

Mari Yotsu-Yamashita

List of Publications by Year in Descending Order

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Version: 2024-04-27

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

75
papers

2,146
citations

29
h-index

44
g-index

79
ext. papers

2,492
ext. citations

4.6
avg, IF

4.87
L-index

#	Paper	IF	Citations
75	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	1.9	
74	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> , 2021 , 206, 38-41	2.8	0
73	Identification of Tricyclic Guanidino Compounds from the Tetrodotoxin-Bearing Newt. <i>Organic Letters</i> , 2021 , 23, 3513-3517	6.2	3
72	SxtA localizes to chloroplasts and changes to its 3'RTR may reduce toxin biosynthesis in non-toxic <i>Alexandrium catenella</i> (Group I). <i>Harmful Algae</i> , 2021 , 101, 101972	5.3	2
71	Preparation of domoic acid analogues using a bioconversion system, and their toxicity in mice. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 7894-7902	3.9	0
70	Tetrodotoxin Framework Construction from Linear Substrates Utilizing a Hg(OTf)-Catalyzed Cycloisomerization Reaction: Synthesis of the Unnatural Analogue 11--6,7,8-Trideoxytetrodotoxin. <i>Organic Letters</i> , 2021 , 23, 1703-1708	6.2	3
69	Acquiring toxicity of a newt, <i>Cynops orientalis</i> . <i>Toxicon</i> , 2021 , 198, 32-35	2.8	2
68	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	8.4	1
67	Synthesis of C12-Keto Saxitoxin Derivatives with Unusual Inhibitory Activity Against Voltage-Gated Sodium Channels. <i>Chemistry - A European Journal</i> , 2020 , 26, 2025-2033	4.8	6
66	Structures of -Hydroxy-Type Tetrodotoxin Analogues and Bicyclic Guanidinium Compounds Found in Toxic Newts. <i>Journal of Natural Products</i> , 2020 , 83, 2706-2717	4.9	8
65	Identification of a Novel Saxitoxin Analogue, 12-Deoxygonyautoxin 3, in the Cyanobacterium, (TA04). <i>Toxins</i> , 2019 , 11,	4.9	8
64	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	4.9	6
63	Isolation and Biological Activity of 8-Epitetrodotoxin 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	4.9	14
62	Metabolomic study of saxitoxin analogues and biosynthetic intermediates in dinoflagellates using N-labelled sodium nitrate as a nitrogen source. <i>Scientific Reports</i> , 2019 , 9, 3460	4.9	13
61	Quantitation of Tetrodotoxin and Its Analogues with a Combination of Liquid Chromatography-Tandem Mass Spectrometry and Quantitative H-NMR Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2019 , 67, 12911-12917	5.7	5
60	Temporal Variation of the Profile and Concentrations of Paralytic Shellfish Toxins and Tetrodotoxin in the Scallop, Cultured in a Bay of East Japan. <i>Marine Drugs</i> , 2019 , 17,	6	8
59	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	6.2	10

58	Effects of 4,9-anhydrotetrodotoxin on voltage-gated Na channels of mouse vas deferens myocytes and recombinant Na _{1.6} channels. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2018 , 391, 489-499	3.4	1
57	Spiro Bicyclic Guanidino Compounds from Pufferfish: Possible Biosynthetic Intermediates of Tetrodotoxin in Marine Environments. <i>Chemistry - A European Journal</i> , 2018 , 24, 7250-7258	4.8	26
56	Six domoic acid related compounds from the red alga, <i>Chondria armata</i> , and domoic acid biosynthesis by the diatom, <i>Pseudo-nitzschia multiseriata</i> . <i>Scientific Reports</i> , 2018 , 8, 356	4.9	22
55	Pufferfish Saxitoxin and Tetrodotoxin Binding Protein (PSTBP) Analogues in the Blood Plasma of the Pufferfish, <i>L. volitans</i> , and <i>L. volitans</i> . <i>Marine Drugs</i> , 2018 , 16,	6	11
54	Geographic range expansion of tetrodotoxin in amphibians - First record in <i>Atelopus hoogmoedi</i> from the Guiana Shield. <i>Toxicon</i> , 2018 , 150, 175-179	2.8	3
53	Synthesis and Identification of Key Biosynthetic Intermediates for the Formation of the Tricyclic Skeleton of Saxitoxin. <i>Angewandte Chemie</i> , 2017 , 129, 5411-5415	3.6	2
52	Tetrodotoxin in Asian newts (Salamandridae). <i>Toxicon</i> , 2017 , 134, 14-17	2.8	17
51	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	16.4	19
50	Differential binding of tetrodotoxin and its derivatives to voltage-sensitive sodium channel subtypes (Na _{1.1} to Na _{1.7}). <i>British Journal of Pharmacology</i> , 2017 , 174, 3881-3892	8.6	33
49	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	2.8	12
48	Total Synthesis of 11-Saxitoxinethanoic Acid and Evaluation of its Inhibitory Activity on Voltage-Gated Sodium Channels. <i>Angewandte Chemie</i> , 2016 , 128, 11772-11775	3.6	5
47	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	4.5	15
46	Two Cytochrome P450 Monooxygenases Catalyze Early Hydroxylation Steps in the Potato Steroid Glycoalkaloid Biosynthetic Pathway. <i>Plant Physiology</i> , 2016 , 171, 2458-67	6.6	49
45	Cyclic Guanidine Compounds from Toxic Newts Support the Hypothesis that Tetrodotoxin is Derived from a Monoterpene. <i>Angewandte Chemie</i> , 2016 , 128, 8870-8873	3.6	7
44	Cyclic Guanidine Compounds from Toxic Newts Support the Hypothesis that Tetrodotoxin is Derived from a Monoterpene. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8728-31	16.4	32
43	Biosynthetic route towards saxitoxin and shunt pathway. <i>Scientific Reports</i> , 2016 , 6, 20340	4.9	26
42	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, 72-6	2.8	10
41	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	3.4	20

40	Total Synthesis of 11-Saxitoxinethanoic Acid and Evaluation of its Inhibitory Activity on Voltage-Gated Sodium Channels. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11600-3	16.4	17
39	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, 101-5	2.8	17
38	The presence of 12 β -deoxydecarbamoylsaxitoxin in the Japanese toxic dinoflagellate <i>Alexandrium</i> determined by simultaneous analysis for paralytic shellfish toxins using HILIC-LCMS/MS. <i>Harmful Algae</i> , 2015 , 49, 58-67	5.3	18
37	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, 7835-40	4.8	26
36	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, 984-95	6	12
35	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, 3436-54	4.9	16
34	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, 1000-4	4.9	32
33	C5-C10 directly bonded tetrodotoxin analogues: possible biosynthetic precursors of tetrodotoxin from newts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14546-9	16.4	33
32	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, 3016-20	3.9	42
31	Synthesis of 5- and 8-deoxytetrodotoxin. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 1922-32	4.5	20
30	C5-C10 Directly Bonded Tetrodotoxin Analogues: Possible Biosynthetic Precursors of Tetrodotoxin From Newts. <i>Angewandte Chemie</i> , 2014 , 126, 14774-14777	3.6	9
29	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, 23-8	2.8	26
28	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, 6642-9	3.9	20
27	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, 2799-813	6	79
26	Variability of tetrodotoxin and of its analogues in the red-spotted newt, <i>Notophthalmus viridescens</i> (Amphibia: Urodela: Salamandridae). <i>Toxicon</i> , 2012 , 59, 257-64	2.8	44
25	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	4.6	8
24	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, 655-67	6	49
23	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	2.6	39

22	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, 12144-52	4.8	25
21	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, 1049-58	6	48
20	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, 1119-24	2.8	32
19	Examination of transformation among tetrodotoxin and its analogs in the living cultured juvenile puffer fish, kusafugu, <i>Fugu niphobles</i> by intramuscular administration. <i>Toxicon</i> , 2008 , 52, 714-20	2.8	33
18	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, 1269-73	2.8	60
17	Tetrodotoxin and its analogue 6-epitetrodotoxin in newts (<i>Triturus</i> spp.; Urodela, Salamandridae) from southern Germany. <i>Toxicon</i> , 2007 , 50, 306-9	2.8	44
16	6,11-Dideoxytetrodotoxin from the puffer fish, <i>Fugu pardalis</i> . <i>Toxicon</i> , 2007 , 50, 947-51	2.8	47
15	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, 3176-9	11.5	68
14	Hydrophilic interaction liquid chromatography-electrospray ionization mass spectrometry of tetrodotoxin and its analogs. <i>Analytical Biochemistry</i> , 2006 , 352, 142-4	3.1	63
13	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, 4346-51	11.5	86
12	Biological activity of 8,11-dideoxytetrodotoxin: lethality to mice and the inhibitory activity to cytotoxicity of ouabain and veratridine in mouse neuroblastoma cells, Neuro-2a. <i>Toxicon</i> , 2003 , 42, 557-60 ^{2,8}		27
11	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, 893-7 ⁸		35
10	Interactions of the C-11 hydroxyl of tetrodotoxin with the sodium channel outer vestibule. <i>Biophysical Journal</i> , 2003 , 84, 287-94	2.9	58
9	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, 2520-4	2.1	20
8	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, 5937-46		98
7	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, 10-7	3.1	107
6	CHEMISTRY OF PUFFER FISH TOXIN. <i>Toxin Reviews</i> , 2001 , 20, 51-66		74
5	Binding properties of (3)H-PbTx-3 and (3)H-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 alpha-subunit (fMNa1) from skeletal muscle of <i>F. pardalis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2000 , 267, 103-12	3.4	54

- 4 Isolation and structural assignment of 5-deoxytetrodotoxin from the puffer fish *Fugu poecilonotus*. *Bioscience, Biotechnology and Biochemistry*, **1999**, 63, 961-3 2.1 44
- 3 Toxicity of Dangerous Prey: Variation of Tetrodotoxin Levels Within and Among Populations of the Newt *Taricha granulosa*. *Journal of Chemical Ecology*, **1999**, 25, 2161-2175 2.7 85
- 2 Chemical and Etiological Studies on Tetrodotoxin and Its Analogs. *Toxin Reviews*, **1996**, 15, 81-90 72
- 1 5,6,11-trideoxytetrodotoxin from the puffer fish, *fugu poecilonotus*. *Tetrahedron Letters*, **1995**, 36, 9329-9332 58