

# Takeo Usui

## List of Publications by Year in descending order

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91  
papers

2,743  
citations

136885

32  
h-index

197736

49  
g-index

92  
all docs

92  
docs citations

92  
times ranked

3033  
citing authors

#	ARTICLE	IF	CITATIONS
1	Yeast Cdk1 translocates to the plus end of cytoplasmic microtubules to regulate bud cortex interactions. <i>EMBO Journal</i> , 2003, 22, 438-449.	3.5	144
2	Highly synchronous culture of fibroblasts from G2 block caused by staurosporine, a potent inhibitor of protein kinases. <i>Experimental Cell Research</i> , 1991, 192, 122-127.	1.2	124
3	A Novel Action of Terpendole E on the Motor Activity of Mitotic Kinesin Eg5. <i>Chemistry and Biology</i> , 2003, 10, 131-137.	6.2	105
4	The Anticancer Natural Product Pironetin Selectively Targets Lys352 of $\alpha$ -Tubulin. <i>Chemistry and Biology</i> , 2004, 11, 799-806.	6.2	95
5	Cell cycle arrest and antitumor activity of pironetin and its derivatives. <i>Cancer Letters</i> , 1998, 126, 29-32.	3.2	94
6	Asymmetric, stereocontrolled total synthesis of (+) and ( $\beta$ )-spirotryprostatin B via a diastereoselective azomethine ylide [1,3]-dipolar cycloaddition reaction. <i>Tetrahedron</i> , 2002, 58, 6311-6322.	1.0	90
7	Synthesis and Structure-Activity Relationship Study of Antimicrotubule Agents Phenylahistin Derivatives with a Didehydropiperazine-2,5-dione Structure. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 1056-1071.	2.9	88
8	Synthesis of a Tetronic Acid Library Focused on Inhibitors of Tyrosine and Dual-Specificity Protein Phosphatases and Its Evaluation Regarding VHR and Cdc25B Inhibition. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 3216-3222.	2.9	85
9	Isolation of New Protein Phosphatase Inhibitors from Two Cyanobacteria Species, <i>Planktothrix</i> spp.. <i>Journal of Natural Products</i> , 2001, 64, 1052-1055.	1.5	82
10	Application of Proteomic Profiling Based on 2D-DIGE for Classification of Compounds According to the Mechanism of Action. <i>Chemistry and Biology</i> , 2010, 17, 460-470.	6.2	82
11	The XMAP215 homologue Stu2 at yeast spindle pole bodies regulates microtubule dynamics and anchorage. <i>EMBO Journal</i> , 2003, 22, 4779-4793.	3.5	71
12	Amphidinolide H, a Potent Cytotoxic Macrolide, Covalently Binds on Actin Subdomain 4 and Stabilizes Actin Filament. <i>Chemistry and Biology</i> , 2004, 11, 1269-1277.	6.2	70
13	Identification of Cytochrome P450s Required for Fumitremorgin Biosynthesis in <i>Aspergillus fumigatus</i> . <i>ChemBioChem</i> , 2009, 10, 920-928.	1.3	69
14	Identification of <i>Saccharomyces cerevisiae</i> Isoleucyl-tRNA Synthetase as a Target of the G1-specific Inhibitor Reveromycin A. <i>Journal of Biological Chemistry</i> , 2002, 277, 28810-28814.	1.6	67
15	Identification of a strong binding site for kinesin on the microtubule using mutant analysis of tubulin. <i>EMBO Journal</i> , 2006, 25, 5932-5941.	3.5	60
16	Synthesis and Evaluation of Tryprostatin B and Demethoxyfumitremorgin C Analogues. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 1577-1585.	2.9	58
17	Inhibition of Microtubule Assembly by a Complex of Actin and Antitumor Macrolide Aplyronine A. <i>Journal of the American Chemical Society</i> , 2013, 135, 18089-18095.	6.6	54
18	Syntheses and Biological Evaluation of Irciniastatin A and the C1 $\rightarrow$ C2 Alkyne Analogue. <i>Organic Letters</i> , 2010, 12, 1040-1043.	2.4	52

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19	The Reversible Increase in Tight Junction Permeability Induced by Capsaicin Is Mediated via Cofilin-Actin Cytoskeletal Dynamics and Decreased Level of Occludin. <i>PLoS ONE</i> , 2013, 8, e79954.	1.1	51
20	Synthesis and evaluation of microtubule assembly inhibition and cytotoxicity of prenylated derivatives of cyclo-l-Trp-l-Pro. <i>Bioorganic and Medicinal Chemistry</i> , 2000, 8, 2407-2415.	1.4	48
21	Bitungolides A-F, New Polyketides from the Indonesian Sponge <i>Theonella swinhoei</i> . <i>Journal of Natural Products</i> , 2002, 65, 1820-1823.	1.5	48
22	The $\beta$ -tubulin-specific inhibitor gatastatin reveals temporal requirements of microtubule nucleation during the cell cycle. <i>Nature Communications</i> , 2015, 6, 8722.	5.8	47
23	Design and synthesis of a dimeric derivative of RK-682 with increased inhibitory activity against VHR, a dual-specificity ERK phosphatase: implications for the molecular mechanism of the inhibition. <i>Chemistry and Biology</i> , 2001, 8, 1209-1220.	6.2	44
24	4-Isoavenaciolide covalently binds and inhibits VHR, a dual-specificity phosphatase. <i>FEBS Letters</i> , 2002, 525, 48-52.	1.3	41
25	Lejimalides Show Anti-Osteoclast Activity via V-ATPase Inhibition. <i>Bioscience, Biotechnology and Biochemistry</i> , 2006, 70, 1364-1370.	0.6	41
26	Synthesis and structure-activity relationships of benzophenone-bearing diketopiperazine-type anti-microtubule agents. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 4279-4289.	1.4	40
27	Effects of Tryprostatin Derivatives on Microtubule Assembly In Vitro and In Situ. <i>Journal of Antibiotics</i> , 1998, 51, 801-804.	1.0	39
28	Synthesis of Pironetin and Related Analogs. Studies on Structure-Activity Relationships as Tubulin Assembly Inhibitors. <i>Journal of Antibiotics</i> , 2000, 53, 540-545.	1.0	39
29	Brasilicardin A, a Natural Immunosuppressant, Targets Amino Acid Transport System L. <i>Chemistry and Biology</i> , 2006, 13, 1153-1160.	6.2	39
30	Biochemical Differences between Staurosporine-Induced Apoptosis and Premature Mitosis. <i>Experimental Cell Research</i> , 1997, 232, 225-239.	1.2	34
31	Glaziovianin A, a new isoflavone, from the leaves of <i>Ateleia glazioviana</i> and its cytotoxic activity against human cancer cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 3091-3094.	1.0	34
32	Development of a New Benzophenone-Diketopiperazine-Type Potent Antimicrotubule Agent Possessing a 2-Pyridine Structure. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 1094-1098.	1.3	33
33	Irciniastatin A induces JNK activation that is involved in caspase-8-dependent apoptosis via the mitochondrial pathway. <i>Toxicology Letters</i> , 2010, 199, 341-346.	0.4	32
34	Chemical modification of reveromycin A and its biological activities. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2002, 12, 3363-3366.	1.0	28
35	Construction of Multidrug-Sensitive Yeast with High Sporulation Efficiency. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 1588-1593.	0.6	24
36	Phosphatidylinositol-3 Kinase in Fission Yeast: A Possible Role in Stress Responses. <i>Bioscience, Biotechnology and Biochemistry</i> , 1995, 59, 678-682.	0.6	23

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37	Terpendole E and its Derivative Inhibit STLC and GSK3 $\beta$ -Resistant Eg5. <i>ChemBioChem</i> , 2014, 15, 934-938.	1.3	23
38	Total Synthesis and Biological Evaluation of Irciniastatin A (a.k.a. Psymberin) and Irciniastatin B. <i>Journal of Organic Chemistry</i> , 2015, 80, 12333-12350.	1.7	22
39	Microarray-based target identification using drug hypersensitive fission yeast expressing ORFeome. <i>Molecular BioSystems</i> , 2011, 7, 1463.	2.9	21
40	Design, synthesis, and biological evaluation of the analogues of glaziovianin A, a potent antitumor isoflavone. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 5745-5756.	1.4	20
41	Tetrandrine induces lipid accumulation through blockade of autophagy in a hepatic stellate cell line. <i>Biochemical and Biophysical Research Communications</i> , 2016, 477, 40-46.	1.0	20
42	TRPA1-dependent reversible opening of tight junction by natural compounds with an $\alpha,\beta$ -unsaturated moiety and capsaicin. <i>Scientific Reports</i> , 2018, 8, 2251.	1.6	20
43	Phenothiazine and carbazole-related compounds inhibit mitotic kinesin Eg5 and trigger apoptosis in transformed culture cells. <i>Toxicology Letters</i> , 2006, 166, 44-52.	0.4	18
44	Garbled messages and corrupted translations. <i>Nature Chemical Biology</i> , 2010, 6, 189-198.	3.9	18
45	Glaziovianin A Prevents Endosome Maturation via Inhibiting Microtubule Dynamics. <i>ACS Chemical Biology</i> , 2013, 8, 884-889.	1.6	18
46	Discovery of Natural Products Possessing Selective Eukaryotic Readthrough Activity: Deoxyneogamycin and Its Leucine Adduct. <i>ChemMedChem</i> , 2014, 9, 2233-2237.	1.6	18
47	Actin- and Microtubule-Targeting Bioprobes: Their Binding Sites and Inhibitory Mechanisms. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 300-308.	0.6	17
48	Protective effects of <i>Nitraria retusa</i> extract and its constituent isorhamnetin against amyloid $\beta$ -induced cytotoxicity and amyloid $\beta$ aggregation. <i>Bioscience, Biotechnology and Biochemistry</i> , 2015, 79, 1548-1551.	0.6	17
49	Synthesis and biological activities of reveromycin A and spirofungin A derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 3756-3760.	1.0	16
50	Fungal Metabolite, Epoxyquinol B, Crosslinks Proteins by Epoxy-thiol Conjugation. <i>Journal of Antibiotics</i> , 2008, 61, 94-97.	1.0	16
51	Structure-activity relationship study of glaziovianin A against cell cycle progression and spindle formation of HeLa S3 cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 5402-5404.	1.0	16
52	Eudistomin C, an Antitumor and Antiviral Natural Product, Targets 40S Ribosome and Inhibits Protein Translation. <i>ChemBioChem</i> , 2016, 17, 1616-1620.	1.3	13
53	Vicenistatin induces early endosome-derived vacuole formation in mammalian cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 902-910.	0.6	13
54	Pestynol, an Antifungal Compound Discovered Using a <i>Saccharomyces cerevisiae</i> $\beta$ -OHSR-iERG6-Based Assay. <i>Journal of Natural Products</i> , 2018, 81, 1604-1609.	1.5	13

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55	Fusaramin, an antimicrobial compound produced by <i>Fusarium</i> sp., discovered using multidrug-sensitive <i>Saccharomyces cerevisiae</i> . <i>Journal of Antibiotics</i> , 2019, 72, 645-652.	1.0	13
56	Non-electrophilic TRPA1 agonists, menthol, carvacrol and clotrimazole, open epithelial tight junctions via TRPA1 activation. <i>Journal of Biochemistry</i> , 2020, 168, 407-415.	0.9	13
57	Antiproliferating activity of the mitotic inhibitor pironetin against vindesine- and paclitaxel-resistant human small cell lung cancer H69 cells. <i>Anticancer Research</i> , 2007, 27, 729-36.	0.5	12
58	A K-252a-resistance gene, <i>sksl+</i> , encodes a protein similar to the <i>Caenorhabditis elegans</i> F37A4.5 gene product and confers multidrug resistance in <i>Schizosaccharomyces pombe</i> . <i>Gene</i> , 1995, 161, 93-96.	1.0	11
59	Effect of Dehydroaltenusin-C12 Derivative, a Selective DNA Polymerase $\alpha$ Inhibitor, on DNA Replication in Cultured Cells. <i>Molecules</i> , 2008, 13, 2948-2961.	1.7	11
60	Bafilomycin L, a new inhibitor of cholesteryl ester synthesis in mammalian cells, produced by marine-derived <i>Streptomyces</i> sp. OPMA00072. <i>Journal of Antibiotics</i> , 2015, 68, 126-132.	1.0	10
61	Discovery of O6-benzyl glaziovianin A, a potent cytotoxic substance and a potent inhibitor of $\alpha$ , $\beta$ -tubulin polymerization. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 5639-5645.	1.4	10
62	Structure-Activity Relationship Study of Leucyl-3-epi-deoxyneomycin for Potent Premature Termination Codon Readthrough. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 1060-1065.	1.3	10
63	A novel HSP70 gene of <i>Schizosaccharomyces pombe</i> that confers K-252a resistance. <i>Gene</i> , 1997, 189, 43-47.	1.0	9
64	Nordihydroguaiaretic Acid, of a New Family of Microtubule-stabilizing Agents, Shows Effects Differentiated from Paclitaxel. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 151-157.	0.6	9
65	Construction of a genetic analysis-available multidrug sensitive yeast strain by disruption of the drug efflux system and conditional repression of the membrane barrier system. <i>Journal of General and Applied Microbiology</i> , 2014, 60, 160-162.	0.4	9
66	Synthesis and structure-activity relationship study of FD-891: importance of the side chain and C8-C9 epoxide for cytotoxic activity against cancer cells. <i>Journal of Antibiotics</i> , 2016, 69, 287-293.	1.0	9
67	Transient receptor potential V4 channel stimulation induces reversible epithelial cell permeability in MDCK cell monolayers. <i>FEBS Letters</i> , 2019, 593, 2250-2260.	1.3	9
68	The cytotoxic macrolide FD-891 induces caspase-8-dependent mitochondrial release of cytochrome c and subsequent apoptosis in human leukemia Jurkat cells. <i>Journal of Antibiotics</i> , 2009, 62, 507-512.	1.0	8
69	Iejimalide C Is a Potent V-ATPase Inhibitor, and Induces Actin Disorganization. <i>Biological and Pharmaceutical Bulletin</i> , 2014, 37, 1944-1947.	0.6	8
70	Irciniastatin A Induces Potent and Sustained Activation of Extracellular Signal-Regulated Kinase and Thereby Promotes Ectodomain Shedding of Tumor Necrosis Factor Receptor 1 in Human Lung Carcinoma A549 Cells. <i>Biological and Pharmaceutical Bulletin</i> , 2015, 38, 941-946.	0.6	8
71	Pesticandin, a new papulacandin class antibiotic isolated from <i>Pestalotiopsis humus</i> . <i>Journal of Antibiotics</i> , 2018, 71, 1031-1035.	1.0	8
72	Pyrenocine A induces monopolar spindle formation and suppresses proliferation of cancer cells. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 115149.	1.4	8

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73	Irciniastatin A, a pederin-type translation inhibitor, promotes ectodomain shedding of cell-surface tumor necrosis factor receptor 1. <i>Journal of Antibiotics</i> , 2015, 68, 417-420.	1.0	7
74	Mutational Biosynthesis of Hitachimycin Analogs Controlled by the $\hat{I}^2$ -Amino Acidâ€™Selective Adenylation Enzyme HitB. <i>ACS Chemical Biology</i> , 2021, 16, 539-547.	1.6	7
75	MAO26, an anti-hepatitis C virus compound, opens tight junctions of the epithelial cell membrane. <i>Journal of Antibiotics</i> , 2017, 70, 691-694.	1.0	6
76	A novel translation inhibitor, mersicarpine, inhibits S-phase progression and induces apoptosis in HL60 cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 92-96.	0.6	6
77	Design and Synthesis of 24-Fluorinated Bafilomycin Analogue as an NMR Probe with Potent Inhibitory Activity to Vacuolar-type ATPase. <i>Chemistry Letters</i> , 2014, 43, 474-476.	0.7	5
78	Bafilomycin analogue site-specifically fluorinated at the pharmacophore macrolactone ring has potent vacuolar-type ATPase inhibitory activity. <i>Tetrahedron Letters</i> , 2016, 57, 2426-2429.	0.7	5
79	Structure Optimization of Gatastatin for the Development of $\hat{I}^3$ -Tubulin-Specific Inhibitor. <i>ACS Medicinal Chemistry Letters</i> , 2020, 11, 1125-1129.	1.3	5
80	Structural Revision of Natural Cyclic Depsipeptide MAO26 Established by Total Synthesis and Biosynthetic Gene Cluster Analysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8792-8797.	7.2	5
81	High-throughput platform for yeast morphological profiling predicts the targets of bioactive compounds. <i>Npj Systems Biology and Applications</i> , 2022, 8, 3.	1.4	5
82	Regulating Microtubule Properties by Modifying their Organizing Minus Ends. <i>Molecular Cell</i> , 2001, 8, 931-932.	4.5	4
83	A cell-based screening to detect inhibitors of BRAF signaling pathway. <i>Journal of Antibiotics</i> , 2009, 62, 105-107.	1.0	4
84	Dual Inhibition of $\hat{I}^3$ -Tubulin and Plk1 Induces Mitotic Cell Death. <i>Frontiers in Pharmacology</i> , 2020, 11, 620185.	1.6	4
85	Traminines A and B, produced by <i>Fusarium concentricum</i> , inhibit oxidative phosphorylation in <i>Saccharomyces cerevisiae</i> mitochondria. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2021, 48, .	1.4	4
86	Structureâ€™Activity Relationships of Terpendole E and Its Natural Derivatives.. <i>ChemistrySelect</i> , 2017, 2, 1533-1536.	0.7	3
87	Structureâ€™Activity Relationship Study of Gatastatin Based on the Topliss Tree Approach. <i>Heterocycles</i> , 2019, 99, 238.	0.4	3
88	Multidrug Sensitive Yeast Strains, Useful Tools for Chemical Genetics. , 2018, , .		1
89	Stimulation of microtubule-based transport by nucleation of microtubules on pigment granules. <i>Molecular Biology of the Cell</i> , 2017, 28, 1418-1425.	0.9	0
90	Structural Revision of Natural Cyclic Depsipeptide MAO26 Established by Total Synthesis and Biosynthetic Gene Cluster Analysis. <i>Angewandte Chemie</i> , 2021, 133, 8874-8879.	1.6	0

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91	Development of Gatastatin G2, a $\beta$ -Tubulin-specific Inhibitor. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2022, 80, 563-573.	0.0	0