Gerardo R Vasta

List of Publications by Year
in descending order

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115	6,112	53794	76900
papers	citations	45 h-index	74 g-index

115	115	115	5071
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Manipulating Galectin Expression in (Danio rerio). Methods in Molecular Biology, 2022, 2442, 425-443.	0.9	0
2	Animal Lectins: Structure and Function. , 2022, , .		0
3	In Structural Glycobiology, Deuterium provides the Details. Structure, 2021, 29, 937-939.	3.3	0
4	F-type lectin from serum of the Antarctic teleost fish Trematomus bernacchii (Boulenger, 1902): Purification, structural characterization, and bacterial agglutinating activity. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2021, 256, 110633.	1.6	5
5	Galectin-mediated immune recognition: Opsonic roles with contrasting outcomes in selected shrimp and bivalve mollusk species. Developmental and Comparative Immunology, 2020, 110, 103721.	2.3	18
6	Biochemical Characterization of Oyster and Clam Galectins: Selective Recognition of Carbohydrate Ligands on Host Hemocytes and Perkinsus Parasites. Frontiers in Chemistry, 2020, 8, 98.	3.6	11
7	Introduction to special issue: Pattern recognition receptors and their roles in immunity in invertebrates. Developmental and Comparative Immunology, 2020, 109, 103712.	2.3	6
8	Glycan characterization of pregnancy-specific glycoprotein 1 and its identification as a novel Galectin-1 ligand. Glycobiology, 2020, 30, 895-909.	2.5	21
9	F-Type Lectins: Structure, Function, and Evolution. Methods in Molecular Biology, 2020, 2132, 225-239.	0.9	4
10	Purification and Biochemical Characterization of Selected F-Type Lectins. Methods in Molecular Biology, 2020, 2132, 241-255.	0.9	1
11	Galectins in Hostâ€“Pathogen Interactions: Structural, Functional and Evolutionary Aspects. Advances in Experimental Medicine and Biology, 2020, 1204, 169-196.	1.6	17
12	The functional relevance of shrimp C-type lectins in host-pathogen interactions. Developmental and Comparative Immunology, 2020, 109, 103708.	2.3	51
13	Lacking catalase, a protistan parasite draws on its photosynthetic ancestry to complete an antioxidant repertoire with ascorbate peroxidase. BMC Evolutionary Biology, 2019, 19, 146.	3.2	9
14	Pregnancy Galectinology: Insights Into a Complex Network of Glycan Binding Proteins. Frontiers in Immunology, 2019, 10, 1166.	4.8	39
15	Structure of the zebrafish galectin-1-L2 and model of its interaction with the infectious hematopoietic necrosis virus (IHNV) envelope glycoprotein. Glycobiology, 2019, 29, 419-430.	2.5	10
16	Roles of Galectins in Infection: First barrier or Trojan Horse?. FASEB Journal, 2019, 33, 216.3.	0.5	0
17	Immunity in Molluscs: Recognition and Effector Mechanisms, with a Focus on Bivalvia. , 2018, , 225-341.		43
18	Functions of galectins as â€˜self/non-selfâ€™-recognition and effector factors. Pathogens and Disease, 2017, 75, .	2.0	52

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19	Comparison of proteomic profiles in the zebrafish retina during experimental degeneration and regeneration. Scientific Reports, 2017, 7, 44601.	3.3	20
20	Transient Expression of Plasmodium berghei MSP8 and HAP2 in the Marine Protozoan Parasite Perkinsus marinus. Journal of Parasitology, 2017, 103, 118-122.	0.7	7
21	Antimicrobial Peptides Are Expressed during Early Development of Zebrafish (Danio rerio) and Are Inducible by Immune Challenge. Fishes, 2017, 2, 20.	1.7	12
22	F-Type Lectins: A Highly Diversified Family of Fucose-Binding Proteins with a Unique Sequence Motif and Structural Fold, Involved in Self/Non-Self-Recognition. Frontiers in Immunology, 2017, 8, 1648.	4.8	41
23	Binding of a C-type lectinâ€™s coiled-coil domain to the Domeless receptor directly activates the JAK/STAT pathway in the shrimp immune response to bacterial infection. PLoS Pathogens, 2017, 13, e1006626.	4.7	110
24	Evolution and Immune Function of Fish Lectins. , 2016, , 239-256.		4
25	Lectins as Innate Immune Recognition Factors: Structural, Functional, and Evolutionary Aspects. , 2016, , 205-224.		2
26	The zebrafish galectins Drgal1-L2 and Drgal3-L1 bind inÂvitro to the infectious hematopoietic necrosis virus (IHNV) glycoprotein and reduce viral adhesion to fish epithelial cells. Developmental and Comparative Immunology, 2016, 55, 241-252.	2.3	47
27	Desialylation of airway epithelial cells during influenza virus infection enhances pneumococcal adhesion via galectin binding. Molecular Immunology, 2015, 65, 1-16.	2.2	82
28	Galectin CvGal2 from the Eastern Oyster (Crassostrea virginica) Displays Unique Specificity for ABH Blood Group Oligosaccharides and Differentially Recognizes Sympatric Perkinsus Species. Biochemistry, 2015, 54, 4711-4730.	2.5	38
29	Galectins regulate the inflammatory response in airway epithelial cells exposed to microbial neuraminidase by modulating the expression of SOCS1 and RIG1. Molecular Immunology, 2015, 68, 194-202.	2.2	50
30	Manipulating Galectin Expression in Zebrafish (Danio rerio). Methods in Molecular Biology, 2015, 1207, 327-341.	0.9	11
31	Humanized HLA-DR4 Mice Fed with the Protozoan Pathogen of Oysters Perkinsus Marinus (Dermo) Do Not Develop Noticeable Pathology but Elicit Systemic Immunity. PLoS ONE, 2014, 9, e87435.	2.5	14
32	A rhamnose-binding lectin from sea bass (Dicentrarchus labrax) plasma agglutinates and opsonizes pathogenic bacteria. Developmental and Comparative Immunology, 2014, 44, 332-340.	2.3	27
33	Protozoan Parasites of Bivalve Molluscs: Literature Follows Culture. PLoS ONE, 2014, 9, e100872.	2.5	31
34	Quantitative assessment of the proliferation of the protozoan parasite Perkinsus marinus using a bioluminescence assay for ATP content. International Journal for Parasitology: Drugs and Drug Resistance, 2013, 3, 85-92.	3.4	12
35	Design and synthesis of glycoprotein-based multivalent glyco-ligands for influenza hemagglutinin and human galectin-3. Bioorganic and Medicinal Chemistry, 2013, 21, 2037-2044.	3.0	51
36	Hemocytes and Plasma of the Eastern Oyster (Crassostrea virginica) Display a Diverse Repertoire of Sulfated and Blood Group A-modified N-Glycans*. Journal of Biological Chemistry, 2013, 288, 24410-24428.	3.4	49

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37	The Galectin CvGal1 from the Eastern Oyster (Crassostrea virginica) Binds to Blood Group A Oligosaccharides on the Hemocyte Surface*. Journal of Biological Chemistry, 2013, 288, 24394-24409.	3.4	61
38	Cod glycopeptide with picomolar affinity to galectin-3 suppresses T-cell apoptosis and prostate cancer metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5052-5057.	7.1	90
39	Galectins as self/non-self recognition receptors in innate and adaptive immunity: an unresolved paradox. Frontiers in Immunology, 2012, 3, 199.	4.8	93
40	Galectins as Pattern Recognition Receptors: Structure, Function, and Evolution. Advances in Experimental Medicine and Biology, 2012, 946, 21-36.	1.6	202
41	Diversity in recognition of glycans by Fâ€type lectins and galectins: molecular, structural, and biophysical aspects. Annals of the New York Academy of Sciences, 2012, 1253, E14-26.	3.8	46
42	The Natural Resistance-Associated Macrophage Protein from the Protozoan Parasite Perkinsus marinus Mediates Iron Uptake. Biochemistry, 2011, 50, 6340-6355.	2.5	15
43	When Galectins Recognize Glycans: From Biochemistry to Physiology and Back Again. Biochemistry, 2011, 50, 7842-7857.	2.5	238
44	Structural and functional diversity of the lectin repertoire in teleost fish: Relevance to innate and adaptive immunity. Developmental and Comparative Immunology, 2011, 35, 1388-1399.	2.3	141
45	The search for the missing link: A relic plastid in Perkinsus?. International Journal for Parasitology, 2011, 41, 1217-1229.	3.1	63
46	Bioactive compounds to prevent galectinâ€mediated metastasis of prostate cancer. FASEB Journal, 2011, 25, 557.1.	0.5	0
47	Production of recombinant proteins from protozoan parasites. Trends in Parasitology, 2010, 26, 244-254.	3.3	51
48	The Alveolate Perkinsus marinus: Biological Insights from EST Gene Discovery. BMC Genomics, 2010, 11, 228.	2.8	92
49	A Novel Clinically Relevant Animal Model for Studying Galectin-3 and Its Ligands During Colon Carcinogenesis. Journal of Histochemistry and Cytochemistry, 2010, 58, 553-565.	2.5	16
50	The Zebrafish Galectin Drgal1-L2 Is Expressed by Proliferating MÃ¼ller Glia and Photoreceptor Progenitors and Regulates the Regeneration of Rod Photoreceptors. , 2010, 51, 3244.		56
51	Structure and Specificity of a Binary Tandem Domain F-Lectin from Striped Bass (Morone saxatilis). Journal of Molecular Biology, 2010, 401, 239-252.	4.2	32
52	Nodavirus Infection of Sea Bass (Dicentrarchus labrax) Induces Up-Regulation of Galectin-1 Expression with Potential Anti-Inflammatory Activity. Journal of Immunology, 2009, 183, 6600-6611.	0.8	62
53	Knockdown of a galectin-1-like protein in zebrafish (Danio rerio) causes defects in skeletal muscle development. Glycoconjugate Journal, 2009, 26, 277-283.	2.7	32
54	Roles of galectins in infection. Nature Reviews Microbiology, 2009, 7, 424-438.	28.6	459

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55	Development of an in Vitro Assay to Examine Intracellular Survival of Perkinsus marinus Trophozoites upon Phagocytosis by Oyster (Crassostrea virginica and Crassostrea ariakensis) Hemocytes. Journal of Parasitology, 2009, 95, 900-907.	0.7	16
56	Evidence of Heavy Methylation in the Galectin 3 Promoter in Early Stages of Prostate Adenocarcinoma: Development and Validation of a Methylated Marker for Early Diagnosis of Prostate Cancer. Translational Oncology, 2009, 2, 146-156.	3.7	54
57	Susceptibility of Crassostrea ariakensis (Fujita 1913) to Bonamia and Perkinsus spp. Infections: Potential for Disease Transmission Between Oyster Species. Journal of Shellfish Research, 2008, 27, 541-549.	0.9	4
58	Transfection of the protozoan parasite Perkinsus marinus. Molecular and Biochemical Parasitology, 2008, 157, 44-53.	1.1	37
59	Unlike mammalian GRIFIN, the zebrafish homologue (DrGRIFIN) represents a functional carbohydrate-binding galectin. Biochemical and Biophysical Research Communications, 2008, 371, 350-355.	2.1	37
60	Perkinsus marinus superoxide dismutase 2 (PmSOD2) localizes to single-membrane subcellular compartments. Biochemical and Biophysical Research Communications, 2008, 375, 215-219.	2.1	22
61	Structural/functional aspects of proteinâ€“carbohydrate interactions in innate immunity: Applications to fisheries and aquaculture. Journal of Biotechnology, 2008, 136, S252.	3.8	0
62	Assessment of the Northern Distribution Range of Selected Perkinsus Species in Eastern Oysters (Crassostrea virginica) and Hard Clams (Mercenaria mercenaria) with the Use of PCR-Based Detection Assays. Journal of Parasitology, 2008, 94, 410-422.	0.7	33
63	Effect of Biotic and Abiotic Factors on In Vitro Proliferation, Encystment, and Excystment of Pfiesteria piscicida. Applied and Environmental Microbiology, 2007, 73, 6410-6420.	3.1	6
64	A Galectin of Unique Domain Organization from Hemocytes of the Eastern Oyster (Crassostrea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Immunology, 2007, 179, 3086-3098.	0.8	212
65	Isolation and characterization of a fish F-type lectin from gilt head bream (Sparus aurata) serum. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 150-155.	2.4	42
66	Differential expression of galectins in normal, benign and malignant prostate epithelial cells: Silencing of galectin-3 expression in prostate cancer by its promoter methylation. Biochemical and Biophysical Research Communications, 2007, 358, 241-246.	2.1	59
67	Functions of cell surface galectin-glycoprotein lattices. Current Opinion in Structural Biology, 2007, 17, 513-520.	5.7	341
68	Biological Roles of Lectins in Innate Immunity: Molecular and Structural Basis for Diversity in Self/Non-Self Recognition. , 2007, 598, 389-406.		58
69	Regulation of advanced glycation end product (AGE) receptors and apoptosis by AGEs in osteoblast-like cells. Molecular and Cellular Biochemistry, 2007, 306, 87-94.	3.1	199
70	Structures of PmSOD1 and PmSOD2, two superoxide dismutases from the protozoan parasitePerkinsus marinus. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 1072-1075.	0.7	38
71	Characterization of a Binary Tandem Domain F-type Lectin from Striped Bass (Morone saxatilis). Journal of Biological Chemistry, 2006, 281, 1698-1713.	3.4	73
72	Characterization of Ichthyocidal Activity of Pfiesteria piscicida : Dependence on the Dinospore Cell Density. Applied and Environmental Microbiology, 2005, 71, 519-529.	3.1	15

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73	Identification of a Second rRNA Gene Unit in the Perkinsus andrewsi Genome. Journal of Eukaryotic Microbiology, 2004, 51, 234-245.	1.7	14
74	Structural and functional diversity of lectin repertoires in invertebrates, protochordates and ectothermic vertebrates. Current Opinion in Structural Biology, 2004, 14, 617-630.	5.7	209
75	AGE-R3/galectin-3 expression in osteoblast-like cells: Regulation by AGEs. Molecular and Cellular Biochemistry, 2004, 266, 17-24.	3.1	30
76	Galectins in teleost fish: Zebrafish (Danio rerio) as a model species to address their biological roles in development and innate immunity. Glycoconjugate Journal, 2004, 21, 503-521.	2.7	90
77	GENE ORGANIZATION AND EXPRESSION OF THE DIVALENT CATION TRANSPORTER NRAMP IN THE PROTISTAN PARASITE PERKINSUS MARINUS. Journal of Parasitology, 2004, 90, 1004-1014.	0.7	14
78	Development of a PCR-ELISA assay for diagnosis of Perkinsus marinus and Perkinsus atlanticus infections in bivalve molluscs. Molecular and Cellular Probes, 2004, 18, 89-96.	2.1	18
79	The protistan parasite Perkinsus marinus is resistant to selected reactive oxygen species. Experimental Parasitology, 2003, 105, 232-240.	1.2	52
80	The PmSOD1 gene of the protistan parasite Perkinsus marinus complements the sod2Î" mutant of Saccharomyces cerevisiae, and directs an iron superoxide dismutase to mitochondria. Molecular and Biochemical Parasitology, 2003, 126, 81-92.	1.1	35
81	Superoxide dismutases from the oyster parasite Perkinsus marinus: purification, biochemical characterization, and development of a plate microassay for activity. Analytical Biochemistry, 2003, 318, 132-141.	2.4	49
82	Gene organization and homology modeling of two iron superoxide dismutases of the early branching protist Perkinsus marinus. Gene, 2003, 309, 1-9.	2.2	52
83	Diverse Lectin Repertoires in Tunicates Mediate Broad Recognition and Effector Innate Immune Responses. Integrative and Comparative Biology, 2003, 43, 323-330.	2.0	23
84	Biochemical and molecular characterization of galectins from zebrafish (Danio rerio): notochord-specific expression of a prototype galectin during early embryogenesis. Glycobiology, 2003, 14, 219-232.	2.5	73
85	Characterization of the rRNA Locus of Pfiesteria piscicida and Development of Standard and Quantitative PCR-Based Detection Assays Targeted to the Nontranscribed Spacer. Applied and Environmental Microbiology, 2002, 68, 5394-5407.	3.1	61
86	Novel carbohydrate specificity of the 16-kDa galectin from Caenorhabditis elegans: binding to blood group precursor oligosaccharides (type 1, type 2, TÂ, and TÂ) and gangliosides. Glycobiology, 2002, 12, 451-461.	2.5	39
87	cDNA cloning and characterization of two iron superoxide dismutases from the oyster parasite Perkinsus marinus. Molecular and Biochemical Parasitology, 2002, 123, 73-77.	1.1	61
88	Effects of plasma from bivalve mollusk species on the in vitro proliferation of the protistan parasitePerkinsus marinus. The Journal of Experimental Zoology, 2002, 292, 221-230.	1.4	24
89	A novel fucose recognition fold involved in innate immunity. Nature Structural Biology, 2002, 9, 628-34.	9.7	86
90	Development of an In Vitro Clonal Culture and Characterization of the rRNA Gene Cluster of Perkinsus atlanticus, a Protistan Parasite of the Clam Tapes decussatus. Journal of Eukaryotic Microbiology, 2002, 49, 414-422.	1.7	39

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91	Fine Structure of Clonally Propagated In Vitro Life Stages of a Perkinsus sp. Isolated from the Baltic Clam Macoma balthica. Journal of Eukaryotic Microbiology, 2001, 48, 38-51.	1.7	47
92	Description of Perkinsus andrewsi n. sp. Isolated from the Baltic Clam (Macoma balthica) by Characterization of the Ribosomal RNA Locus, and Development of a Species-Specific PCR-Based Diagnostic Assay. Journal of Eukaryotic Microbiology, 2001, 48, 52-61.	1.7	72
93	Lectins From Tunicates: Structure-Function Relationships in Innate Immunity. Advances in Experimental Medicine and Biology, 2001, 484, 275-287.	1.6	12
94	Soluble ?-galactosyl-binding lectin (galectin) from toad ovary: Crystallographic studies of two protein-sugar complexes. Proteins: Structure, Function and Bioinformatics, 2000, 40, 378-388.	2.6	82
95	CHARACTERIZATION OF THE RIBOSOMAL RNA LOCUS OFPERKINSUS ATLANTICUSAND DEVELOPMENT OF A POLYMERASE CHAIN REACTION-BASED DIAGNOSTIC ASSAY. Journal of Parasitology, 2000, 86, 972-978.	0.7	34
96	Nucleotide Sequence Variability in the Nontranscribed Spacer of the rRNA Locus in the Oyster Parasite Perkinsus marinus. Journal of Parasitology, 1999, 85, 650.	0.7	38
97	C-type lectins and galectins mediate innate and adaptive immune functions: their roles in the complement activation pathway. Developmental and Comparative Immunology, 1999, 23, 401-420.	2.3	212
98	Thermodynamics of Bovine Spleen Galectin-1 Binding to Disaccharides: Correlation with Structure and Its Effect on Oligomerization at the Denaturation Temperatureâ€. Biochemistry, 1998, 37, 5867-5877.	2.5	64
99	Species-Specificity and Sensitivity of a PCR-Based Assay for Perkinsus marinus in the Eastern Oyster, Crassostrea virginica: A Comparison with the Fluid Thioglycollate Assay. Journal of Parasitology, 1998, 84, 1237.	0.7	50
100	Galectins from Amphibian Species: Carbohydrate Specificity, Molecular Structure, and Evolution.. Trends in Glycoscience and Glycotechnology, 1997, 9, 131-144.	0.1	11
101	The Primary Structure and Carbohydrate Specificity of a Î²-Galactosyl-binding Lectin from Toad (Bufo) Tj ETQq1 1 0.784314 rgBT /Ove from the Clawed Frog Xenopus laevis. Journal of Biological Chemistry, 1996, 271, 33083-33094.	3.4	40
102	Effect of Fetal Bovine Serum Glycoproteins on the In Vitro Proliferation of the Oyster Parasite Perkinsus marinus: Development of a Fully Defined Medium. Journal of Eukaryotic Microbiology, 1995, 42, 307-312.	1.7	32
103	A Semiquantitative PCR Assay for Assessing Perkinsus marinus Infections in the Eastern Oyster, Crassostrea virginica. Journal of Parasitology, 1995, 81, 577.	0.7	58
104	In Vitro Culture of the Eastern Oyster Parasite Perkinsus marinus: Optimization of the Methodology. Journal of Invertebrate Pathology, 1995, 66, 156-168.	3.2	73
105	Letter to the Glyco-Forum: Galections: conservation of functionally and structurally relevant amino acid residues defines two types of carbohydrate recognition domains. Glycobiology, 1994, 4, 545-548.	2.5	56
106	Inhibition of in vitro replication of the oyster parasite Perkinsus marinus by the natural iron chelators transferrin, lactoferrin, and desferrioxamine. Developmental and Comparative Immunology, 1994, 18, 277-286.	2.3	30
107	Continuous in Vitro Culture of the Eastern Oyster Parasite Perkinsus marinus. Journal of Invertebrate Pathology, 1993, 62, 321-323.	3.2	79
108	Plant and Animal Lectins. , 1990, , 173-245.		4

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109	Heterogeneous humoral and hemocyteassociated lectins with N-acylaminosugar specificities from the blue crab, Callinectes sapidus rathbun. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1986, 85, 23-30.	0.2	13
110	Humoral and cell membrane-associated lectins from invertebrates and lower chordates: Specificity, molecular characterization and their structural relationships with putative recognition molecules from vertebrates. Developmental and Comparative Immunology, 1985, 9, 531-539.	2.3	14
111	A lectin on the hemocyte membrane of the oyster (Crassostrea virginica). Cellular Immunology, 1984, 88, 475-488.	3.0	90
112	Carbohydrate specificities of Birguslatro (coconut crab) serum lectins. Developmental and Comparative Immunology, 1984, 8, 197-202.	2.3	14
113	Serological characterization of humoral lectins from the freshwater prawn Macrobrachiumrosenbergii. Developmental and Comparative Immunology, 1983, 7, 13-20.	2.3	39
114	A cell membrane-associated lectin of the oyster hemocyte. Journal of Invertebrate Pathology, 1982, 40, 367-377.	3.2	78
115	Tunicate lectins: distribution and specificity. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1982, 73, 887-900.	0.2	11