

# Fuminori Tokunaga

## List of Publications by Year in descending order

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93  
papers

7,621  
citations

81434

41  
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60403

85  
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98  
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98  
docs citations

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times ranked

7317  
citing authors

#	ARTICLE	IF	CITATIONS
1	Involvement of linear polyubiquitylation of NEMO in NF- $\kappa$ B activation. <i>Nature Cell Biology</i> , 2009, 11, 123-132.	4.6	870
2	A ubiquitin ligase complex assembles linear polyubiquitin chains. <i>EMBO Journal</i> , 2006, 25, 4877-4887.	3.5	663
3	SHARPIN forms a linear ubiquitin ligase complex regulating NF- $\kappa$ B activity and apoptosis. <i>Nature</i> , 2011, 471, 637-641.	13.7	655
4	SHARPIN is a component of the NF- $\kappa$ B-activating linear ubiquitin chain assembly complex. <i>Nature</i> , 2011, 471, 633-636.	13.7	557
5	Antimicrobial Peptides, Isolated from Horseshoe Crab Hemocytes, Tachyplesin II, and Polyphemusins I and II: Chemical Structures and Biological Activity1. <i>Journal of Biochemistry</i> , 1989, 106, 663-668.	0.9	303
6	Recruitment of the autophagic machinery to endosomes during infection is mediated by ubiquitin. <i>Journal of Cell Biology</i> , 2013, 203, 115-128.	2.3	242
7	Gp78 Cooperates with RMA1 in Endoplasmic Reticulum-associated Degradation of CFTR $\Delta$ F508. <i>Molecular Biology of the Cell</i> , 2008, 19, 1328-1336.	0.9	212
8	Linear polyubiquitination: a new regulator of NF- $\kappa$ B activation. <i>EMBO Reports</i> , 2009, 10, 706-713.	2.0	202
9	Linear Ubiquitin Assembly Complex Negatively Regulates RIG-I- and TRIM25-Mediated Type I Interferon Induction. <i>Molecular Cell</i> , 2011, 41, 354-365.	4.5	189
10	Specific recognition of linear polyubiquitin by A20 zinc finger 7 is involved in NF- $\kappa$ B regulation. <i>EMBO Journal</i> , 2012, 31, 3856-3870.	3.5	179
11	Identification of the ubiquitin- $\kappa$ protein ligase that recognizes oxidized IRP2. <i>Nature Cell Biology</i> , 2003, 5, 336-340.	4.6	176
12	Fbs2 Is a New Member of the E3 Ubiquitin Ligase Family That Recognizes Sugar Chains. <i>Journal of Biological Chemistry</i> , 2003, 278, 43877-43884.	1.6	156
13	Molecular mechanism of hemolymph clotting system in <i>Limulus</i> . <i>Thrombosis Research</i> , 1992, 68, 1-32.	0.8	143
14	Molecular Characterization of the "26S" Proteasome Complex from Rat Liver. <i>Journal of Structural Biology</i> , 1993, 111, 200-211.	1.3	142
15	Involvement of Heme Regulatory Motif in Heme-Mediated Ubiquitination and Degradation of IRP2. <i>Molecular Cell</i> , 2005, 19, 171-181.	4.5	135
16	Endoplasmic Reticulum (ER)-associated Degradation of Misfolded N-Linked Glycoproteins Is Suppressed upon Inhibition of ER Mannosidase I. <i>Journal of Biological Chemistry</i> , 2000, 275, 40757-40764.	1.6	114
17	Linear ubiquitination is involved in the pathogenesis of optineurin-associated amyotrophic lateral sclerosis. <i>Nature Communications</i> , 2016, 7, 12547.	5.8	109
18	Structural insights into cGAMP degradation by Ecto-nucleotide pyrophosphatase phosphodiesterase 1. <i>Nature Communications</i> , 2018, 9, 4424.	5.8	108

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19	Structures of CYLD USP with Met1- or Lys63-linked diubiquitin reveal mechanisms for dual specificity. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 222-229.	3.6	105
20	Primary Structure of Anti-Lipoplysaccharide Factor from American Horseshoe Crab, <i>Limulus polyphemus</i> 1. <i>Journal of Biochemistry</i> , 1987, 101, 1321-1330.	0.9	100
21	Primary Structure of Hemorrhagic Protein, HR2a, Isolated from the Venom of <i>Trimeresurus flavoviridis</i> 1. <i>Journal of Biochemistry</i> , 1989, 105, 847-853.	0.9	100
22	Molecular cloning of cDNA for proteasomes (multicatalytic proteinase complexes) from rat liver: primary structure of the largest component (C2). <i>Biochemistry</i> , 1989, 28, 7332-7340.	1.2	90
23	Direct Virus Inactivation of Tachyplesin I and Its Isopeptides from Horseshoe Crab Hemocytes. <i>Chemotherapy</i> , 1991, 37, 327-334.	0.8	89
24	Purification and Amino Acid Sequence of Basic Protein II, a Lysine-49-Phospholipase A2 with Low Activity, from <i>Trimeresurus flavoviridis</i> Venom1. <i>Journal of Biochemistry</i> , 1990, 107, 400-408.	0.9	86
25	Analysis of Nuclear Factor- $\kappa$ B (NF- $\kappa$ B) Essential Modulator (NEMO) Binding to Linear and Lysine-linked Ubiquitin Chains and Its Role in the Activation of NF- $\kappa$ B. <i>Journal of Biological Chemistry</i> , 2012, 287, 23626-23634.	1.6	86
26	Molecular cloning of cDNA for proteasomes from rat liver: primary structure of component C3 with a possible tyrosine phosphorylation site. <i>Biochemistry</i> , 1990, 29, 3777-3785.	1.2	79
27	LUBAC, a novel ubiquitin ligase for linear ubiquitination, is crucial for inflammation and immune responses. <i>Microbes and Infection</i> , 2012, 14, 563-572.	1.0	76
28	Linear ubiquitination-mediated NF- $\kappa$ B regulation and its related disorders. <i>Journal of Biochemistry</i> , 2013, 154, 313-323.	0.9	73
29	<i>Limulus</i> factor D, a 43-kDa protein isolated from horseshoe crab hemocytes, is a serine protease homologue with antimicrobial activity. <i>FEBS Letters</i> , 1996, 398, 146-150.	1.3	71
30	Intracellular serine-protease zymogen, factor C, from horseshoe crab hemocytes. Its activation by synthetic lipid A analogues and acidic phospholipids. <i>FEBS Journal</i> , 1988, 176, 89-94.	0.2	62
31	cDNA cloning and sequencing of component C9 of proteasomes from rat hepatoma cells. <i>FEBS Letters</i> , 1990, 264, 279-282.	1.3	60
32	Isolation and characterization of a thermolabile $\beta$ -2 macroglycoprotein (â€œthermolabile substanceâ€™™ or Tj ETQq0 0 0 rgBT /Overlock erythematosus. <i>BBA - Proteins and Proteomics</i> , 1991, 1078, 369-376.	2.1	58
33	Interaction between Lipopolysaccharide and Intracellular Serine Protease Zymogen, Factor C, from Horseshoe Crab ( <i>Tachypleus tridentatus</i> ) Hemocytes1. <i>Journal of Biochemistry</i> , 1988, 103, 370-374.	0.9	55
34	Structural and Functional Analyses of DNA-Sensing and Immune Activation by Human cGAS. <i>PLoS ONE</i> , 2013, 8, e76983.	1.1	54
35	A nonâ€™canonical UBAâ€™UBL interaction forms the linearâ€™ubiquitinâ€™chain assembly complex. <i>EMBO Reports</i> , 2012, 13, 462-468.	2.0	52
36	cDNA cloning and sequencing of component C5 of proteasomes from rat hepatoma cells. <i>FEBS Letters</i> , 1990, 264, 91-94.	1.3	51

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37	Proline-rich Cell Surface Antigens of Horseshoe Crab Hemocytes Are Substrates for Protein Cross-linking with a Clotting Protein Coagulin. <i>Journal of Biological Chemistry</i> , 2002, 277, 40084-40090.	1.6	51
38	cDNA cloning and sequencing of component C8 of proteasomes from rat hepatoma cells. <i>Biochemical and Biophysical Research Communications</i> , 1990, 171, 676-683.	1.0	49
39	Warfarin Causes the Degradation of Protein C Precursor in the Endoplasmic Reticulum. <i>Biochemistry</i> , 1995, 34, 1163-1170.	1.2	47
40	Mutual regulation of conventional protein kinase C and a ubiquitin ligase complex. <i>Biochemical and Biophysical Research Communications</i> , 2006, 351, 340-347.	1.0	45
41	Linear ubiquitination: A novel NF- $\kappa$ B regulatory mechanism for inflammatory and immune responses by the LUBAC ubiquitin ligase complex [Review]. <i>Endocrine Journal</i> , 2012, 59, 641-652.	0.7	44
42	Structural and Functional Analysis of DDX41: a bispecific immune receptor for DNA and cyclic dinucleotide. <i>Scientific Reports</i> , 2016, 6, 34756.	1.6	43
43	Small-molecule inhibitors of linear ubiquitin chain assembly complex (LUBAC), HOIPINs, suppress NF- $\kappa$ B signaling. <i>Biochemical and Biophysical Research Communications</i> , 2019, 509, 700-706.	1.0	43
44	Molecular bases for HOIPINs-mediated inhibition of LUBAC and innate immune responses. <i>Communications Biology</i> , 2020, 3, 163.	2.0	38
45	Purification and Amino Acid Sequence of Kunitz-Type Protease Inhibitor Found in the Hemocytes of Horseshoe Crab ( <i>Tachypleus tridentatus</i> ) <sup>12</sup> . <i>Journal of Biochemistry</i> , 1987, 101, 1297-1306.	0.9	37
46	Linear Ubiquitin Code: Its Writer, Erasers, Decoders, Inhibitors, and Implications in Disorders. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3381.	1.8	37
47	Further Studies on Lipopolysaccharide-Sensitive Serine Protease Zymogen (Factor C): Its Isolation from <i>Limulus polyphemus</i> Hemocytes and Identification as an Intracellular Zymogen Activated by $\hat{\text{I}}\pm$ -Chymotrypsin, Not by Trypsin <sup>1</sup> . <i>Journal of Biochemistry</i> , 1991, 109, 150-157.	0.9	33
48	HTLV-1 Tax Induces Formation of the Active Macromolecular IKK Complex by Generating Lys63- and Met1-Linked Hybrid Polyubiquitin Chains. <i>PLoS Pathogens</i> , 2017, 13, e1006162.	2.1	30
49	Presequence Does Not Prevent Folding of a Purified Mitochondrial Precursor Protein and Is Essential for Association with a Reticulocyte Cytosolic Factor(s) <sup>1</sup> . <i>Journal of Biochemistry</i> , 1990, 108, 207-214.	0.9	29
50	Decreased linear ubiquitination of NEMO and FADD on apoptosis with caspase-mediated cleavage of HOIP. <i>Biochemical and Biophysical Research Communications</i> , 2017, 485, 152-159.	1.0	29
51	The NH2 -terminal residues of rat liver proteasome (multicatalytic proteinase complex) subunits, C2, C3 and C8, are N $\hat{\text{I}}\pm$ -acetylated. <i>FEBS Letters</i> , 1990, 263, 373-375.	1.3	28
52	High-Throughput Screening for Linear Ubiquitin Chain Assembly Complex (LUBAC) Selective Inhibitors Using Homogenous Time-Resolved Fluorescence (HTRF)-Based Assay System. <i>SLAS Discovery</i> , 2018, 23, 1018-1029.	1.4	27
53	cDNA cloning of rat proteasome subunit RC1, a homologue of RING10 located in the human MHC class II region. <i>FEBS Letters</i> , 1992, 301, 65-68.	1.3	25
54	Intracellular degradation of secretion defect-type mutants of antithrombin is inhibited by proteasomal inhibitors. <i>FEBS Letters</i> , 1997, 412, 65-69.	1.3	23

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55	Preparation and Properties of Monoclonal Antibodies against Lipopolysaccharide-Sensitive Serine Protease Zymogen, Factor C, from Horseshoe Crab ( <i>Tachypleus tridentatus</i> ) Hemocytes1. <i>Journal of Biochemistry</i> , 1992, 112, 476-481.	0.9	22
56	Th2 cells and macrophages cooperatively induce allergic inflammation through histamine signaling. <i>PLoS ONE</i> , 2021, 16, e0248158.	1.1	22
57	The E3 ubiquitin ligase MIB2 enhances inflammation by degrading the deubiquitinating enzyme CYLD. <i>Journal of Biological Chemistry</i> , 2019, 294, 14135-14148.	1.6	21
58	LUBAC Formation Is Impaired in the Livers of Mice with MCD-Dependent Nonalcoholic Steatohepatitis. <i>Mediators of Inflammation</i> , 2015, 2015, 1-10.	1.4	20
59	Subquinocin, a small molecule inhibitor of CYLD and USP-family deubiquitinating enzymes, promotes NF- $\kappa$ B signaling. <i>Biochemical and Biophysical Research Communications</i> , 2020, 524, 1-7.	1.0	20
60	Interplay between protein acetylation and ubiquitination controls MCL1 protein stability. <i>Cell Reports</i> , 2021, 37, 109988.	2.9	20
61	Activation of nuclear factor-kappa B by linear ubiquitin chain assembly complex contributes to lung metastasis of osteosarcoma cells. <i>International Journal of Oncology</i> , 2012, 40, 409-17.	1.4	19
62	The COP9/Signalosome Increases the Efficiency of von Hippel-Lindau Protein Ubiquitin Ligase-mediated Hypoxia-inducible Factor-1 $\alpha$ Ubiquitination. <i>Journal of Biological Chemistry</i> , 2008, 283, 16622-16631.	1.6	18
63	Identification of linear polyubiquitin chain immunoreactivity in tau pathology of Alzheimer's disease. <i>Neuroscience Letters</i> , 2019, 703, 53-57.	1.0	18
64	Cellular Basis for Protein C Deficiency Caused by a Single Amino Acid Substitution at Arg15 in the $\beta$ -Carboxyglutamic Acid Domain. <i>Journal of Biochemistry</i> , 1996, 120, 360-368.	0.9	17
65	A Human DUB Protein Array for Clarification of Linkage Specificity of Polyubiquitin Chain and Application to Evaluation of Its Inhibitors. <i>Biomedicines</i> , 2020, 8, 152.	1.4	17
66	Hexa Histidine-Tagged Recombinant Human Cytoglobin Deactivates Hepatic Stellate Cells and Inhibits Liver Fibrosis by Scavenging Reactive Oxygen Species. <i>Hepatology</i> , 2021, 73, 2527-2545.	3.6	17
67	Molecular cloning of two types of cDNA encoding subunit RC6-I of rat proteasomes. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1995, 1264, 45-52.	2.4	16
68	An Autosomal Recessive Mutation of DSG4 Causes Monilethrix through the ER Stress Response. <i>Journal of Investigative Dermatology</i> , 2015, 135, 1253-1260.	0.3	16
69	[20] Limulus clotting factor C: Lipopolysaccharide-sensitive serine protease zymogen. <i>Methods in Enzymology</i> , 1993, 223, 336-345.	0.4	15
70	N-Linked oligosaccharide processing, but not association with calnexin/calreticulin is highly correlated with endoplasmic reticulum-associated degradation of antithrombin Glu313-deleted mutant. <i>Archives of Biochemistry and Biophysics</i> , 2003, 411, 235-242.	1.4	15
71	Linear Polyubiquitin Chain Modification of TDP-43-Positive Neuronal Cytoplasmic Inclusions in Amyotrophic Lateral Sclerosis. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2020, 79, 256-265.	0.9	14
72	cDNA cloning of rat proteasome subunit RC10-II, assumed to be responsible for trypsin-like catalytic activity. <i>FEBS Letters</i> , 1993, 336, 462-466.	1.3	13

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73	The Structural Differences between a Glycoprotein Specific F-Box Protein Fbs1 and Its Homologous Protein FBG3. <i>PLoS ONE</i> , 2015, 10, e0140366.	1.1	13
74	MIND bomb 2 prevents RIPK1 kinase activity-dependent and -independent apoptosis through ubiquitylation of cFLIPL. <i>Communications Biology</i> , 2021, 4, 80.	2.0	13
75	cDNA cloning of rat proteasome subunit RC7-I, a homologue of yeast PRE1 essential for chymotrypsin-like activity. <i>FEBS Letters</i> , 1993, 332, 52-56.	1.3	12
76	Characterization of endoplasmic reticulum-associated degradation of a protein S mutant identified in a family of quantitative protein S deficiency. <i>Thrombosis Research</i> , 2006, 117, 323-331.	0.8	11
77	Generalized verrucosis caused by various human papillomaviruses in a patient with <scp>GATA</scp>2 deficiency. <i>Journal of Dermatology</i> , 2018, 45, e108-e109.	0.6	10
78	Coordination of retrotransposons and type I interferon with distinct interferon pathways in dermatomyositis, systemic lupus erythematosus and autoimmune blistering disease. <i>Scientific Reports</i> , 2021, 11, 23146.	1.6	10
79	[25] Horseshoe crab transglutaminase. <i>Methods in Enzymology</i> , 1993, 223, 378-388.	0.4	9
80	Amino Acid Sequence of Porcine Antithrombin III1. <i>Journal of Biochemistry</i> , 1994, 116, 1164-1170.	0.9	8
81	Reduced SHARPIN and LUBAC Formation May Contribute to CCl4- or Acetaminophen-Induced Liver Cirrhosis in Mice. <i>International Journal of Molecular Sciences</i> , 2017, 18, 326.	1.8	8
82	Cellular and Mathematical Analyses of LUBAC Involvement in T Cell Receptor-Mediated NF- $\kappa$ B Activation Pathway. <i>Frontiers in Immunology</i> , 2020, 11, 601926.	2.2	8
83	Linear ubiquitination in immune and neurodegenerative diseases, and beyond. <i>Biochemical Society Transactions</i> , 2022, 50, 799-811.	1.6	8
84	Backbone and side chain 1H, 13C, and 15N assignments of the ubiquitin-like domain of human HOIL-1L, an essential component of linear ubiquitin chain assembly complex. <i>Biomolecular NMR Assignments</i> , 2012, 6, 177-180.	0.4	7
85	Crosstalk Between NDP52 and LUBAC in Innate Immune Responses, Cell Death, and Xenophagy. <i>Frontiers in Immunology</i> , 2021, 12, 635475.	2.2	5
86	The synchronized gene expression of retrotransposons and type I interferon in dermatomyositis. <i>Journal of the American Academy of Dermatology</i> , 2021, 84, 1103-1105.	0.6	4
87	Identification of one base deletion in exon IX of the protein C gene that causes a type I deficiency. <i>Thrombosis Research</i> , 1992, 68, 417-423.	0.8	3
88	In-frame Val 216 -Ser 217 deletion of KIT in mild piebaldism causes aberrant secretion and SCF response. <i>Journal of Dermatological Science</i> , 2018, 91, 35-42.	1.0	3
89	Capacity of extracellular globins to reduce liver fibrosis via scavenging reactive oxygen species and promoting MMP-1 secretion. <i>Redox Biology</i> , 2022, 52, 102286.	3.9	3
90	Crystallization and preliminary X-ray characterization of the Skp1-Fbg3 complex. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 95-98.	0.7	2

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91	Generation of Rat Monoclonal Antibodies Against a Deubiquitinase, Ovarian Tumor Domain-Containing Protein 1. <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> , 2018, 37, 180-184.	0.8	2
92	Generation of Rat Monoclonal Antibodies Specific for DZIP3. <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> , 2018, 37, 153-157.	0.8	1
93	Th2 cell-derived histamine is involved in nasal Th2 infiltration in mice. <i>Inflammation Research</i> , 2021, 70, 539-541.	1.6	1