoting complex/cyclosome and proteasome protein complexes with multiubiquitin chain-binding proteins. 2003 , 278, 16791-6	52
1015	Characterization of the last subunit of the Arabidopsis COP9 signalosome: implications for the overall structure and origin of the complex. 2003 , 15, 719-31	48
1014	dSmurf selectively degrades decapentaplegic-activated MAD, and its overexpression disrupts imaginal disc development. 2003 , 278, 26307-10	39
1013	Caspase-1 and caspase-8 cleave and inactivate cellular parkin. 2003 , 278, 23376-80	60
1012	Transcriptional regulation of the heme oxygenase-1 gene via the stress response element pathway. 2003 , 9, 2499-511	276
1011	Involvement of the proteasome in IL-1beta induced suppression of islets of Langerhans in the rat. 2003 , 108, 37-50	4
1010	Differential Apoptotic Response to the Proteasome Inhibitor Bortezomib (VELCADE TM , PS-341) in Bax-Deficient and p21-Deficient Colon Cancer Cells. 2003 , 2, 692-697	31
1009	Proteasomes as drug targets. 2003 , 4, 657-71	12
1008	Thyrotropin-releasing hormone receptor processing: role of ubiquitination and proteasomal degradation. 2003 , 17, 1777-91	51
1007	ERK1/2 achieves sustained activation by stimulating MAPK phosphatase-1 degradation via the ubiquitin-proteasome pathway. 2003 , 278, 21534-41	107
1006	Cbl-mediated ubiquitinylation and negative regulation of Vav. 2003 , 278, 38495-504	49
1005	The ubiquitin-associated domain of hPLIC-2 interacts with the proteasome. 2003 , 14, 3868-75	88
1004	Neurofilament inclusion body disease: a new proteinopathy?. 2003 , 126, 2291-303	162
1003	Ubiquitin-dependent degradation of the yeast Mat(alpha)2 repressor enables a switch in developmental state. 2003 , 17, 2259-70	39
1002	CHIP: a link between the chaperone and proteasome systems. 2003 , 8, 303-8	354
1001	The proteasome: a novel therapeutic target in haematopoietic malignancy. 2003 , 8, 275-83	5
1000	Alterations of cullin-5 mRNA levels in the rat central nervous system following hemorrhagic shock. 2003 , 25, 211-6	10
999	Differential regulation of proteasome-dependent estrogen receptor alpha and beta turnover in cultured human uterine artery endothelial cells. 2003 , 88, 2281-7	42

998	Various phosphorylation pathways, depending on agonist and antagonist binding to endogenous estrogen receptor alpha (ERalpha), differentially affect ERalpha extractability, proteasome-mediated stability, and transcriptional activity in human breast cancer cells. 2003 , 17, 2013-27	121
997	Parkinson's disease: alpha-synuclein and parkin in protein aggregation and the reversal of unfolded protein stress. 2003 , 232, 57-66	5
996	Specific ubiquitin-conjugating enzymes promote degradation of specific nuclear receptor coactivators. 2003 , 17, 1315-31	56
995	Endoplasmic reticulum-associated degradation of the human type 2 iodothyronine deiodinase (D2) is mediated via an association between mammalian UBC7 and the carboxyl region of D2. 2003 , 17, 2603-12	48
994	Neonatal estrogen down-regulates prostatic androgen receptor through a proteasome-mediated protein degradation pathway. 2003 , 144, 4841-50	68
993	Abnormally high expression of proteasome activator-gamma in thyroid neoplasm. 2003 , 88, 1374-83	58
992	Ubiquitin-specific protease activity of USP9Y, a male infertility gene on the Y chromosome. 2003 , 15, 129-33	25
991	Interaction of the proteasome S5a/Rpn10 multiubiquitin-binding protein and the 8 kDa calcium-binding protein of <i>Schistosoma mansoni</i> . 2003 , 127, 337-47	6
990	Stabilization of proteasomal substrates by viral repeats. 2003 , 38, 535-549	
989	Identification of ubiquitination sites on the X-linked inhibitor of apoptosis protein. 2003 , 373, 965-71	45
988	Transient hypoxia causes Alzheimer-type molecular and biochemical abnormalities in cortical neurons: potential strategies for neuroprotection. 2003 , 5, 209-28	94
987	The PHD/LAP-domain protein M153R of myxomavirus is a ubiquitin ligase that induces the rapid internalization and lysosomal destruction of CD4. 2003 , 77, 1427-40	111
986	Aberrant ubiquitin-mediated proteolysis of cell cycle regulatory proteins and oncogenesis. 2003 , 88, 101-44	46
985	Degradation of human thymidine kinase is dependent on serine-13 phosphorylation: involvement of the SCF-mediated pathway. 2003 , 370, 265-73	11
984	Extracellular ubiquitin inhibits the TNF-alpha response to endotoxin in peripheral blood mononuclear cells and regulates endotoxin hyporesponsiveness in critical illness. 2003 , 101, 1882-90	78
983	Proteasomal targeting of a viral oncogene abrogates oncogenic phenotype and enhances immunogenicity. 2003 , 102, 4535-40	15
982	Sumoylation of Pdx1 is associated with its nuclear localization and insulin gene activation. 2003 , 284, E830-40	70
981	Characterization of the testis in congenitally ubiquitin carboxy-terminal hydrolase-1 (Uch-L1) defective (gad) mice. 2003 , 52, 1-9	38

980	Bortezomib (PS-341): a novel, first-in-class proteasome inhibitor for the treatment of multiple myeloma and other cancers. 2003 , 10, 361-9	237
979	Multidimensional proteomic analysis of proteolytic pathways involved in cell cycle control. 2004 , 241, 235-45	3
978	. 2003 ,	
977	The Proteasome as a Drug Target. 2003 , 83-98	
976	Receptor-regulated Smads in TGF-beta signaling. 2003 , 8, s1280-303	43
975	Screening for suppressors of temperature sensitivity in a yeast mutant defective in vacuolar protein degradation. 2003 , 26, 89-98	0
974	Cyanophytochromes, Bacteriophytochromes, and Plant Phytochromes: Light-Regulated Kinases Related to Bacterial Two-Component Regulators. 2003 , 273-295	4
973	Parkin binds to alpha/beta tubulin and increases their ubiquitination and degradation. 2003 , 23, 3316-24	250
972	The 26S proteasome system in the signaling pathways of TGF-beta superfamily. 2003 , 8, d1109-27	41
971	. 2003 ,	7
970	. 2004 ,	13
969	Large-scale reprogramming of cranial neural crest gene expression by retinoic acid exposure. 2004 , 19, 184-97	31
968	Structure and function of HIV-1 auxiliary regulatory protein Vpr: novel clues to drug design. 2004 , 4, 265-75	3
967	Ubiquitin-protein ligases--novel therapeutic targets?. 2004 , 5, 163-76	17
966	Proteasomes: perspectives from the Archaea. 2004 , 9, 1743-58	25
965	Régulation de la protéolyse : l'action des protéasomes. 2004 , 198, 263-278	4
964	Triplets! Unexpected structural similarity among the three enzymes that catalyze initiation and termination of thyroid hormone effects. 2004 , 48, 16-24	2
963	Cullin-based ubiquitin ligase and its control by NEDD8-conjugating system. 2004 , 5, 177-84	62

962	Caenorhabditis elegans UBC-2 functions with the anaphase-promoting complex but also has other activities. 2004 , 117, 5427-35	7
961	Proteasomal interference prevents zona pellucida penetration and fertilization in mammals. 2004 , 71, 1625-37	102
960	Cell cycle molecules and mechanisms of the budding and fission yeasts. 2005 , 296, 3-29	17
959	Session 7: Ubiquitin & Proteasomes. 2004 , 32, 740-742	
958	Purification of the mitotic checkpoint complex, an inhibitor of the APC/C from HeLa cells. 2004 , 281, 199-212	6
957	Novel predicted peptidases with a potential role in the ubiquitin signaling pathway. 2004 , 3, 1440-50	89
956	Cardiac voltage-gated sodium channel Nav1.5 is regulated by Nedd4-2 mediated ubiquitination. 2004 , 95, 284-91	162
955	The ubiquitin-proteasome pathway and plant development. 2004 , 16, 3181-95	418
954	Isolation and characterization of an IAA-responsive gene from Gossypium barbadense L. 2004 , 15, 71-6	1
953	Regulation of heme oxygenase-1 gene transcription: recent advances and highlights from the International Conference (Uppsala, 2003) on Heme Oxygenase. 2004 , 6, 924-33	82
952	S-nitrosylation of IRP2 regulates its stability via the ubiquitin-proteasome pathway. 2004 , 24, 330-7	74
951	Arabidopsis CAND1, an unmodified CUL1-interacting protein, is involved in multiple developmental pathways controlled by ubiquitin/proteasome-mediated protein Degradation. 2004 , 16, 1870-82	105
950	Ubiquitylation of nascent globin chains in a cell-free system. 2004 , 279, 41767-74	5
949	Jab1/CSN5, a component of the COP9 signalosome, regulates transforming growth factor beta signaling by binding to Smad7 and promoting its degradation. 2004 , 24, 2251-62	104
948	Highly heterogeneous rates of evolution in the SKP1 gene family in plants and animals: functional and evolutionary implications. 2004 , 21, 117-28	56
947	A novel PTB-PDZ domain interaction mediates isoform-specific ubiquitylation of mammalian Numb. 2004 , 279, 20807-15	30
946	The Arabidopsis mutant sleepy1gar2-1 protein promotes plant growth by increasing the affinity of the SCFSLY1 E3 ubiquitin ligase for DELLA protein substrates. 2004 , 16, 1406-18	209
945	The ASK1 and ASK2 genes are essential for Arabidopsis early development. 2004 , 16, 5-20	93

944	Sumoylation of heterogeneous nuclear ribonucleoproteins, zinc finger proteins, and nuclear pore complex proteins: a proteomic analysis. 2004 , 101, 8551-6	150
943	Regulation of the Src family kinase Lck by Hsp90 and ubiquitination. 2004 , 24, 5667-76	46
942	Multivesicular body sorting: ubiquitin ligase Rsp5 is required for the modification and sorting of carboxypeptidase S. 2004 , 15, 468-80	126
941	The F-box protein AhSLF-S2 physically interacts with S-RNases that may be inhibited by the ubiquitin/26S proteasome pathway of protein degradation during compatible pollination in <i>Antirrhinum</i> . 2004 , 16, 582-95	170
940	COX-2-dependent stabilization of survivin in non-small cell lung cancer. 2004 , 18, 206-8	116
939	Regulation of protein catabolism by muscle-specific and cytokine-inducible ubiquitin ligase E3alpha-II during cancer cachexia. 2004 , 64, 8193-8	82
938	Cyclin F disruption compromises placental development and affects normal cell cycle execution. 2004 , 24, 2487-98	71
937	Ubiquitin-Proteasome-mediated degradation of Id1 is modulated by MyoD. 2004 , 279, 32614-9	41
936	The ubiquitin-conjugating DNA repair enzyme HR6A is a maternal factor essential for early embryonic development in mice. 2004 , 24, 5485-95	100
935	Ubiquitin-protein ligases. 2004 , 117, 5191-4	37
934	Effects of inorganic polyphosphate on the proteolytic and DNA-binding activities of Lon in <i>Escherichia coli</i> . 2004 , 279, 34406-10	53
933	F-Box Proteins Take Center Stage. 2004 , 16, 558-561	4
932	Ubiquitin-dependent lysosomal degradation of the HNE-modified proteins in lens epithelial cells. 2004 , 18, 1424-6	93
931	Effect of ubiquitin-proteasome pathway on mouse blastocyst implantation and expression of matrix metalloproteinases-2 and -9. 2004 , 70, 481-7	30
930	Identification and characteristics of a novel E1 like gene nUBE1L in human testis. 2004 , 36, 227-34	9
929	Peroxisome proliferator-activated receptor beta (delta)-dependent regulation of ubiquitin C expression contributes to attenuation of skin carcinogenesis. 2004 , 279, 23719-27	78
928	Regulation of p27 by S-phase kinase-associated protein 2 is associated with aggressiveness in non-small-cell lung cancer. 2004 , 22, 4165-73	61
927	Ubiquitinated or sumoylated retinoic acid receptor alpha determines its characteristic and interacting model with retinoid X receptor alpha in gastric and breast cancer cells. 2004 , 32, 595-613	20

926	Inhibition of proteasome by MG-132 treatment causes extra phragmoplast formation and cortical microtubule disorganization during M/G1 transition in synchronized tobacco cells. 2004 , 45, 1623-32	9
925	Rpn7 Is required for the structural integrity of the 26 S proteasome of <i>Saccharomyces cerevisiae</i> . 2004 , 279, 27168-76	42
924	The HALTED ROOT gene encoding the 26S proteasome subunit RPT2a is essential for the maintenance of <i>Arabidopsis</i> meristems. 2004 , 131, 2101-11	79
923	Stabilization of the E3 ubiquitin ligase Nrdp1 by the deubiquitinating enzyme USP8. 2004 , 24, 7748-57	135
922	Participation of the ubiquitin-conjugating enzyme UBE2E3 in Nedd4-2-dependent regulation of the epithelial Na ⁺ channel. 2004 , 24, 2397-409	34
921	Tumor viruses and cell signaling pathways: deubiquitination versus ubiquitination. 2004 , 24, 5089-93	53
920	Characterization of mammalian Ecm29, a 26 S proteasome-associated protein that localizes to the nucleus and membrane vesicles. 2004 , 279, 54849-61	61
919	Proteasomal degradation of RPN4 via two distinct mechanisms, ubiquitin-dependent and -independent. 2004 , 279, 23851-4	71
918	Associations among beta-TrCP, an E3 ubiquitin ligase receptor, beta-catenin, and NF-kappaB in colorectal cancer. 2004 , 96, 1161-70	134
917	Specific and covalent targeting of conjugating and deconjugating enzymes of ubiquitin-like proteins. 2004 , 24, 84-95	168
916	Distinct effects of the antiestrogen Faslodex on the stability of estrogen receptors-alpha and -beta in the breast cancer cell line MCF-7. 2004 , 32, 987-95	37
915	<i>Autographa californica</i> multiple nucleopolyhedrovirus exon0 (orf141), which encodes a RING finger protein, is required for efficient production of budded virus. 2004 , 78, 9633-44	55
914	Nucleophosmin/B23 is a candidate substrate for the BRCA1-BARD1 ubiquitin ligase. 2004 , 279, 30919-22	117
913	Ubiquitylation of synphilin-1 and alpha-synuclein by SIAH and its presence in cellular inclusions and Lewy bodies imply a role in Parkinson's disease. 2004 , 101, 5500-5	157
912	Nuclear sequestration of cellular chaperone and proteasomal machinery during herpes simplex virus type 1 infection. 2004 , 78, 7175-85	87
911	The F-box protein AhSLF-S2 controls the pollen function of S-RNase-based self-incompatibility. 2004 , 16, 2307-22	166
910	A close correlation in the expression patterns of Af-6 and Usp9x in Sertoli and granulosa cells of mouse testis and ovary. 2004 , 128, 583-94	7
909	Jun turnover is controlled through JNK-dependent phosphorylation of the E3 ligase Itch. 2004 , 306, 271-5	340

908	Cell biology. Chemical genetics hits. 2004 , 306, 67-8	6
907	Androgen receptor coregulators in prostate cancer: mechanisms and clinical implications. 2004 , 10, 2208-19	85
906	Genetically defined mouse models that mimic natural aspects of human prostate cancer development. 2004 , 11, 225-54	109
905	Late domain-dependent inhibition of equine infectious anemia virus budding. 2004 , 78, 724-32	61
904	Downregulation of major histocompatibility complex class I by human ubiquitin ligases related to viral immune evasion proteins. 2004 , 78, 1109-20	231
903	beta-arrestin-1 competitively inhibits insulin-induced ubiquitination and degradation of insulin receptor substrate 1. 2004 , 24, 8929-37	52
902	Kaposi's sarcoma-associated herpesvirus K7 protein targets a ubiquitin-like/ubiquitin-associated domain-containing protein to promote protein degradation. 2004 , 24, 3938-48	52
901	Regulation of flower development in Arabidopsis by SCF complexes. 2004 , 134, 1574-85	59
900	Role of C-terminal extensions of subunits beta2 and beta7 in assembly and activity of eukaryotic proteasomes. 2004 , 279, 14323-30	47
899	Solution conformation of Lys63-linked di-ubiquitin chain provides clues to functional diversity of polyubiquitin signaling. 2004 , 279, 7055-63	271
898	Apolipoprotein E receptors are required for reelin-induced proteasomal degradation of the neuronal adaptor protein Disabled-1. 2004 , 279, 33471-9	79
897	Localization to the proteasome is sufficient for degradation. 2004 , 279, 21415-20	86
896	Sem1p is a novel subunit of the 26 S proteasome from Saccharomyces cerevisiae. 2004 , 279, 28807-16	101
895	Phosphorylation and specific ubiquitin acceptor sites are required for ubiquitination and degradation of the IFNAR1 subunit of type I interferon receptor. 2004 , 279, 46614-20	108
894	Myogenin protein stability is decreased by BMP-2 through a mechanism implicating Id1. 2004 , 279, 45766-72	34
893	Lens epithelium-derived growth factor/p75 prevents proteasomal degradation of HIV-1 integrase. 2004 , 279, 55570-7	133
892	Regulation and function of SUMO modification. 2004 , 279, 53899-902	98
891	Mass spectrometric and mutational analyses reveal Lys-6-linked polyubiquitin chains catalyzed by BRCA1-BARD1 ubiquitin ligase. 2004 , 279, 3916-24	174

890	Bortezomib as a potential treatment for prostate cancer. 2004 , 64, 5036-43	106
889	Mitotic degradation of human thymidine kinase 1 is dependent on the anaphase-promoting complex/cyclosome-CDH1-mediated pathway. 2004 , 24, 514-26	99
888	Differential expression of genes in the endometrium at implantation: upregulation of a novel member of the E2 class of ubiquitin-conjugating enzymes. 2004 , 70, 406-14	14
887	Model for the interaction of gammaherpesvirus 68 RING-CH finger protein mK3 with major histocompatibility complex class I and the peptide-loading complex. 2004 , 78, 8673-86	45
886	N-Terminal ubiquitination of extracellular signal-regulated kinase 3 and p21 directs their degradation by the proteasome. 2004 , 24, 6140-50	105
885	Critical role for lysine 133 in the nuclear ubiquitin-mediated degradation of MyoD. 2004 , 279, 5413-20	22
884	Establishment and some characteristics of epoxomicin (a proteasome inhibitor) resistant variants of the human squamous cell carcinoma cell line, A431. 2004 , 24, 425	
883	Influence of p53 and p21Waf1 expression on G2/M phase arrest of colorectal carcinoma HCT116 cells to proteasome inhibitors. 2004 , 24, 935	2
882	Ubiquilin-1 is a novel HASH-1-complexing protein that regulates levels of neuronal bHLH transcription factors in human neuroblastoma cells. 2004 , 25, 1213	
881	A novel cysteine protease HeLa DUB-1 responsible for cleaving the ubiquitin in human ovarian cancer cells. 2004 , 25, 373	1
880	The Finger Domain of the Human Deubiquitinating Enzyme HAUSP is a Zinc Ribbon. 2004 , 3, 1044-1047	15
879	Attach first, then detach: a role for cyclin B-dependent kinase 1 in coordinating proteolysis with spindle assembly. 2004 , 3, 132-3	64
878	Interwoven ubiquitination oscillators and control of cell cycle transitions. 2004 , 2004, pe31	30
877	Regulation in S Phase by E2F. 2004 , 3, 1089-1092	19
876	Smurf1 inhibits osteoblast differentiation and bone formation in vitro and in vivo. 2004 , 279, 12854-9	166
875	Degradation of polyubiquitinated cyclin B is blocked by the MAPK pathway at the metaphase I arrest in starfish oocytes. 2004 , 279, 18633-40	11
874	Downregulation of matrix metalloproteinases and collagens and suppression of cardiac fibrosis by inhibition of the proteasome. 2004 , 44, 471-7	71
873	Menin missense mutants associated with multiple endocrine neoplasia type 1 are rapidly degraded via the ubiquitin-proteasome pathway. 2004 , 24, 6569-80	84

872	Ubiquitin is conjugated by membrane ubiquitin ligase to three sites, including the N terminus, in transmembrane region of mammalian 3-hydroxy-3-methylglutaryl coenzyme A reductase: implications for sterol-regulated enzyme degradation. 2004 , 279, 38184-93	29
871	Sem1, the yeast ortholog of a human BRCA2-binding protein, is a component of the proteasome regulatory particle that enhances proteasome stability. 2004 , 117, 6447-54	78
870	Specificity of the interaction between ubiquitin-associated domains and ubiquitin. 2004 , 279, 11926-36	86
869	SpeedScreen: The "missing link" between genomics and lead discovery. 2004 , 9, 498-505	49
868	The ISG15 isopeptidase UBP43 is regulated by proteolysis via the SCFSkp2 ubiquitin ligase. 2004 , 279, 46424-30	41
867	Defective cardiovascular development and elevated cyclin E and Notch proteins in mice lacking the Fbw7 F-box protein. 2004 , 101, 3338-45	210
866	Lub1 participates in ubiquitin homeostasis and stress response via maintenance of cellular ubiquitin contents in fission yeast. 2004 , 24, 2324-31	25
865	The Arabidopsis F-box protein SLEEPY1 targets gibberellin signaling repressors for gibberellin-induced degradation. 2004 , 16, 1392-405	451
864	Interaction between glucose-regulated destruction domain of DNA topoisomerase IIalpha and MPN domain of Jab1/CSN5. 2004 , 279, 31296-303	25
863	cAMP-dependent protein kinase regulates ubiquitin-proteasome-mediated degradation and subcellular localization of the nuclear receptor coactivator GRIP1. 2004 , 279, 49120-30	60
862	Regulation of ubiquitin protein ligase activity in c-Cbl by phosphorylation-induced conformational change and constitutive activation by tyrosine to glutamate point mutations. 2004 , 279, 28017-27	107
861	Rpn4 is a physiological substrate of the Ubr2 ubiquitin ligase. 2004 , 279, 55218-23	68
860	Targeted disruption of Drosophila Roc1b reveals functional differences in the Roc subunit of Cullin-dependent E3 ubiquitin ligases. 2004 , 15, 4892-903	25
859	Mouse Fbw7/Sel-10/Cdc4 is required for notch degradation during vascular development. 2004 , 279, 9417-23	206
858	Fbx7 functions in the SCF complex regulating Cdk1-cyclin B-phosphorylated hepatoma up-regulated protein (HURP) proteolysis by a proline-rich region. 2004 , 279, 32592-602	82
857	Functional regulation of FEZ1 by the U-box-type ubiquitin ligase E4B contributes to neuritogenesis. 2004 , 279, 53533-43	43
856	The ubiquitin-conjugating enzyme UBCH7 acts as a coactivator for steroid hormone receptors. 2004 , 24, 8716-26	73
855	Sperm survival versus degradation in the Mammalian epididymis: a hypothesis. 2004 , 71, 1405-11	96

854	SCFhFBH1 can act as helicase and E3 ubiquitin ligase. 2004 , 32, 2287-97	27
853	The fusion oncoprotein PML-RARalpha induces endoplasmic reticulum (ER)-associated degradation of N-CoR and ER stress. 2004 , 279, 11814-24	46
852	Down-regulation of Smad7 expression by ubiquitin-dependent degradation contributes to renal fibrosis in obstructive nephropathy in mice. 2004 , 101, 8687-92	175
851	Stable ubiquitination of human T-cell leukemia virus type 1 tax is required for proteasome binding. 2004 , 78, 11823-32	71
850	Regulation and recognition of SCFGrr1 targets in the glucose and amino acid signaling pathways. 2004 , 24, 8994-9005	74
849	Regulation of p53 by the ubiquitin-conjugating enzymes UbcH5B/C in vivo. 2004 , 279, 42169-81	113
848	cAMP-induced degradation of cyclin D3 through association with GSK-3beta. 2004 , 117, 3769-83	45
847	Chaperones, protein aggregation, and brain protection from hypoxic/ischemic injury. 2004 , 207, 3213-20	163
846	Maximizing antigen targeting to the proteasome for gene-based vaccines. 2004 , 10, 432-46	30
845	Differential gene expression in individual papilla-resistant and powdery mildew-infected barley epidermal cells. 2004 , 17, 729-38	38
844	VHL-box and SOCS-box domains determine binding specificity for Cul2-Rbx1 and Cul5-Rbx2 modules of ubiquitin ligases. 2004 , 18, 3055-65	349
843	GID2, an F-box subunit of the SCF E3 complex, specifically interacts with phosphorylated SLR1 protein and regulates the gibberellin-dependent degradation of SLR1 in rice. 2004 , 37, 626-34	186
842	The IAA1 protein is encoded by AXR5 and is a substrate of SCF(TIR1). 2004 , 40, 772-82	171
841	Interaction of U-box-type ubiquitin-protein ligases (E3s) with molecular chaperones. 2004 , 9, 533-48	73
840	Differential analysis of CD4+ Th memory clones with identical T-cell receptor (TCR)-alphabeta rearrangement (non-transgenic), but distinct lymphokine phenotype, reveals diverse and novel gene expression. 2004 , 113, 194-202	2
839	Focal dysfunction of the proteasome: a pathogenic factor in a mouse model of amyotrophic lateral sclerosis. 2004 , 89, 1325-35	124
838	Actin and ubiquitin protein sequences support a cercozoan/foraminiferan ancestry for the plasmodiophorid plant pathogens. 2004 , 51, 113-8	56
837	AAF-cmk sensitizes tumor cells to trail-mediated apoptosis. 2004 , 28, 53-61	3

836	Differential stability of Arabidopsis D-type cyclins: CYCD3;1 is a highly unstable protein degraded by a proteasome-dependent mechanism. 2004 , 38, 616-25	60
835	Proteolysis-independent regulation of the transcription factor Met4 by a single Lys 48-linked ubiquitin chain. 2004 , 6, 634-41	128
834	Targeted ubiquitination of CDT1 by the DDB1-CUL4A-ROC1 ligase in response to DNA damage. 2004 , 6, 1003-9	291
833	Two isoforms of otubain 1 regulate T cell anergy via GRAIL. 2004 , 5, 45-54	140
832	Calcineurin imposes T cell unresponsiveness through targeted proteolysis of signaling proteins. 2004 , 5, 255-65	451
831	Fluorescent probes for proteolysis: tools for drug discovery. 2004 , 3, 58-69	91
830	Proteasomes and their kin: proteases in the machine age. 2004 , 5, 177-87	606
829	Molecular clearance of ataxin-3 is regulated by a mammalian E4. 2004 , 23, 659-69	126
828	Ubiquitin interactions of NZF zinc fingers. 2004 , 23, 1411-21	198
827	A novel protein-conjugating system for Ufm1, a ubiquitin-fold modifier. 2004 , 23, 1977-86	215
826	Phosphorylation-dependent degradation of c-Myc is mediated by the F-box protein Fbw7. 2004 , 23, 2116-25	576
825	Uncoupling retro-translocation and degradation in the ER-associated degradation of a soluble protein. 2004 , 23, 2206-15	100
824	Collagenase unwinds triple-helical collagen prior to peptide bond hydrolysis. 2004 , 23, 3020-30	538
823	Polyamines regulate their synthesis by inducing expression and blocking degradation of ODC antizyme. 2004 , 23, 4857-67	96
822	Crystal structure of human otubain 2. 2004 , 5, 783-8	62
821	Coordinate regulation of cell growth and differentiation by TGF-beta superfamily and Runx proteins. 2004 , 23, 4232-7	137
820	Ubiquitin and breast cancer. 2004 , 23, 2079-88	98
819	Role of protein ubiquitylation in regulating endocytosis of receptor tyrosine kinases. 2004 , 23, 2057-70	331

818	Ubiquitin-like protein activation. 2004 , 23, 1958-71	63
817	Regulation of the TGFbeta signalling pathway by ubiquitin-mediated degradation. 2004 , 23, 2071-8	224
816	Nedd8 on cullin: building an expressway to protein destruction. 2004 , 23, 1985-97	334
815	Signaling degradation. 2004 , 11, 800-2	5
814	Reading ratios. 2004 , 11, 802	11
813	Grabbing E2 by the tail. 2004 , 11, 908-9	2
812	The RanBP2 SUMO E3 ligase is neither HECT- nor RING-type. 2004 , 11, 984-91	111
811	Regulation of ethylene gas biosynthesis by the Arabidopsis ETO1 protein. 2004 , 428, 945-50	341
810	Microarray analysis of ethanol-treated cortical neurons reveals disruption of genes related to the ubiquitin-proteasome pathway and protein synthesis. 2004 , 28, 1779-88	39
809	Neuropathology and pathogenesis of encephalitis following amyloid-beta immunization in Alzheimer's disease. 2004 , 14, 11-20	447
808	A basis for SUMO protease specificity provided by analysis of human Senp2 and a Senp2-SUMO complex. 2004 , 12, 1519-31	158
807	Effects of exogenous ubiquitin in lethal endotoxemia. 2004 , 135, 536-43	49
806	Effects of arsenite on UROtsa cells: low-level arsenite causes accumulation of ubiquitinated proteins that is enhanced by reduction in cellular glutathione levels. 2004 , 198, 412-8	42
805	Cullin-containing E3 ubiquitin ligases in plant development. 2004 , 7, 677-86	64
804	Parkin counteracts symptoms in a Drosophila model of Parkinson's disease. 2004 , 5, 14	88
803	Profiling of gender-specific gene expression for Trichostrongylus vitrinus (Nematoda: Strongylida) by microarray analysis of expressed sequence tag libraries constructed by suppressive-subtractive hybridisation. 2004 , 34, 633-43	64
802	Cellular differentiation: the violin strikes up another tune. 2004 , 14, R11-3	4
801	Protein Degradation: CUL-3 and BTB [Partners in Proteolysis. 2004 , 14, R59-R61	36

800	Molecular biology: what ubiquitin can do for transcription. 2004 , 14, R622-4	14
799	Drosophila Nedd4 regulates endocytosis of notch and suppresses its ligand-independent activation. 2004 , 14, 2228-36	150
798	Degradation of pro-insulin-receptor proteins by proteasomes. 2004 , 35, 18-23	2
797	The RING-H2-finger protein APC11 as a target of hydrogen peroxide. 2004 , 37, 521-30	26
796	H2B ubiquitylation: the end is in sight. 2004 , 1677, 74-8	92
795	Ubiquitin: structures, functions, mechanisms. 2004 , 1695, 55-72	931
794	The COP9 signalosome (CSN): an evolutionary conserved proteolysis regulator in eukaryotic development. 2004 , 1695, 45-54	112
793	A hitchhiker's guide to the cullin ubiquitin ligases: SCF and its kin. 2004 , 1695, 133-70	365
792	Mechanism and function of deubiquitinating enzymes. 2004 , 1695, 189-207	678
791	The proteasome: a proteolytic nanomachine of cell regulation and waste disposal. 2004 , 1695, 19-31	196
790	Identification of the protein disulfide isomerase family member PDip in experimental Parkinson's disease and Lewy body pathology. 2004 , 1022, 164-72	116
789	Protein growth rate in rainbow trout (<i>Oncorhynchus mykiss</i>) is negatively correlated to liver 20S proteasome activity. 2004 , 137, 75-85	45
788	Focus on multiple myeloma. 2004 , 6, 439-44	129
787	Nrdp1-mediated degradation of the gigantic IAP, BRUCE, is a novel pathway for triggering apoptosis. 2004 , 23, 800-10	107
786	The kinder side of killer proteases: caspase activation contributes to neuroprotection and CNS remodeling. 2004 , 9, 111-21	67
785	Increased local vascular endothelial growth factor expression associated with antitumor activity of proteasome inhibitor. 2004 , 9, 193-204	5
784	Pathological proteins in Parkinson's disease: focus on the proteasome. 2004 , 24, 425-42	44
783	The ubiquitin 26S proteasome proteolytic pathway. 2004 , 55, 555-90	991

782	Identification of differentially regulated genes in bovine blastocysts using an annealing control primer system. 2004 , 69, 43-51	33
781	The functional motifs that are revealed in the gypsy Gag amino acid sequence. 2004 , 398, 291-3	2
780	cDNA cloning and expression analysis of a novel human F-box domain containing gene. 2004 , 31, 51-7	2
779	Proteasomal Activity in Synaptosomes Obtained from the Cerebral Structures of Rats Subjected to Long-Lasting Immobilization Stress. 2004 , 36, 111-115	
778	Bone morphogenetic proteins. 2004 , 22, 233-41	1626
777	A single recessive mutation in the proteolytic machinery of Arabidopsis chloroplasts impairs photoprotection and photosynthesis upon cold stress. 2004 , 218, 396-405	4
776	Molecular cloning and characterization of cDNA encoding a ubiquitin-conjugating enzyme from Clonorchis sinensis. 2004 , 94, 227-32	12
775	Genetic causes of Parkinson's disease: UCHL-1. 2004 , 318, 189-94	43
774	Synucleins and their relationship to Parkinson's disease. 2004 , 318, 163-74	31
773	Ubiquitinated proteins including uH2A on the human and mouse inactive X chromosome: enrichment in gene rich bands. 2004 , 113, 324-35	54
772	Identification of genes preferentially expressed during wood formation in Eucalyptus. 2004 , 55, 263-80	90
771	Genome-wide analysis of S-Locus F-box-like genes in Arabidopsis thaliana. 2004 , 56, 929-45	55
770	Large-scale computational analysis of poplar ESTs reveals the repertoire and unique features of expressed genes in the poplar genome. 2004 , 14, 429-440	11
769	Regulated proteolysis and plant development. 2004 , 23, 353-64	38
768	A field guide to ubiquitylation. 2004 , 61, 1546-61	220
767	Proteins interacting with the 26S proteasome. 2004 , 61, 1589-95	32
766	From lysosome to proteasome: the power of yeast in the dissection of proteinase function in cellular regulation and waste disposal. 2004 , 61, 1601-14	21
765	Targets of programmed destruction: a primer to regulatory proteolysis in yeast. 2004 , 61, 1615-32	13

764	DNA damage and ubiquitinated neuronal inclusions in the substantia nigra and striatum of mice following MDMA (ecstasy). 2004 , 173, 353-63	44
763	SQSTM1 and Paget's disease of bone. 2004 , 75, 347-57	61
762	Issues in high-throughput comparative modelling: a case study using the ubiquitin E2 conjugating enzymes. 2005 , 58, 367-75	5
761	Functional interaction of 13 yeast SCF complexes with a set of yeast E2 enzymes in vitro. 2004 , 54, 455-67	61
760	Direct interaction between Smad3, APC10, CDH1 and HEF1 in proteasomal degradation of HEF1. 2004 , 5, 20	38
759	Smt3/SUMO and Ubc9 are required for efficient APC/C-mediated proteolysis in budding yeast. 2004 , 51, 1375-87	50
758	A fatal affair: the ubiquitylation of proteins. 2004 , 43, 6414-6	3
757	The non-canonical ubiquitin activating enzyme UBA6 suppresses epithelial-mesenchymal transition of mammary epithelial cells. 2017 , 8, 87480-87493	11
756	Regulation of FBXO4-mediated ICAM-1 protein stability in metastatic breast cancer. 2017 , 8, 83100-83113	12
755	The TRPV1 ion channel regulates thymocyte differentiation by modulating autophagy and proteasome activity. 2017 , 8, 90766-90780	14
754	The small heat shock protein B8 (HSPB8) confers resistance to bortezomib by promoting autophagic removal of misfolded proteins in multiple myeloma cells. 2014 , 5, 6252-66	36
753	Proteomic analysis of affinity-purified extracellular proteasomes reveals exclusively 20S complexes. 2017 , 8, 102134-102149	19
752	SAG/RBX2 is a novel substrate of NEDD4-1 E3 ubiquitin ligase and mediates NEDD4-1 induced chemosensitization. 2014 , 5, 6746-55	21
751	Novel proteasome inhibitor delanzomib sensitizes cervical cancer cells to doxorubicin-induced apoptosis via stabilizing tumor suppressor proteins in the p53 pathway. 2017 , 8, 114123-114135	11
750	Polymorphism of regulatory region of APEH gene (c.-521G>C, rs4855883) as a relevant predictive factor for radiotherapy induced oral mucositis and overall survival in head neck cancer patients. 2018 , 9, 29644-29653	1
749	The proteasome deubiquitinase inhibitor bAP15 downregulates TGF- β /Smad signaling and induces apoptosis UCHL5 inhibition in ovarian cancer. 2019 , 10, 5932-5948	11
748	Targeting Bcl-2 stability to sensitize cells harboring oncogenic ras. 2015 , 6, 22328-37	6
747	Overexpression of WWP1 promotes tumorigenesis and predicts unfavorable prognosis in patients with hepatocellular carcinoma. 2015 , 6, 40920-33	19

746	Changes in autophagy, proteasome activity and metabolism to determine a specific signature for acute and chronic senescent mesenchymal stromal cells. 2015 , 6, 39457-68	78
745	FBW7 regulates DNA interstrand cross-link repair by modulating FAAP20 degradation. 2016 , 7, 35724-35740	13
744	Quantitative ubiquitylome analysis and crosstalk with proteome/acetylome analysis identified novel pathways and targets of perifosine treatment in neuroblastoma. 2018 , 7, 1548-1560	6
743	A high throughput screen for TMPRSS2 expression identifies FDA-approved and clinically advanced compounds that can limit SARS-CoV-2 entry. 2020 ,	6
742	UBE2N Regulates Paclitaxel Sensitivity of Ovarian Cancer via Fos/P53 Axis. 2020 , 13, 12751-12761	2
741	When ubiquitin meets NF- κ B: a trove for anti-cancer drug development. 2013 , 19, 3263-75	21
740	An Overview of Chromatin-Regulating Proteins in Cells. 2016 , 17, 401-10	41
739	Evidence Linking Protein Misfolding to Quality Control in Progressive Neurodegenerative Diseases. 2020 , 20, 2025-2043	13
738	Glucocorticoid regulates parkin expression in mouse frontal cortex: implications in schizophrenia. 2014 , 12, 100-7	12
737	Prediction of Protein Ubiquitination Sites in Arabidopsis thaliana. 2019 , 14, 614-620	15
736	Treatment of Lymphoid and Myeloid Malignancies by Immunomodulatory Drugs. 2019 , 19, 51-78	6
735	The Role of Ubiquitination and SUMOylation in Telomere Biology. 2020 , 35, 85-98	1
734	Citrulline and anti-cyclic citrullinated peptide antibodies in rheumatoid arthritis. 2006 , 1, 249-258	1
733	Pirh2 interacts with and ubiquitylates signal recognition particle receptor beta subunit. 2008 , 29, 53-60	7
732	Role of HECT ubiquitin protein ligases in Arabidopsis thaliana. 020-030	1
731	Biochemical aspects of dementias. 2003 , 5, 27-33	4
730	Identification of differentially expressed cDNAs in Acanthamoeba culbertsoni after mouse brain passage. 2006 , 44, 15-20	3
729	Proteasomes in lungs from organ donors and patients with end-stage pulmonary diseases. 2014 , 63, 311-9	21

728	The molecular mechanisms of calpains action on skeletal muscle atrophy. 2016 , 65, 547-560	45
727	Mitochondrial Protein Quality Control Mechanisms. 2020 , 11,	20
726	Mechanisms Regulating the UPS-ALS Crosstalk: The Role of Proteaphagy. 2020 , 25,	10
725	Anaphase-Promoting Complex 7 is a Prognostic Factor in Human Colorectal Cancer. 2017 , 33, 139-145	4
724	Involvement of ubiquitin-conjugating enzyme E2C in proliferation and invasion of prostate carcinoma cells. 2013 , 21, 121-7	16
723	Proteasome inhibition-induces endoplasmic reticulum dysfunction and cell death of human cholangiocarcinoma cells. 2007 , 13, 851-7	29
722	Epidermal growth factor upregulates Skp2/Cks1 and p27(kip1) in human extrahepatic cholangiocarcinoma cells. 2014 , 20, 755-73	6
721	Role of E3 ubiquitin ligases in gastric cancer. 2015 , 21, 786-93	13
720	Ubiquitin-proteasome system and oxidative stress in liver transplantation. 2018 , 24, 3521-3530	8
719	Molecular mechanisms of cancer cachexia-induced muscle atrophy (Review). 2020 , 22, 4967-4980	9
718	The role of deubiquitinating enzymes in gastric cancer. 2020 , 19, 30-44	11
717	Phenotypic Characterization of the Arabidopsis ufm1 (Ubiquitin Fold Modifier) Gene Involved in Seed Development. 2016 , 12, 10-19	1
716	Regulation of modular Cyclin and CDK feedback loops by an E2F transcription oscillator in the mammalian cell cycle. 2011 , 8, 445-61	4
715	Cullin 3/KCTD5 Promotes the Ubiquitination of Rho Guanine Nucleotide Dissociation Inhibitor 1 and Regulates Its Stability. 2020 , 30, 1488-1494	1
714	Future Cancer Therapy with Molecularly Targeted Therapeutics: Challenges and Strategies. 2011 , 19, 371-389	6
713	Ubiquitin homeostasis: from neural stem cell differentiation to neuronal development. 2015 , 10, 1209-10	4
712	Molecular chaperones and hypoxic-ischemic encephalopathy. 2017 , 12, 153-160	18
711	The cellular response to DNA damage: a focus on MDC1 and its interacting proteins. 2010 , 1, 166-78	59

710	Weighing up the possibilities: Controlling translation by ubiquitylation and sumoylation. 2014 , 2, e29211	1
709	Development of Proteasome Inhibitors as Therapeutic Drugs. 2012 , S5, 5	21
708	Defining an Embedded Code for Protein Ubiquitination. 2009 , 2, 316	29
707	Cks1: Structure, Emerging Roles and Implications in Multiple Cancers. 2013 , 4, 1341-1354	23
706	Inhibition of Human 20S Proteasome by Ginsenosides from Panax ginseng. 2009 , 30, 1385-1387	2
705	Inhibition of Human 20S Proteasome by Compounds from Seeds of Psoralea corylifolia. 2009 , 30, 1867-1869	10
704	Unambiguous Determination of Intermolecular Hydrogen Bond of NMR Structure by Molecular Dynamics Refinement Using All-Atom Force Field and Implicit Solvent Model. 2010 , 31, 2717-2720	6
703	Role of E3 ubiquitin ligases in lung cancer. 2013 , 4, 58-69	27
702	The Expression Patterns of Human Parkin in E. coli and Mammalian Cells. 2005 , 15, 916-922	2
701	Functional Implication of the tRNA Genes Encoded in the Chlorella Virus PBCV-1 Genome. 2005 , 21, 334-342	4
700	Nerve growth factor-induced neurite outgrowth is potentiated by stabilization of TrkA receptors. 2011 , 44, 182-6	22
699	Cellular ubiquitin pool dynamics and homeostasis. 2014 , 47, 475-82	64
698	Proteasome inhibitors attenuated cholesterol-induced cardiac hypertrophy in H9c2 cells. 2016 , 49, 270-5	9
697	E3 ubiquitin ligases and deubiquitinases as modulators of TRAIL-mediated extrinsic apoptotic signaling pathway. 2019 , 52, 119-126	8
696	Overexpression of a gene for 26S proteasome subunit RPN10 confers enhanced resistance to canavanine, an analog of arginine, in transgenic rice (Oryza sativa L.). 2004 , 21, 233-236	2
695	Comprehensive Analysis of Protein Modification-Purification of Protein with Post-translational Modifications by Affinity Chromatography-. 2003 , 51, 524-529	1
694	Expression Profiling of WSSV ORF 199 and Shrimp Ubiquitin Conjugating Enzyme in WSSV Infected Penaeus monodon. 2012 , 25, 1184-9	8
693	New Discoveries on the Roles of Other E3 Ubiquitin Ligases in Disease Development.	2

692	siRNA mediated silencing of NIN1/RPN12 binding protein 1 homolog inhibits proliferation and growth of breast cancer cells. 2012 , 13, 1823-7	15
691	Power and promise of ubiquitin carboxyl-terminal hydrolase 37 as a target of cancer therapy. 2013 , 14, 2173-9	19
690	A specific E3 ligase/deubiquitinase pair modulates TBP protein levels during muscle differentiation. 2015 , 4, e08536	23
689	Genetic analysis reveals functions of atypical polyubiquitin chains. 2018 , 7,	7
688	Specific lid-base contacts in the 26s proteasome control the conformational switching required for substrate degradation. 2019 , 8,	12
687	Endoplasmic reticulum stress and the protein degradation system in ophthalmic diseases. 2020 , 8, e8638	4
686	Integrative analysis reveals pathways associated with sex reversal in. 2020 , 8, e8801	3
685	Pathogenesis and Host Immune Response in Leprosy. 2021 , 1313, 155-177	1
684	Synthesis and Evaluation of Ubiquitin-Dioxetane Conjugate as a Chemiluminescent Probe for Monitoring Deubiquitinase Activity. 2021 , 32, 2141-2147	3
683	Structural basis of ubiquitin recognition by a bacterial OTU deubiquitinase LotA. 2021 , JB0037621	1
682	The role of Siah2 in tumorigenesis and cancer therapy. 2022 , 809, 146028	3
681	The Emerging Roles of Tripartite Motif Proteins (TRIMs) in Acute Lung Injury. 2021 , 2021, 1007126	0
680	Multiple Myeloma Cells Depend on the DD12/NRF1-mediated Proteasome Stress Response for Survival. 2021 ,	3
679	Tobacco ubiquitin-specific protease 12 (NbUBP12) positively modulates drought resistance. 2021 , 1974725	0
678	The ARRE RING-Type E3 Ubiquitin Ligase Negatively Regulates Cuticular Wax Biosynthesis in by Controlling ECERIFERUM1 and ECERIFERUM3 Protein Levels. 2021 , 12, 752309	0
677	Ubiquitin-specific proteases as therapeutic targets in paediatric primary bone tumours?. 2021 , 194, 114797	0
676	SUMO conjugating enzyme: a vital player of SUMO pathway in plants. 2021 , 27, 2421-2431	0
675	RNF43 inhibits WNT5A-driven signaling and suppresses melanoma invasion and resistance to the targeted therapy. 2021 , 10,	1

- 674 Biochemistry, Pathophysiology, and Regulation of Linear Ubiquitination: Intricate Regulation by Coordinated Functions of the Associated Ligase and Deubiquitinase. **2021**, 10, 2
- 673 Structural and functional consequences of NEDD8 phosphorylation. **2021**, 12, 5939 2
- 672 Heterogeneous Overexpression of Two *Oryza sativa* Arsenic-Induced RING E3 Ligase4 (OsAIR4.1 and 4.2) Transcripts Enhances Plant Tolerance to Arsenic Stress. 1 1
- 671 An Integrated View of Deubiquitinating Enzymes Involved in Type I Interferon Signaling, Host Defense and Antiviral Activities. **2021**, 12, 742542 0
- 670 The fellowship of the RING: BRCA1, its partner BARD1 and their liaison in DNA repair and cancer. **2021**, 108009 1
- 669 Irisin injection mimics exercise effects on the brain proteome. **2021**, 54, 7422-7441 2
- 668 Protein clearance strategies for disease intervention. **2021**, 1 1
- 667 Urm1, not quite a ubiquitin-like modifier?. **2021**, 8, 256-261 0
- 666 Proteasome and Apoptosis. **2000**, 341-358
- 665 Proteasomes and MHC class I-peptide generation. **2000**, 203-212
- 664 The Mode of Absorption, Distribution, and Elimination of Toxic Materials. 1
- 663 VHL (von Hippel-Lindau) Protein.
- 662 Control of Notch Activity by the Ubiquitin-Proteasome Pathway. **2002**, 41-58 1
- 661 Proteasomes.
- 660 Recent advances in familial parkinson's disease. **2002**, 48, 165-172
- 659 Ubiquitin-Proteasome Pathway is a Key to Understanding of Nigral Degeneration in Autosomal Recessive Juvenile Parkinson Disease. **2002**, 291-296
- 658 Proteasomes: Molecular Machines for Protein Degradation. **2002**,
- 657 The Role of Ubiquitin In NF- κ B-Signaling. **2003**, 137-158

656 Proteasome/Ubiquitination. **2003**, 129-133

655 Protein Metabolism in Health and Diabetes.

654 Ubiquitin system-dependent regulation of growth hormone receptor signal transduction. **2004**, 286, 81-118 18

653 Function(s) of the Ubiquitin-Proteasome System in Retrovirus Budding. **2004**, 217-230

652 Proteasomes, Overview. **2004**, 464-468

651 26S Proteasome, Structure and Function. **2004**, 469-473

650 P53 Stabilization and the Role of Radiation-Induced Signalling. **2004**, 93-99

649 Rationale for Combining the Proteasome Inhibitor Bortezomib with Cisplatin. **2004**, 193-205 1

648 Ubiquitin.

647 Quality Control of Germ Cell Proteins. **2005**, 749-776 1

646 Regulation of S-Adenosylmethionine Decarboxylase. **2006**, 449-464 0

645 Degradation of Cyclin-Dependent Kinase Inhibitor p27Kip1 in Oral Cancer. **2006**, 11, 19-26

644 Ubiquitin-mediated protein degradation in Xenopus egg extracts. **2006**, 322, 223-34 1

643 Distinct gene expression profiles in the femora of rats exposed to spaceflight, tail-suspension and denervation. **2006**, 20, 80-91

642 Ubiquitination and Proteasomal Protein Degradation in Neurons. **2007**, 653-662

641 From Creator to Terminator: Co-Chaperones That Link Molecular Chaperones to the Ubiquitin/Proteasome System. **2007**, 109-121

640 Molecular Control of S-RNase-based Self-Incompatibility. **2007**, 63-73

639 Protein Complexes in SUMO Signaling. **2007**, 75-87

638 Nomenclature on proteases, proteinases, and peptidases. **2007**, 2007, pdb.ip13

637 Other Novel Targeted Therapies in Lung Cancer. **2007**, 123-148

636 Regulation of the p53 Tumor-Suppressor Protein by Ubiquitin and Ubiquitin-Like Molecules. 21-45

635 The COP9 Signalosome: Structural and Biochemical Conservation and Its Roles in the Regulation of Plant Development. 48-75

634 Endoplasmic Reticulum Protein Quality Control and Degradation. 123-143

633 Getting In and Out of Mitosis. **2008**, 11-20

632 Molecular Chaperones and Protection in Animal and Cellular Models of Ischemic Stroke. **2008**, 179-201

631 Ubiquity and Diversity of the Proteasome System. 129-156

630 Proteasome Inhibition: Potential for Sensitization of Immune Effector Mechanisms in Cancer. **2008**, 51-60

629 Transforming Growth Factor- β in Cancer Therapy: Smurfs in TGF- β Signaling and Regulation of Bone Homeostasis and Cancer. **2008**, 155-167 1

628 TGF- β and Progression of Esophageal Cancer. **2008**, 133-140

627 Ubiquitin-conjugating Enzymes. 102

626 Protein Folding in the Endoplasmic Reticulum. 563

625 Ubiquitin/Proteasome and Autophagy/Lysosome Pathways: Comparison and Role in Neurodegeneration. **2009**, 513-524 2

624 Targeting HAUSP: Killing Two Birds with One Stone. **2009**, 31-43

623 All change: protein conformation and the ubiquitination reaction cascade. **2009**, 1, 19 1

622 Utilizing Red Algae to Understand a Neurodegenerative Disease. **2010**, 149-169

621 Characterization of Bovine Brucellosis in Korean Native Cattle by Means of Immunohistochemistry and Proteomics. **2010**, 20, 153-160

620 MHC Class I Antigen Processing System.

619 Synaptic Dysfunction in Huntington's Disease. **2011**, 233-255

618 Molecular Chaperones as Facilitators of Protein Degradation. **2011**, 35-48

617 Global Analysis of Ubiquitination. **2011**, 197-209

616 Recycling and Physiological Roles of Intracellular Proteins. **2011**, 64, 221-228

615 Autophagy. **2011**, 81-102

614 RT-PCR detection of the expression of COP1 and SIN3A ubiquitin ligase genes in different organs of *Zea mays* L.. **2011**, 39, 1-11

613 Role of the UPS in Liddle Syndrome. **2011**, 57-71

612 The Role of Epigenetic Modifications in Cancer. 113-144

611 Depression and Cytokine-Regulated Pathways. **2011**, 326-349

610 Glycoconjugates. **2011**,

609 Dysfunction of the Ubiquitin/Proteasome System and Mitochondria in Neurodegenerative Disease. **2012**, 141-155

608 Role of UbL family modifiers and their binding proteins in cell signaling. **2012**, 832, 163-71

607 Lectins of ERAD Pathway: F-Box Proteins and M-Type Lectins. **2012**, 123-141

1

606 Probing the Genes Expressed in Developing Seed of Oilseed Plants: *Brassica Napus* (L.) as A Case Example. **2012**, 171-186

605 Regulation of the Centrosome Cycle by Protein Degradation. **2012**, 157-172

1

604 The Hsp90-Based Protein Trafficking System and Linkage to Protein Quality Control. **2012**, 125-150

603 Signaling Pathways of Cbl-b and Its Role in Peripheral T Cell Tolerance. **2013**, 195-203

602	Cbl as a Master Regulator of Receptor Tyrosine Kinase Trafficking. 2013 , 219-244	1
601	Regulation of skeletal muscle atrophy. 2013 , 2, 457-461	1
600	Ankyrin Repeat and Suppressor of Cytokine Signaling Box (ASB) Family Members for Cancer Diagnosis, Prognosis, and Treatment. 2013 , 27-37	1
599	Ubiquitin-Dependent Protein Degradation. 2013 ,	
598	Regulation of Endocytic Trafficking and Signalling by Deubiquitylating Enzymes. 2013 , 245-259	
597	Isochronal visualization of transcription and proteasomal proteolysis in cell culture or in the model organism, <i>Caenorhabditis elegans</i> . 2013 , 1042, 257-73	1
596	Administration of grape seed extract alleviates age-associated decline in ubiquitin-proteasome system and cardiomyocyte apoptosis in rats. 2013 , 03, 253-263	0
595	CHAPTER 3:Structure and Function of Hsp70 Molecular Chaperones. 2013 , 65-125	
594	Assay for proteasome-dependent protein degradation and ubiquitinated proteins. 2014 , 1072, 655-63	1
593	Mass Spectrometry Utilizing Isotope-Coded Affinity Tag Reagents. 2013 , 49-58	
592	Role of Sterol Metabolism and Endoplasmic Reticulum-Associated Degradation of Proteins in Cold Adaptation of Yeasts. 2014 , 281-293	
591	IAP Proteins and Their Therapeutic Potential. 2014 , 97-119	
590	Epigenetics: An Innovative Approach for Biotechnology and Food Science. 2014 , 4, 195-199	1
589	Introduction. 2014 , 1-13	
588	Introduction. 2014 , 1-22	
587	Allorecognition and Lysin Systems During Ascidian Fertilization. 2014 , 231-244	1
586	Diabetes. 2014 , 115-146	
585	A Role for Histone Chaperones in Regulating RNA Polymerase II. 2015 , 05, 35-44	

- 584 Linear Polyubiquitination: A Crucial Regulator of NF- κ B Activation. **2015**, 51-59 0
- 583 Identification of the Binding Domains of Nedd4 E3 Ubiquitin Ligase with Its Substrate Protein TMEPAI. **2015**, 47-53
- 582 Polymorphism of gene UBE2E2 and the risk of developing diabetes type 2. **2015**, 18, 46-50
- 581 NMR Explorations of Biomolecular Systems with Rapid Conformational Exchanges. **2016**, 87-103 1
- 580 The Anaphase-Promoting Complex (APC) ubiquitin ligase affects chemosensory behavior in *C. elegans*. **2016**, 4, e2013 1
- 579 Molecular Biology of Mysterin/RNF213. **2017**, 45-57
- 578 Post-Translational Modification Profiling-Functional Proteomics for the Analysis of Immune Regulation. **2017**, 1647, 139-152 1
- 577 The Deubiquitylating Enzyme Ubp12 Regulates Rad23-Dependent Substrate Delivery at the Proteasome.
- 576 Altered expression of a unique set of genes reveals complex etiology of Schizophrenia.
- 575 Ubiquitin Pathway. 1-8
- 574 Future Application of Deubiquitylating Enzymes for Rapid and Efficient Cellular Reprogramming. **2017**, 2,
- 573 Ubiquitin-related genes are differentially expressed in isogenic lines contrasting for pericarp cell size and grain weight in hexaploid wheat.
- 572 Oncogenic addiction to high 26S proteasome levels.
- 571 Optimization of non-denaturing protein extraction conditions for plant PPR proteins. **2017**, 12, e0187753
- 570 *ALotus japonicus*E3 ligase interacts with the Nod factor receptor 5 and positively regulates nodulation.
- 569 Bi-clustering interpretation and prediction of correlation between gene expression and protein abundance.
- 568 Cullin1 represses systematic inflammasome activation by binding and catalyzing NLRP3 ubiquitination.
- 567 The UBR-1 Ubiquitin Ligase Regulates Glutamate Metabolism to Generate Coordinated Motor Pattern in *C. elegans*.

- 566 Parallel genome-wide CRISPR analysis identifies a role for heterotypic ubiquitin chains in ER-associated degradation. 1
- 565 Overexpression of Arabidopsis ubiquitin ligase AtPUB46 enhances tolerance to drought and oxidative stress.
- 564 PI31 is an adaptor protein for proteasome transport in axons and required for synaptic development and function. 0
- 563 UBE2G1 Governs the Destruction of Cereblon Neomorphic Substrates.
- 562 An E2-ubiquitin thioester-driven approach to identify substrates modified with ubiquitin and ubiquitin-like molecules. 1
- 561 FBXO45-MYCBP2 regulates mitotic cell fate by targeting FBXW7 for degradation.
- 560 HSF2 protects against proteotoxicity by maintaining cell-cell adhesion.
- 559 Heat stress reveals high molecular mass proteasomes in Arabidopsis thaliana suspension cells cultures. 1
- 558 PSMC3 is required for spermatogonia niche establishment in mouse spermatogenesis.
- 557 Mechanism of Quality Control of Nascent Membrane Proteins. **2019**, 111-130
- 556 Molecular recognition of M1-linked ubiquitin chains by native and phosphorylated UBAN domains.
- 555 Integration of Multiple Signaling Cues. **2019**, 569-598
- 554 Reconstructing and Analysing The Genome of The Last Eukaryote Common Ancestor to Better Understand the Transition from FECA to LECA. 0
- 553 Catestatin improves insulin sensitivity in diet-induced obese mice: in vivo and in silico validation.
- 552 Genome-wide CRISPR Screens Reveal Genetic Mediators of Cereblon Modulator Toxicity in Primary Effusion Lymphoma.
- 551 Programmed Switch in The Mitochondrial Degradation Pathways During Human Retinal Ganglion Cell Differentiation from Stem Cells is Critical for RGC Survival.
- 550 Loss of F-box Motif Encoding Gene SAF1 and RRM3 Together Leads to Synthetic Growth Defect and Sensitivity to HU, MMS in *S.cerevisiae*.
- 549 The E3 ubiquitin ligase Pib1 regulates effective gluconeogenic shutdown in *S. cerevisiae*.

- 548 The proteasome regulator PI31 is required for protein homeostasis, synapse maintenance and neuronal survival in mice.
- 547 Altered phosphorylation of the proteasome subunit Rpt6 has minimal impact on synaptic plasticity and learning.
- 546 Physiological and pathophysiological homeostasis of astroglial channel proteins by Nedd4-2.
- 545 Flexibility of intrinsically disordered degrons in AUX/IAA proteins reinforces auxin co-receptor assemblies. 1
- 544 Proteomics of broad deubiquitylase inhibition unmasks redundant enzyme function to reveal substrates.
- 543 Mapping the growth effect of previously hidden ubiquitin alleles using an overexpression based mutational scan.
- 542 Cdc48 Cofactor Shp1 Regulates Signal-Induced SCFMet30 Disassembly.
- 541 Ubiquitin Proteasome Machinery: Cells Garbage Disposal. **2020**, 41-47
- 540 Glutamylolation Inhibition of Ubiquitin Modification and Phosphoribosyl-Ubiquitin Ligation Mediated by Effectors. **2020**, 10, e3811
- 539 Aging immune system-related blood cell DNA methylation can predict the onset of early stage colorectal cancer.
- 538 Molecular basis of ubiquitination catalyzed by the bacterial transglutaminase MavC.
- 537 Post-translational modifications and stress adaptation: the paradigm of FKBP51. **2020**, 48, 441-449 2
- 536 Function and regulation of F-box/WD repeat-containing protein 7. **2020**, 20, 1526-1534 1
- 535 SLAP2 adaptor binding disrupts c-CBL autoinhibition to activate ubiquitin ligase function.
- 534 TGN/EE SNARE protein SYP61 is ubiquitinated and required for carbon/nitrogen-nutrient responses in Arabidopsis.
- 533 Ring box protein-1 is associated with a poor prognosis and tumor progression in esophageal cancer. **2020**, 20, 2919-2927 0
- 532 Is Required for Head Regeneration by Regulating Stem Cell Maintenance in Planarians. **2021**, 22, 2
- 531 IB kinase promotes Nrf2 ubiquitination and degradation by phosphorylating cylindromatosis, aggravating oxidative stress injury in obesity-related nephropathy. **2021**, 27, 137 2

- 530 Gene Copy Number Variation Does Not Reflect Structure or Environmental Selection in Two Recently Diverged California Populations of. **2020**, 10, 4591-4597 0
- 529 Puromycin-sensitive aminopeptidase is required for C2C12 myoblast proliferation and differentiation. **2021**, 236, 5293-5305 1
- 528 Ubiquitin-Independent Proteasomal Degradation Mediated by Antizyme.
- 527 Importance of Prokaryotes for the Origin of Eukaryotes and the Global Environment at 2.4-2.0 Ga. **2020**, 129, 899-912 2
- 526 Ubiquitin ligases: Proteolytic signaling, protein turnover, and disease. **2022**, 11-40
- 525 Epithelial Sodium Channels (ENaC). **2020**, 697-803 0
- 524 Chapter 10:E3-mediated Ubiquitin and Ubiquitin-like Protein Ligation: Mechanisms and Chemical Probes. **2020**, 184-211
- 523 Withaferin A suppresses skin tumor promotion by inhibiting proteasome-dependent isocitrate dehydrogenase 1 degradation.. **2019**, 8, 2449-2460 0
- 522 CHAPTER 7:Targeted Protein Degradation Chemical Probes. **2020**, 150-181
- 521 Facile Semisynthesis of Ubiquitylated Peptides with the Ligation Auxiliary 2-Aminoxyethanethiol. **2020**, 2133, 293-312
- 520 Chapter 2:Structural and Biophysical Principles of Degradation Ternary Complexes. **2020**, 14-54 0
- 519 Deletion of Autophagy gene ATG1 and F-box motif encoding gene YDR131C together leads to Synthetic Growth Defects and Flocculation behaviour in *Saccharomyces cerevisiae*.
- 518 Mechanisms of up-regulation of Ubiquitin-Proteasome activity in the absence of NatA dependent N-terminal acetylation.
- 517 Regulation of Mitogen-Activated Protein Kinase Signaling Pathways by the Ubiquitin-Proteasome System and Its Pharmacological Potential. **2021**, 73, 263-296 1
- 516 Kaposi's sarcoma-associated herpesvirus ubiquitin ligases downregulate cell surface expression of l-selectin. **2021**, 102, 1
- 515 Structural Diversity of Ubiquitin E3 Ligase. **2021**, 26, 2
- 514 The intriguing role of USP30 inhibitors as deubiquitinating enzymes from the patent literature since 2013. **2021**, 1
- 513 Modulation of proteasome activity by curcumin and didemethylcurcumin.

512	Ubiquitination of Glycoproteins in the Cytosol. 2008 , 204-206	
511	The Ups in Neurodegenerative Diseases and Aging Huntington's Disease. 2006 , 225-235	
510	Up and Down Regulation of the Stress Response by the Co-Chaperone Ubiquitin Ligase CHIP. 2007 , 313-325	1
509	Targeting Hsp90 in Cancer and Neurodegenerative Disease. 2007 , 341-363	
508	The Cbl Family: Ubiquitin Ligases Regulating Signaling by Tyrosine Kinases. 2001 , 2001, pe40-pe40	3
507	Arrestin and Mdm2, Unsuspected Partners in Signaling from the Cell Surface. 2001 , 2001, pe41-pe41	
506	Legionella pneumophila Pathogenesis: Lessons Learned from Genomics. 2008 , 1-31	1
505	Proteasome Activity and Immunosenescence. 2009 , 729-749	2
504	Proteasomal regulation of beta2 signaling reveals a novel mechanism for cytokine receptor heterotypic desensitization. 2001 , 108, 1797-806	14
503	Role of Sterol Metabolism and Endoplasmic Reticulum-Associated Degradation of Proteins in Cold Adaptation of Yeasts. 2014 , 281-293	0
502	Identification of a WD-repeat protein that binds and activates the deubiquitinase UBP3 from Arabidopsis thaliana. 2020 , 91,	
501	The Abelson tyrosine kinase and the Nedd4-family ubiquitin ligase Suppressor of Deltex converge at the Notch PPxY motif to regulate endosomal trafficking and signaling.	
500	Mycobacterium tuberculosis effector protein attacks host innate immunity by acting as an unusual ubiquitinating enzyme.	
499	The endosomal TbTpr86/TbUsp7/SkpZ (TUS) complex controls surface protein abundance in trypanosomes.	
498	Diverse ubiquitin codes in the regulation of inflammatory signaling. 2020 , 96, 431-439	
497	Decrease in ADAR1 expression by exposure to cigarette smoke enhances susceptibility to oxidative stress. 2020 , 331, 22-32	0
496	Diversity of TITAN functions in Arabidopsis seed development. 2002 , 128, 38-51	39
495	Secondary injury after musculoskeletal trauma: a review and update. 2002 , 37, 209-17	69

494	Regulation of tumor angiogenesis by p53-induced degradation of hypoxia-inducible factor 1alpha. 2000 , 14, 34-44	705
493	The aetiology of idiopathic Parkinson's disease. 2001 , 54, 369-80	12
492	The proteasome activator 11 S REG (PA28) and class I antigen presentation. 2000 , 345 Pt 1, 1-15	73
491	Ligand binding directly stimulates ubiquitination of the inositol 1, 4,5-trisphosphate receptor. 2000 , 348 Pt 3, 551-6	12
490	Expression of K6W-ubiquitin in lens epithelial cells leads to upregulation of a broad spectrum of molecular chaperones. 2008 , 14, 403-12	9
489	Biological targets for isatin and its analogues: Implications for therapy. 2007 , 1, 151-62	68
488	The enzymes in ubiquitin-like post-translational modifications. 2007 , 1, 16-25	3
487	Isopeptidases in anticancer therapy: looking for inhibitors. 2010 , 2, 235-47	6
486	Nitric Oxide does not mediate Atrogin-1/MAFbx upregulation by inflammatory mediators. 2008 , 18, 127-130	1
485	Involvement of ubiquilin-1 transcript variants in protein degradation and accumulation. 2011 , 4, 428-32	5
484	A tale of two sites: How ubiquitination of a G protein-coupled receptor is coupled to its lysosomal trafficking from distinct receptor domains. 2011 , 4, 528-31	7
483	The ubiquitin-proteasomal system is critical for multiple myeloma: implications in drug discovery. 2011 , 1, 46-56	16
482	Regulation of Immunogen Processing: Signal Sequences and Their Application for the New Generation of DNA-Vaccines. 2010 , 2, 53-60	3
481	Autophagy: A protective mechanism in response to stress and inflammation. 2006 , 7, 443-50	28
480	Protein aggregation and degradation mechanisms in neurodegenerative diseases. 2013 , 2, 1-14	120
479	Relationship between the proteasomal system and autophagy. 2013 , 4, 1-26	173
478	Regulation of T cell receptor complex-mediated signaling by ubiquitin and ubiquitin-like modifications. 2014 , 3, 107-23	8
477	Synthesis and screening of peptide libraries with free C-termini. 2014 , 15, 1-23	3

476	Intracellular proteolytic systems in alcohol-induced tissue injury. 2003 , 27, 317-24	5
475	and are required for neuromuscular signaling under normal and oxidative stress conditions in <i>C. elegans</i> . 2018 , 2018,	
474	The multiple roles of deubiquitinases in liver cancer. 2020 , 10, 1647-1657	1
473	Differential Protein Metabolism and Regeneration in Gastrocnemius Muscles in High-fat Diet Fed Mice and Pre-hibernation Daurian Ground Squirrels: A Comparison between Pathological and Healthy Obesity. 2021 , 60, e6	0
472	Proteins. 2022 , 71-107	
471	The RING-domain E3 ubiquitin ligase RNF146 promotes cardiac hypertrophy by suppressing the LKB1/AMPK signaling pathway. 2021 , 410, 112954	1
470	Illustrated etiopathogenesis of Huntington's disease. 2022 , 175-214	
469	The Role of RAD6B and PEDF in Retinal Degeneration. 2021 , 480, 19-31	1
468	Neurodegenerative diseases. 2022 , 1-67	
467	RNF166 plays a dual role for Lys63-linked ubiquitination and sumoylation of its target proteins. 2021 , 1	
466	Advances in Proteasome Enhancement by Small Molecules.. 2021 , 11,	1
465	Functional Significance of the E3 Ubiquitin Ligases in Disease and Therapeutics.	
464	Aging of Leads to Alterations of OXPHOS and the Induction of Non-Mitochondrial Salvage Pathways.. 2021 , 10,	1
463	Insights Into the Biological Role of NEDD4L E3 Ubiquitin Ligase in Human Cancers. 2021 , 11, 774648	2
462	Substrate-Specific Effects of Natural Genetic Variation on Proteasome Activity.	
461	NEDD4L-induced ubiquitination mediating UBE2T degradation inhibits progression of lung adenocarcinoma via PI3K-AKT signaling. 2021 , 21, 631	3
460	The Function of Immunoproteasomes-An Immunologists' Perspective.. 2021 , 10,	2
459	Molecular Strategies to Target Protein Aggregation in Huntington's Disease. 2021 , 8, 769184	3

458	UBE2S promotes cell chemoresistance through PTEN-AKT signaling in hepatocellular carcinoma. 2021 , 7, 357	2
457	Up-regulation of ubiquitin-proteasome activity upon loss of NatA-dependent N-terminal acetylation. 2022 , 5,	0
456	More Than Just Cleaning: Ubiquitin-Mediated Proteolysis in Fungal Pathogenesis. 2021 , 11, 774613	1
455	The HERC proteins and the nervous system. 2021 ,	1
454	Ubiquitin-Specific Peptidase 7: A Novel Deubiquitinase That Regulates Protein Homeostasis and Cancers. 2021 , 11, 784672	0
453	Herpesvirus ubiquitin deconjugases. 2021 ,	0
452	AAMP promotes colorectal cancer metastasis by suppressing SMURF2-mediated ubiquitination and degradation of RhoA.. 2021 , 23, 515-530	1
451	Targeted protein degradation at the host-pathogen interface. 2021 ,	1
450	Melatonin induces apoptotic cell death through Bim stabilization by Sp1-mediated OTUD1 upregulation. 2021 , e12781	1
449	Overcoming drug resistance by targeting protein homeostasis in multiple myeloma.. 2021 , 4, 1028-1046	1
448	Structural basis of K63-ubiquitin chain formation by the Gordon-Holmes syndrome RBR E3 ubiquitin ligase RNF216.. 2021 ,	1
447	Impact of Ubiquitination Signaling Pathway Modifications on Oral Carcinoma.. 2022 , 2, 1-6	0
446	Branched ubiquitin code: from basic biology to targeted protein degradation.. 2022 ,	0
445	A review on the treatment of multiple myeloma with small molecular agents in the past five years.. 2021 , 229, 114053	2
444	Ubiquitination of Alzheimer's-related tau protein affects liquid-liquid phase separation in a site- and cofactor-dependent manner.. 2022 , 201, 173-181	1
443	The Acclimation Mechanisms of <i>Chlamydomonas reinhardtii</i> against Nitrosative Stress: A Role of NADPH Oxidase (RBOL2) in the Regulation of Nitric Oxide-Mediated ER Stress and Glutathione Redox State. 2020 , 4,	
442	Generation and characterization of site-specifically mono-ubiquitylated p53.. 2022 ,	0
441	Post-Translational Modification of Cav1.2 and its Role in Neurodegenerative Diseases.. 2021 , 12, 775087	0

440	Mixed in chains: NEDD8 polymers in the Protein Quality Control system.. 2022,	4
439	Microtubular TRIM36 E3 Ubiquitin Ligase in Embryonic Development and Spermatogenesis.. 2022, 11,	0
438	Structure of UBE2K-Ub/E3/polyUb reveals mechanisms of K48-linked Ub chain extension.. 2022,	1
437	F-box only protein 9 and its role in cancer.. 2022, 49, 1537	1
436	CDK4/6-USP51 axis regulates lung adenocarcinoma metastasis through ZEB1.. 2022,	0
435	The TGN/EE SNARE protein SYP61 and the ubiquitin ligase ATL31 cooperatively regulate plant responses to carbon/nitrogen conditions in Arabidopsis.. 2022,	0
434	Localized Proteasomal Degradation: From the Nucleus to Cell Periphery.. 2022, 12,	1
433	Proteaphagy is specifically regulated and requires factors dispensable for general autophagy.. 2021 , 101494	3
432	The exploitation of host autophagy and ubiquitin machinery by in shaping immune responses and host defense during infection.. 2022, 1-22	0
431	Evolution of Bcl-2 Anthogenes (BAG) as the Regulators of Cell Death in Wild and Cultivated Oryza Species. 1	0
430	Smurf participates in Helicoverpa armigera diapause by regulating the TGF-β signaling pathway.. 2022,	1
429	An empirical energy landscape reveals mechanism of proteasome in polypeptide translocation.. 2022, 11,	1
428	Ferroptosis promotes microtubule-associated protein tau aggregation via GSK-3β activation and proteasome inhibition.. 2022, 59, 1486	1
427	Proteasome granular localization is regulated through mitochondrial respiration and kinase signaling.	
426	Ubiquitin ligases: guardians of mammalian development.. 2022,	2
425	Suppression of FoxO1 mRNA by βadrenoceptor-cAMP signaling through miR-374b-5p and miR-7a-1-3p in C2C12 myotubes.. 2022,	
424	E3 ligase RNF167 and deubiquitinase STAMBPL1 modulate mTOR and cancer progression.. 2022,	1
423	Eicosapentaenoic acid suppresses cisplatin-induced muscle atrophy by attenuating the up-regulated gene expression of ubiquitin.. 2022, 108953	0

422	Ubiquitin-proteasome pathway plays an essential regulatory role during spermatangium formation in <i>Neopyropia yezoensis</i> . 2022 , 62, 102623	0
421	Molecular cloning and functional characterization of UBC13 and MMS2 from <i>Candida albicans</i> .. 2022 , 146163	
420	Cell-based screening of extracts of natural sources to search for inhibitors of the ubiquitin-proteasome system and identification of proteasome inhibitors from the fungus <i>Remotididymella</i> sp.. 2022 , 59, 128566	
419	Assessing the itching intensity using visual analogue scales in atopic dermatitis patients against the background of a therapy with calcineurin inhibitors. 2016 , 92, 46-55	2
418	ATG Ubiquitination Is Required for Circumsporozoite Protein to Subvert Host Innate Immunity Against Rodent Malaria Liver Stage.. 2022 , 13, 815936	1
417	S-Nitrosation of E3 Ubiquitin Ligase Complex Components Regulates Hormonal Signalings in <i>Arabidopsis</i> .. 2021 , 12, 794582	0
416	Genome-wide identification of StU-box gene family and assessment of their expression in developmental stages of <i>Solanum tuberosum</i> .. 2022 , 20, 25	0
415	Site-Specific Protein Ubiquitylation Using an Engineered, Chimeric E1 Activating Enzyme and E2 SUMO Conjugating Enzyme Ubc9.. 2022 , 8, 275-281	0
414	Identification and characterization of 20S proteasome genes and their relevance to heat/drought tolerance in bread wheat. 2022 , 101552	0
413	Structural basis for the E3 ligase activity enhancement of yeast Nse2 by SUMO-interacting motifs. 2021 , 12, 7013	1
412	Site-Specific Proteasome Inhibitors.. 2021 , 12,	4
411	Regulation of Hedgehog Signal Transduction by Ubiquitination and Deubiquitination.. 2021 , 22,	2
410	The role of regulated protein degradation in auxin response. 2002 , 49, 401-9	46
409	[Targeting Cullin-RING E3 ligases for anti-cancer therapy: efforts on drug discovery]. 2020 , 49, 1-19	6
408	Modulation of abscisic acid signaling for stomatal operation under salt stress conditions. 2022 ,	0
407	Sarcopenia in Chronic Kidney Disease: Mechanism and Treatment. 2022 , 12, 1607-1617	
406	Protein Degradation Technology. 2022 , 10, 21-26	
405	Post-translational Modification in Control of SIRT1 Stability during DNA Damage Response.. 2022 , 18, 2655-2669	

404	Amino acid metabolism. 2022 , 401-435	
403	Recent advances in the pharmacological targeting of ubiquitin-regulating enzymes in cancer.. 2022 ,	1
402	Ubiquitin and Legionella: From bench to bedside.. 2022 ,	1
401	Genome-Wide Identification and Gene Expression Analysis of the OTU DUB Family in .. 2022 , 14,	1
400	Activation of Nedd4L Ubiquitin Ligase by FCHO2-generated Membrane Curvature.	
399	Unconventional protein post-translational modifications: the helmsmen in breast cancer.. 2022 , 12, 22	1
398	Purification and Identification of the 20S Proteasome Complex from Zebrafish.. 2022 , 19, 18-23	
397	Exceptionally versatile take II: post-translational modifications of lysine and their impact on bacterial physiology.. 2022 ,	0
396	Roles of E3 Ubiquitin Ligases in Plant Responses to Abiotic Stresses.. 2022 , 23,	2
395	Mechanism and Disease Association With a Ubiquitin Conjugating E2 Enzyme: UBE2L3.. 2022 , 13, 793610	0
394	Studying the ubiquitin code through biotin-based labelling methods.. 2022 ,	0
393	Ubiquitin and SUMO as timers during DNA replication.. 2022 ,	1
392	Role of ubiquitin-protein ligase UBR5 in the disassembly of mitotic checkpoint complexes.. 2022 , 119,	0
391	Post-translational modification: a strategic response to high temperature in plants. 2022 , 3, 49-64	1
390	Probing protein ubiquitination in live cells.	
389	Deubiquitinating enzymes UBP12 and UBP13 stabilize the brassinosteroid receptor BRI1.. 2022 , e53354	1
388	Carbonic Anhydrases in Metazoan Model Organisms: Molecules, Mechanisms, and Physiology.. 2022 , ,	12
387	Short-term exposure to an obesogenic diet causes dynamic dysregulation of proteasome-mediated protein degradation in the hypothalamus of female rats.. 2022 , 1-13	

386	The Dual Role of USP11 in Cancer.. 2022 , 2022, 9963905	0
385	Revisiting Proteasome Inhibitors: Molecular Underpinnings of Their Development, Mechanisms of Resistance and Strategies to Overcome Anti-Cancer Drug Resistance.. 2022 , 27,	1
384	Insights in Post-Translational Modifications: Ubiquitin and SUMO.. 2022 , 23,	6
383	SPT16 ubiquitylation by DCAF14-CRL4 regulates FACT binding to histones.. 2022 , 38, 110541	0
382	Differential ubiquitome analysis of <i>Cordyceps militaris</i> lysine-ubiquitinated proteins affected by blue light. 1	0
381	DNA methylation signatures in human neonatal blood following maternal antenatal corticosteroid treatment.. 2022 , 12, 132	0
380	Atypical Ubiquitination and Parkinson's Disease.. 2022 , 23,	0
379	Structures, functions, and inhibitors of LUBAC and its related diseases.. 2022 ,	0
378	Mechanistic insights into the subversion of the linear ubiquitin chain assembly complex by the E3 ligase IpaH1.4 of .. 2022 , 119, e2116776119	0
377	Regulation of Smoothed Trafficking and Abundance in Hedgehog Signaling.. 2022 , 10, 847844	1
376	Aberrant SKP1 Expression: Diverse Mechanisms Impacting Genome and Chromosome Stability.. 2022 , 10, 859582	0
375	Transcriptome Profiling and Functional Validation of RING-Type E3 Ligases in Halophyte under Salinity Stress.. 2022 , 23,	0
374	ABIN1 is a signal-induced autophagy receptor that attenuates NF- κ B activation by recognizing linear ubiquitin chains.. 2022 ,	1
373	M1-linked ubiquitination facilitates NF- κ B activation and survival during sterile inflammation.. 2022 ,	1
372	Repressors: the gatekeepers of phytohormone signaling cascades.. 2022 , 1	
371	Recycling and Reshaping-E3 Ligases and DUBs in the Initiation of T Cell Receptor-Mediated Signaling and Response.. 2022 , 23,	
370	TBX20 inhibits colorectal cancer tumorigenesis by impairing NHEJ-mediated DNA repair.. 2022 ,	0
369	Development of a High-Throughput Assay to Identify Inhibitors of the Ubiquitin-Conjugating Enzyme UBCH10.. 2022 ,	

368	Open modification searching of SARS-CoV-2 human protein interaction data reveals novel viral modification sites.	0
367	Insights Into the Links Between Proteostasis and Aging From <i>C. elegans</i> . 2022 , 3,	0
366	TRIMs: Generalists Regulating the NLRP3 Inflammasome Signaling Pathway.. 2022 , 41, 262-275	0
365	Structural basis for the SUMO protease activity of the atypical ubiquitin-specific protease USPL1.. 2022 , 13, 1819	0
364	Loss of ubiquitin-specific peptidase 18 destabilizes 14-3-3 protein and represses lung cancer metastasis.. 2022 , 23, 265-280	1
363	Valorization of Onion Waste by Obtaining Extracts Rich in Phenolic Compounds and Feasibility of Its Therapeutic Use on Colon Cancer.. 2022 , 11,	0
362	Deletion of autophagy related, ATG1 and F-box motif encoding YDR131C, together, lead to synthetic growth defects and flocculation behavior in <i>Saccharomyces cerevisiae</i> .. 2022 , e23064	
361	The Plant Anaphase-Promoting Complex/Cyclosome.. 2022 ,	1
360	Targeting of Ubiquitin E3 Ligase RNF5 as a Novel Therapeutic Strategy in Neuroectodermal Tumors.. 2022 , 14,	0
359	Prolonged treatment with the proteasome inhibitor MG-132 induces apoptosis in PC12 rat pheochromocytoma cells.. 2022 , 12, 5808	0
358	Pathological implication of protein post-translational modifications in cancer.. 2022 , 101097	1
357	Design, Synthesis and Biological Evaluation of Coumarin Derivatives as NEDD8 Activating Enzyme Inhibitors in Pancreatic Cancer Cells.. 2021 ,	1
356	A Comprehensive Assessment of Genetic and Epigenetic Alterations Identifies Frequent Variations Impacting Six Prototypic SCF Complex Members.. 2021 , 23,	
355	Ubiquitin-mediated mechanisms of translational control.. 2021 ,	1
354	Cellular Deubiquitylating Enzyme: A Regulatory Factor of Antiviral Innate Immunity.. 2021 , 12, 805223	
353	Exploitation of the Host Ubiquitin System: Means by .. 2021 , 12, 790442	2
352	Siah1 in cancer and nervous system diseases (Review).. 2022 , 47,	2
351	Targeted E-catenin ubiquitination and degradation by multifunctional stapled peptides.. 2021 , e3389	0

350	Ubiquitin-conjugating enzyme V variant 1 enables cellular responses toward fibroblast growth factor signaling in endothelium.. 2022 , 36, e22103	1
349	The Glypican-1/HGF/C-Met and Glypican-1/VEGF/VEGFR2 Ternary Complexes Regulate Hair Follicle Angiogenesis.. 2021 , 9, 781172	1
348	Trophoblast glycoprotein is a new candidate gene for Parkinson's disease. 2021 , 7, 110	1
347	MicroRNA-101 Regulates 6-Hydroxydopamine-Induced Cell Death by Targeting Suppressor/Enhancer Lin-12-Like in SH-SY5Y Cells.. 2021 , 14, 748026	
346	Molecular Responses to High Hydrostatic Pressure in Eukaryotes: Genetic Insights from Studies on .. 2021 , 10,	1
345	Targeting TRIM54/Axin1/ β Catenin Axis Prohibits Proliferation and Metastasis in Hepatocellular Carcinoma.. 2021 , 11, 759842	0
344	Huntingtin Ubiquitination Mechanisms and Novel Possible Therapies to Decrease the Toxic Effects of Mutated Huntingtin.. 2021 , 11,	0
343	Identification, Sequencing and Stability Evaluation of Eight Reference Genes in Saffron (<i>Crocus sativus</i> L.). 2020 , 7, 127-144	
342	The Next Frontier: Translational Development of Ubiquitination, SUMOylation, and NEDDylation in Cancer.. 2022 , 23,	1
341	Heat Shock Proteins and Ferroptosis.. 2022 , 10, 864635	0
340	FBXW7 and the Hallmarks of Cancer: Underlying Mechanisms and Prospective Strategies.. 2022 , 12, 880077	0
339	The CDC48 complex mediates ubiquitin-dependent degradation of intra-chloroplast proteins in plants.. 2022 , 39, 110664	4
338	Potential Biomarkers of Acute Ischemic Stroke Etiology Revealed by Mass Spectrometry-Based Proteomic Characterization of Formalin-Fixed Paraffin-Embedded Blood Clots.. 2022 , 13, 854846	1
337	The role of cellular proteostasis in anti-tumor immunity.. 2022 , 101930	0
336	Semantic clustering analysis of E3-ubiquitin ligases in gastrointestinal tract defines genes ontology clusters with tissue expression patterns.. 2022 , 22, 186	
335	Data_Sheet_1.PDF. 2020 ,	
334	Table1.xlsx. 2018 ,	
333	Table2.xlsx. 2018 ,	

332 Image_1.tiff. 2019,

331 Image_2.tiff. 2019,

330 Image_3.tif. 2019,

329 Image_4.tif. 2019,

328 Image_5.tif. 2019,

327 Table_1.xlsx. 2019,

326 Table_2.xlsx. 2019,

325 Table_3.xlsx. 2019,

324 Image_1.jpg. 2020,

323 Image_2.jpg. 2020,

322 Table_1.DOCX. 2020,

321 Data_Sheet_1.docx. 2019,

320 Image_1.PNG. 2019,

319 Image_2.PNG. 2019,

318 Image_3.PNG. 2019,

317 Image_4.PNG. 2019,

316 Image_5.PNG. 2019,

315 Image_6.PNG. 2019,

314 Image_7.PNG. 2019,

313 Table_1.XLSX. 2019,

312 Table_2.XLSX. 2019,

311 Table_3.XLSX. 2019,

310 Table_4.XLSX. 2019,

309 Data_Sheet_1.PDF. 2018,

308 Data_Sheet_2.PDF. 2018,

307 Table_1.XLSX. 2020,

306 Table_2.XLSX. 2020,

305 Table_3.XLSX. 2020,

304 Table_4.XLSX. 2020,

303 Table_5.XLSX. 2020,

302 Image_1.JPEG. 2019,

301 Image_2.JPEG. 2019,

300 Image_3.JPEG. 2019,

299 Data_Sheet_1.DOCX. 2018,

298 Table_1.XLSX. 2018,

297 Table_2.XLSX. 2018,

296 Table_3.XLSX. 2018,

295 Table_4.XLSX. 2018,

294 Presentation_1.PDF. 2018,

293 Data_Sheet_1.DOCX. 2020,

292 Data_Sheet_1.pdf. 2018,

291 DataSheet_1.xlsx. 2020,

290 Image_1.TIF. 2018,

289 Image_2.TIF. 2018,

288 Image_3.TIF. 2018,

287 Table_1.DOCX. 2018,

286 Table_2.DOCX. 2018,

285 Table_3.DOCX. 2018,

284 Data_Sheet_1.PDF. 2019,

283 Data_Sheet_1.doc. 2018,

282 Image_1.TIF. 2019,

281 Image_2.TIF. 2019,

280 Image_1.jpeg. 2019,

279 Image_2.jpeg. 2019,

278 Image_3.jpeg. 2019,

277 Image_4.jpeg. 2019,

276 Image_5.jpeg. 2019,

275 Table_1.docx. 2019,

274 Table_2.xlsx. 2019,

273 Image_1.JPEG. 2019,

272 Image_3.JPEG. 2019,

271 Image_4.JPEG. 2019,

270 Image_5.JPEG. 2019,

269 Image_6.JPEG. 2019,

268 Image_7.JPEG. 2019,

267 Image_8.JPEG. 2019,

266 Table_1.DOCX. 2019,

265 Table_2.XLSX. 2019,

264 Presentation_1.pptx. 2019,

263 Table_1.XLSX. 2020,

262 Table_2.XLSX. 2020,

261 Image_1.tif. 2019,

260 Table_1.docx. **2019**,

259 Table_2.docx. **2019**,

258 Deubiquitination and Stabilization of PD-L1 by USP21.. **2021**, 13, 12763-12774

257 Molecular characterization and expression analysis of two RING-between-RING (RBR) ubiquitin ligase orthologues from the Asian seabass (*Lates calcarifer*). 1 0

256 Gene Expression Changes Implicate Specific Peripheral Immune Responses to Deep and Lobar Intracerebral Hemorrhages in Humans. **2022**,

255 Covalent Inhibition of the Human 20S Proteasome with Homobelactosin C Inquired by QM/MM Studies. **2022**, 15, 531 0

254 Biology of the Extracellular Proteasome. **2022**, 12, 619 2

253 Role of high ubiquitin-conjugating enzyme E2 expression as a prognostic factor in nasopharyngeal carcinoma.. **2022**, 23, 194

252 Advances in the Structural and Physiological Functions of SHARPIN.. **2022**, 13, 858505 1

251 E3 ligase HUWE1 promotes PDGF D-mediated osteoblastic differentiation of mesenchymal stem cells by effecting polyubiquitination of PDGFR.. **2022**, 101981 1

250 RIP1 post-translational modifications.. **2022**, 479, 929-951 1

249 Copper oxide nanoparticles trigger macrophage cell death with misfolding of Cu/Zn superoxide dismutase 1 (SOD1).. **2022**, 19, 33 0

248 The role of K63-linked polyubiquitin in several types of autophagy.. **2022**, 1 1

247 Rho family GTPase 1 (RND1), a novel regulator of p53, enhances ferroptosis in glioblastoma.. **2022**, 12, 53 1

246 The E3 ubiquitin ligase RNF216/TRIAD3 is a key coordinator of the hypothalamic-pituitary-gonadal axis. **2022**, 104386

245 Emerging Role of Ubiquitin-Specific Protease 19 in Oncogenesis and Cancer Development. **2022**, 10, 0

244 The emerging role of ubiquitin-specific protease 20 in tumorigenesis and cancer therapeutics.. **2022**, 13, 434 0

243 USP10 as a Potential Therapeutic Target in Human Cancers. **2022**, 13, 831 1

242 .. 2022,

- 241 Biophysical and functional study of CRL5, a muscle specific ubiquitin ligase complex.. **2022**, 12, 7820 0
- 240 Ubiquitin-modified proteome analysis of Eriocheir sinensis hemocytes during Spiroplasma eriocheiris infection.. **2022**, 125, 109-119 1
- 239 A ubiquitinome analysis to study the functional roles of the proteasome associated deubiquitinating enzymes USP14 and UCH37.. **2022**, 262, 104592 0
- 238 Protein kinase 9 is not required for completion of the Plasmodium berghei life cycle.. **2022**, 260, 127051
- 237 The HIV Protease Inhibitors Nelfinavir and Saquinavir, but Not a Variety of HIV Reverse Transcriptase Inhibitors, Adversely Affect Human Proteasome Function. **2005**, 10, 215-223 55
- 236 Inflammation and itching in patients suffering from atopic dermatitis and psoriasis. Assessment of the expression of neurotrophins and neuropeptides. **2014**, 90, 77-85 1
- 235 Structural insights into the catalytic mechanism and ubiquitin recognition of USP34.. **2022**, 167634
- 234 Physiological Functions of Intracellular Protein Degradation.. **2022**, 0
- 233 Differential Degradation of TRA2A and PYCR2 Mediated by Ubiquitin E3 Ligase E4B. **2022**, 10,
- 232 Genetic and Epigenetic Mechanisms Deregulate the CRL2pVHL Complex in Hepatocellular Carcinoma. **2022**, 13,
- 231 Protein SUMOylation is a sex-specific regulator of fear memory formation in the amygdala. **2022**, 430, 113928 0
- 230 Probing lysine posttranslational modifications by unnatural amino acids. 2
- 229 Physiological Overview of the Potential Link between the UPS and Ca²⁺ Signaling. **2022**, 11, 997 2
- 228 Fluorescein-labeled ThUBD probe for super-sensitive visualization of polyubiquitination signal in situ cells. **2022**, 123564
- 227 Food and food supplement antioxidants: Targets in human antioxidant system and effects on the production of endogenous antioxidants. **2022**, 837-850
- 226 Expression Analysis of Pre-Harvest Sprouting Tolerant Korean Wheat via Transcriptomic Analysis. **2022**, 54, 104-118 1
- 225 Assembly checkpoint of the proteasome regulatory particle is activated by coordinated actions of proteasomal ATPase chaperones. **2022**, 39, 110918 0

224	Upregulation of anaphase promoting complex (APC) 7 as a prognostic marker for esophageal squamous cell carcinoma: A hospital based study. 2022 , 8, e09722	
223	The roles of ubiquitination-mediated intrinsic apoptotic signalling in cancer therapy. 2022 , 2,	
222	A guide to membrane atg8ylation and autophagy with reflections on immunity. 2022 , 221,	4
221	Progress in biophysics and molecular biology proteostasis impairment and ALS. 2022 ,	0
220	Genetic diversity and connectivity of chemosynthetic cold seep mussels from the U.S. Atlantic margin. 2022 , 22,	0
219	Deletion of Smurf1 attenuates liver steatosis via stabilization of p53.	1
218	SARS-CoV-2 ORF10 impairs cilia by enhancing CUL2ZYG11B activity. 2022 , 221,	3
217	Proteolysis Targeting Chimeric Molecules: Tuning Molecular Strategies for a Clinically Sound Listening. 2022 , 23, 6630	2
216	Probing the cell delivery of synthetic diubiquitin chains.	
215	Endometrial omix marker in patients with endometriosis and pelvic pain: conjugated ubiquitin. 2022 , 28, 25	
214	Reference gene selection for quantitative PCR in liver, skeletal muscle, and jejunum of Bos indicus cattle. 2022 , 51,	0
213	Multifaceted Roles of the E3 Ubiquitin Ligase RING Finger Protein 115 in Immunity and Diseases. 13,	
212	The Role of the APC/C and Its Coactivators Cdh1 and Cdc20 in Cancer Development and Therapy. 13,	2
211	Histone deacetylase inhibitor, panobinostat, exerts anti-proliferative effect with partial normalization from aberrant epigenetic states on granulosa cell tumor cell lines. 2022 , 17, e0271245	
210	Site-Specific Protein Labeling and Generation of Defined Ubiquitin-Protein Conjugates Using an Asparaginyl Endopeptidase.	4
209	Yeast polyubiquitin unit regulates synaptonemal complex formation and recombination during meiosis. 2022 , 60, 705-714	
208	Chromatin Ubiquitination Guides DNA Double Strand Break Signaling and Repair. 10,	0
207	The NEL Family of Bacterial E3 Ubiquitin Ligases. 2022 , 23, 7725	1

206	Posttranslational Chemical Mutagenesis Methods to Insert Posttranslational Modifications into Recombinant Proteins. 2022 , 27, 4389	2
205	Ubiquitination pathway model for the barber-pole worm <i>Haemonchus contortus</i> . 2022 ,	0
204	Optimizing component formula suppresses lung cancer by blocking DTL-mediated PDCD4 ubiquitination to regulate the MAPK/JNK pathway. 2022 , 115546	0
203	Emerging Role of Deubiquitinating Enzymes (DUBs) in Melanoma Pathogenesis. 2022 , 14, 3371	0
202	Direct attenuation of Arabidopsis ERECTA signaling by a pair of U-box E3 ligases.	
201	Comprehensive analysis of the expression and prognosis for RBR E3 ubiquitin ligases in lung adenocarcinoma.	0
200	The E3 Ligase TRIM4 Facilitates SET Ubiquitin-Mediated Degradation to Enhance ER-Action in Breast Cancer. 2201701	0
199	Genome-wide identification m6A modified circRNAs revealed their key roles in skin ulceration syndrome disease development in <i>Apostichopus japonicus</i> . 2022 , 127, 748-757	0
198	Lysosomal functions and dysfunctions: Molecular and cellular mechanisms underlying Gaucher disease and its association with Parkinson disease. 2022 , 187, 114402	3
197	Genome-wide identification and analysis of HECT E3 ubiquitin ligase gene family in <i>Ruditapes philippinarum</i> and their involvement in the response to heat stress and <i>Vibrio anguillarum</i> infection. 2022 , 43, 101012	0
196	Simultaneous inhibition of hsp 90 and the proteasome promotes protein ubiquitination, causes endoplasmic reticulum-derived cytosolic vacuolization, and enhances antitumor activity. 2004 , 3, 551-566	38
195	PSMC1 variant causes a novel neurological syndrome.	
194	The Role of Ubiquitination in Plant Immunity: Fine-Tuning Immune Signaling and Beyond.	0
193	PSMD12-Mediated M1 Ubiquitination of Influenza A Virus at K102 Regulates Viral Replication.	1
192	Putting human Tid-1 in context: an insight into its role in the cell and in different disease states. 2022 , 20,	0
191	A new dawn beyond lysine ubiquitination.	1
190	ELIOT : A platform to navigate the E3 pocketome and aid the design of new PROTACs.	0
189	Deubiquitinases in Cancers: Aspects of Proliferation, Metastasis, and Apoptosis. 2022 , 14, 3547	2

188	Ubiquitin-regulating effector proteins from Legionella. 2022 , 55, 316-322	1
187	Cardiac-specific Trim44 knockout in rat attenuates isoproterenol-induced cardiac remodeling via inhibition of AKT/mTOR pathway. 2023 , 16,	1
186	Current methodologies in protein ubiquitination characterization: from ubiquitinated protein to ubiquitin chain architecture. 2022 , 12,	0
185	Genetic associations with resistance to Meloidogyne enterolobii in guava (Psidium sp.) using cross-genera SNPs and comparative genomics to Eucalyptus highlight evolutionary conservation across the Myrtaceae.	
184	A ubiquitin-related gene signature for predicting prognosis and constructing molecular subtypes in osteosarcoma. 13,	1
183	Proteasome granule formation is regulated through mitochondrial respiration and kinase signaling.	0
182	African Swine Fever Virus pI215L Inhibits Type I Interferon Signaling by Targeting Interferon Regulatory Factor 9 for Autophagic Degradation.	2
181	GIN51 promotes the proliferation and migration of glioma cells through USP15-mediated deubiquitination of TOP2A. 2022 , 104952	0
180	SIAH1-mediated RPS3 ubiquitination contributes to chemosensitivity in epithelial ovarian cancer. 2022 , 14, 6202-6226	0
179	Structural basis for the dual catalytic activity of the Legionella pneumophila ovarian-tumor (OTU) domain deubiquitinase LotA. 2022 , 102414	0
178	Poxviral ANKR/F-box Proteins: Substrate Adapters for Ubiquitylation and More. 2022 , 11, 875	1
177	The deubiquitinating enzymes UBP12 and UBP13 positively regulate recovery after carbon starvation by modulating BES1 stability in Arabidopsis thaliana.	0
176	Neuroinflammation inhibition by small-molecule targeting USP7 noncatalytic domain for neurodegenerative disease therapy. 2022 , 8,	3
175	Progress and Challenges in Targeted Protein Degradation for Neurodegenerative Disease Therapy.	2
174	The Role of E3 Ubiquitin Ligases in Chloroplast Function. 2022 , 23, 9613	0
173	TRIM family proteins: roles in proteostasis and neurodegenerative diseases. 2022 , 12,	1
172	Posttranslational Control of GPCR Signaling. 2022 , 197-215	0
171	Proteins through the eyes of an organic chemist. 2022 , 124, 133022	0

170	Protein Synthesis/Degradation: Protein Degradation [Intracellular Ubiquitin, Ubiquitin-Like Proteins, and Proteasome-Mediated Degradation. 2022,	0
169	Intracellular peptides as drug prototypes. 2022, 255-289	0
168	Cell Division/Death: Cell Cycle [Regulation of the p53 Pathway. 2022,	0
167	Inhibitor of Apoptosis are Critical Signaling Mediators in Inflammation and Cancer. 2022,	0
166	Chemical tools for E3 ubiquitin ligase study. 2022, 107781	0
165	A heterozygous p.S143P mutation in LMNA associates with proteasome dysfunction and enhanced autophagy-mediated degradation of mutant lamins A and C. 10,	1
164	USP17L2-SIRT7 axis regulates DNA damage repair and chemoresistance in breast cancer cells.	0
163	Functional implication of ubiquitinating and deubiquitinating mechanisms in TDP-43 proteinopathies. 10,	0
162	Characterisation of HOIP RBR E3 ligase conformational dynamics using integrative modelling. 2022, 12,	0
161	Mrz1, a Novel Mitochondrial Outer Membrane RING Finger Protein, is Degraded Through the Ubiquitin-Proteasome Pathway in <i>Schizosaccharomyces pombe</i> . 2022, 79,	0
160	Structural Insights into the Phosphorylation-Enhanced Deubiquitinating Activity of UCHL3 and Ubiquitin Chain Cleavage Preference Analysis. 2022, 23, 10789	0
159	Molecular cloning, expression analysis and functional characterization of NEDD4 from Nile tilapia (<i>Oreochromis niloticus</i>). 2022,	0
158	Role of circRNA in E3 Modification under Human Disease. 2022, 12, 1320	0
157	Unveiling the Essential Role of Arkadia Non-RING Elements in the Ubiquitination Process. 2022, 23, 10585	1
156	Identification, Genomic Organization, and Comprehensive Expression Analysis Reveals the Implication of <i>Cicer arietinum</i> SKP1-like Genes in Abiotic Stress.	0
155	The effects of Ecatenin on cardiomyogenesis via Islet-1 and MLIP ubiquitination. 153537022211197	0
154	Proteomic analysis of the spineless cuttlefish <i>Sepiella japonica</i> : Exploratory analyses on the phenomenon of death after spawning. 9,	0
153	The Ubiquitin-Proteasome System (UPS) and Viral Infection in Plants. 2022, 11, 2476	0

- 152 The epigenetic role of proteasome subunit RPT6 during memory formation in female rats. **2022**, 29, 256-264 ○
- 151 MKRN3 role in regulating pubertal onset: the state of art of functional studies. 13, ○
- 150 A Noval Established Cuproptosis-Associated LncRNA Signature for Prognosis Prediction in Primary Hepatic Carcinoma. **2022**, 2022, 1-15 ○
- 149 Electrostatic and steric effects underlie acetylation-induced changes in ubiquitin structure and function. **2022**, 13, ○
- 148 DELTEX E3 ligases ubiquitylate ADP-ribosyl modification on protein substrates. **2022**, 8, 1
- 147 Novel prokaryotic system employing previously unknown nucleic acids-based receptors. **2022**, 21, ○
- 146 Genome-Wide Identification, Characterization, and Expression Profiling of Eukaryotic-Specific UBP Family Genes in *Brassica rapa*. ○
- 145 Probing protein ubiquitination in live cells. ○
- 144 Generation of Resistance to *Nosema bombycis* (Dissociodihaplophasida: Nosematidae) by Degrading NbSWP12 Using the Ubiquitin-Proteasome Pathway in Sf9-III Cells. ○
- 143 Unraveling the Potential Role of NEDD4-like E3 Ligases in Cancer. **2022**, 23, 12380 1
- 142 Production and characterisation of modularly deuterated UBE2D1Ub conjugate by small angle neutron and X-ray scattering. ○
- 141 The Binding of CSL Proteins to Either Co-Activators or Co-Repressors Protects from Proteasomal Degradation Induced by MAPK-Dependent Phosphorylation. **2022**, 23, 12336 ○
- 140 Open modification searching of SARS-CoV-2 human protein interaction data reveals novel viral modification sites. **2022**, 100425 2
- 139 Selective macrocyclic peptide modulators of Lys63-linked ubiquitin chains disrupt DNA damage repair. **2022**, 13, ○
- 138 Deubiquitinating enzymes UBP12 and UBP13 regulate carbon/nitrogen-nutrient stress responses by interacting with the membrane-localized ubiquitin ligase ATL31 in *Arabidopsis*. **2022**, ○
- 137 Minor structural changes, major functional impacts: posttranslational modifications and drug targets. ○
- 136 The CRL4 E3 ligase Mahjong/DCAF1 controls cell competition through the transcription factor Xrp1, independently of polarity genes. ○
- 135 MARCH1 as a novel immune-related prognostic biomarker that shapes an inflamed tumor microenvironment in lung adenocarcinoma. 12, ○

- 134 Novel Class of Proteasome Inhibitors: In Silico and In Vitro Evaluation of Diverse Chloro(trifluoromethyl)aziridines. **2022**, 23, 12363 ○
- 133 The Emerging Roles of E3 Ligases and DUBs in Neurodegenerative Diseases. ○
- 132 Recent Progress of Deubiquitinating Enzymes in Human and Plant Pathogenic Fungi. **2022**, 12, 1424 ○
- 131 Hypoglycemic drug liraglutide alleviates low muscle mass by inhibiting the expression of MuRF1 and MAFbx in diabetic muscle atrophy. Publish Ahead of Print, 1
- 130 The protist ubiquitin ligase effector PbE3-2 targets RD21A to impede plant immunity. ○
- 129 The E3 Ligases in Cervical Cancer and Endometrial Cancer. **2022**, 14, 5354 ○
- 128 TIF1 β inhibits lung adenocarcinoma EMT and metastasis by interacting with the TAF15/TBP complex. **2022**, 41, 111513 ○
- 127 Variation in ubiquitin system genes creates substrate-specific effects on proteasomal protein degradation. 11, ○
- 126 Genetic associations with resistance to *Meloidogyne enterolobii* in guava (*Psidium* sp.) using cross-genera SNPs and comparative genomics to *Eucalyptus* highlight evolutionary conservation across the Myrtaceae. **2022**, 17, e0273959 ○
- 125 The intricate interplay between HIFs, ROS, and the ubiquitin system in the tumor hypoxic microenvironment. **2022**, 108303 ○
- 124 Identification of circular RNA BTBD7_hsa_circ_0000563 as a novel biomarker for coronary artery disease and the functional discovery of BTBD7_hsa_circ_0000563 based on peripheral blood mononuclear cells: a case control study. **2022**, 19, 1
- 123 Dysregulated proteostasis. **2023**, 55-103 ○
- 122 Installation of electrophiles onto the C-terminus of recombinant ubiquitin and ubiquitin-like proteins. ○
- 121 Trafficking of Neuronal Calcium Channels. **2022**, 195-216 ○
- 120 Septins and K63 chains form separate bacterial microdomains during autophagy of entrapped *Shigella*. ○
- 119 Design and Synthesis of Ubiquitin-Based Chemical Tools with Unnatural Amino Acids for Selective Detection of Deubiquitinases. **2023**, 59-78 ○
- 118 High-Throughput Assay for Characterizing Rpn11 Deubiquitinase Activity. **2023**, 79-100 ○
- 117 USP7 Inhibitors in Cancer Immunotherapy: Current Status and Perspective. **2022**, 14, 5539 1

116	The equilibrium of tumor suppression: DUBs as active regulators of PTEN.	0
115	Targeting PTEN Regulation by Post Translational Modifications. 2022 , 14, 5613	1
114	The E3 ligase subunit FBXO45 binds the interferon- β receptor and promotes its degradation during influenza virus infection. 2022 , 102698	0
113	Identification of Deubiquitinase Substrates in Xenopus Egg Extract. 2023 , 219-236	0
112	Rainbow trout USP4 downregulates LPS-induced inflammation by removing the K63-linked ubiquitin chain on TAK1. 2022 , 131, 1019-1026	0
111	The ubiquitination of CKIP-1 mediated by Src aggravates diabetic renal fibrosis (original article). 2022 , 206, 115339	0
110	Structural dynamics of E6AP E3 ligase HECT domain and involvement of flexible hinge loop in ubiquitin chain synthesis mechanism.	0
109	Understanding, Targeting, and Hijacking Autophagy. 2022 , 227-247	0
108	Fyn deficiency inhibits oxidative stress by decreasing c-Cbl-mediated ubiquitination of Sirt1 to attenuate diabetic renal fibrosis. 2023 , 139, 155378	0
107	Functions of the aryl hydrocarbon receptor (AHR) beyond the canonical AHR/ARNT signaling pathway. 2023 , 208, 115371	1
106	OTUD3: A Lys6 and Lys63 specific deubiquitinase in early vertebrate development. 2023 , 1866, 194901	0
105	Identification, Classification and Characterization Analysis of FBXL Gene in Cotton. 2022 , 13, 2194	0
104	In silico analysis of the profilaggrin sequence indicates alterations in the stability, degradation route, and intracellular protein fate in filaggrin null mutation carriers.	0
103	Activities and binding partners of E3 ubiquitin ligase DTX3L and its roles in cancer. 2022 , 50, 1683-1692	0
102	Measuring the DUB Activity of Arabidopsis Deubiquitylating Enzymes. 2023 , 69-79	0
101	Ubiquitin-Conjugating Enzymes Ubc1 and Ubc4 Mediate the Turnover of Hap4, a Master Regulator of Mitochondrial Biogenesis in <i>Saccharomyces cerevisiae</i> . 2022 , 10, 2370	1
100	Plant Lineage-Specific PIKMIN1 Drives APC/CCCS52A2 E3-Ligase Activity-Dependent Cell Division.	0
99	The Four Homeostasis Knights: In Balance upon Post-Translational Modifications. 2022 , 23, 14480	0

- 98 One-Step Sortase-Mediated Chemoenzymatic Semisynthesis of Deubiquitinase-Resistant Ub-Peptide Conjugates. **2022**, 7, 46693-46701 ○
- 97 Inhibition of the Ubiquitin Transfer Cascade by a Peptidomimetic Foldamer Mimicking the E2 N-Terminal Helix. ○
- 96 Pan-cancer analysis of FBXW family with potential implications in prognosis and immune infiltration. 13, ○
- 95 Ubiquitin modulates 26 S proteasome conformational dynamics and promotes substrate degradation. **2022**, 8, ○
- 94 Direct attenuation of Arabidopsis ERECTA signalling by a pair of U-box E3 ligases. ○
- 93 p90RSK Regulates p53 Pathway by MDM2 Phosphorylation in Thyroid Tumors. **2023**, 15, 121 1
- 92 The UBE2C/CDH1/DEPTOR axis is an oncogene-tumor suppressor cascade in lung cancer cells. ○
- 91 Chlorogenic acid modulates the ubiquitin-proteasome system in stroke animal model. **2022**, 38, ○
- 90 Oncogenic deubiquitination controls tyrosine kinase signaling and therapy response in acute lymphoblastic leukemia. **2022**, 8, ○
- 89 The Emerging Role of Deubiquitinases in Cell Death. **2022**, 12, 1825 ○
- 88 CHIP: A Co-chaperone for Degradation by the Proteasome and Lysosome. **2023**, 351-387 ○
- 87 New Avenues to Explore in SARS-CoV-2 Infection: Both TRIM25 and TRIM56 Positively Correlate with VEGF, GAS6, and sAXL in COVID-19 Patients. **2022**, 35, 690-699 1
- 86 Divergent self-association properties of paralogous proteins TRIM2 and TRIM3 regulate their E3 ligase activity. **2022**, 13, ○
- 85 Cellular functions and molecular mechanisms of ubiquitination in osteosarcoma. 12, ○
- 84 TRIM56 promotes malignant progression of glioblastoma by stabilizing cIAP1 protein. **2022**, 41, 1
- 83 E3 ubiquitin ligase Os PIE3 destabilises the B-lectin receptor-like kinase PID2 to control blast disease resistance in rice. ○
- 82 A Plasmodium falciparum ubiquitin-specific protease (PfUSP) is essential for parasite survival and its disruption enhances artemisinin efficacy. ○
- 81 RanBP9 controls the oligomeric state of CTLH complex assemblies. **2023**, 102869 ○

- 80 CD36 promotes tubular ferroptosis by regulating the ubiquitination of FSP1 in acute kidney injury. **2023,** ○
- 79 Analyzing the interactome of human CK2 in prostate carcinoma cells reveals HSP70 -1 and Rho guanin nucleotide exchange factor 12 as novel interaction partners. ○
- 78 Activation Dynamics of Ubiquitin Specific Protease 7. ○
- 77 Control of Mitochondrial Activity by the Ubiquitin Code in Health and Cancer. **2023,** 12, 234 ○
- 76 Bacterial usurpation of the OTU deubiquitinase fold. ○
- 75 Dynamic Metabolic and Transcriptional Responses of Proteasome-Inhibited Neurons. **2023,** 12, 164 ○
- 74 Endo-Lysosomal and Autophagy Pathway and Ubiquitin-Proteasome System in Mood Disorders: A Review Article. Volume 19, 133-151 ○
- 73 Connexin32 promotes the activation of Foxo3a to ameliorate diabetic nephropathy via inhibiting the polyubiquitination and degradation of Sirt1. ○
- 72 Ubiquitination of the β opioid receptor regulates receptor internalization without affecting Gi/o-mediated intracellular signaling or receptor phosphorylation. **2023,** 643, 96-104 ○
- 71 Biosynthesis of long polyubiquitin chains in high yield and purity. **2023,** 664, 115044 ○
- 70 Site-directed double monoubiquitination of the repeat domain of the amyloid-forming protein tau impairs self-assembly and coacervation. **2023,** 132, 106347 ○
- 69 Phosphate budgeting to mitochondria controls glucose-mediated mitochondrial repression. ○
- 68 The Role of Deubiquitinating Enzyme in Head and Neck Squamous Cell Carcinoma. **2023,** 24, 552 ○
- 67 Reduction in PA28 activation in HD mouse brain correlates to increased mHTT aggregation in cell models. **2022,** 17, e0278130 ○
- 66 Exploiting the Endogenous Ubiquitin Proteasome System in Targeted Cancer Treatment. **2023,** 15, 256 ○
- 65 Neddylation-CRLs regulate the functions of Treg immune cells. 2200222 ○
- 64 The E3 ubiquitin ligase NEDD4-1 protects against acetaminophen-induced liver injury by targeting VDAC1 for degradation. **2023,** ○
- 63 Homeostatic control of an iron repressor in a GI tract resident. ○

- 62 Iron-sulfur clusters are involved in post-translational arginylation. **2023**, 14, ○
- 61 Upregulation of the ESCRT pathway and multivesicular bodies accelerates degradation of proteins associated with neurodegeneration. **2023**, 2, ○
- 60 FDA path and process: Sponsor's regulatory tasks for drug approval. **2023**, 561-574 ○
- 59 Identification of N-degrons and N-recognins using peptide pull-downs combined with quantitative mass spectrometry. **2023**, ○
- 58 Histone modification in *Saccharomyces cerevisiae*: A review of the current status. **2023**, 21, 1843-1850 ○
- 57 Targeted protein degradation in cancers: Orthodox PROTACs and beyond. **2023**, 4, 100413 ○
- 56 Targeted protein posttranslational modifications by chemically induced proximity for cancer therapy. **2023**, 299, 104572 ○
- 55 The moonlighting of RAD23 in DNA repair and protein degradation. **2023**, 1866, 194925 ○
- 54 Yuanzhi Powder inhibits tau pathology in SAMP8 mice: Mechanism research of a traditional Chinese formula against Alzheimer's disease. **2023**, 311, 116393 ○
- 53 Chemical Synthesis of Bioactive Proteins. **2023**, 135, ○
- 52 Chemical Synthesis of Bioactive Proteins. **2023**, 62, 2
- 51 Liquid-liquid phase separation of protein tau: An emerging process in Alzheimer's disease pathogenesis. **2023**, 178, 106011 ○
- 50 FTO-dependent m6A modification of Plpp3 in circSCMH1-regulated vascular repair and functional recovery following stroke. **2023**, 14, ○
- 49 Comparative Degradome Analysis of the Bovine Piroplasmid Pathogens *Babesia bovis* and *Theileria annulata*. **2023**, 12, 237 ○
- 48 Suppression of Cancer Cell Stemness and Drug Resistance via MYC Destabilization by Deubiquitinase USP45 Inhibition with a Natural Small Molecule. **2023**, 15, 930 ○
- 47 Ring finger protein 10 improves pirarubicin-induced cardiac inflammation by regulating the AP-1/Meox2 signaling pathway. **2023**, 462, 116411 ○
- 46 Role of Uric Acid in Vascular Remodeling: Cytoskeleton Changes and Migration in VSMCs. **2023**, 24, 2960 ○
- 45 Constitutive expression of AtSINA2 from Arabidopsis improves grain yield, seed oil and drought tolerance in transgenic soybean. **2023**, 196, 444-453 ○

- 44 Ubiquitin-modifying enzymes in Huntington's disease. 10,
- 43 The correlation between the expression of ubiquitin-conjugating enzyme 2C and prostate cancer prognosis.
- 42 Discovery of Highly Potent CRBN Ligands and Insight into Their Binding Mode through Molecular Docking and Molecular Dynamics Simulations. **2023**, 18,
- 41 Self-stabilization mechanism encoded by a bacterial toxin facilitates reproductive parasitism.
- 40 Autophagy/Mitophagy Regulated by Ubiquitination: A Promising Pathway in Cancer Therapeutics. **2023**, 15, 1112
- 39 UBE2S and UBE2C confer a poor prognosis to breast cancer via downregulation of Numb. 13,
- 38 Ubiquitin-conjugating enzymes as potential biomarkers and therapeutic targets for digestive system cancers (Review). **2023**, 49,
- 37 Proteomic Analysis Reveals a Critical Role of the Glycosyl Hydrolase 17 Protein in Panax ginseng Leaves under Salt Stress. **2023**, 24, 3693
- 36 Linear ubiquitination improves NFAT1 protein stability and facilitates NFAT1 signalling in Kawasaki disease.
- 35 Protein degraders enter the clinic – a new approach to cancer therapy. **2023**, 20, 265-278
- 34 Ubiquitination is a novel post-translational modification of VMP1 in autophagy of human tumor cells.
- 33 Legionella longbeachae Regulates the Association of Polyubiquitinated Proteins on Bacterial Phagosome with Multiple Deubiquitinases. **2023**, 11,
- 32 Detection, Visualization and Quantification of Protein Complexes in Human Alzheimer's Disease Brains using Proximity Ligation Assay.
- 31 UBE4B interacts with the ITCH E3 ubiquitin ligase to induce Ku70 and c-FLIPL polyubiquitination and enhanced neuroblastoma apoptosis.
- 30 Mechanistic insights into the UFM1 E3 ligase complex in ufmylation and ribosome-associated protein quality control.
- 29 Development of a robust HTRF assay with USP7 full length protein expressed in E. coli prokaryotic system for the identification of USP7 inhibitors. **2023**, 227, 115305
- 28 Ubiquitin E3 ligase ETrCP negatively regulates surface protein of hepatitis B virus. **2023**, 95,
- 27 Temperature response of plants and heat tolerance in Rice: A review. **2023**, 135-203

- 26 The Devastating Rice Blast Airborne Pathogen *Magnaporthe oryzae*: A Review on Genes Studied with Mutant Analysis. **2023**, 12, 379 ○
- 25 The role of ubiquitin pathway-mediated regulation of immune checkpoints in cancer immunotherapy. ○
- 24 Ubiquitin-specific protease 28: the decipherment of its dual roles in cancer development. **2023**, 12, ○
- 23 A Comprehensive Analysis Revealing FBXW9 as a Potential Prognostic and Immunological Biomarker in Breast Cancer. **2023**, 24, 5262 ○
- 22 Alleviating the unwanted effects of oxidative stress on Alzheimer's disease: a review of related concepts and strategies for the development of computational modelling. **2023**, 12, ○
- 21 Protein Degradation by Gammaherpesvirus RTAs: More Than Just Viral Transactivators. **2023**, 15, 730 ○
- 20 Effects of UBE3A on Cell and Liver Metabolism through the Ubiquitination of PDHA1 and ACAT1. **2023**, 62, 1274-1286 ○
- 19 Septins and K63 ubiquitin chains are present in separate bacterial microdomains during autophagy of entrapped *Shigella*. **2023**, 136, ○
- 18 Aptamer-Based Targeted Protein Degradation. **2023**, 17, 6150-6164 ○
- 17 Soybean GmSAUL1, a Bona Fide U-Box E3 Ligase, Negatively Regulates Immunity Likely through Repressing the Activation of GmMPK3. **2023**, 24, 6240 ○
- 16 Exploiting E3 ubiquitin ligases to reeducate the tumor microenvironment for cancer therapy. **2023**, 12, ○
- 15 NEIL3-mediated proteasomal degradation facilitates the repair of cisplatin-induced DNA damage in human cells. **2023**, 13, ○
- 14 A novel method for visualizing in-vivo rates of protein degradation provides insight into how TRIM28 regulates muscle size. **2023**, 26, 106526 ○
- 13 PROTACing oncoproteins: targeted protein degradation for cancer therapy. **2023**, 22, ○
- 12 Glutathionylation on RNA-binding proteins: a regulator of liquid-liquid phase separation in the pathogenesis of amyotrophic lateral sclerosis. ○
- 11 Epstein-Barr Virus Envelope Glycoprotein gp110 Inhibits IKKi-Mediated Activation of NF- κ B and Promotes the Degradation of β Catenin. ○
- 10 The Ubiquitination Status of the Glucagon Receptor determines Signal Bias. **2023**, 104690 ○
- 9 Karyopherin Subunit Alpha 1 Enhances the Malignant Behaviors of Colon Cancer Cells via Promoting Nuclear Factor- κ B p65 Nuclear Translocation. ○

- 8 Defective Mitochondrial Dynamics and Protein Degradation Pathways Underlie Cadmium-Induced Neurotoxicity and Cell Death in Huntington's Disease Striatal Cells. **2023**, 24, 7178
- 7 Quantifying label enrichment from two mass isotopomers increases proteome coverage for in vivo protein turnover using heavy water metabolic labeling. **2023**, 6,
- 6 Trypanosoma cruzi VDU deubiquitinase mediates surface protein trafficking and infectivity.
- 5 The Involvement of Ubiquitination and SUMOylation in Retroviruses Infection and Latency. **2023**, 15, 985
- 4 Phosphodiesterase-4 Inhibition in Parkinson's Disease: Molecular Insights and Therapeutic Potential.
- 3 TRIM56 coiled-coil domain structure provides insights into its E3 ligase functions. **2023**,
- 2 SUMO and PIAS repress NF- κ B activation in a basal chordate. **2023**, 108754
- 1 PbrATL18, an E3 ubiquitin ligase identified by genome-wide identification, is a positive factor in pear resistance to drought and Colletotrichum fructicola infection. **2023**,