

Isolation and characterization of a lectin from the cortic eggs

Biochemistry

25, 6013-6020

DOI: [10.1021/bi00368a027](https://doi.org/10.1021/bi00368a027)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Localization of polysialoglycoprotein as a major glycoprotein component in cortical alveoli of the unfertilized eggs of <i>Salmo gairdneri</i> . <i>Developmental Biology</i> , 1987, 123, 442-454.	2.0	58
2	Purification and some characteristics of a β -galactoside binding soluble lectin from amphibian ovary. <i>FEBS Letters</i> , 1987, 223, 330-334.	2.8	19
3	The egg cortex: from maturation through fertilization. <i>Cell Differentiation</i> , 1987, 21, 1-19.	0.4	38
4	<i>Bufo japonicus japonicus</i> and <i>Xenopus laevis laevis</i> egg jellies contain structurally related antigens and cortical granule lectin ligands. <i>The Journal of Experimental Zoology</i> , 1988, 245, 78-85.	1.4	14
5	Endogenous lectin secretion into the extracellular matrix of early embryos of <i>Xenopus laevis</i> . <i>Developmental Biology</i> , 1988, 125, 187-194.	2.0	34
6	Immunoelectron Microscopic Demonstration of Cortical Granule Lectins in Coelomic, Unfertilized and Fertilized Eggs of <i>Xenopus laevis</i> . (Xenopus eggs/polyspermy block/cortical granule) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5</i>	1.5	7
7	Proteases released from <i>Xenopus laevis</i> eggs at activation and their role in envelope conversion. <i>Developmental Biology</i> , 1989, 135, 202-211.	2.0	60
8	Purification and Characterization of Echinonectin, a Carbohydrate-Binding Protein from Sea Urchin Eggs. (sea urchin/echinodermata/lectin/echinonectin). <i>Development Growth and Differentiation</i> , 1990, 32, 315-319.	1.5	8
9	Localization and Characterization of Lectins in Yolk Platelets of <i>Xenopus</i> Oocytes. (Xenopus) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 427</i>	1.5	7
10	Ultrastructural aspects of oogenesis and oocyte growth in fish and amphibians. <i>Journal of Electron Microscopy Technique</i> , 1990, 16, 175-201.	1.1	216
11	Chapter 12 Isolation of Extracellular Matrix Structures from <i>Xenopus laevis</i> Oocytes, Eggs, and Embryos. <i>Methods in Cell Biology</i> , 1991, 36, 231-247.	1.1	34
12	Structure and function of the extracellular matrix of anuran eggs. <i>Journal of Electron Microscopy Technique</i> , 1991, 17, 319-335.	1.1	118
13	On the possible role of endogenous lectins in early animal development. <i>Anatomy and Embryology</i> , 1991, 183, 521-36.	1.5	32
14	Interaction of ovary lectin with homologous sperm from <i>Bufo arenarum</i> . <i>Reproduction, Fertility and Development</i> , 1992, 4, 559.	0.4	1
15	Immunoelectrophoretic Identification of Jelly Coat Ligands Bound by the Cortical Granule Lectin from <i>Xenopus laevis</i> Eggs. (anuran fertilization/egg jelly/lectin/ <i>Xenopus laevis</i> /immunoelectrophoresis). <i>Development Growth and Differentiation</i> , 1992, 34, 91-98.	1.5	2
16	<i>Xenopus laevis</i> L-14 lectin is expressed in a typical pattern in the adult, but is absent from embryonic tissues. <i>Glycobiology</i> , 1994, 4, 297-305.	2.5	10
17	Evidence that the ability to respond to a calcium stimulus in exocytosis is determined by the secretory granule membrane: Comparison of exocytosis of injected bovine chromaffin granule membranes and endogenous cortical granules in <i>Xenopus laevis</i> oocytes. <i>Cellular and Molecular Neurobiology</i> , 1994, 14, 245-257.	3.3	13
18	Oviductal Localization of the Cortical Granule Lectin Ligand Involved in the Block to Polyspermy of <i>Xenopus Laevis</i> . (CGL/polyspermy/fertilization/ <i>Xenopus</i> /oviduct). <i>Development Growth and Differentiation</i> , 1994, 36, 615-620.	1.5	5

#	ARTICLE	IF	CITATIONS
19	Localization of cortical granule lectin ligand in <i>Xenopus laevis</i> egg jelly. <i>Development Growth and Differentiation</i> , 1996, 38, 647-652.	1.5	5
20	The Primary Structure and Carbohydrate Specificity of a β -Galactosyl-binding Lectin from Toad (<i>Bufo</i>) Tj ETQq1 1 0.784314 rgBT /Ove from the Clawed Frog <i>Xenopus laevis</i> . <i>Journal of Biological Chemistry</i> , 1996, 271, 33083-33094.	3.4	40
21	Distribution and localization of galectin purified from <i>Rana catesbeiana</i> oocytes. <i>Glycobiology</i> , 1997, 7, 1159-1165.	2.5	7
22	Cloning and expression of a <i>Xenopus laevis</i> oocyte lectin and characterization of its mRNA levels during early development. <i>Glycobiology</i> , 1997, 7, 367-372.	2.5	61
23	Purification and Partial Characterization of 76 kDa Transglutaminase in the Egg Envelope (Chorion) of Rainbow Trout, <i>Oncorhynchus mykiss</i> . <i>Journal of Biochemistry</i> , 1997, 122, 947-954.	1.7	30
24	<i>Xenopus laevis</i> Sperm Egg Adhesion Is Regulated by Modifications in the Sperm Receptor and the Egg Vitelline Envelope. <i>Developmental Biology</i> , 1997, 187, 143-153.	2.0	55
25	Involvement of blood-group-B-active trisaccharides in Ca ²⁺ -dependent cell-cell adhesion in the <i>Xenopus</i> blastula. <i>Development Genes and Evolution</i> , 1998, 208, 9-18.	0.9	25
26	Cloning of the Novel Gene Intelectin, Which Is Expressed in Intestinal Paneth Cells in Mice. <i>Biochemical and Biophysical Research Communications</i> , 1998, 251, 759-762.	2.1	167
27	Enzyme Responsible for Egg Envelope (Chorion) Hardening in Fish: Purification and Partial Characterization of Two Transglutaminases Associated with Their Substrate, Unfertilized Egg Chorion, of the Rainbow Trout, <i>Oncorhynchus mykiss</i> . <i>Journal of Biochemistry</i> , 1998, 124, 917-926.	1.7	30
28	Sperm surface heparin/heparan sulfate is responsible for sperm binding to the uterine envelope in the newt, <i>Cynops pyrrhogaster</i> . <i>Development Growth and Differentiation</i> , 1999, 41, 101-107.	1.5	17
29	Purification, characterization, and molecular cloning of an outer layer protein of carp fertilization envelope. <i>Molecular Reproduction and Development</i> , 1999, 54, 186-193.	2.0	9
31	Molecular Cloning and Functional Expression of a Human Intestinal Lactoferrin Receptor. <i>Biochemistry</i> , 2001, 40, 15771-15779.	2.5	304
32	Human Intelectin Is a Novel Soluble Lectin That Recognizes Galactofuranose in Carbohydrate Chains of Bacterial Cell Wall. <i>Journal of Biological Chemistry</i> , 2001, 276, 23456-23463.	3.4	316
33	Identification and Structural Elucidation of Lectin-Binding Oligosaccharides by Bioaffinity Matrix-Assisted Laser Desorption/Ionization Fourier Transform Mass Spectrometry. <i>Analytical Chemistry</i> , 2001, 73, 3556-3561.	6.5	13
34	The biology of cortical granules. <i>International Review of Cytology</i> , 2001, 209, 117-206.	6.2	111
35	Cysteine string proteins are associated with cortical granules of <i>Xenopus laevis</i> oocytes. <i>Cell and Tissue Research</i> , 2001, 303, 211-219.	2.9	7
36	Human homologs of the <i>Xenopus</i> oocyte cortical granule lectin XL35. <i>Glycobiology</i> , 2001, 11, 65-73.	2.5	96
37	High-Avidity, Low-Affinity Multivalent Interactions and the Block to Polyspermy in <i>Xenopus laevis</i> . <i>Journal of the American Chemical Society</i> , 2002, 124, 13035-13046.	13.7	62

#	ARTICLE	IF	CITATIONS
38	Immunohistochemical localization of rhamnose-binding lectins in the steelhead trout (<i>Oncorhynchus mykiss</i>). <i>Developmental and Comparative Immunology</i> , 2002, 26, 543-550.	2.3	61
39	Chemoselective glycosylations of sterically hindered glycosyl acceptors. <i>Tetrahedron Letters</i> , 2002, 43, 9429-9431.	1.4	26
40	Developmental expression of XEEL, a novel molecule of the <i>Xenopus</i> oocyte cortical granule lectin family. <i>Development Genes and Evolution</i> , 2003, 213, 368-370.	0.9	23
41	Determination of N-Glycosylation Sites and Site Heterogeneity in Glycoproteins. <i>Analytical Chemistry</i> , 2003, 75, 5628-5637.	6.5	232
42	<i>Xenopus laevis</i> Oocytes. , 2003, 227, 245-258.		53
43	Isolation, characterization, and extra-embryonic secretion of the <i>Xenopus laevis</i> embryonic epidermal lectin, XEEL. <i>Glycobiology</i> , 2004, 15, 281-290.	2.5	25
44	The <i>Xenopus laevis</i> cortical granule lectin: cDNA cloning, developmental expression, and identification of the eglectin family of lectins. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2004, 137, 115-129.	1.8	21
45	The X-lectins: A new family with homology to the <i>Xenopus laevis</i> oocyte lectin XL-35. <i>Glycoconjugate Journal</i> , 2004, 21, 443-450.	2.7	46
46	Proteolysis of <i>Xenopus laevis</i> egg envelope ZPA triggers envelope hardening. <i>Biochemical and Biophysical Research Communications</i> , 2004, 324, 648-654.	2.1	38
47	A C-type lectin associated and translocated with cortical granules during oocyte maturation and egg fertilization in fish. <i>Developmental Biology</i> , 2004, 265, 341-354.	2.0	95
48	<i>Xenopus</i> galectin-VIIa binds N-glycans of members of the cortical granule lectin family (xCG and) Tj ETQq0 0 0 rgBT JOverlock 10 Tf 50	2.5	14
49	Defending the Zygote: Search for the Ancestral Animal Block to Polyspermy. <i>Current Topics in Developmental Biology</i> , 2005, 72, 1-151.	2.2	120
50	Intelectin:â€‰ A Novel Lipid Raft-Associated Protein in the Enterocyte Brush Border. <i>Biochemistry</i> , 2006, 45, 9188-9197.	2.5	100
51	New weapons in the war on worms: Identification of putative mechanisms of immune-mediated expulsion of gastrointestinal nematodes. <i>International Journal for Parasitology</i> , 2006, 36, 723-733.	3.1	81
52	Novel Effector Molecules in Type 2 Inflammation: Lessons Drawn from Helminth Infection and Allergy. <i>Journal of Immunology</i> , 2006, 177, 1393-1399.	0.8	118
53	A Role for Myosin 1e in Cortical Granule Exocytosis in <i>Xenopus</i> Oocytes. <i>Journal of Biological Chemistry</i> , 2007, 282, 29504-29513.	3.4	22
54	Differential structure and activity between human and mouse intelectin-1: Human intelectin-1 is a disulfide-linked trimer, whereas mouse homologue is a monomer. <i>Glycobiology</i> , 2007, 17, 1045-1051.	2.5	57
55	Identification of Novel Members of the <i>Xenopus</i> Ca ²⁺ -dependent Lectin Family and Analysis of Their Gene Expression During Tail Regeneration and Development. <i>Journal of Biochemistry</i> , 2007, 141, 479-488.	1.7	8

#	ARTICLE	IF	CITATIONS
56	The expression of intelectin in sheep goblet cells and upregulation by interleukin-4. <i>Veterinary Immunology and Immunopathology</i> , 2007, 120, 41-46.	1.2	32
57	Anuran and pig egg zona pellucida glycoproteins in fertilization and early development. <i>International Journal of Developmental Biology</i> , 2008, 52, 683-701.	0.6	50
58	Immunohistochemical localization of rainbow trout ladderlectin and intelectin in healthy and infected rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Fish and Shellfish Immunology</i> , 2009, 26, 154-163.	3.6	23
59	Characterization and comparative analyses of zebrafish intelectins: Highly conserved sequences, diversified structures and functions. <i>Fish and Shellfish Immunology</i> , 2009, 26, 396-405.	3.6	43
60	Antiproliferative effects of galectin-1 from <i>Rana catesbeiana</i> eggs on human leukemia cells and its binding proteins in human cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2011, 47, 728-734.	1.5	0
61	A unique epidermal mucus lectin identified from catfish (<i>Silurus asotus</i>): first evidence of intelectin in fish skin slime. <i>Journal of Biochemistry</i> , 2011, 150, 501-514.	1.7	55
62	Galactofuranose in eukaryotes: aspects of biosynthesis and functional impact. <i>Glycobiology</i> , 2012, 22, 456-469.	2.5	126
63	Comparative genomic and phylogenetic analyses of the intelectin gene family: Implications for their origin and evolution. <i>Developmental and Comparative Immunology</i> , 2013, 41, 189-199.	2.3	24
64	Bacterial lipopolysaccharides stimulate production of XCL1, a calcium-dependent lipopolysaccharide-binding serum lectin, in <i>Xenopus laevis</i> . <i>Developmental and Comparative Immunology</i> , 2013, 40, 94-102.	2.3	7
65	Structures of <i>Xenopus</i> Embryonic Epidermal Lectin Reveal a Conserved Mechanism of Microbial Glycan Recognition. <i>Journal of Biological Chemistry</i> , 2016, 291, 5596-5610.	3.4	33
66	Identification and characterization of a novel intelectin in the digestive tract of <i>Xenopus laevis</i> . <i>Developmental and Comparative Immunology</i> , 2016, 59, 229-239.	2.3	8
67	Characterization and expression analysis of an intelectin gene from <i>Megalobrama amblycephala</i> with excellent bacterial binding and agglutination activity. <i>Fish and Shellfish Immunology</i> , 2017, 61, 100-110.	3.6	20
68	Isolation, Amino Acid Sequences, and Plausible Functions of the Galacturonic Acid-Binding Egg Lectin of the Sea Hare <i>Aplysia kurodai</i> . <i>Marine Drugs</i> , 2017, 15, 161.	4.6	6
69	Saccharide binding by intelectins. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 1010-1016.	7.5	1
70	A comparative review of intelectins. <i>Scandinavian Journal of Immunology</i> , 2020, 92, e12882.	2.7	24
71	Novel insights into the immune regulatory effects of <i>Megalobrama amblycephala</i> intelectin on the phagocytosis and killing activity of macrophages. <i>Molecular Immunology</i> , 2021, 137, 145-154.	2.2	9
72	Fertilization in Amphibians. , 2000, , 147-191.		15
73	Activation of protein kinase C β triggers cortical granule exocytosis in <i>Xenopus</i> oocytes. <i>Journal of Cell Science</i> , 2002, 115, 1313-1320.	2.0	18

#	ARTICLE	IF	CITATIONS
74	X-epilectin: a novel epidermal fucoselectin regulated by BMP signalling. <i>International Journal of Developmental Biology</i> , 2004, 48, 1119-1129.	0.6	8
76	Comparative studies of the agglutination of tumor cells and erythrocytes by <i>Plecoglossus altivelis</i> (Ayu fish) roe lectin.. <i>Seibutsu Butsuri Kagaku</i> , 1993, 37, 31-40.	0.1	1
77	Immunoproteins. , 1994, , 220-248.		0
78	Cryo-Em Structure of Lamprey Serum Spherical Lectin Reveals Efficient Recognition Mechanism for the Initiation and Regulation of Immunity. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
79	Biochemical and ligand binding properties of recombinant <i>Xenopus laevis</i> cortical granule lectin-1. <i>Heliyon</i> , 2022, 8, e10396.	3.2	0
80	A novel serum spherical lectin from lamprey reveals a more efficient mechanism of immune initiation and regulation in jawless vertebrates. <i>Cellular and Molecular Biology Letters</i> , 2022, 27, .	7.0	1
81	Intelectin enhances the phagocytosis of macrophages via CDC42-WASF2-ARPC2 signaling axis in <i>Megalobrama amblycephala</i> . <i>International Journal of Biological Macromolecules</i> , 2023, 236, 124027.	7.5	3
83	Common carp intelectin 3 (cITLN3) plays a role in the innate immune response. <i>Fish and Shellfish Immunology</i> , 2023, 141, 109057.	3.6	1
84	<i>>Xenopus</i></i>> Galectin: Molecular Function and Evolution. <i>Trends in Glycoscience and Glycotechnology</i> , 2023, 35, E68-E72.	0.1	0
85	ãf,,ãf jã,-ã,"ãf «ã,-ãf-ã,-ãfãf 3i¼4šã^†ãã©©ÿèf½ã•é€²ãCE-. <i>Trends in Glycoscience and Glycotechnology</i> , 2023,ã5, J68-J7ã.		