Tatsuya Sawasaki

List of Publications by Year in Descending Order

175 papers	5,010 citations	38 h-index	63 g-index
183 ext. papers	5,752 ext. citations	5.5 avg, IF	5.32 L-index

#	Paper	IF	Citations
175	A proximity biotinylation-based approach to identify protein-E3 ligase interactions induced by PROTACs and molecular glues.. *Nature Communications*, **2022**, 13, 183	17.4	3
174	Protein-protein interactions between jasmonate-related master regulator MYC and transcriptional mediator MED25 depend on a short binding domain.. *Journal of Biological Chemistry*, **2021**, 101504	5.4	0
173	A simple method for labeling proteins and antibodies with biotin using the proximity biotinylation enzyme TurboID.. *Biochemical and Biophysical Research Communications*, **2021**, 592, 54-59	3.4	0
172	Myofiber androgen receptor increases muscle strength mediated by a skeletal muscle splicing variant of Mylk4. *IScience*, **2021**, 24, 102303	6.1	5
171	Cleavage of TANK-Binding Kinase 1 by HIV-1 Protease Triggers Viral Innate Immune Evasion. *Frontiers in Microbiology*, **2021**, 12, 643407	5.7	2
170	Thalidomide and its metabolite 5-hydroxythalidomide induce teratogenicity via the cereblon neosubstrate PLZF. *EMBO Journal*, **2021**, 40, e105375	13	13
169	The rice wound-inducible transcription factor RERJ1 sharing same signal transduction pathway with OsMYC2 is necessary for defense response to herbivory and bacterial blight. *Plant Molecular Biology*, **2021**, 1	4.6	3
168	Cell-Free Based Protein Array Technology. *Springer Proceedings in Mathematics and Statistics*, **2021**, 255-265		
167	MIND bomb 2 prevents RIPK1 kinase activity-dependent and -independent apoptosis through ubiquitylation of cFLIP. *Communications Biology*, **2021**, 4, 80	6.7	5
166	AGIA Tag System for Ultrastructural Protein Localization Analysis in Blood-Stage .. *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 777291	5.9	0
165	Expression of , the Flowering Inducer of Asiatic Hybrid Lily, in the Bulb Scales. *Frontiers in Plant Science*, **2020**, 11, 570915	6.2	5
164	Soy and Arabidopsis receptor-like kinases respond to polysaccharide signals from Spodoptera species and mediate herbivore resistance. *Communications Biology*, **2020**, 3, 224	6.7	12
163	A Human DUB Protein Array for Clarification of Linkage Specificity of Polyubiquitin Chain and Application to Evaluation of Its Inhibitors. *Biomedicines*, **2020**, 8,	4.8	5
162	A novel MRGPRX2-targeting antagonistic DNA aptamer inhibits histamine release and prevents mast cell-mediated anaphylaxis. *European Journal of Pharmacology*, **2020**, 878, 173104	5.3	19
161	AirID, a novel proximity biotinylation enzyme, for analysis of protein-protein interactions. *ELife*, **2020**, 9,	8.9	24
160	Raf-like kinases CBC1 and CBC2 negatively regulate stomatal opening by negatively regulating plasma membrane H-ATPase phosphorylation in Arabidopsis. *Photochemical and Photobiological Sciences*, **2020**, 19, 88-98	4.2	5
159	Subquinocin, a small molecule inhibitor of CYLD and USP-family deubiquitinating enzymes, promotes NF-B signaling. *Biochemical and Biophysical Research Communications*, **2020**, 524, 1-7	3.4	12

158	CIPK23 regulates blue light-dependent stomatal opening in Arabidopsis thaliana. *Plant Journal*, **2020**, 104, 679-692	6.9	6
157	KN3014, a piperidine-containing small compound, inhibits auto-secretion of IL-1 from PBMCs in a patient with Muckle-Wells syndrome. *Scientific Reports*, **2020**, 10, 13562	4.9	4
156	An IMiD-induced SALL4 degron system for selective degradation of target proteins. *Communications Biology*, **2020**, 3, 515	6.7	9
155	Structural bases of IMiD selectivity that emerges by 5-hydroxythalidomide. *Nature Communications*, **2020**, 11, 4578	17.4	13
154	Production of a rabbit monoclonal antibody for highly sensitive detection of citrus mosaic virus and related viruses. *PLoS ONE*, **2020**, 15, e0229196	3.7	
153	PIM kinases facilitate lentiviral evasion from SAMHD1 restriction via Vpx phosphorylation. *Nature Communications*, **2019**, 10, 1844	17.4	10
152	The E3 ubiquitin ligase MIB2 enhances inflammation by degrading the deubiquitinating enzyme CYLD. *Journal of Biological Chemistry*, **2019**, 294, 14135-14148	5.4	13
151	Tyrosine Kinase-Dependent Defense Responses Against Herbivory in Arabidopsis. *Frontiers in Plant Science*, **2019**, 10, 776	6.2	13
150	Cullin-3/KCTD10 complex is essential for K27-polyubiquitination of EIF3D in human hepatocellular carcinoma HepG2 cells. *Biochemical and Biophysical Research Communications*, **2019**, 516, 1116-1122	3.4	4
149	CF-PAVtech: a cell-free human protein array technology for antibody validation against human proteins. *Scientific Reports*, **2019**, 9, 19349	4.9	3
148	Pyrrothiogatain acts as an inhibitor of GATA family proteins and inhibits Th2 cell differentiation in vitro. *Scientific Reports*, **2019**, 9, 17335	4.9	11
147	The Ring-Type E3 Ubiquitin Ligase JUL1 Targets the VQ-Motif Protein JAV1 to Coordinate Jasmonate Signaling. *Plant Physiology*, **2019**, 179, 1273-1284	6.6	21
146	The malaria parasite RhopH protein complex interacts with erythrocyte calmyrin identified from a comprehensive erythrocyte protein library. *Biochemical and Biophysical Research Communications*, **2018**, 500, 261-267	3.4	2
145	DANFIN functions as an inhibitor of transcription factor NF-B and potentiates the antitumor effect of bortezomib in multiple myeloma. *Biochemical and Biophysical Research Communications*, **2018**, 495, 2289-2295	3.4	8
144	Identification of new abscisic acid receptor agonists using a wheat cell-free based drug screening system. *Scientific Reports*, **2018**, 8, 4268	4.9	16
143	Functional G-Protein-Coupled Receptor (GPCR) Synthesis: The Pharmacological Analysis of Human Histamine H1 Receptor (HRH1) Synthesized by a Wheat Germ Cell-Free Protein Synthesis System Combined with Asolectin Glycerosomes. *Frontiers in Pharmacology*, **2018**, 9, 38	5.6	12
142	Amyloid directly interacts with NLRP3 to initiate inflammasome activation: identification of an intrinsic NLRP3 ligand in a cell-free system. *Inflammation and Regeneration*, **2018**, 38, 27	10.9	41
141	The ubiquitin ligase RNF38 promotes RUNX1 ubiquitination and enhances RUNX1-mediated suppression of erythroid transcription program. *Biochemical and Biophysical Research Communications*, **2018**, 505, 905-909	3.4	3

140	Engineered membrane protein antigens successfully induce antibodies against extracellular regions of claudin-5. *Scientific Reports*, **2018**, 8, 8383	4.9	15
139	OsMYC2, an essential factor for JA-inductive sakuranetin production in rice, interacts with MYC2-like proteins that enhance its transactivation ability. *Scientific Reports*, **2017**, 7, 40175	4.9	35
138	Interaction between RNF8 and DYRK2 is required for the recruitment of DNA repair molecules to DNA double-strand breaks. *FEBS Letters*, **2017**, 591, 842-853	3.8	13
137	The ubiquitin ligase STUB1 regulates stability and activity of RUNX1 and RUNX1-RUNX1T1. *Journal of Biological Chemistry*, **2017**, 292, 12528-12541	5.4	11
136	Angubindin-1, a novel paracellular absorption enhancer acting at the tricellular tight junction. *Journal of Controlled Release*, **2017**, 260, 1-11	11.7	36
135	Involvement of PUF60 in Transcriptional and Post-transcriptional Regulation of Hepatitis B Virus Pregenomic RNA Expression. *Scientific Reports*, **2017**, 7, 12874	4.9	14
134	Tyrosine phosphorylation of the GARU E3 ubiquitin ligase promotes gibberellin signalling by preventing GID1 degradation. *Nature Communications*, **2017**, 8, 1004	17.4	23
133	CP5 system, for simple and highly efficient protein purification with a C-terminal designed mini tag. *PLoS ONE*, **2017**, 12, e0178246	3.7	7
132	HTLV-1 Tax Induces Formation of the Active Macromolecular IKK Complex by Generating Lys63- and Met1-Linked Hybrid Polyubiquitin Chains. *PLoS Pathogens*, **2017**, 13, e1006162	7.6	26
131	Poly (I:C) and hyaluronic acid directly interact with NLRP3, resulting in the assembly of NLRP3 and ASC in a cell-free system. *European Journal of Inflammation*, **2017**, 15, 85-97	0.3	4
130	Claudin-5-Binders Enhance Permeation of Solutes across the Blood-Brain Barrier in a Mammalian Model. *Journal of Pharmacology and Experimental Therapeutics*, **2017**, 363, 275-283	4.7	25
129	Efficiency and Safety of CRAC Inhibitors in Human Rheumatoid Arthritis Xenograft Models. *Journal of Immunology*, **2017**, 199, 1584-1595	5.3	20
128	Applications of reconstituted inflammasomes in a cell-free system to drug discovery and elucidation of the pathogenesis of autoinflammatory diseases. *Inflammation and Regeneration*, **2017**, 37, 9	10.9	7
127	Autophosphorylation Assays Using Plant Receptor Kinases Synthesized in Cell-Free Systems. *Methods in Molecular Biology*, **2017**, 1621, 113-120	1.4	
126	Cell-Free Synthesis of Plant Receptor Kinases. *Methods in Molecular Biology*, **2017**, 1621, 37-46	1.4	
125	Dysregulation of a potassium channel, THIK-1, targeted by caspase-8 accelerates cell shrinkage. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2016**, 1863, 2766-2783	4.9	4
124	Bach2-Batf interactions control Th2-type immune response by regulating the IL-4 amplification loop. *Nature Communications*, **2016**, 7, 12596	17.4	51
123	Linear ubiquitination is involved in the pathogenesis of optineurin-associated amyotrophic lateral sclerosis. *Nature Communications*, **2016**, 7, 12547	17.4	74

122	MyoD reprogramming requires Six1 and Six4 homeoproteins: genome-wide cis-regulatory module analysis. *Nucleic Acids Research*, **2016**, 44, 8621-8640	20.1	19
121	Gfi1, a transcriptional repressor, inhibits the induction of the T helper type 1 programme in activated CD4 T cells. *Immunology*, **2016**, 147, 476-87	7.8	14
120	AGIA Tag System Based on a High Affinity Rabbit Monoclonal Antibody against Human Dopamine Receptor D1 for Protein Analysis. *PLoS ONE*, **2016**, 11, e0156716	3.7	36
119	Nod2-Nodosome in a Cell-Free System: Implications in Pathogenesis and Drug Discovery for Blau Syndrome and Early-Onset Sarcoidosis. *Scientific World Journal, The*, **2016**, 2016, 2597376	2.2	8
118	H11/HSPB8 Restricts HIV-2 Vpx to Restore the Anti-Viral Activity of SAMHD1. *Frontiers in Microbiology*, **2016**, 7, 883	5.7	2
117	Establishment of a Wheat Cell-Free Synthesized Protein Array Containing 250 Human and Mouse E3 Ubiquitin Ligases to Identify Novel Interaction between E3 Ligases and Substrate Proteins. *PLoS ONE*, **2016**, 11, e0156718	3.7	31
116	Characterization of RyDEN (C19orf66) as an Interferon-Stimulated Cellular Inhibitor against Dengue Virus Replication. *PLoS Pathogens*, **2016**, 12, e1005357	7.6	49
115	Involvement of the 3RUntranslated Region in Encapsidation of the Hepatitis C Virus. *PLoS Pathogens*, **2016**, 12, e1005441	7.6	17
114	Plant Aurora kinases interact with and phosphorylate transcription factors. *Journal of Plant Research*, **2016**, 129, 1165-1178	2.6	6
113	Na, K-ATPase is a death target of Alzheimer patient amyloid- assembly. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4465-74	11.5	89
112	Members of the Plant CRK Superfamily Are Capable of Trans- and Autophosphorylation of Tyrosine Residues. *Journal of Biological Chemistry*, **2015**, 290, 16665-77	5.4	34
111	Production of monoclonal antibodies against GPCR using cell-free synthesized GPCR antigen and biotinylated liposome-based interaction assay. *Scientific Reports*, **2015**, 5, 11333	4.9	43
110	Reconstituted AIM2 inflammasome in cell-free system. *Journal of Immunological Methods*, **2015**, 426, 76-81	2.5	6
109	Claudin-1 Binder Enhances Epidermal Permeability in a Human Keratinocyte Model. *Journal of Pharmacology and Experimental Therapeutics*, **2015**, 354, 440-7	4.7	18
108	Wheat germ-based protein libraries for the functional characterisation of the Arabidopsis E2 ubiquitin conjugating enzymes and the RING-type E3 ubiquitin ligase enzymes. *BMC Plant Biology*, **2015**, 15, 275	5.3	24
107	A cell-free enzymatic activity assay for the evaluation of HIV-1 drug resistance to protease inhibitors. *Frontiers in Microbiology*, **2015**, 6, 1220	5.7	5
106	Novel Autoantigens Associated with Lupus Nephritis. *PLoS ONE*, **2015**, 10, e0126564	3.7	9
105	Functional Characterization of the Receiver Domain for Phosphorelay Control in Hybrid Sensor Kinases. *PLoS ONE*, **2015**, 10, e0132598	3.7	18

104	Autoantibody Profiles in Collagen Disease Patients with Interstitial Lung Disease (ILD): Antibodies to Major Histocompatibility Complex Class I-Related Chain A (MICA) as Markers of ILD. *Biomarker Insights*, **2015**, 10, 63-73	3.5	7
103	High-throughput synthesis of stable isotope-labeled transmembrane proteins for targeted transmembrane proteomics using a wheat germ cell-free protein synthesis system. *Molecular BioSystems*, **2015**, 11, 361-5		21
102	Technology of Wheat Cell-Free-Based Protein Array for Biochemical Analyses of Protein Kinases and Ubiquitin E3 Ligases **2015**, 43-60		1
101	Profiling of autoantibodies in sera of pancreatic cancer patients. *Annals of Surgical Oncology*, **2014**, 21 Suppl 3, S459-65	3.1	14
100	The phosphorylation of HIV-1 Gag by atypical protein kinase C facilitates viral infectivity by promoting Vpr incorporation into virions. *Retrovirology*, **2014**, 11, 9	3.6	28
99	ScreenCap3: Improving prediction of caspase-3 cleavage sites using experimentally verified noncleavage sites. *Proteomics*, **2014**, 14, 2042-6	4.8	6
98	The ligand binding ability of dopamine D1 receptors synthesized using a wheat germ cell-free protein synthesis system with liposomes. *European Journal of Pharmacology*, **2014**, 745, 117-22	5.3	12
97	The apoptotic initiator caspase-8: its functional ubiquity and genetic diversity during animal evolution. *Molecular Biology and Evolution*, **2014**, 31, 3282-301	8.3	15
96	Pctaire1/Cdk16 promotes skeletal myogenesis by inducing myoblast migration and fusion. *FEBS Letters*, **2014**, 588, 3030-7	3.8	15
95	Involvement of hepatitis C virus NS5A hyperphosphorylation mediated by casein kinase I-□n infectious virus production. *Journal of Virology*, **2014**, 88, 7541-55	6.6	65
94	Overexpression of the PAP1 transcription factor reveals a complex regulation of flavonoid and phenylpropanoid metabolism in Nicotiana tabacum plants attacked by Spodoptera litura. *PLoS ONE* , **2014**, 9, e108849	3.7	29
93	Novel type of adenylyl cyclase participates in tabtoxinine-□lactam-induced cell death and occurrence of wildfire disease in Nicotiana benthamiana. *Plant Signaling and Behavior*, **2014**, 9, e27420	2.5	12
92	Suppression of LUBAC-mediated linear ubiquitination by a specific interaction between LUBAC and the deubiquitinases CYLD and OTULIN. *Genes To Cells*, **2014**, 19, 254-72	2.3	81
91	In situ visualization of plasma cells producing antibodies reactive to Porphyromonas gingivalis in periodontitis: the application of the enzyme-labeled antigen method. *Molecular Oral Microbiology*, **2014**, 29, 156-73	4.6	8
90	Identification of RFPL3 protein as a novel E3 ubiquitin ligase modulating the integration activity of human immunodeficiency virus, type 1 preintegration complex using a microtiter plate-based assay. *Journal of Biological Chemistry*, **2014**, 289, 26368-26382	5.4	8
89	Nek5, a novel substrate for caspase-3, promotes skeletal muscle differentiation by up-regulating caspase activity. *FEBS Letters*, **2013**, 587, 2219-25	3.8	19
88	The Solanum chacoense ovary receptor kinase 11 (ScORK11) undergoes tissue-dependent transcriptional, translational and post-translational regulation. *Plant Physiology and Biochemistry*, **2013**, 70, 261-8	5.4	2
87	Novel approach to identifying autoantibodies in rheumatoid synovitis with a biotinylated human autoantigen library and the enzyme-labeled antigen method. *Journal of Immunological Methods*, **2013**, 387, 57-70	2.5	10

86	Myosin phosphatase is inactivated by caspase-3 cleavage and phosphorylation of myosin phosphatase targeting subunit 1 during apoptosis. *Molecular Biology of the Cell*, **2013**, 24, 748-56	3.5	15
85	Anti-interleukin-5 and multiple autoantibodies are associated with human atherosclerotic diseases and serum interleukin-5 levels. *FASEB Journal*, **2013**, 27, 3437-45	0.9	16
84	Suppression of DS1 phosphatidic acid phosphatase confirms resistance to Ralstonia solanacearum in Nicotiana benthamiana. *PLoS ONE*, **2013**, 8, e75124	3.7	39
83	Genome-wide biochemical analysis of Arabidopsis protein phosphatase using a wheat cell-free system. *FEBS Letters*, **2012**, 586, 3134-41	3.8	8
82	A novel Sec14 phospholipid transfer protein from Nicotiana benthamiana is up-regulated in response to Ralstonia solanacearum infection, pathogen associated molecular patterns and effector molecules and involved in plant immunity. *Journal of Plant Physiology*, **2012**, 169, 1017-22	3.6	31
81	Molecular and enzymatic characterization of XMRV protease by a cell-free proteolytic analysis. *Journal of Proteomics*, **2012**, 75, 4863-73	3.9	3
80	Establishment of a robust dengue virus NS3-NS5 binding assay for identification of protein-protein interaction inhibitors. *Antiviral Research*, **2012**, 96, 305-14	10.8	37
79	The molecular mechanism of apoptosis upon caspase-8 activation: quantitative experimental validation of a mathematical model. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2012**, 1823, 1825-40	4.9	39
78	In vivo imaging of hierarchical spatiotemporal activation of caspase-8 during apoptosis. *PLoS ONE*, **2012**, 7, e50218	3.7	19
77	Interferon-induced SCYL2 limits release of HIV-1 by triggering PP2A-mediated dephosphorylation of the viral protein Vpu. *Science Signaling*, **2012**, 5, ra73	8.8	17
76	Stress-inducible caspase substrate TRB3 promotes nuclear translocation of procaspase-3. *PLoS ONE* , **2012**, 7, e42721	3.7	18
75	Use of domain enzymes from wheat RNA ligase for in vitro preparation of RNA molecules. *Biochemical and Biophysical Research Communications*, **2011**, 404, 1050-4	3.4	
74	Caspase-8 cleavage of the interleukin-21 (IL-21) receptor is a negative feedback regulator of IL-21 signaling. *FEBS Letters*, **2011**, 585, 1835-40	3.8	7
73	Production and partial purification of membrane proteins using a liposome-supplemented wheat cell-free translation system. *BMC Biotechnology*, **2011**, 11, 35	3.5	46
72	Wheat germ cell-free protein production system for post-genomic research. *New Biotechnology*, **2011**, 28, 211-7	6.4	30
71	Autophosphorylation profiling of Arabidopsis protein kinases using the cell-free system. *Phytochemistry*, **2011**, 72, 1136-44	4	40
70	Specific in situ visualization of plasma cells producing antibodies against Porphyromonas gingivalis in gingival radicular cyst: application of the enzyme-labeled antigen method. *Journal of Histochemistry and Cytochemistry*, **2011**, 59, 673-89	3.4	7
69	Practical cell-free protein synthesis system using purified wheat embryos. *Nature Protocols*, **2010**, 5, 227-38	18.8	150

68	Ca2+-dependent protein kinases and their substrate HsfB2a are differently involved in the heat response signaling pathway in Arabidopsis. *Plant Biotechnology*, **2010**, 27, 469-473	1.3	12
67	Arabidopsis CPK3 plays extensive roles in various biological and environmental responses. *Plant Signaling and Behavior*, **2010**, 5, 1263-5	2.5	11
66	Characterization of a caspase-3-substrate kinome using an N- and C-terminally tagged protein kinase library produced by a cell-free system. *Cell Death and Disease*, **2010**, 1, e89	9.8	38
65	Simple screening method for autoantigen proteins using the N-terminal biotinylated protein library produced by wheat cell-free synthesis. *Journal of Proteome Research*, **2010**, 9, 4264-73	5.6	42
64	In vitro dissection revealed that the kinase domain of wheat RNA ligase is physically isolatable from the flanking domains as a non-overlapping domain enzyme. *Biochemical and Biophysical Research Communications*, **2010**, 397, 762-6	3.4	3
63	An efficient approach to the production of vaccines against the malaria parasite. *Methods in Molecular Biology*, **2010**, 607, 73-83	1.4	39
62	The wheat-germ cell-free expression system. *Current Pharmaceutical Biotechnology*, **2010**, 11, 272-8	2.6	15
61	Evaluating the role of rheumatoid factors for the development of rheumatoid arthritis in a mouse model with a newly established ELISA system. *Tohoku Journal of Experimental Medicine*, **2010**, 220, 199-208	2.4	13
60	Regulation of Arabidopsis defense responses against Spodoptera littoralis by CPK-mediated calcium signaling. *BMC Plant Biology*, **2010**, 10, 97	5.3	102
59	Biotinylated-sortase self-cleavage purification (BISOP) method for cell-free produced proteins. *BMC Biotechnology*, **2010**, 10, 42	3.5	13
58	Cell-free protein synthesis for structure determination by X-ray crystallography. *Methods in Molecular Biology*, **2010**, 607, 149-60	1.4	19
57	Cell-free-based protein microarray technology using agarose/DNA microplate. *Methods in Molecular Biology*, **2010**, 607, 63-72	1.4	
56	RNA N-Glycosidase Activity of Ribosome-Inactivating Proteins. *Plant Cell Monographs*, **2010**, 27-39	0.6	
55	Construction of a protein library of Arabidopsis transcription factors using a wheat cell-free protein production system and its application for DNA binding analysis. *Bioscience, Biotechnology and Biochemistry*, **2009**, 73, 1661-4	2.1	9
54	Paraquat toxicity induced by voltage-dependent anion channel 1 acts as an NADH-dependent oxidoreductase. *Journal of Biological Chemistry*, **2009**, 284, 28642-9	5.4	20
53	A simple and high-sensitivity method for analysis of ubiquitination and polyubiquitination based on wheat cell-free protein synthesis. *BMC Plant Biology*, **2009**, 9, 39	5.3	43
52	Requirement for microtubule integrity in the SOCS1-mediated intracellular dynamics of HIV-1 Gag. *FEBS Letters*, **2009**, 583, 1243-50	3.8	29
51	Isolation and identification of ubiquitin-related proteins from Arabidopsis seedlings. *Journal of Experimental Botany*, **2009**, 60, 3067-73	7	51

50	Arabidopsis HY5 protein functions as a DNA-binding tag for purification and functional immobilization of proteins on agarose/DNA microplate. *FEBS Letters*, **2008**, 582, 221-8	3.8	54
49	The wheat germ cell-free based screening of protein substrates of calcium/calmodulin-dependent protein kinase II delta. *FEBS Letters*, **2008**, 582, 1795-801	3.8	13
48	DNA-binding profiling of human hormone nuclear receptors via fluorescence correlation spectroscopy in a cell-free system. *FEBS Letters*, **2008**, 582, 2737-44	3.8	13
47	RIP and RALyase cleave the sarcin/ricin domain, a critical domain for ribosome function, during senescence of wheat coleoptiles. *Biochemical and Biophysical Research Communications*, **2008**, 370, 561-5	3.4	16
46	Wheat germ cell-free system-based production of malaria proteins for discovery of novel vaccine candidates. *Infection and Immunity*, **2008**, 76, 1702-8	3.7	176
45	SOCS1 is an inducible host factor during HIV-1 infection and regulates the intracellular trafficking and stability of HIV-1 Gag. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 294-9	11.5	61
44	Chapter 2. Development of key technologies for high-throughput cell-free protein production with the extract from wheat embryos. *Advances in Protein Chemistry and Structural Biology*, **2008**, 75, 53-84	5.3	5
43	A set of ligation-independent in vitro translation vectors for eukaryotic protein production. *BMC Biotechnology*, **2008**, 8, 32	3.5	25
42	Detection of structural changes in a cofactor binding protein by using a wheat germ cell-free protein synthesis system coupled with unnatural amino acid probing. *Proteins: Structure, Function and Bioinformatics*, **2007**, 67, 643-52	4.2	19
41	Novel protein fold discovered in the PabI family of restriction enzymes. *Nucleic Acids Research*, **2007**, 35, 1908-18	20.1	45
40	Characterization of ScORK28, a transmembrane functional protein receptor kinase predominantly expressed in ovaries from the wild potato species Solanum chacoense. *FEBS Letters*, **2007**, 581, 5137-42	3.8	7
39	Construction of intramolecular luciferase complementation probe for detecting specific RNA. *Bioconjugate Chemistry*, **2007**, 18, 956-62	6.3	14
38	Methods for high-throughput materialization of genetic information based on wheat germ cell-free expression system. *Methods in Molecular Biology*, **2007**, 375, 95-106	1.4	27
37	Cell-free expression systems for eukaryotic protein production. *Current Opinion in Biotechnology*, **2006**, 17, 373-80	11.4	184
36	In vitro selection of zinc finger DNA-binding proteins through ribosome display. *Biochemical and Biophysical Research Communications*, **2006**, 345, 1149-54	3.4	16
35	Covalent circularization of exogenous RNA during incubation with a wheat embryo cell extract. *Biochemical and Biophysical Research Communications*, **2006**, 347, 1080-7	3.4	10
34	Tolerance for random recombination of domains in prokaryotic and eukaryotic translation systems: Limited interdomain misfolding in a eukaryotic translation system. *Proteins: Structure, Function and Bioinformatics*, **2006**, 64, 343-54	4.2	21
33	The initiator caspase, caspase-10beta, and the BH-3-only molecule, Bid, demonstrate evolutionary conservation in Xenopus of their pro-apoptotic activities in the extrinsic and intrinsic pathways. *Genes To Cells*, **2006**, 11, 701-17	2.3	12

32	Activity-based in vitro selection of T4 DNA ligase. *Biochemical and Biophysical Research Communications*, **2005**, 336, 987-93	3.4	11
31	Selection of 5Runtranslated sequences that enhance initiation of translation in a cell-free protein synthesis system from wheat embryos. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 5402-6	2.9	44
30	Implication of allelic polymorphism of osteopontin in the development of lupus nephritis in MRL/lpr mice. *European Journal of Immunology*, **2005**, 35, 1510-20	6.1	59
29	Purification and sequence determination of an RNA ligase from wheat embryos. *Nucleic Acids Symposium Series*, **2005**, 319-20		4
28	The wheat germ cell-free expression system: methods for high-throughput materialization of genetic information. *Methods in Molecular Biology*, **2005**, 310, 131-44	1.4	37
27	Advances in genome-wide protein expression using the wheat germ cell-free system. *Methods in Molecular Biology*, **2005**, 310, 145-67	1.4	16
26	High-throughput, genome-scale protein production method based on the wheat germ cell-free expression system. *Journal of Structural and Functional Genomics*, **2004**, 5, 45-57		51
25	Genome-scale, biochemical annotation method based on the wheat germ cell-free protein synthesis system. *Phytochemistry*, **2004**, 65, 1549-55	4	46
24	Detection of protein-DNA interactions in crude cellular extracts by fluorescence correlation spectroscopy. *Analytical Biochemistry*, **2004**, 332, 58-66	3.1	16
23	Formation of circular polyribosomes in wheat germ cell-free protein synthesis system. *FEBS Letters*, **2004**, 562, 155-9	3.8	28
22	High-throughput, genome-scale protein production method based on the wheat germ cell-free expression system. *Biotechnology Advances*, **2003**, 21, 695-713	17.8	83
21	Efficient synthesis of a disulfide-containing protein through a batch cell-free system from wheat germ. *FEBS Journal*, **2003**, 270, 4780-6		52
20	A wheat germ cell-free system is a novel way to screen protein folding and function. *Protein Science* , **2003**, 12, 1216-21	6.3	56
19	RALyase; a terminator of elongation function of depurinated ribosomes. *FEBS Letters*, **2003**, 555, 455-8	3.8	10
18	Highly stable and efficient mRNA templates for mRNA-protein fusions and C-terminally labeled proteins. *Nucleic Acids Research*, **2003**, 31, e78	20.1	47
17	Aquifex aeolicus tRNA (Gm18) methyltransferase has unique substrate specificity. TRNA recognition mechanism of the enzyme. *Journal of Biological Chemistry*, **2003**, 278, 25081-90	5.4	30
16	Cell-free Protein Synthesis by Wheat Germ Extracts.. *Nihon Kessho Gakkaishi*, **2003**, 45, 3-8	0	
15	Role of Nucleic Acid and Protein Manipulation Technologies in High-throughput Structural Biology Efforts **2003**,		2

14	OsRALyase1, a putative F-box protein identified in rice, Oryza sativa, with enzyme activity identical to that of wheat RALyase. *Bioscience, Biotechnology and Biochemistry*, **2002**, 66, 2727-31	2.1	13
13	A cell-free protein synthesis system for high-throughput proteomics. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 14652-7	11.5	407
12	Novel fluorescence labeling and high-throughput assay technologies for in vitro analysis of protein interactions. *Genome Research*, **2002**, 12, 487-92	9.7	38
11	A bilayer cell-free protein synthesis system for high-throughput screening of gene products. *FEBS Letters*, **2002**, 514, 102-5	3.8	175
10	Highly Productive Plant Continuous Cell-Free System **2002**, 109-119		
9	Liver perchloric acid-soluble ribonuclease. *Methods in Enzymology*, **2001**, 342, 44-54	1.7	1
8	A highly efficient and robust cell-free protein synthesis system prepared from wheat embryos: plants apparently contain a suicide system directed at ribosomes. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 559-64	11.5	422
7	Ribonuclease activity of rat liver perchloric acid-soluble protein, a potent inhibitor of protein synthesis. *Journal of Biological Chemistry*, **1999**, 274, 20688-92	5.4	81
6	A new class of enzyme acting on damaged ribosomes: ribosomal RNA apurinic site specific lyase found in wheat germ. *EMBO Journal*, **1999**, 18, 6522-31	13	59
5	Structures of transgene loci in transgenic Arabidopsis plants obtained by particle bombardment: junction regions can bind to nuclear matrices. *Gene*, **1998**, 218, 27-35	3.8	56
4	Stable transformation ofArabidopsis with thebar gene using particle bombardment. *Transgenic Research*, **1994**, 3, 279-286	3.3	14
3	Cell-Free Expression System for Eukaryotic Proteins659-669		
2	The Wheat Germ Cell-Free Protein Synthesis System111-139		2
1	PLZF is a new substrate of CRBN with thalidomide and 5-hydroxythalidomide		3