Garth L Fletcher

List of Publications by Year
in descending order

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80	3,539	109137	149479
papers	citations	35 h-index	56 g-index

88	88	88	1686
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antifreeze Proteins of Teleost Fishes. Annual Review of Physiology, 2001, 63, 359-390.	5.6	433
2	Growth Enhancement in Transgenic Atlantic Salmon by the Use of an â€œAll Fishâ€•Chimeric Growth Hormone Gene Construct. Nature Biotechnology, 1992, 10, 176-181.	9.4	288
3	Hyperactive antifreeze protein in a fish. Nature, 2004, 429, 153-153.	13.7	110
4	Evidence for Antifreeze Protein Gene Transfer in Atlantic Salmon (Salmo salar). Canadian Journal of Fisheries and Aquatic Sciences, 1988, 45, 352-357.	0.7	101
5	Structural and Functional Similarity between Fish Antifreeze Proteins and Calcium-Dependent Lectins. Biochemical and Biophysical Research Communications, 1992, 185, 335-340.	1.0	101
6	The relationship between molecular weight and antifreeze polypeptide activity in marine fish. Canadian Journal of Zoology, 1986, 64, 578-582.	0.4	81
7	Lethal freezing temperatures of Arctic char and other salmonids in the presence of ice. Aquaculture, 1988, 71, 369-378.	1.7	76
8	Skin Antifreeze Protein Genes of the Winter Flounder, Pleuronectes americanus, Encode Distinct and Active Polypeptides without the Secretory Signal and Prosequences. Journal of Biological Chemistry, 1996, 271, 4106-4112.	1.6	76
9	Fish antifreeze proteins: physiology and evolutionary biology. Canadian Journal of Zoology, 1988, 66, 2611-2617.	0.4	75
10	Fish Antifreeze Proteins: Recent Gene Evolution. Canadian Journal of Fisheries and Aquatic Sciences, 1986, 43, 1028-1034.	0.7	69
11	Antifreeze proteins from the shorthorn sculpin, Myoxocephalus scorpius: isolation and characterization. Canadian Journal of Biochemistry, 1980, 58, 377-383.	1.4	68
12	The Ice-Binding Site of Atlantic Herring Antifreeze Protein Corresponds to the Carbohydrate-Binding Site of C-Type Lectinsâ€. Biochemistry, 1998, 37, 4080-4085.	1.2	66
13	Transgenic Fish for Aquaculture. , 1991, 13, 331-370.		64
14	Antifreeze peptides confer freezing resistance to fish. Canadian Journal of Zoology, 1986, 64, 1897-1901.	0.4	61
15	Isolation and characterization of antifreeze proteins from smelt (Osmerus mordax) and Atlantic herring (Clupea harengus harengus). Canadian Journal of Zoology, 1990, 68, 1652-1658.	0.4	60
16	Antifreeze polypeptides from the Newfoundland ocean pout,Macrozoarces americanus: presence of multiple and compositionally diverse components. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1984, 155, 81-88.	0.7	58
17	Antifreeze glycoproteins: relationship between molecular weight, thermal hysteresis and the inhibition of leakage from liposomes during thermotropic phase transition. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2001, 128, 265-273.	0.7	57
18	Antifreeze glycoproteins in the plasma of Newfoundland Atlantic cod (Gadus morhua). Canadian Journal of Zoology, 1981, 59, 2186-2192.	0.4	54

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19	Winter Flounder Antifreeze Protein Improves the Cold Hardiness of Plant Tissues. Journal of Plant Physiology, 1989, 135, 351-354.	1.6	53
20	Differential amplification of antifreeze protein genes in the pleuronectinae. Journal of Molecular Evolution, 1988, 27, 29-35.	0.8	52
21	A re-evaluation of the role of type IV antifreeze protein. Cryobiology, 2008, 57, 292-296.	0.3	48
22	Effect of triploidy on blood oxygen content of Atlantic salmon. Aquaculture, 1985, 50, 133-139.	1.7	47
23	Structural variations in the alanine-rich antifreeze proteins of the pleuronectinae. FEBS Journal, 1987, 168, 629-633.	0.2	47
24	Antifreeze Production, Freeze Resistance, and Overwintering of Juvenile Northern Atlantic Cod (Gadus morhua). Canadian Journal of Fisheries and Aquatic Sciences, 1992, 49, 516-522.	0.7	47
25	Ca2+-dependent Antifreeze Proteins. Journal of Biological Chemistry, 1996, 271, 16627-16632.	1.6	47
26	Smolt development in growth hormone transgenic Atlantic salmon. Aquaculture, 1998, 168, 177-193.	1.7	47
27	Helical Antifreeze Proteins Have Independently Evolved in Fishes on Four Occasions. PLoS ONE, 2013, 8, e81285.	1.1	47
28	Characterization and multi-generational stability of the growth hormone transgene (EO-1Î±) responsible for enhanced growth rates in Atlantic Salmon. Transgenic Research, 2006, 15, 465-480.	1.3	45
29	Biosynthesis of antifreeze polypeptides in the winter flounder. Characterization and seasonal occurrence of precursor polypeptides. FEBS Journal, 1986, 160, 267-272.	0.2	44
30	Low temperature regulation of antifreeze glycopeptide levels in Atlantic cod (Gadus morhua). Canadian Journal of Zoology, 1987, 65, 227-233.	0.4	43
31	Isolation and characterization of antifreeze glycoproteins from the frostfish, Microgadus tomcod. Canadian Journal of Zoology, 1982, 60, 348-355.	0.4	42
32	The importance of dissolved salts to the in vivo efficacy of antifreeze proteins. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 148, 556-561.	0.8	41
33	The role of aquatic biotechnology in aquaculture. Aquaculture, 2001, 197, 191-204.	1.7	38
34	Blood and plasma viscosity of winter flounder: influence of temperature, red cell concentration, and shear rate. Canadian Journal of Zoology, 1983, 61, 2344-2350.	0.4	37
35	Tissue distribution of fish antifreeze protein mRNAs. Canadian Journal of Zoology, 1992, 70, 810-814.	0.4	36
36	Hematology of three deep-sea fishes: a reflection of low metabolic rates. Comparative Biochemistry and Physiology A, Comparative Physiology, 1985, 80, 79-84.	0.7	35

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37	Skin-type Antifreeze Protein from the Shorthorn Sculpin,Myoxocephalus scorpius. Journal of Biological Chemistry, 1998, 273, 23098-23103.	1.6	33
38	Rheological properties of rainbow trout blood. Canadian Journal of Zoology, 1987, 65, 879-883.	0.4	32
39	Survival of Northern Atlantic Cod (Gadus morhua) Eggs and Larvae when Exposed to Ice and Low Temperature. Canadian Journal of Fisheries and Aquatic Sciences, 1992, 49, 2588-2595.	0.7	31
40	Tissue specific expression of antifreeze protein and growth hormone transgenes driven by the ocean pout (Macrozoarces americanus) antifreeze protein OP5a gene promoter in Atlantic salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	30
41	Isolation and characterization of type I antifreeze proteins from Atlantic snailfish (Liparis atlanticus) and dusky snailfish (Liparis gibbus). BBA - Proteins and Proteomics, 2001, 1547, 235-244.	2.1	29
42	Isolation and Characterization of Skin-type, Type I Antifreeze Polypeptides from the Longhorn Sculpin, Myoxocephalus octodecemspinosus. Journal of Biological Chemistry, 2001, 276, 11582-11589.	1.6	29
43	Fish Skin: An Effective Barrier to Ice Crystal Propagation. Journal of Experimental Biology, 1992, 164, 135-151.	0.8	29
44	In vivo biosynthesis of the antifreeze protein in the winter flounder â€" Evidence for a larger precursor. Biochemical and Biophysical Research Communications, 1978, 85, 421-427.	1.0	27
45	Isolation and purification of antifreeze proteins from skin tissues of snailfish, cunner and sea raven. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2004, 1700, 209-217.	1.1	27
46	Juvenile Atlantic Cod (Gadus morhua) Can Be More Freeze Resistant than Adults. Canadian Journal of Fisheries and Aquatic Sciences, 1988, 45, 902-905.	0.7	26
47	Hormonal regulation of antifreeze protein gene expression in winter flounder. Fish Physiology and Biochemistry, 1989, 7, 387-393.	0.9	26
48	Lysozyme transgenic Atlantic salmon (Salmo salar L.). Aquaculture Research, 2011, 42, 427-440.	0.9	26
49	The rat ortholog of the presumptive flounder antifreeze enhancer-binding protein is a helicase domain-containing protein. FEBS Journal, 2000, 267, 7237-7246.	0.2	25
50	Antifreeze Proteins in the Arctic Shorthorn Sculpin (Myoxocephalus scorpius). Arctic, 1982, 35, .	0.2	25
51	On the low viscosity blood of two cold water, marine sculpins. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1985, 155, 455-459.	0.7	24
52	Hyperactive antifreeze protein in flounder species. The sole freeze protectant in American plaice. FEBS Journal, 2005, 272, 4439-4449.	2.2	23
53	The role of pituitary in regulating antifreeze protein synthesis in the winter flounder. FEBS Letters, 1979, 99, 337-339.	1.3	21
54	Population differences in antifreeze production cycles of juvenile Atlantic cod (Gadus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (m Aquatic Sciences, 1999, 56, 1991-1999.	0.7	20

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55	Spatial expression patterns of skin-type antifreeze protein in winter flounder (Pseudopleuronectes) Tj ETQq1 1 0.784314 rgBT /Overlock	0.6	19
56	Isolation and characterization of type I antifreeze proteins from cunner,Tautogolabrusâ€ƒadspersus, order Perciformes. FEBS Journal, 2011, 278, 3699-3710.	2.2	19
57	Type I antifreeze proteins expressed in snailfish skin are identical to their plasma counterparts. FEBS Journal, 2005, 272, 5327-5336.	2.2	18
58	Antifreeze protein gene amplification facilitated niche exploitation and speciation in wolffish. FEBS Journal, 2012, 279, 2215-2230.	2.2	18
59	Blood viscosity in arctic fishes. The Journal of Experimental Zoology, 1985, 234, 157-160.	1.4	16
60	Antifreeze proteins in the grubby sculpin, Myoxocephalus aenaeus and the tomcod, Microgadus tomcod: comparisons of seasonal cycles. Environmental Biology of Fishes, 1987, 18, 295-301.	0.4	16
61	Population differences in antifreeze protein gene copy number and arrangement in winter flounder. Genome, 1991, 34, 174-177.	0.9	16
62	The effects of long day length on liver antifreeze mRNA in the winter flounder, Pseudopleuronectes americanus. Canadian Journal of Zoology, 1984, 62, 1456-1460.	0.4	15
63	The Role of CCAAT/Enhancer-Binding Protein alpha and a Protein that Binds to the Activator-Protein-1 Site in the Regulation of Liver-Specific Expression of the Winter Flounder Antifreeze Protein Gene. FEBS Journal, 1997, 247, 44-51.	0.2	15
64	Antifreeze proteins in the urine of marine fish. Fish Physiology and Biochemistry, 1989, 6, 121-127.	0.9	14
65	Localization of cells from the winter flounder gill expressing a skin type antifreeze protein gene. Canadian Journal of Zoology, 2002, 80, 110-119.	0.4	14
66	Seasonal modulation of plasma antifreeze protein levels in Atlantic (Anarhichas lupus) and spotted wolffish (A. minor). Journal of Experimental Marine Biology and Ecology, 2006, 335, 142-150.	0.7	14
67	Type I Antifreeze Proteins: Possible Origins from Chorion and Keratin Genes in Atlantic Snailfish. Journal of Molecular Evolution, 2005, 61, 417-424.	0.8	13
68	Accumulation of winter flounder antifreeze messenger RNA after hypophysectomy. General and Comparative Endocrinology, 1984, 54, 392-401.	0.8	11
69	Gene Transfer in Salmonids by Injection Through the Micropyle. , 1992, , 44-60.		11
70	High antifreeze protein levels in wolffish (Anarhichas lupus) make them an ideal candidate for culture in cold, potentially ice laden waters. Aquaculture, 2007, 272, 667-674.	1.7	11
71	Antifreeze protein gene expression in winter flounder pre-hatch embryos: Implications for cryopreservation. Cryobiology, 2008, 57, 84-90.	0.3	10
72	Delayed Phenotypic Expression of Growth Hormone Transgenesis during Early Ontogeny in Atlantic Salmon (Salmo salar)?. PLoS ONE, 2014, 9, e95853.	1.1	10

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73	Comparison of antifreeze polypeptides from newfoundland, nova scotia, new brunswick and long island winter flounder. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1984, 78, 791-796.	0.2	7
74	Thermolabile antifreeze protein produced in Escherichia coli for structural analysis. Protein Expression and Purification, 2012, 82, 75-82.	0.6	6
75	Physiological Ecology of Antifreeze Proteins â€" A Northern Perspective. Molecular Aspects of Fish and Marine Biology, 2002, , 17-60.	0.2	6
76	The Skin-Type Antifreeze Polypeptides: A New Class of Type I AFPs. Molecular Aspects of Fish and Marine Biology, 2002, , 161-186.	0.2	6
77	Antifreeze protein dispersion in eelpouts and related fishes reveals migration and climate alteration within the last 20 Ma. PLoS ONE, 2020, 15, e0243273.	1.1	6
78	Epithelial dominant expression of antifreeze proteins in cunner suggests recent entry into a high freeze-risk ecozone. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 164, 111-118.	0.8	4
79	The role of aquatic biotechnology in aquaculture. , 2001, , 191-204.		1
80	Transgenic Salmon for Aquaculture. , 1999, , 101-105.		0