

Clelia Ferreira

List of Publications by Year in descending order

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104
papers

4,459
citations

101543

36
h-index

118850

62
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106
all docs

106
docs citations

106
times ranked

2588
citing authors

#	ARTICLE	IF	CITATIONS
1	A proteomic approach to identify digestive enzymes, their exocytic and microapocrine secretory routes and their compartmentalization in the midgut of <i>Spodoptera frugiperda</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2022, 257, 110670.	1.6	6
2	The Genome of <i>Rhyzopertha dominica</i> (Fab.) (Coleoptera: Bostrichidae): Adaptation for Success. <i>Genes</i> , 2022, 13, 446.	2.4	10
3	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 <i>Musca domestica</i> . <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2021, 39, 100826.	1.0	3
4	Midgut fluxes and digestive enzyme recycling in <i>Musca domestica</i> : A molecular approach. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020, 241, 110627.	1.8	7
5	Cathepsins L and B in <i>Dysdercus peruvianus</i> , <i>Rhodnius prolixus</i> , and <i>Mahanarva fimbriolata</i> . Looking for enzyme adaptations to digestion. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 127, 103488.	2.7	11
6	N-glycosylation in <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae) midgut membrane-bound glycoproteins. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2020, 246-247, 110464.	1.6	2
7	The Evolution, Gene Expression Profile, and Secretion of Digestive Peptidases in Lepidoptera Species. <i>Catalysts</i> , 2020, 10, 217.	3.5	6
8	Evolutionary trends of digestion and absorption in the major insect orders. <i>Arthropod Structure and Development</i> , 2020, 56, 100931.	1.4	39
9	Molecular mechanisms associated with acidification and alkalization along the larval midgut of <i>Musca domestica</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2019, 237, 110535.	1.8	7
10	Domain structure and expression along the midgut and carcass of peritrophins and cuticle proteins analogous to peritrophins in insects with and without peritrophic membrane. <i>Journal of Insect Physiology</i> , 2019, 114, 1-9.	2.0	15
11	Detergent-resistant domains in <i>Spodoptera frugiperda</i> midgut microvillar membranes and their relation to microapocrine secretion. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2019, 235, 8-18.	1.6	8
12	Recruited lysosomal enzymes as major digestive enzymes in insects. <i>Biochemical Society Transactions</i> , 2019, 47, 615-623.	3.4	21
13	Molecular physiology of insect midgut. <i>Advances in Insect Physiology</i> , 2019, 56, 117-163.	2.7	32
14	Where do we aspire to publish? A position paper on scientific communication in biochemistry and molecular biology. <i>Brazilian Journal of Medical and Biological Research</i> , 2019, 52, e8935.	1.5	1
15	Molecular machinery of starch digestion and glucose absorption along the midgut of <i>Musca domestica</i> . <i>Journal of Insect Physiology</i> , 2018, 109, 11-20.	2.0	25
16	Transcriptomic analyses uncover emerging roles of mucins, lysosome/secretory addressing and detoxification pathways in insect midguts. <i>Current Opinion in Insect Science</i> , 2018, 29, 34-40.	4.4	30
17	De novo transcriptome sequencing and comparative analysis of midgut tissues of four non-model insects pertaining to Hemiptera, Coleoptera, Diptera and Lepidoptera. <i>Gene</i> , 2017, 627, 85-93.	2.2	8
18	A physiologically-oriented transcriptomic analysis of the midgut of <i>Tenebrio molitor</i> . <i>Journal of Insect Physiology</i> , 2017, 99, 58-66.	2.0	17

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19	Role of cathepsins D in the midgut of <i>Dysdercus peruvianus</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2017, 204, 45-52.	1.6	20
20	Active subsite properties, subsite residues and targeting to lysosomes or midgut lumen of cathepsins L from the beetle <i>Tenebrio molitor</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2017, 89, 17-30.	2.7	9
21	Gelsolin role in microapocrine secretion. <i>Insect Molecular Biology</i> , 2016, 25, 810-820.	2.0	5
22	Conformational changes on ligand binding in wild-type and mutants from <i>Spodoptera frugiperda</i> midgut trehalase. <i>Biochemistry and Biophysics Reports</i> , 2015, 4, 215-223.	1.3	1
23	Insect midgut carboxypeptidases with emphasis on <i>S</i> 10 hemipteran and <i>M</i> 14 lepidopteran carboxypeptidases. <i>Insect Molecular Biology</i> , 2015, 24, 222-239.	2.0	19
24	Insect midgut α -mannosidases from family 38 and 47 with emphasis on those of <i>Tenebrio molitor</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015, 67, 94-104.	2.7	9
25	An Insight into the Transcriptome of the Digestive Tract of the Bloodsucking Bug, <i>Rhodnius prolixus</i> . <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2594.	3.0	184
26	Physiology of digestion and the molecular characterization of the major digestive enzymes from <i>Periplaneta americana</i> . <i>Journal of Insect Physiology</i> , 2014, 70, 22-35.	2.0	33
27	Midgut proteins released by microapocrine secretion in <i>Spodoptera frugiperda</i> . <i>Journal of Insect Physiology</i> , 2013, 59, 70-80.	2.0	22
28	Active site characterization and molecular cloning of <i>Tenebrio molitor</i> midgut trehalase and comments on their insect homologs. <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 768-780.	2.7	20
29	Molecular and Evolutionary Physiology of Insect Digestion. , 2012, , 93-119.		5
30	Biochemistry and Molecular Biology of Digestion. , 2012, , 365-418.		94
31	The catalytic and other residues essential for the activity of the midgut trehalase from <i>Spodoptera frugiperda</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2010, 40, 733-741.	2.7	32
32	Characterization of a β -1,3-glucanase active in the alkaline midgut of <i>Spodoptera frugiperda</i> larvae and its relation to β -glucan-binding proteins. <i>Insect Biochemistry and Molecular Biology</i> , 2010, 40, 861-872.	2.7	56
33	The <i>Aedes aegypti</i> larval transcriptome: a comparative perspective with emphasis on trypsins and the domain structure of peritrophins. <i>Insect Molecular Biology</i> , 2009, 18, 33-44.	2.0	65
34	Sequencing of <i>Spodoptera frugiperda</i> midgut trehalases and demonstration of secretion of soluble trehalase by midgut columnar cells. <i>Insect Molecular Biology</i> , 2009, 18, 769-784.	2.0	38
35	Purification, characterization and sequencing of the major β -1,3-glucanase from the midgut of <i>Tenebrio molitor</i> larvae. <i>Insect Biochemistry and Molecular Biology</i> , 2009, 39, 861-874.	2.7	53
36	Direct detection of underivatized chitooligosaccharides produced through chitinase action using capillary zone electrophoresis. <i>Analytical Biochemistry</i> , 2008, 373, 99-103.	2.4	24

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37	Peritrophic membrane role in enhancing digestive efficiency. <i>Journal of Insect Physiology</i> , 2008, 54, 1413-1422.	2.0	95
38	Structure, processing and midgut secretion of putative peritrophic membrane ancillary protein (PMAP) from <i>Tenebrio molitor</i> larvae. <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 233-243.	2.7	9
39	The interplay of processivity, substrate inhibition and a secondary substrate binding site of an insect β -1,3-glucanase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 1079-1091.	2.3	29
40	Identification of midgut microvillar proteins from <i>Tenebrio molitor</i> and <i>Spodoptera frugiperda</i> by cDNA library screenings with antibodies. <i>Journal of Insect Physiology</i> , 2007, 53, 1112-1124.	2.0	37
41	Chemical, biological and evolutionary aspects of beetle bioluminescence. <i>Arkivoc</i> , 2007, 2007, 311-323.	0.5	3
42	Absorption of toxic β -glucosides produced by plants and their effect on tissue trehalases from insects. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2006, 143, 367-373.	1.6	30
43	Purification, characterization and molecular cloning of the major chitinase from <i>Tenebrio molitor</i> larval midgut. <i>Insect Biochemistry and Molecular Biology</i> , 2006, 36, 789-800.	2.7	68
44	Plasma membranes from insect midgut cells. <i>Anais Da Academia Brasileira De Ciencias</i> , 2006, 78, 255-269.	0.8	68
45	Potential role for gut microbiota in cell wall digestion and glucoside detoxification in <i>Tenebrio molitor</i> larvae. <i>Journal of Insect Physiology</i> , 2006, 52, 593-601.	2.0	161
46	Sequences of cDNAs and expression of genes encoding chitin synthase and chitinase in the midgut of <i>Spodoptera frugiperda</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2005, 35, 1249-1259.	2.7	89
47	Investigation of the substrate specificity of a β -glucosidase from <i>Spodoptera frugiperda</i> using site-directed mutagenesis and bioenergetics analysis. <i>FEBS Journal</i> , 2004, 271, 4169-4177.	0.2	7
48	The role of carboxyl, guanidine and imidazole groups in catalysis by a midgut trehalase purified from an insect larvae. <i>Insect Biochemistry and Molecular Biology</i> , 2004, 34, 1089-1099.	2.7	45
49	The role of residues R97 and Y331 in modulating the pH optimum of an insect β -glucosidase of family 1. <i>FEBS Journal</i> , 2003, 270, 4866-4875.	0.2	15
50	Purification and characterization of three β -glucosidases from midgut of the sugar cane borer, <i>Diatraea saccharalis</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2003, 33, 81-92.	2.7	33
51	Characterization of a β -glucosidase highly active on disaccharides and of a β -galactosidase from <i>Tenebrio molitor</i> midgut lumen. <i>Insect Biochemistry and Molecular Biology</i> , 2003, 33, 253-265.	2.7	26
52	Action pattern, specificity, lytic activities, and physiological role of five digestive β -glucanases isolated from <i>Periplaneta americana</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2003, 33, 1085-1097.	2.7	60
53	Subsites of Trypsin Active Site Favor Catalysis or Substrate Binding. <i>Biochemical and Biophysical Research Communications</i> , 2002, 290, 494-497.	2.1	20
54	Secretion of β -glucosidase by middle midgut cells and its recycling in the midgut of <i>Tenebrio molitor</i> larvae. <i>Journal of Insect Physiology</i> , 2002, 48, 113-118.	2.0	23

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55	The role of amino-acid residues Q39 and E451 in the determination of substrate specificity of the <i>Spodoptera frugiperda</i> β -glucosidase. <i>FEBS Journal</i> , 2002, 269, 3705-3714.	0.2	27
56	Purification, molecular cloning, and properties of a β -glucosidase isolated from midgut lumen of <i>Tenebrio molitor</i> (Coleoptera) larvae. <i>Insect Biochemistry and Molecular Biology</i> , 2001, 31, 1065-1076.	2.7	52
57	The peritrophic membrane of <i>Spodoptera frugiperda</i> : Secretion of peritrophins and role in immobilization and recycling digestive enzymes. <i>Archives of Insect Biochemistry and Physiology</i> , 2001, 47, 62-75.	1.5	94
58	Amino acid residues involved in substrate binding and catalysis in an insect digestive β -glucosidase. <i>BBA - Proteins and Proteomics</i> , 2001, 1545, 41-52.	2.1	52
59	Purification and properties of a β -glucosidase purified from midgut cells of <i>Spodoptera frugiperda</i> (Lepidoptera) larvae. <i>Insect Biochemistry and Molecular Biology</i> , 2000, 30, 1139-1146.	2.7	47
60	Nature of the anchors of membrane-bound aminopeptidase, amylase, and trypsin and secretory mechanisms in <i>Spodoptera frugiperda</i> (Lepidoptera) midgut cells. <i>Journal of Insect Physiology</i> , 1999, 45, 29-37.	2.0	57
61	Properties of digestive glycosidases and peptidases and the permeability of the peritrophic membranes of <i>Abracris flavolineata</i> (Orthoptera: Acrididae). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1999, 123, 241-250.	1.6	17
62	Substrate Specificities of Midgut β -Glucosidases from Insects of Different Orders. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998, 119, 219-225.	1.6	50
63	The effect of dietary plant glycosides on larval midgut β -glucosidases from <i>Spodoptera frugiperda</i> and <i>Diatraea saccharalis</i> . <i>Insect Biochemistry and Molecular Biology</i> , 1997, 27, 55-59.	2.7	48
64	Cytoskeleton removal and characterization of the microvillar membranes isolated from two midgut regions of <i>Spodoptera frugiperda</i> (Lepidoptera). <i>Insect Biochemistry and Molecular Biology</i> , 1997, 27, 793-801.	2.7	20
65	Ultrastructure and secretory activity of <i>Abracris flavolineata</i> (Orthoptera: Acrididae) midguts. <i>Journal of Insect Physiology</i> , 1997, 43, 465-473.	2.0	32
66	Trypsin secretion in <i>Musca domestica</i> larval midguts : A biochemical and immunocytochemical study. <i>Insect Biochemistry and Molecular Biology</i> , 1996, 26, 337-346.	2.7	48
67	An immunocytochemical investigation of trypsin secretion in the midgut of the stablefly, <i>Stomoxys calcitrans</i> . <i>Insect Biochemistry and Molecular Biology</i> , 1996, 26, 445-453.	2.7	32
68	Chemical determinations in microvillar membranes purified from brush-borders isolated from the larval midgut of one coleoptera and two diptera species. <i>Insect Biochemistry and Molecular Biology</i> , 1995, 25, 417-426.	2.7	17
69	Midgut dipeptidases from <i>Rhynchosciara americana</i> (diptera) larvae. Properties of soluble and membrane-bound forms. <i>Insect Biochemistry and Molecular Biology</i> , 1995, 25, 303-310.	2.7	6
70	Midgut β -D-glucosidases from <i>Abracris flavolineata</i> (Orthoptera: Acrididae). Physical properties, substrate specificities and function. <i>Insect Biochemistry and Molecular Biology</i> , 1995, 25, 835-843.	2.7	20
71	Digestive enzymes in midgut cells, endo- and ectoperitrophic contents, and peritrophic membranes of <i>Spodoptera frugiperda</i> (Lepidoptera) larvae. <i>Archives of Insect Biochemistry and Physiology</i> , 1994, 26, 299-313.	1.5	73
72	Aminopeptidase a from <i>Rhynchosciara americana</i> (Diptera) larval midguts: Properties and midgut distribution. <i>Archives of Insect Biochemistry and Physiology</i> , 1994, 27, 301-315.	1.5	11

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73	Insect digestive enzymes: properties, compartmentalization and function. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1994, 109, 1-62.	0.2	585
74	Properties of the digestive enzymes and the permeability of the peritrophic membrane of <i>Spodoptera frugiperda</i> (Lepidoptera) larvae. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1994, 107, 631-640.	0.6	67
75	Ultrastructural and biochemical aspects of digestion in the imagoes of the fly <i>Rhynchosciara americana</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1993, 66, 135-143.	1.4	7
76	Utilization of nitrogenous compounds, fat and orthophosphate by the grasshopper <i>Abracris flavolineata</i> . <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1992, 103, 443-445.	0.2	0
77	Consumption of sugars, hemicellulose, starch, pectin and cellulose by the grasshopper <i>Aracris flavolineata</i> . <i>Entomologia Experimentalis Et Applicata</i> , 1992, 65, 113-117.	1.4	13
78	Compartmentalization of the digestive process in <i>Abracris flavolineata</i> (Orthoptera: Acrididae) adults. <i>Insect Biochemistry</i> , 1990, 20, 267-274.	1.8	38
79	Digestive enzymes associated with the glycocalyx, microvillar membranes and secretory vesicles from midgut cells of <i>Tenebrio molitor</i> larvae. <i>Insect Biochemistry</i> , 1990, 20, 839-847.	1.8	51
80	Spatial organization of digestion, secretory mechanisms and digestive enzyme properties in <i>Pheropsophus aequinoctialis</i> (Coleoptera: Carabidae). <i>Insect Biochemistry</i> , 1989, 19, 383-391.	1.8	49
81	Midgut amylase, lysozyme, aminopeptidase, and trehalase from larvae and adults of <i>Musca domestica</i> . <i>Archives of Insect Biochemistry and Physiology</i> , 1988, 9, 283-297.	1.5	30
82	Digestive enzymes trapped between and associated with the double plasma membranes of <i>Rhodnius prolixus</i> posterior midgut cells. <i>Insect Biochemistry</i> , 1988, 18, 521-530.	1.8	94
83	Origin, distribution, properties and functions of the major <i>Rhodnius prolixus</i> midgut hydrolases. <i>Insect Biochemistry</i> , 1988, 18, 423-434.	1.8	99
84	The larval midgut of the housefly (<i>Musca domestica</i>): Ultrastructure, fluid fluxes and ion secretion in relation to the organization of digestion. <i>Journal of Insect Physiology</i> , 1988, 34, 463-472.	2.0	68
85	Properties of midgut hydrolases from nymphs and adults of the hematophagous bug <i>Rhodnius prolixus</i> . <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1988, 90, 433-437.	0.2	3
86	Digestive enzymes in close and distant genera of a same family: Properties of midgut hydrolases from luminescent <i>Pyrophorus divergens</i> (Coleoptera: Elateridae) larvae. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1987, 87, 755-759.	0.2	1
87	Substrate specificity and binding loci for inhibitors in an aminopeptidase purified from the plasma membrane of midgut cells of an insect (<i>Rhynchosciara americana</i>) larva. <i>Archives of Biochemistry and Biophysics</i> , 1986, 244, 478-485.	3.0	28
88	The detergent form of the major aminopeptidase from the plasma membrane of midgut caeca cells of <i>Rhynchosciara americana</i> (Diptera) larva. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1986, 84, 373-376.	0.2	3
89	Evolutionary considerations of the spatial organization of digestion in the luminescent predaceous larvae of <i>Pyrearinus termitilluminans</i> (Coleoptera: Elateridae). <i>Insect Biochemistry</i> , 1986, 16, 811-817.	1.8	32
90	Phylogenetic considerations of insect digestion. <i>Insect Biochemistry</i> , 1985, 15, 443-449.	1.8	94

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91	Minor aminopeptidases purified from the plasma membrane of midgut caeca cells of an insect (<i>Rhynchosciara americana</i>) larva. <i>Insect Biochemistry</i> , 1985, 15, 619-625.	1.8	20
92	Soluble aminopeptidases from cytosol and luminal contents of <i>Rhynchosciara americana</i> midgut caeca. <i>Insect Biochemistry</i> , 1984, 14, 145-150.	1.8	29
93	Spatial organization of digestion in the larval and imaginal stages of the sciarid fly <i>Trichosia pubescens</i> . <i>Insect Biochemistry</i> , 1984, 14, 631-638.	1.8	44
94	The larval midgut of the cassava hornworm (<i>Erinnyis ello</i>). <i>Cell and Tissue Research</i> , 1984, 237, 565.	2.9	58
95	Further evidence that enzymes involved in the final stages of digestion by <i>Rhynchosciara</i> do not enter the endoperitrophic space. <i>Insect Biochemistry</i> , 1983, 13, 143-150.	1.8	83
96	Consumption of food and spatial organization of digestion in the cassava hornworm, <i>Erinnyis ello</i> . <i>Journal of Insect Physiology</i> , 1983, 29, 707-714.	2.0	59
97	The haemolymph of the sphingidae moth <i>Erinnyis ello</i> . <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1982, 73, 373-377.	0.6	15
98	Properties of arylamidases found in cytosol, microvilli and in luminal contents of <i>Rhynchosciara americana</i> midgut caeca. <i>Insect Biochemistry</i> , 1982, 12, 413-417.	1.8	9
99	Function of midgut caeca and ventriculus: Microvilli bound enzymes from cells of different midgut regions of starving and feeding <i>Rhynchosciara Americana</i> larvae. <i>Insect Biochemistry</i> , 1982, 12, 257-262.	1.8	31
100	Fine structure of the larval midgut of the fly <i>Rhynchosciara</i> and its physiological implications. <i>Journal of Insect Physiology</i> , 1981, 27, 559-570.	2.0	49
101	The physiological role of the peritrophic membrane and trehalase: Digestive enzymes in the midgut and excreta of starved larvae of <i>Rhynchosciara</i> . <i>Journal of Insect Physiology</i> , 1981, 27, 325-331.	2.0	81
102	Intracellular distribution of hydrolases in midgut caeca cells from an insect with emphasis on plasma membrane-bound enzymes. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1980, 66, 467-473.	0.2	17
103	Distribution of digestive enzymes among the endo- and ectoperitrophic spaces and midgut cells of <i>Rhynchosciara</i> and its physiological significance. <i>Journal of Insect Physiology</i> , 1979, 25, 487-494.	2.0	220
104	Distribution of nutrient reserves during spinning in tissues of the larva of the fly, <i>Rhynchosciara americana</i> . <i>Journal of Insect Physiology</i> , 1975, 21, 1501-1509.	2.0	14