Maurice R Elphick

List of Publications by Year
in descending order

124 papers	9,640 citations	66343 42 h-index	39675 94 g-index
132 all docs	132 docs citations	132 times ranked	8376 citing authors

#	Article	IF	Citations
1	International Union of Basic and Clinical Pharmacology. LXXIX. Cannabinoid Receptors and Their Ligands: Beyond CB₁and CB₂. Pharmacological Reviews, 2010, 62, 588-631.	16.0	1,425
2	The Genome of the Sea Urchin Strongylocentrotus purpuratus. Science, 2006, 314, 941-952.	12.6	1,018
3	The Endocannabinoid System Controls Key Epileptogenic Circuits in the Hippocampus. Neuron, 2006, 51, 455-466.	8.1	632
4	The neurobiology and evolution of cannabinoid signalling. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 381-408.	4.0	338
5	Localisation of cannabinoid receptors in the rat brain using antibodies to the intracellular C-terminal tail of CB1. Journal of Comparative Neurology, 2000, 422, 159-171.	1.6	322
6	Comparative analysis of fatty acid amide hydrolase and cb1 cannabinoid receptor expression in the mouse brain: evidence of a widespread role for fatty acid amide hydrolase in regulation of endocannabinoid signaling. Neuroscience, 2003, 119, 481-496.	2.3	315
7	A new perspective on cannabinoid signalling: complimentary localization of fatty acid amide hydrolase and the CB1 receptor in rat brain.. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 2081-2085.	2.6	282
8	A genomic view of the sea urchin nervous system. Developmental Biology, 2006, 300, 434-460.	2.0	260
9	Cannabinoid CB1 Receptor Expression in Rat Spinal Cord. Molecular and Cellular Neurosciences, 2000, 15, 510-521.	2.2	241
10	MRAP and MRAP2 are bidirectional regulators of the melanocortin receptor family. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6146-6151.	7.1	201
11	Behavioral role for nitric oxide in chemosensory activation of feeding in a mollusc. Journal of Neuroscience, 1995, 15, 7653-7664.	3.6	171
12	Evolution of neuropeptide signalling systems. Journal of Experimental Biology, 2018, 221, .	1.7	164
13	Localisation of cannabinoid receptor 1 in rat dorsal root ganglion using in situ hybridisation and immunohistochemistry. Neuroscience, 2003, 119, 803-812.	2.3	155
14	Nitric oxide synthesis and action in an invertebrate brain. Brain Research, 1993, 619, 344-346.	2.2	144
15	Transcriptomic identification of starfish neuropeptide precursors yields new insights into neuropeptide evolution. Open Biology, 2016, 6, 150224.	3.6	144
16	The evolution and comparative neurobiology of endocannabinoid signalling. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 3201-3215.	4.0	141
17	Mitigating Anticipated Effects of Systematic Errors Supports Sister-Group Relationship between Xenacoelomorpha and Ambulacraria. Current Biology, 2019, 29, 1818-1826.e6.	3.9	120
18	CB₁ Cannabinoid Receptor Activity Is Modulated by the Cannabinoid Receptor Interacting Protein CRIP 1a. Molecular Pharmacology, 2007, 72, 1557-1566.	2.3	116

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19	Minocycline Treatment Inhibits Microglial Activation and Alters Spinal Levels of Endocannabinoids in a Rat Model of Neuropathic Pain. Molecular Pain, 2009, 5, 1744-8069-5-35.	2.1	116
20	Localization of Nâ€acyl phosphatidylethanolamine phospholipase D (NAPEâ€PLD) expression in mouse brain: A new perspective on Nâ€acylethanolamines as neural signaling molecules. Journal of Comparative Neurology, 2008, 506, 604-615.	1.6	106
21	The SALMFamides: a new family of neuropeptides isolated from an echinoderm. Proceedings of the Royal Society B: Biological Sciences, 1991, 243, 121-127.	2.6	103
22	The evolution and nomenclature of GnRH-type and corazonin-type neuropeptide signaling systems. General and Comparative Endocrinology, 2018, 264, 64-77.	1.8	91
23	The neuropeptide transcriptome of a model echinoderm, the sea urchin Strongylocentrotus purpuratus. General and Comparative Endocrinology, 2012, 179, 331-344.	1.8	83
24	The Evolution and Variety of RFamide-Type Neuropeptides: Insights from Deuterostomian Invertebrates. Frontiers in Endocrinology, 2014, 5, 93.	3.5	71
25	Urbilaterian origin of paralogous GnRH and corazonin neuropeptide signalling pathways. Scientific Reports, 2016, 6, 28788.	3.3	70
26	Discovery of novel representatives of bilaterian neuropeptide families and reconstruction of neuropeptide precursor evolution in ophiuroid echinoderms. Open Biology, 2017, 7, 170129.	3.6	69
27	The Phylogenetic Distribution and Evolutionary Origins of Endocannabinoid Signalling. , 2005, , 283-297.		67
28	The Melanocortin 2 Receptor Accessory Protein Exists as a Homodimer and Is Essential for the Function of the Melanocortin 2 Receptor in the Mouse Y1 Cell Line. Endocrinology, 2008, 149, 1935-1941.	2.8	65
29	The invertebrate ancestry of endocannabinoid signalling: an orthologue of vertebrate cannabinoid receptors in the urochordate Ciona intestinalis. Gene, 2003, 302, 95-101.	2.2	64
30	Isolation of the neuropeptide SALMFamide-1 from starfish using a new antiserum. Peptides, 1991, 12, 455-459.	2.4	59
31	Neuropeptides and polypeptide hormones in echinoderms: New insights from analysis of the transcriptome of the sea cucumber Apostichopus japonicus. General and Comparative Endocrinology, 2014, 197, 43-55.	1.8	58
32	The neuropeptidome of the Crown-of-Thorns Starfish, Acanthaster planci. Journal of Proteomics, 2017, 165, 61-68.	2.4	58
33	Distribution and action of SALMFamide neuropeptides in the starfish Asterias rubens. Journal of Experimental Biology, 1995, 198, 2519-2525.	1.7	58
34	Altered Expression of the CB1 Cannabinoid Receptor in the Triple Transgenic Mouse Model of Alzheimer's Disease. Journal of Alzheimer's Disease, 2014, 40, 701-712.	2.6	57
35	Interfibrillar stiffening of echinoderm mutable collagenous tissue demonstrated at the nanoscale. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6362-E6371.	7.1	57
36	Prolonged exposure to WIN55,212-2 causes downregulation of the CB1 receptor and the development of tolerance to its anticonvulsant effects in the hippocampal neuronal culture model of acquired epilepsy. Neuropharmacology, 2009, 57, 208-218.	4.1	56

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37	NGFFFamide and echinotocin: structurally unrelated myoactive neuropeptides derived from neurophysin-containing precursors in sea urchins. Journal of Experimental Biology, 2009, 212, 1067-1077.	1.7	55
38	Localization of the Endocannabinoid-Degrading Enzyme Fatty Acid Amide Hydrolase in Rat Dorsal Root Ganglion Cells and Its Regulation after Peripheral Nerve Injury. Journal of Neuroscience, 2009, 29, 3766-3780.	3.6	53
39	Cannabinoid Receptorâ€"Interacting Protein 1a Modulates CB₁ Receptor Signaling and Regulation. Molecular Pharmacology, 2015, 87, 747-765.	2.3	53
40	Transcriptomic discovery and comparative analysis of neuropeptide precursors in sea cucumbers (Holothuroidea). Peptides, 2018, 99, 231-240.	2.4	53
41	Opsin evolution in the Ambulacraria. Marine Genomics, 2015, 24, 177-183.	1.1	50
42	A possible structural correlate of learning performance on a colour discrimination task in the brain of the bumblebee. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171323.	2.6	49
43	Cellular localization of relaxinâ€like gonadâ€stimulating peptide expression in Asterias rubens: New insights into neurohormonal control of spawning in starfish. Journal of Comparative Neurology, 2017, 525, 1599-1617.	1.6	47
44	The evolution of neuropeptide signalling: insights from echinoderms. Briefings in Functional Genomics, 2017, 16, 288-298.	2.7	47
45	Comparative analysis of nitric oxide and SALMFamide neuropeptides as general muscle relaxants in starfish. Journal of Experimental Biology, 2003, 206, 893-899.	1.7	44
46	Discovery of sea urchin NGFFFamide receptor unites a bilaterian neuropeptide family. Open Biology, 2015, 5, 150030.	3.6	42
47	Body wall structure in the starfish Asterias rubens. Journal of Anatomy, 2017, 231, 325-341.	1.5	42
48	Neural control of muscle relaxation in echinoderms. Journal of Experimental Biology, 2001, 204, 875-85.	1.7	42
49	Tissue distribution of the SALMFamide neuropeptides S1 and S2 in the starfish Asterias rubens using novel monoclonal and polyclonal antibodies. I. Nervous and locomotory systems. Proceedings of the Royal Society B: Biological Sciences, 1995, 261, 139-145.	2.6	41
50	Distribution and action of SALMFamide neuropeptides in the starfish Asterias rubens. Journal of Experimental Biology, 1995, 198, 2519-25.	1.7	40
51	SALMFamide neuropeptides cause relaxation and eversion of the cardiac stomach in starfish. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 1785-1789.	2.6	39
52	Nitric oxide synthase histochemistry in insect nervous systems: Methanol/formalin fixation reveals the neuroarchitecture of formaldehyde-sensitive NADPH diaphorase in the cockroachPeriplaneta americana. Journal of Comparative Neurology, 2002, 448, 165-185.	1.6	39
53	The Protein Precursors of Peptides That Affect the Mechanics of Connective Tissue and/or Muscle in the Echinoderm Apostichopus japonicus. PLoS ONE, 2012, 7, e44492.	2.5	39
54	Sensory afferents and motor neurons as targets for nitric oxide in the locust. Journal of Comparative Neurology, 2000, 422, 521-532.	1.6	38

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55	Functional Characterization of Paralogous Gonadotropin-Releasing Hormone-Type and Corazonin-Type Neuropeptides in an Echinoderm. Frontiers in Endocrinology, 2017, 8, 259.	3.5	38
56	Discovery of a novel neurophysin-associated neuropeptide that triggers cardiac stomach contraction and retraction in starfish. Journal of Experimental Biology, 2013, 216, 4047-53.	1.7	37
57	Effects of cytokines and nitric oxide donors on insulin secretion, cyclic GMP and DNA damage: relation to nitric oxide production. Biochemical Society Transactions, 1994, 22, 30-37.	3.4	35
58	Pedal peptide/orcokininâ€type neuropeptide signaling in a deuterostome: The anatomy and pharmacology of starfish myorelaxant peptide in Asterias rubens. Journal of Comparative Neurology, 2017, 525, 3890-3917.	1.6	35
59	Nitric Oxide Function in an Echinoderm. Biological Bulletin, 1998, 194, 260-266.	1.8	34
60	Fatty acid amide hydrolase expression in rat choroid plexus: possible role in regulation of the sleep-inducing action of oleamide. Neuroscience Letters, 2000, 282, 13-16.	2.1	34
61	Biochemical, Anatomical, and Pharmacological Characterization of Calcitonin-Type Neuropeptides in Starfish: Discovery of an Ancient Role as Muscle Relaxants. Frontiers in Neuroscience, 2018, 12, 382.	2.8	34
62	Discovery and functional characterisation of a luqin-type neuropeptide signalling system in a deuterostome. Scientific Reports, 2018, 8, 7220.	3.3	34
63	Cannabinoid receptor-interacting protein Crip1a modulates CB1 receptor signaling in mouse hippocampus. Brain Structure and Function, 2016, 221, 2061-2074.	2.3	33
64	Ancient role of vasopressin/oxytocin-type neuropeptides as regulators of feeding revealed in an echinoderm. BMC Biology, 2019, 17, 60.	3.8	33
65	New Techniques for Whole-mount NADPH-diaphorase Histochemistry Demonstrated in Insect Ganglia. Journal of Histochemistry and Cytochemistry, 2003, 51, 523-532.	2.5	32
66	Localization of nitric oxide synthase in the central complex and surrounding midbrain neuropils of the locust Schistocerca gregaria. Journal of Comparative Neurology, 2005, 484, 206-223.	1.6	32
67	NG peptides: A novel family of neurophysin-associated neuropeptides. Gene, 2010, 458, 20-26.	2.2	32
68	Identification of a novel antimicrobial peptide from the sea star Patiria pectinifera. Developmental and Comparative Immunology, 2018, 86, 203-213.	2.3	32
69	FMRFamide-like Immunoreactivity in the Nervous System of the StarfishAsterias rubens. Biological Bulletin, 1989, 177, 141-145.	1.8	31
70	Molecular characterisation of SALMFamide neuropeptides in sea urchins. Journal of Experimental Biology, 2005, 208, 4273-4282.	1.7	30
71	Developmental transcriptomics of the brittle star Amphiura filiformis reveals gene regulatory network rewiring in echinoderm larval skeleton evolution. Genome Biology, 2018, 19, 26.	8.8	30
72	Localization of Neuropeptide Gene Expression in Larvae of an Echinoderm, the Starfish Asterias rubens. Frontiers in Neuroscience, 2016, 10, 553.	2.8	29

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73	Identification of a novel starfish neuropeptide that acts as a muscle relaxant. Journal of Neurochemistry, 2016, 137, 33-45.	3.9	29
74	Neuropeptide precursors and neuropeptides in the sea cucumber Apostichopus japonicus: a genomic, transcriptomic and proteomic analysis. Scientific Reports, 2019, 9, 8829.	3.3	29
75	Evolution of Cannabinoid Receptors in Vertebrates: Identification of a CB2Gene in the Puffer FishFugu rubripes. Biological Bulletin, 2002, 202, 104-107.	1.8	28
76	Reconstructing SALMFamide Neuropeptide Precursor Evolution in the Phylum Echinodermata: Ophiuroid and Crinoid Sequence Data Provide New Insights. Frontiers in Endocrinology, 2015, 6, 2.	3.5	28
77	Comparative and Evolutionary Physiology of Vasopressin/ Oxytocin-Type Neuropeptide Signaling in Invertebrates. Frontiers in Endocrinology, 2020, 11, 225.	3.5	28
78	Neuropeptidergic Systems in Pluteus Larvae of the Sea Urchin Strongylocentrotus purpuratus: Neurochemical Complexity in a â€œSimpleâ€•Nervous System. Frontiers in Endocrinology, 2018, 9, 628.	3.5	27
79	BfCBR: A cannabinoid receptor ortholog in the cephalochordate Branchiostoma floridae (Amphioxus). Gene, 2007, 399, 65-71.	2.2	26
80	Enhanced fidelity of diffusive nitric oxide signalling by the spatial segregation of source and target neurones in the memory centre of an insect brain. European Journal of Neuroscience, 2007, 25, 181-190.	2.6	26
81	Functional characterization of a second pedal peptide/orcokininâ€type neuropeptide signaling system in the starfish Asterias rubens. Journal of Comparative Neurology, 2018, 526, 858-876.	1.6	26
82	Molecular and functional characterization of somatostatin-type signalling in a deuterostome invertebrate. Open Biology, 2020, 10, 200172.	3.6	26
83	Echinoderms provide missing link in the evolution of PrRP/sNPF-type neuropeptide signalling. ELife, 2020, 9, .	6.0	25
84	Localization of soluble guanylyl cyclase Î±-subunit in identified insect neurons. Brain Research, 1998, 800, 174-179.	2.2	22
85	SALMFamide salmagundi: The biology of a neuropeptide family in echinoderms. General and Comparative Endocrinology, 2014, 205, 23-35.	1.8	22
86	Ancient role of sulfakinin/cholecystokinin-type signalling in inhibitory regulation of feeding processes revealed in an echinoderm. ELife, 2021, 10, .	6.0	22
87	An evolutionarily conserved mechanism for sensitization of soluble guanylyl cyclase reveals extensive nitric oxide-mediated upregulation of cyclic GMP in insect brain. European Journal of Neuroscience, 2004, 20, 1231-1244.	2.6	20
88	Characterization of NGFFYamide Signaling in Starfish Reveals Roles in Regulation of Feeding Behavior and Locomotory Systems. Frontiers in Endocrinology, 2018, 9, 507.	3.5	20
89	The Evolution and Diversity of SALMFamide Neuropeptides. PLoS ONE, 2013, 8, e59076.	2.5	19
90	Cholecystokinin in the central nervous system of the sea lamprey Petromyzon marinus: precursor identification and neuroanatomical relationships with other neuronal signalling systems. Brain Structure and Function, 2020, 225, 249-284.	2.3	17

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91	Nitric oxide synthase in crayfish walking leg ganglia: Segmental differences in chemo-tactile centers argue against a generic role in sensory integration. Journal of Comparative Neurology, 2007, 501, 381-399.	1.6	15
92	Roles of copper in neurokinin B and gonadotropin-releasing hormone structure and function and the endocrinology of reproduction. General and Comparative Endocrinology, 2020, 287, 113342.	1.8	15
93	Expression of the neuropeptide SALMFamide-1 during regeneration of the seastar radial nerve cord following arm autotomy. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182701.	2.6	14
94	Localization of CiCBR in the invertebrate chordateCiona intestinalis: Evidence of an ancient role for cannabinoid receptors as axonal regulators of neuronal signalling. Journal of Comparative Neurology, 2007, 502, 660-672.	1.6	13
95	CRIP1a switches cannabinoid receptor agonist/antagonist-mediated protection from glutamate excitotoxicity. Neuroscience Letters, 2011, 503, 224-228.	2.1	13
96	From gonadotropin-inhibitory hormone to SIFamides: Are echinoderm SALMFamides the â€œmissing linkâ€• in a bilaterian family of neuropeptides that regulate reproductive processes?. General and Comparative Endocrinology, 2013, 193, 229-233.	1.8	13
97	Identification of a neuropeptide precursor protein that gives rise to a â€œcocktailâ€•of peptides that bind Cu(II) and generate metal-linked dimers. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 57-66.	2.4	13
98	Identification of novel SALMFamide neuropeptides in the starfish Marthasterias glacialis. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 147, 536-542.	1.8	12
99	The Neuroanatomy of Nitric Oxideâ€“Cyclic GMP Signaling in the Locust: Functional Implications for Sensory Systems. American Zoologist, 2001, 41, 321-331.	0.7	11
100	Discovery of a second SALMFamide gene in the sea urchin Strongylocentrotus purpuratus reveals that L-type and F-type SALMFamide neuropeptides coexist in an echinoderm species. Marine Genomics, 2010, 3, 91-97.	1.1	11
101	Evolution and Comparative Physiology of Luqin-Type Neuropeptide Signaling. Frontiers in Neuroscience, 2020, 14, 130.	2.8	11
102	Fatty acid amide hydrolase in brain ventricular epithelium: mutually exclusive patterns of expression in mouse and rat. Journal of Chemical Neuroanatomy, 2004, 28, 171-181.	2.1	10
103	Galanin in an Agnathan: Precursor Identification and Localisation of Expression in the Brain of the Sea Lamprey Petromyzon marinus. Frontiers in Neuroanatomy, 2019, 13, 83.	1.7	10
104	Effect of chimeric relaxin-like gonad-stimulating peptides on oocyte maturation and ovulation in the starfish Asterias rubens and Aphelasterias japonica. General and Comparative Endocrinology, 2020, 287, 113351.	1.8	10
105	Phylogeny of Echinoderm Hemoglobins. PLoS ONE, 2015, 10, e0129668.	2.5	9
106	Large-scale transcriptome changes in the process of long-term visual memory formation in the bumblebee, Bombus terrestris. Scientific Reports, 2018, 8, 534.	3.3	9
107	A gonadotropin-releasing hormone type neuropeptide with a high affinity binding site for copper(<scp>ii</scp>) and nickel(<scp>ii</scp>). Metallomics, 2019, 11, 404-414.	2.4	9
108	Somatostatin-type and allatostatin-Câ€“type neuropeptides are paralogous and have opposing myoregulatory roles in an echinoderm. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	9

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109	Transcriptomics reveals tissue/organ-specific differences in gene expression in the starfish Patiria pectinifera. Marine Genomics, 2018, 37, 92-96.	1.1	8
110	The Development and Neuronal Complexity of Bipinnaria Larvae of the Sea Star Asterias rubens. Integrative and Comparative Biology, 2021, 61, 337-351.	2.0	8
111	Cannabinoid receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	8
112	Molecular Identification and Cellular Localization of a Corticotropin-Releasing Hormone-Type Neuropeptide in an Echinoderm. Neuroendocrinology, 2023, 113, 231-250.	2.5	7
113	Structural analysis of the starfish SALMFamide neuropeptides S1 and S2: The N-terminal region of S2 facilitates self-association. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 358-365.	2.3	6
114	Identification of evolutionarily conserved residues required for the bioactivity of a pedal peptide/orcokinin-type neuropeptide. Peptides, 2018, 103, 10-18.	2.4	6
115	Cannabinoid Receptor Genetics and Evolution. Receptors, 2009, , 123-149.	0.2	6
116	Sensory afferents and motor neurons as targets for nitric oxide in the locust. Journal of Comparative Neurology, 2000, 422, 521-32.	1.6	5
117	Bioactivity and structural properties of chimeric analogs of the starfish SALMFamide neuropeptides S1 and S2. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 1842-1850.	2.3	4
118	A specific and sensitive enzyme-linked immunosorbent assay for measurement of relaxin-like gonad-stimulating peptide in the starfish Asterias rubens. General and Comparative Endocrinology, 2021, 310, 113831.	1.8	3
119	Unlocking the secrets of mutable collagenous tissue. Biochemist, 2018, 40, 8-11.	0.5	3
120	An invertebrate G-protein coupled receptor is a chimeric cannabinoid/melanocortin receptor. Brain Research, 1998, 780, 170-3.	2.2	1
121	Editorial: Endocrine and Neuroendocrine Systems of Invertebrate Deuterostomes. Frontiers in Endocrinology, 2019, 10, 755.	3.5	0
122	Neuropharmacology of Cannabinoids. , 2013, , 593-603.		0
123	Discovery and localisation of the expression of calcitonin-type and CRH-type neuropeptide precursors in an echinoderm. Endocrine Abstracts, 0, , .	0.0	0
124	Characterisation of a GnRH-type signalling system in an echinoderm. Endocrine Abstracts, 0, , .	0.0	0