

Mari Yotsu-Yamashita

List of Publications by Year in descending order

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78
papers

2,734
citations

136885

32
h-index

197736

49
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79
all docs

79
docs citations

79
times ranked

1352
citing authors

#	ARTICLE	IF	CITATIONS
1	Purification, characterization, and cDNA cloning of a novel soluble saxitoxin and tetrodotoxin binding protein from plasma of the puffer fish, <i>Fugu pardalis</i> . <i>FEBS Journal</i> , 2001, 268, 5937-5946.	0.2	124
2	Electrospray Ionization Mass Spectrometry of Tetrodotoxin and Its Analogs: Liquid Chromatography/Mass Spectrometry, Tandem Mass Spectrometry, and Liquid Chromatography/Tandem Mass Spectrometry. <i>Analytical Biochemistry</i> , 2001, 290, 10-17.	1.1	120
3	First Identification of 5,11-Dideoxytetrodotoxin in Marine Animals, and Characterization of Major Fragment Ions of Tetrodotoxin and Its Analogs by High Resolution ESI-MS/MS. <i>Marine Drugs</i> , 2013, 11, 2799-2813.	2.2	99
4	Title is missing!. <i>Journal of Chemical Ecology</i> , 1999, 25, 2161-2175.	0.9	94
5	The structure of zeteketoxin AB, a saxitoxin analog from the Panamanian golden frog <i>Atelopus zeteki</i> : A potent sodium-channel blocker. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 4346-4351.	3.3	93
6	Ecological functions of tetrodotoxin in a deadly polyclad flatworm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3176-3179.	3.3	87
7	CHEMISTRY OF PUFFER FISH TOXIN. <i>Toxin Reviews</i> , 2001, 20, 51-66.	1.5	84
8	Chemical and Etiological Studies on Tetrodotoxin and Its Analogs. <i>Toxin Reviews</i> , 1996, 15, 81-90.	1.5	80
9	Accumulation of tetrodotoxin and 4,9-anhydrotetrodotoxin in cultured juvenile kusafugu <i>Fugu niphobles</i> by dietary administration of natural toxic komonfugu <i>Fugu poecilonotus</i> liver. <i>Toxicon</i> , 2008, 51, 1269-1273.	0.8	73
10	5,6,11-trideoxytetrodotoxin from the puffer fish, <i>fugu poecilonotus</i> . <i>Tetrahedron Letters</i> , 1995, 36, 9329-9332.	0.7	70
11	Hydrophilic interaction liquid chromatography–electrospray ionization mass spectrometry of tetrodotoxin and its analogs. <i>Analytical Biochemistry</i> , 2006, 352, 142-144.	1.1	68
12	Interactions of the C-11 Hydroxyl of Tetrodotoxin with the Sodium Channel Outer Vestibule. <i>Biophysical Journal</i> , 2003, 84, 287-294.	0.2	67
13	Two Cytochrome P450 Monooxygenases Catalyze Early Hydroxylation Steps in the Potato Steroid Glycoalkaloid Biosynthetic Pathway. <i>Plant Physiology</i> , 2016, 171, 2458-2467.	2.3	67
14	Binding Properties of 3H-PbTx-3 and 3H-Saxitoxin to Brain Membranes and to Skeletal Muscle Membranes of Puffer Fish <i>Fugu pardalis</i> and the Primary Structure of a Voltage-Gated Na ⁺ Channel α -Subunit (α 1) from Skeletal Muscle of <i>F. pardalis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2000, 267, 403-412.	1.0	64
15	LC/MS Analysis of Tetrodotoxin and Its Deoxy Analogs in the Marine Puffer Fish <i>Fugu niphobles</i> from the Southern Coast of Korea, and in the Brackishwater Puffer Fishes <i>Tetraodon nigroviridis</i> and <i>Tetraodon biocellatus</i> from Southeast Asia. <i>Marine Drugs</i> , 2010, 8, 1049-1058.	2.2	64
16	Isolation and Structural Determination of the First 8-epi-type Tetrodotoxin Analogs from the Newt, <i>Cynops ensicauda popei</i> , and Comparison of Tetrodotoxin Analogs Profiles of This Newt and the Puffer Fish, <i>Fugu poecilonotus</i> . <i>Marine Drugs</i> , 2012, 10, 655-667.	2.2	56
17	Isolation and Structural Assignment of 5-Deoxytetrodotoxin from the Puffer Fish <i>Fugu poecilonotus</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1999, 63, 961-963.	0.6	52
18	Synthesis and identification of proposed biosynthetic intermediates of saxitoxin in the cyanobacterium <i>Anabaena circinalis</i> (TA04) and the dinoflagellate <i>Alexandrium tamarense</i> (Axat-2). <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 3016-3020.	1.5	52

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19	Differential binding of tetrodotoxin and its derivatives to voltage-sensitive sodium channel subtypes (Na v 1.1 to Na v 1.7). <i>British Journal of Pharmacology</i> , 2017, 174, 3881-3892.	2.7	52
20	6,11-Dideoxytetrodotoxin from the puffer fish, <i>Fugu pardalis</i> . <i>Toxicon</i> , 2007, 50, 947-951.	0.8	51
21	Variability of tetrodotoxin and of its analogues in the red-spotted newt, <i>Notophthalmus viridescens</i> (Amphibia: Urodela: Salamandridae). <i>Toxicon</i> , 2012, 59, 257-264.	0.8	51
22	Tetrodotoxin and its analogue 6-epitetrodotoxin in newts (<i>Triturus</i> spp.; Urodela, Salamandridae) from southern Germany. <i>Toxicon</i> , 2007, 50, 306-309.	0.8	48
23	Distribution of homologous proteins to puffer fish saxitoxin and tetrodotoxin binding protein in the plasma of puffer fish and among the tissues of <i>Fugu pardalis</i> examined by Western blot analysis. <i>Toxicon</i> , 2010, 55, 1119-1124.	0.8	47
24	Optimization of simultaneous analysis of tetrodotoxin, 4-epitetrodotoxin, 4,9-anhydrotetrodotoxin, and 5,6,11-trideoxytetrodotoxin by hydrophilic interaction liquid chromatography-tandem mass spectrometry. <i>Forensic Toxicology</i> , 2011, 29, 61-64.	1.4	44
25	Occurrence of 11-oxotetrodotoxin in the red-spotted newt, <i>Notophthalmus viridescens</i> , and further studies on the levels of tetrodotoxin and its analogues in the newt's efts. <i>Toxicon</i> , 2003, 41, 893-897.	0.8	42
26	Spiro Bicyclic Guanidino Compounds from Pufferfish: Possible Biosynthetic Intermediates of Tetrodotoxin in Marine Environments. <i>Chemistry - A European Journal</i> , 2018, 24, 7250-7258.	1.7	41
27	C5-C10 Directly Bonded Tetrodotoxin Analogues: Possible Biosynthetic Precursors of Tetrodotoxin From Newts. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14546-14549.	7.2	40
28	Isolation of 6-Deoxytetrodotoxin from the Pufferfish, <i>Takifugu pardalis</i> , and a Comparison of the Effects of the C-6 and C-11 Hydroxy Groups of Tetrodotoxin on Its Activity. <i>Journal of Natural Products</i> , 2014, 77, 1000-1004.	1.5	39
29	Examination of transformation among tetrodotoxin and its analogs in the living cultured juvenile puffer fish, <i>kusafugu</i> , <i>Fugu niphobles</i> by intramuscular administration. <i>Toxicon</i> , 2008, 52, 714-720.	0.8	38
30	Cyclic Guanidine Compounds from Toxic Newts Support the Hypothesis that Tetrodotoxin is Derived from a Monoterpene. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8728-8731.	7.2	38
31	Biological activity of 8,11-dideoxytetrodotoxin: lethality to mice and the inhibitory activity to cytotoxicity of ouabain and veratridine in mouse neuroblastoma cells, <i>Neuro-2a</i> . <i>Toxicon</i> , 2003, 42, 557-560.	0.8	34
32	Localization of pufferfish saxitoxin and tetrodotoxin binding protein (PSTBP) in the tissues of the pufferfish, <i>Takifugu pardalis</i> , analyzed by immunohistochemical staining. <i>Toxicon</i> , 2013, 72, 23-28.	0.8	33
33	Synthesis of a Tricyclic Bisguanidine Compound Structurally Related to Saxitoxin and its Identification in Paralytic Shellfish Toxin-Producing Microorganisms. <i>Chemistry - A European Journal</i> , 2015, 21, 7835-7840.	1.7	31
34	Biosynthetic route towards saxitoxin and shunt pathway. <i>Scientific Reports</i> , 2016, 6, 20340.	1.6	31
35	Six domoic acid related compounds from the red alga, <i>Chondria armata</i> , and domoic acid biosynthesis by the diatom, <i>Pseudo-nitzschia multiseries</i> . <i>Scientific Reports</i> , 2018, 8, 356.	1.6	30
36	Synthesis of Skeletal Analogues of Saxitoxin Derivatives and Evaluation of Their Inhibitory Activity on Sodium Ion Channels Na ^v 1.4 and Na ^v 1.5. <i>Chemistry - A European Journal</i> , 2011, 17, 12144-12152.	1.7	26

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37	Synthesis and Identification of Key Biosynthetic Intermediates for the Formation of the Tricyclic Skeleton of Saxitoxin. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5327-5331.	7.2	25
38	Pufferfish Saxitoxin and Tetrodotoxin Binding Protein (PSTBP) Analogues in the Blood Plasma of the Pufferfish <i>Arothron nigropunctatus</i> , <i>A. hispidus</i> , <i>A. manilensis</i> , and <i>Chelonodon patoca</i> . <i>Marine Drugs</i> , 2018, 16, 224.	2.2	25
39	Synthesis of 5 α - and 8 α -Deoxytetrodotoxin. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1922-1932.	1.7	24
40	Spectroscopic and structural investigation on intermediates species structurally associated to the tricyclic bisguanidine compound and to the toxic agent, saxitoxin. <i>Journal of Molecular Structure</i> , 2016, 1119, 25-38.	1.8	24
41	Tetrodotoxin and Its Analogues in the Pufferfish <i>Arothron hispidus</i> and <i>A. nigropunctatus</i> from the Solomon Islands: A Comparison of Their Toxin Profiles with the Same Species from Okinawa, Japan. <i>Toxins</i> , 2015, 7, 3436-3454.	1.5	23
42	Total Synthesis of 11 α -Saxitoxinethanoic Acid and Evaluation of its Inhibitory Activity on Voltage-Gated Sodium Channels. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11600-11603.	7.2	23
43	Tetrodotoxin in Asian newts (<i>Salamandridae</i>). <i>Toxicon</i> , 2017, 134, 14-17.	0.8	23
44	Mutual Binding Inhibition of Tetrodotoxin and Saxitoxin to Their Binding Protein from the Plasma of the Puffer Fish, <i>Fugu pardalis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 2520-2524.	0.6	22
45	Confirmation of the absence of tetrodotoxin and its analogues in the juveniles of the Japanese fire-bellied newt, <i>Cynops pyrrhogaster</i> , captive-reared from eggs in the laboratory using HILIC-LC-MS. <i>Toxicon</i> , 2015, 101, 101-105.	0.8	22
46	Dietary administration of tetrodotoxin and its putative biosynthetic intermediates to the captive-reared non-toxic Japanese fire-bellied newt, <i>Cynops pyrrhogaster</i> . <i>Toxicon</i> , 2017, 137, 78-82.	0.8	21
47	Temporal Variation of the Profile and Concentrations of Paralytic Shellfish Toxins and Tetrodotoxin in the Scallop, <i>Patinopecten yessoensis</i> , Cultured in a Bay of East Japan. <i>Marine Drugs</i> , 2019, 17, 653.	2.2	21
48	Synthesis of saxitoxin derivatives bearing guanidine and urea groups at C13 and evaluation of their inhibitory activity on voltage-gated sodium channels. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 6642.	1.5	20
49	Isolation and Biological Activity of 8- <i>Epi</i> tetrodotoxin and the Structure of a Possible Biosynthetic Shunt Product of Tetrodotoxin, Cep-226A, from the Newt <i>Cynops ensicauda popei</i> . <i>Journal of Natural Products</i> , 2019, 82, 1656-1663.	1.5	20
50	Total Syntheses and Determination of Absolute Configurations of Cep-212 and Cep-210, Predicted Biosynthetic Intermediates of Tetrodotoxin Isolated from Toxic Newt. <i>Organic Letters</i> , 2019, 21, 780-784.	2.4	20
51	Structures of <i>N</i> -Hydroxy-Type Tetrodotoxin Analogues and Bicyclic Guanidinium Compounds Found in Toxic Newts. <i>Journal of Natural Products</i> , 2020, 83, 2706-2717.	1.5	20
52	The presence of 12 β -deoxydecarbamoylsaxitoxin in the Japanese toxic dinoflagellate <i>Alexandrium</i> determined by simultaneous analysis for paralytic shellfish toxins using HILIC-LC-MS/MS. <i>Harmful Algae</i> , 2015, 49, 58-67.	2.2	19
53	The voltage-gated sodium ion channel inhibitory activities of a new tetrodotoxin analogue, 4,4a-anhydrotetrodotoxin, and three other analogues evaluated by colorimetric cell-based assay. <i>Toxicon</i> , 2016, 119, 72-76.	0.8	18
54	Column switching combined with hydrophilic interaction chromatography-tandem mass spectrometry for the analysis of saxitoxin analogues, and their biosynthetic intermediates in dinoflagellates. <i>Journal of Chromatography A</i> , 2016, 1474, 109-120.	1.8	17

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55	Metabolomic study of saxitoxin analogues and biosynthetic intermediates in dinoflagellates using ¹⁵ N-labelled sodium nitrate as a nitrogen source. <i>Scientific Reports</i> , 2019, 9, 3460.	1.6	17
56	Domoic acid biosynthesis in the red alga <i>Chondria armata</i> suggests a complex evolutionary history for toxin production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	16
57	Selective Blocking Effects of 4,9-Anhydrotetrodotoxin, Purified from a Crude Mixture of Tetrodotoxin Analogues, on NaV1.6 Channels and Its Chemical Aspects. <i>Marine Drugs</i> , 2015, 13, 984-995.	2.2	14
58	Identification of a Novel Saxitoxin Analogue, 12 ¹² -Deoxygonyautoxin 3, in the Cyanobacterium, <i>Anabaena circinalis</i> (TA04). <i>Toxins</i> , 2019, 11, 539.	1.5	12
59	Synthesis of C12 ¹² -Keto Saxitoxin Derivatives with Unusual Inhibitory Activity Against Voltage ¹² -Gated Sodium Channels. <i>Chemistry - A European Journal</i> , 2020, 26, 2025-2033.	1.7	12
60	Identification of Tricyclic Guanidino Compounds from the Tetrodotoxin-Bearing Newt <i>Taricha granulosa</i> . <i>Organic Letters</i> , 2021, 23, 3513-3517.	2.4	12
61	Resurgent-like currents in mouse vas deferens myocytes are mediated by NaV1.6 voltage-gated sodium channels. <i>Pflugers Archiv European Journal of Physiology</i> , 2012, 464, 493-502.	1.3	11
62	Quantitation of Tetrodotoxin and Its Analogues with a Combination of Liquid Chromatography ¹² -Tandem Mass Spectrometry and Quantitative ¹² H-NMR Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 12911-12917.	2.4	11
63	SxtA localizes to chloroplasts and changes to its 3 ¹² UTR may reduce toxin biosynthesis in non-toxic <i>Alexandrium catenella</i> (Group I) ¹² . <i>Harmful Algae</i> , 2021, 101, 101972.	2.2	10
64	Tetrodotoxin Framework Construction from Linear Substrates Utilizing a Hg(OTf) ₂ -Catalyzed Cycloisomerization Reaction: Synthesis of the Unnatural Analogue 11 ¹² -6,7,8-Trideoxytetrodotoxin. <i>Organic Letters</i> , 2021, 23, 1703-1708.	2.4	9
65	Possible Biosynthetic Products and Metabolites of Kainic Acid from the Red Alga <i>Digenea simplex</i> and Their Biological Activity. <i>Journal of Natural Products</i> , 2019, 82, 1627-1633.	1.5	8
66	Acquiring toxicity of a newt, <i>Cynops orientalis</i> . <i>Toxicon</i> , 2021, 198, 32-35.	0.8	8
67	Cyclic Guanidine Compounds from Toxic Newts Support the Hypothesis that Tetrodotoxin is Derived from a Monoterpene. <i>Angewandte Chemie</i> , 2016, 128, 8870-8873.	1.6	7
68	Total Synthesis of 11 ¹² -Saxitoxinethanoic Acid and Evaluation of its Inhibitory Activity on Voltage ¹² -Gated Sodium Channels. <i>Angewandte Chemie</i> , 2016, 128, 11772-11775.	1.6	7
69	Two new skeletal analogues of saxitoxin found in the scallop, <i>Patinopecten yessoensis</i> , as possible metabolites of paralytic shellfish toxins. <i>Chemosphere</i> , 2021, 278, 130224.	4.2	7
70	Preparation of domoic acid analogues using a bioconversion system, and their toxicity in mice. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 7894-7902.	1.5	5
71	Geographic range expansion of tetrodotoxin in amphibians ¹² First record in <i>Atelopus hoogmoedi</i> from the Guiana Shield. <i>Toxicon</i> , 2018, 150, 175-179.	0.8	4
72	First Identification of 12 ¹² -Deoxygonyautoxin 5 (12 ¹² -Gonyautoxinol 5) in the Cyanobacterium <i>Dolichospermum circinale</i> (TA04) and 12 ¹² -Deoxysaxitoxin (12 ¹² -Saxitoxinol) in <i>D. circinale</i> (TA04) and the Dinoflagellate <i>Alexandrium pacificum</i> (Group IV) (120518KureAC). <i>Marine Drugs</i> , 2022, 20, 166.	2.2	3

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73	Chemical Ecology of the North American Newt Genera <i>Taricha</i> and <i>Notophthalmus</i> . <i>Progress in the Chemistry of Organic Natural Products</i> , 2022, 118, 101-130.	0.8	3
74	Synthesis and Identification of Key Biosynthetic Intermediates for the Formation of the Tricyclic Skeleton of Saxitoxin. <i>Angewandte Chemie</i> , 2017, 129, 5411-5415.	1.6	2
75	A study on the genetic population structure and the tetrodotoxin content of rough-skinned newts, <i>Taricha granulosa</i> (Salamandridae), from their northern range of distribution. <i>Toxicon</i> , 2022, 206, 38-41.	0.8	2
76	Effects of 4,9-anhydrotetrodotoxin on voltage-gated Na ⁺ channels of mouse vas deferens myocytes and recombinant NaV1.6 channels. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2018, 391, 489-499.	1.4	1
77	The Synthesis of Simplified Analogues of Crambescin B Carboxylic Acid and Their Inhibitory Activity of Voltage-Gated Sodium Channels: New Aspects of Structure-Activity Relationships. <i>Heterocycles</i> , 2022, 105, 343.	0.4	0
78	First record of the diatom <i>Nitzschia navis-varingica</i> (Bacillariophyceae) producing amnesic shellfish poisoning-toxins from Papua New Guinea. <i>Toxicon</i> , 2022, 216, 65-72.	0.8	0