Clelia Ferreira

List of Publications by Year
in descending order

104 papers	4,459 citations	101543 36 h-index	118850 62 g-index
106 all docs	106 docs citations	106 times ranked	2588 citing authors

#	Article	IF	Citations
1	Insect digestive enzymes: properties, compartmentalization and function. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1994, 109, 1-62.	0.2	585
2	Distribution of digestive enzymes among the endo- and ectoperitrophic spaces and midgut cells of Rhynchosciara and its physiological significance. Journal of Insect Physiology, 1979, 25, 487-494.	2.0	220
3	An Insight into the Transcriptome of the Digestive Tract of the Bloodsucking Bug, Rhodnius prolixus. PLoS Neglected Tropical Diseases, 2014, 8, e2594.	3.0	184
4	Potential role for gut microbiota in cell wall digestion and glucoside detoxification in Tenebrio molitor larvae. Journal of Insect Physiology, 2006, 52, 593-601.	2.0	161
5	Origin, distribution, properties and functions of the major Rhodnius prolixus midgut hydrolases. Insect Biochemistry, 1988, 18, 423-434.	1.8	99
6	Peritrophic membrane role in enhancing digestive efficiency. Journal of Insect Physiology, 2008, 54, 1413-1422.	2.0	95
7	Phylogenetic considerations of insect digestion. Insect Biochemistry, 1985, 15, 443-449.	1.8	94
8	Digestive enzymes trapped between and associated with the double plasma membranes of Rhodnius prolixus posterior midgut cells. Insect Biochemistry, 1988, 18, 521-530.	1.8	94
9	The peritrophic membrane ofSpodoptera frugiperda: Secretion of peritrophins and role in immobilization and recycling digestive enzymes. Archives of Insect Biochemistry and Physiology, 2001, 47, 62-75.	1.5	94
10	Biochemistry and Molecular Biology of Digestion. , 2012, , 365-418.		94
11	Sequences of cDNAs and expression of genes encoding chitin synthase and chitinase in the midgut of Spodoptera frugiperda. Insect Biochemistry and Molecular Biology, 2005, 35, 1249-1259.	2.7	89
12	Further evidence that enzymes involved in the final stages of digestion by Rhynchosciara do not enter the endoperitrophic space. Insect Biochemistry, 1983, 13, 143-150.	1.8	83
13	The physiological role of the peritrophic membrane and trehalase: Digestive enzymes in the midgut and excreta of starved larvae of Rhynchosciara. Journal of Insect Physiology, 1981, 27, 325-331.	2.0	81
14	Digestive enzymes in midgut cells, endo-and ectoperitrophic contents, and peritrophic membranes ofSpodoptera frugiperda (lepidoptera) larvae. Archives of Insect Biochemistry and Physiology, 1994, 26, 299-313.	1.5	73
15	The larval midgut of the housefly (Musca domestica): Ultrastructure, fluid fluxes and ion secretion in relation to the organization of digestion. Journal of Insect Physiology, 1988, 34, 463-472.	2.0	68
16	Purification, characterization and molecular cloning of the major chitinase from Tenebrio molitor larval midgut. Insect Biochemistry and Molecular Biology, 2006, 36, 789-800.	2.7	68
17	Plasma membranes from insect midgut cells. Anais Da Academia Brasileira De Ciencias, 2006, 78, 255-269.	0.8	68
18	Properties of the digestive enzymes and the permeability of the peritrophic membrane of Spodoptera frugiperda (Lepidoptera) larvae. Comparative Biochemistry and Physiology A, Comparative Physiology, 1994, 107, 631-640.	0.6	67

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19	The<i>Aedes aegypti</i>larval transcriptome: a comparative perspective with emphasis on trypsins and the domain structure of peritrophins. Insect Molecular Biology, 2009, 18, 33-44.	2.0	65
20	Action pattern, specificity, lytic activities, and physiological role of five digestive Î²-glucanases isolated from Periplaneta americana. Insect Biochemistry and Molecular Biology, 2003, 33, 1085-1097.	2.7	60
21	Consumption of food and spatial organization of digestion in the cassava hornworm, Erinnyis ello. Journal of Insect Physiology, 1983, 29, 707-714.	2.0	59
22	The larval midgut of the cassava hornworm (Erinnyis ello). Cell and Tissue Research, 1984, 237, 565.	2.9	58
23	Nature of the anchors of membrane-bound aminopeptidase, amylase, and trypsin and secretory mechanisms in Spodoptera frugiperda (Lepidoptera) midgut cells. Journal of Insect Physiology, 1999, 45, 29-37.	2.0	57
24	Characterization of a Î²-1,3-glucanase active in the alkaline midgut of Spodoptera frugiperda larvae and its relation to Î²-glucan-binding proteins. Insect Biochemistry and Molecular Biology, 2010, 40, 861-872.	2.7	56
25	Purification, characterization and sequencing of the major Î²-1,3-glucanase from the midgut of Tenebrio molitor larvae. Insect Biochemistry and Molecular Biology, 2009, 39, 861-874.	2.7	53
26	Purification, molecular cloning, and properties of a Î²-glycosidase isolated from midgut lumen of Tenebrio molitor (Coleoptera) larvae. Insect Biochemistry and Molecular Biology, 2001, 31, 1065-1076.	2.7	52
27	Amino acid residues involved in substrate binding and catalysis in an insect digestive Î²-glycosidase. BBA - Proteins and Proteomics, 2001, 1545, 41-52.	2.1	52
28	Digestive enzymes associated with the glycocalyx, microvillar membranes and secretory vesicles from midgut cells of Tenebrio molitor larvae. Insect Biochemistry, 1990, 20, 839-847.	1.8	51
29	Substrate Specificities of Midgut Î²-Glycosidases from Insects of Different Orders. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1998, 119, 219-225.	1.6	50
30	Fine structure of the larval midgut of the fly Rhynchosciara and its physiological implications. Journal of Insect Physiology, 1981, 27, 559-570.	2.0	49
31	Spatial organization of digestion, secretory mechanisms and digestive enzyme properties in Pheropsophus aequinoctialis (Coleoptera: Carabidae). Insect Biochemistry, 1989, 19, 383-391.	1.8	49
32	Trypsin secretion in Musca domestica larval midguts : A biochemical and immunocytochemical study. Insect Biochemistry and Molecular Biology, 1996, 26, 337-346.	2.7	48
33	The effect of dietary plant glycosides on larval midgut Î²-glucosidases from Spodoptera frugiperda and Diatraea saccharalis. Insect Biochemistry and Molecular Biology, 1997, 27, 55-59.	2.7	48
34	Purification and properties of a Î²-glycosidase purified from midgut cells of Spodoptera frugiperda (Lepidoptera) larvae. Insect Biochemistry and Molecular Biology, 2000, 30, 1139-1146.	2.7	47
35	The role of carboxyl, guanidine and imidazole groups in catalysis by a midgut trehalase purified from an insect larvae. Insect Biochemistry and Molecular Biology, 2004, 34, 1089-1099.	2.7	45
36	Spatial organization of digestion in the larval and imaginal stages of the sciarid fly Trichosia pubescens. Insect Biochemistry, 1984, 14, 631-638.	1.8	44

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37	Evolutionary trends of digestion and absorption in the major insect orders. Arthropod Structure and Development, 2020, 56, 100931.	1.4	39
38	Compartmentalization of the digestive process in Abracris flavolineata (Orthoptera: Acrididae) adults. Insect Biochemistry, 1990, 20, 267-274.	1.8	38
39	Sequencing of <i>Spodoptera frugiperda</i> midgut trehalases and demonstration of secretion of soluble trehalase by midgut columnar cells. Insect Molecular Biology, 2009, 18, 769-784.	2.0	38
40	Identification of midgut microvillar proteins from Tenebrio molitor and Spodoptera frugiperda by cDNA library screenings with antibodies. Journal of Insect Physiology, 2007, 53, 1112-1124.	2.0	37
41	Purification and characterization of three Î²-glycosidases from midgut of the sugar cane borer, Diatraea saccharalis. Insect Biochemistry and Molecular Biology, 2003, 33, 81-92.	2.7	33
42	Physiology of digestion and the molecular characterization of the major digestive enzymes from Periplaneta americana. Journal of Insect Physiology, 2014, 70, 22-35.	2.0	33
43	Evolutionary considerations of the spatial organization of digestion in the luminescent predaceous larvae of Pyrearinus termitilluminans (Coleoptera:Elateridae). Insect Biochemistry, 1986, 16, 811-817.	1.8	32
44	An immunocytochemical investigation of trypsin secretion in the midgut of the stablefly, Stomoxys calcitrans. Insect Biochemistry and Molecular Biology, 1996, 26, 445-453.	2.7	32
45	Ultrastructure and secretory activity of Abracris flavolineata (Orthoptera: Acrididae) midguts. Journal of Insect Physiology, 1997, 43, 465-473.	2.0	32
46	The catalytic and other residues essential for the activity of the midgut trehalase from Spodoptera frugiperda. Insect Biochemistry and Molecular Biology, 2010, 40, 733-741.	2.7	32
47	Molecular physiology of insect midgut. Advances in Insect Physiology, 2019, 56, 117-163.	2.7	32
48	Function of midgut caeca and ventriculus: Microvilli bound enzymes from cells of different midgut regions of starving and feeding Rhynchosciara Americana larvae. Insect Biochemistry, 1982, 12, 257-262.	1.8	31
49	Midgut amylase, lysozyme, aminopeptidase, and trehalase from larvae and adults ofMusca domestica. Archives of Insect Biochemistry and Physiology, 1988, 9, 283-297.	1.5	30
50	Absorption of toxic Î²-glucosides produced by plants and their effect on tissue trehalases from insects. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2006, 143, 367-373.	1.6	30
51	Transcriptomic analyses uncover emerging roles of mucins, lysosome/secretory addressing and detoxification pathways in insect midguts. Current Opinion in Insect Science, 2018, 29, 34-40.	4.4	30
52	Soluble aminopeptidases from cytosol and luminal contents of Rhynchosciara americana midgut caeca. Insect Biochemistry, 1984, 14, 145-150.	1.8	29
53	The interplay of processivity, substrate inhibition and a secondary substrate binding site of an insect exo-Î²-1,3-glucanase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 1079-1091.	2.3	29
54	Substrate specificity and binding loci for inhibitors in an aminopeptidase purified from the plasma membrane of midgut cells of an insect (Rhynchosciara americana) larva. Archives of Biochemistry and Biophysics, 1986, 244, 478-485.	3.0	28

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55	The role of amino-acid residues Q39 and E451 in the determination of substrate specificity of the Spodoptera frugiperda Î²-glycosidase. FEBS Journal, 2002, 269, 3705-3714.	0.2	27
56	Characterization of a Î²-glycosidase highly active on disaccharides and of a Î²-galactosidase from Tenebrio molitor midgut lumen. Insect Biochemistry and Molecular Biology, 2003, 33, 253-265.	2.7	26
57	Molecular machinery of starch digestion and glucose absorption along the midgut of Musca domestica. Journal of Insect Physiology, 2018, 109, 11-20.	2.0	25
58	Direct detection of underivatized chitooligosaccharides produced through chitinase action using capillary zone electrophoresis. Analytical Biochemistry, 2008, 373, 99-103.	2.4	24
59	Secretion of Î²-glycosidase by middle midgut cells and its recycling in the midgut of Tenebrio molitor larvae. Journal of Insect Physiology, 2002, 48, 113-118.	2.0	23
60	Midgut proteins released by microapocrine secretion in Spodoptera frugiperda. Journal of Insect Physiology, 2013, 59, 70-80.	2.0	22
61	Recruited lysosomal enzymes as major digestive enzymes in insects. Biochemical Society Transactions, 2019, 47, 615-623.	3.4	21
62	Minor aminopeptidases purified from the plasma membrane of midgut caeca cells of an insect (Rhynchosciara americana) larva. Insect Biochemistry, 1985, 15, 619-625.	1.8	20
63	Midgut Î²-D-glucosidases from Abracris flavolineata (Orthoptera: Acrididae). Physical properties, substrate specificities and function. Insect Biochemistry and Molecular Biology, 1995, 25, 835-843.	2.7	20
64	Cytoskeleton removal and characterization of the microvillar membranes isolated from two midgut regions of Spodoptera frugiperda (Lepidoptera). Insect Biochemistry and Molecular Biology, 1997, 27, 793-801.	2.7	20
65	Subsites of Trypsin Active Site Favor Catalysis or Substrate Binding. Biochemical and Biophysical Research Communications, 2002, 290, 494-497.	2.1	20
66	Active site characterization and molecular cloning of Tenebrio molitor midgut trehalase and comments on their insect homologs. Insect Biochemistry and Molecular Biology, 2013, 43, 768-780.	2.7	20
67	Role of cathepsins D in the midgut of Dysdercus peruvianus. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2017, 204, 45-52.	1.6	20
68	Insect midgut carboxypeptidases with emphasis on <scp>S</scp>10 hemipteran and <scp>M</scp>14 lepidopteran carboxypeptidases. Insect Molecular Biology, 2015, 24, 222-239.	2.0	19
69	Intracellular distribution of hydrolases in midgut caeca cels from an insect with emphasis on plasma membrane-bound enzymes. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1980, 66, 467-473.	0.2	17
70	Chemical determinations in microvillar membranes purified from brush-borders isolated from the larval midgut of one coleoptera and two diptera species. Insect Biochemistry and Molecular Biology, 1995, 25, 417-426.	2.7	17
71	Properties of digestive glycosidases and peptidases and the permeability of the peritrophic membranes of Abracris flavolineata (Orthoptera: Acrididae). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1999, 123, 241-250.	1.6	17
72	A physiologically-oriented transcriptomic analysis of the midgut of Tenebrio molitor. Journal of Insect Physiology, 2017, 99, 58-66.	2.0	17

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73	The haemolymph of the sphingidae moth Erinnyis ello. Comparative Biochemistry and Physiology A, Comparative Physiology, 1982, 73, 373-377.	0.6	15
74	The role of residues R97 and Y331 in modulating the pH optimum of an insect Î²-glycosidase of familyâ€ƒ1. FEBS Journal, 2003, 270, 4866-4875.	0.2	15
75	Domain structure and expression along the midgut and carcass of peritrophins and cuticle proteins analogous to peritrophins in insects with and without peritrophic membrane. Journal of Insect Physiology, 2019, 114, 1-9.	2.0	15
76	Distribution of nutrient reserves during spinning in tissues of the larva of the fly, Rhynchosciara americana. Journal of Insect Physiology, 1975, 21, 1501-1509.	2.0	14
77	Consumption of sugars, hemicellulose, starch, pectin and cellulose by the grasshopper <i>Aracris flavolineata</i>. Entomologia Experimentalis Et Applicata, 1992, 65, 113-117.	1.4	13
78	Aminopeptidase a fromRhynchosciara americana (Diptera) larval midguts: Properties and midgut distribution. Archives of Insect Biochemistry and Physiology, 1994, 27, 301-315.	1.5	11
79	Cathepsins L and B in Dysdercus peruvianus, Rhodnius prolixus, and Mahanarva fimbriolata. Looking for enzyme adaptations to digestion. Insect Biochemistry and Molecular Biology, 2020, 127, 103488.	2.7	11
80	The Genome of Rhyzopertha dominica (Fab.) (Coleoptera: Bostrichidae): Adaptation for Success. Genes, 2022, 13, 446.	2.4	10
81	Properties of arylamidases found in cytosol, microvilli and in luminal contents of Rhynchosciara americana midgut caeca. Insect Biochemistry, 1982, 12, 413-417.	1.8	9
82	Structure, processing and midgut secretion of putative peritrophic membrane ancillary protein (PMAP) from Tenebrio molitor larvae. Insect Biochemistry and Molecular Biology, 2008, 38, 233-243.	2.7	9
83	Insect midgut Î±-mannosidases from family 38 and 47 with emphasis on those of Tenebrio molitor. Insect Biochemistry and Molecular Biology, 2015, 67, 94-104.	2.7	9
84	Active subsite properties, subsite residues and targeting to lysosomes or midgut lumen of cathepsins L from the beetle Tenebrio molitor. Insect Biochemistry and Molecular Biology, 2017, 89, 17-30.	2.7	9
85	De novo transcriptome sequencing and comparative analysis of midgut tissues of four non-model insects pertaining to Hemiptera, Coleoptera, Diptera and Lepidoptera. Gene, 2017, 627, 85-93.	2.2	8
86	Detergent-resistant domains in Spodoptera frugiperda midgut microvillar membranes and their relation to microapocrine secretion. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2019, 235, 8-18.	1.6	8
87	Ultrastructural and biochemical aspects of digestion in the imagoes of the fly <i>Rhynchosciara americana</i>. Entomologia Experimentalis Et Applicata, 1993, 66, 135-143.	1.4	7
88	Investigation of the substrate specificity of a Î²-glycosidase from Spodopteraâ€ƒfrugiperda using site-directed mutagenesis and bioenergetics analysis. FEBS Journal, 2004, 271, 4169-4177.	0.2	7
89	Molecular mechanisms associated with acidification and alkalization along the larval midgut of Musca domestica. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2019, 237, 110535.	1.8	7
90	Midgut fluxes and digestive enzyme recycling in Musca domestica: A molecular approach. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 241, 110627.	1.8	7

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91	Midgut dipeptidases from Rhynchosciara americana (diptera) larvae. Properties of soluble and membrane-bound forms. Insect Biochemistry and Molecular Biology, 1995, 25, 303-310.	2.7	6
92	The Evolution, Gene Expression Profile, and Secretion of Digestive Peptidases in Lepidoptera Species. Catalysts, 2020, 10, 217.	3.5	6
93	A proteomic approach to identify digestive enzymes, their exocytic and microapocrine secretory routes and their compartmentalization in the midgut of Spodoptera frugiperda. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2022, 257, 110670.	1.6	6
94	Molecular and Evolutionary Physiology of Insect Digestion. , 2012, , 93-119.		5
95	Gelsolin role in microapocrine secretion. Insect Molecular Biology, 2016, 25, 810-820.	2.0	5
96	The detergent form of the major aminopeptidase from the plasma membrane of midgut caeca cells of Rhynchosciara americana (Diptera) larva. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1986, 84, 373-376.	0.2	3
97	Properties of midgut hydrolases from nymphs and adults of the hematophagous bug Rhodnius prolixus. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1988, 90, 433-437.	0.2	3
98	Transcriptomic and proteomic analysis of the underlying mechanisms of digestion of triacylglycerols and phosphatides and absorption and fate of fatty acids along the midgut of Musca domestica. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2021, 39, 100826.	1.0	3
99	Chemical, biological and evolutionary aspects of beetle bioluminescence. Arkivoc, 2007, 2007, 311-323.	0.5	3
100	N-glycosylation in Spodoptera frugiperda (Lepidoptera: Noctuidae) midgut membrane-bound glycoproteins. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2020, 246-247, 110464.	1.6	2
101	Digestive enzymes in close and distant genera of a same family: Properties of midgut hydrolases from luminescent Pyrophorus divergens (Coleoptera: Elateridae) larvae. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1987, 87, 755-759.	0.2	1
102	Conformational changes on ligand binding in wild-type and mutants from Spodoptera frugiperda midgut trehalase. Biochemistry and Biophysics Reports, 2015, 4, 215-223.	1.3	1
103	Where do we aspire to publish? A position paper on scientific communication in biochemistry and molecular biology. Brazilian Journal of Medical and Biological Research, 2019, 52, e8935.	1.5	1
104	Utilization of nitrogenous compounds, fat and orthophosphate by the grasshopper abracris flavolineata. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1992, 103, 443-445.	0.2	0