

Horacio Heras

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86 papers	1,648 citations	23 h-index	36 g-index
90 ext. papers	1,868 ext. citations	3.3 avg, IF	4.35 L-index

#	Paper	IF	Citations
86	Insights from an Integrated View of the Biology of Apple Snails (Caenogastropoda: Ampullariidae). <i>Malacologia</i> , 2015 , 58, 245-302	1.1	114
85	Role of anionic phospholipids in the adaptation of <i>Bacillus subtilis</i> to high salinity. <i>Microbiology (United Kingdom)</i> , 2006 , 152, 605-616	2.9	91
84	Biochemical composition and energy sources during embryo development and in early juveniles of the snail <i>Pomacea canaliculata</i> (Mollusca: Gastropoda). <i>The Journal of Experimental Zoology</i> , 1998 , 280, 375-383		65
83	Variations of the envelope composition of <i>Bacillus subtilis</i> during growth in hyperosmotic medium. <i>Current Microbiology</i> , 1998 , 36, 55-61	2.4	65
82	Osmotic response in <i>Lactobacillus casei</i> ATCC 393: biochemical and biophysical characteristics of membrane. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 422, 61-70	4.1	57
81	Biochemical and biophysical studies of <i>Bacillus subtilis</i> envelopes under hyperosmotic stress. <i>International Journal of Food Microbiology</i> , 2000 , 55, 137-42	5.8	53
80	Lipid and fatty acid composition and energy partitioning during embryo development in the shrimp <i>Macrobrachium borellii</i> . <i>Lipids</i> , 2000 , 35, 645-51	1.6	51
79	First proteome of the egg perivitelline fluid of a freshwater gastropod with aerial oviposition. <i>Journal of Proteome Research</i> , 2012 , 11, 4240-8	5.6	47
78	Novel animal defenses against predation: a snail egg neurotoxin combining lectin and pore-forming chains that resembles plant defense and bacteria attack toxins. <i>PLoS ONE</i> , 2013 , 8, e63782	3.7	47
77	The role of the proteinase inhibitor ovorubin in apple snail eggs resembles plant embryo defense against predation. <i>PLoS ONE</i> , 2010 , 5, e15059	3.7	44
76	Lipoproteins of the egg perivitelline fluid of <i>Pomacea canaliculata</i> snails (Mollusca: Gastropoda). <i>The Journal of Experimental Zoology</i> , 1996 , 276, 307-14		43
75	First egg protein with a neurotoxic effect on mice. <i>Toxicon</i> , 2008 , 52, 481-8	2.8	36
74	Atlantic dogfish silage vs. herring silage in diets for Atlantic salmon (<i>Salmo salar</i>): growth and sensory evaluation of fillets. <i>Aquaculture</i> , 1994 , 125, 93-106	4.4	36
73	Antioxidant defense system in the apple snail eggs, the role of ovorubin. <i>Archives of Biochemistry and Biophysics</i> , 2004 , 422, 1-8	4.1	34
72	Signatures of Divergence, Invasiveness, and Terrestrialization Revealed by Four Apple Snail Genomes. <i>Molecular Biology and Evolution</i> , 2019 , 36, 1507-1520	8.3	33
71	Relation between lipid and fatty acid composition of eggs and larval survival in white pacific shrimp (<i>Penaeus vannamei</i> , Boone, 1931). <i>Aquaculture International</i> , 2001 , 9, 531-543	2.6	33
70	Dynamics of blood chylomicron fatty acids in a marine carnivore: implications for lipid metabolism and quantitative estimation of predator diets. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2005 , 175, 133-45	2.2	30

69	Egg carotenoproteins in neotropical Ampullariidae (Gastropoda: Arquitaenioglossa). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2007 , 146, 158-167	3.2	27
68	Synthesis, distribution, and levels of an egg lipoprotein from the apple snail <i>Pomacea canaliculata</i> (Mollusca: Gastropoda). <i>The Journal of Experimental Zoology</i> , 2002 , 292, 323-30		26
67	An integrated proteomic and transcriptomic analysis of perivitelline fluid proteins in a freshwater gastropod laying aerial eggs. <i>Journal of Proteomics</i> , 2017 , 155, 22-30	3.9	24
66	Metabolism of ovorubin, the major egg lipoprotein from the apple snail. <i>Molecular and Cellular Biochemistry</i> , 2003 , 243, 9-14	4.2	24
65	Tainting of Atlantic salmon (<i>Salmo salar</i>) by petroleum hydrocarbons during a short-term exposure. <i>Marine Pollution Bulletin</i> , 1992 , 24, 310-315	6.7	24
64	Effects of sewage discharges on lipid and fatty acid composition of the Patagonian bivalve <i>Diplodon chilensis</i> . <i>Marine Pollution Bulletin</i> , 2014 , 79, 211-9	6.7	23
63	First insight into the lipid uptake, storage and mobilization in arachnids: role of midgut diverticula and lipoproteins. <i>Journal of Insect Physiology</i> , 2009 , 55, 1118-24	2.4	22
62	Astaxanthin binding and structural stability of the apple snail carotenoprotein ovorubin. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 460, 107-12	4.1	22
61	Activation of lipid catabolism by the water-soluble fraction of petroleum in the crustacean <i>Macrobrachium borellii</i> . <i>Aquatic Toxicology</i> , 2006 , 77, 190-6	5.1	22
60	Characterization of the major egg glycolipoproteins from the perivitellin fluid of the apple snail <i>Pomacea canaliculata</i> . <i>Molecular Reproduction and Development</i> , 2004 , 68, 359-64	2.6	21
59	Occurrence of plasma lipoproteins in octopods. Partial characterization and interorgan transport of lipids. <i>Journal of Experimental Marine Biology and Ecology</i> , 1990 , 140, 29-38	2.1	21
58	Structure and stability of the neurotoxin PV2 from the eggs of the apple snail <i>Pomacea canaliculata</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 1492-9	4	20
57	The major egg reserve protein from the invasive apple snail <i>Pomacea maculata</i> is a complex carotenoprotein related to those of <i>Pomacea canaliculata</i> and <i>Pomacea scalaris</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2014 , 169, 63-71	2.3	19
56	Insights into embryo defenses of the invasive apple snail <i>Pomacea canaliculata</i> : egg mass ingestion affects rat intestine morphology and growth. <i>PLoS Neglected Tropical Diseases</i> , 2014 , 8, e2961	4.8	19
55	Effect of the water-soluble fraction of petroleum on microsomal lipid metabolism of <i>Macrobrachium borellii</i> (Arthropoda: Crustacea). <i>Aquatic Toxicology</i> , 2007 , 82, 265-71	5.1	19
54	Embryo lipoproteins and yolk lipovitellin consumption during embryogenesis in <i>Macrobrachium borellii</i> (Crustacea: Palaemonidae). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2008 , 151, 317-22	2.3	18
53	Enzyme activities involved in lipid metabolism during embryonic development of <i>Macrobrachium borellii</i> 2000 , 286, 231-237		18
52	Triacylglycerol catabolism in the prawn <i>Macrobrachium borellii</i> (Crustacea: Palaemoniade). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2011 , 160, 201-7	2.3	17

51	Antioxidant response and oxidative stress levels in <i>Macrobrachium borellii</i> (Crustacea: Palaemonidae) exposed to the water-soluble fraction of petroleum. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2011 , 153, 415-21	3.2	16
50	Pallial oviduct of <i>Pomacea canaliculata</i> (Gastropoda): ultrastructural studies of the parenchymal cellular types involved in the metabolism of perivitellins. <i>Cell and Tissue Research</i> , 2006 , 324, 523-33	4.2	16
49	The potential use of lipid microspheres as nutritional supplements for adult <i>Ostrea edulis</i> . <i>Aquaculture</i> , 1994 , 123, 309-322	4.4	16
48	Lipoproteins from plasma and perivelline fluid of the apple snail <i>Pomacea canaliculata</i> . <i>Biocell</i> , 2002 , 26, 111-8	1.9	16
47	Global shape and pH stability of ovorubin, an oligomeric protein from the eggs of <i>Pomacea canaliculata</i> . <i>FEBS Journal</i> , 2008 , 275, 4522-30	5.7	15
46	Changes in phosphatidylcholine molecular species in the shrimp <i>Macrobrachium borellii</i> in response to a water-soluble fraction of petroleum. <i>Lipids</i> , 2005 , 40, 487-94	1.6	15
45	AmpuBase: a transcriptome database for eight species of apple snails (Gastropoda: Ampullariidae). <i>BMC Genomics</i> , 2018 , 19, 179	4.5	14
44	The eggs of the apple snail <i>Pomacea maculata</i> are defended by indigestible polysaccharides and toxic proteins. <i>Canadian Journal of Zoology</i> , 2016 , 94, 777-785	1.5	14
43	Study of biochemical biomarkers in freshwater prawn <i>Macrobrachium borellii</i> (Crustacea: Palaemonidae) exposed to organophosphate fenitrothion. <i>Ecotoxicology and Environmental Safety</i> , 2013 , 96, 10-6	7	14
42	Hemocyanin as an apolipoprotein in the hemolymph of the cephalopod <i>Octopus tehuelchus</i> . <i>Lipids and Lipid Metabolism</i> , 1992 , 1125, 245-250		14
41	Isolation and characterization of a novel perivitellin from the eggs of <i>Pomacea scalaris</i> (Mollusca, Ampullariidae). <i>Molecular Reproduction and Development</i> , 2008 , 75, 1441-8	2.6	13
40	Morphometric study of embryonic development of <i>Macrobrachium borellii</i> (Arthropoda: Crustacea). <i>Invertebrate Reproduction and Development</i> , 2002 , 41, 157-163	0.7	13
39	Carbohydrates and glycoforms of the major egg perivitellins from <i>Pomacea</i> apple snails (Architaenioglossa: Ampullariidae). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2010 , 157, 66-72	2.3	12
38	Blood lipids of the small octopus, <i>Octopus tehuelchus</i> (mollusca, cephalopoda) at different stages of sexual maturation. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1989 , 92, 571-575		11
37	Isolation and characterization of two vitellins from eggs of the spider <i>Polybetes pythagoricus</i> (Araneae: Sparassidae). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2011 , 158, 142-8	2.3	10
36	Partial characterization of a malonyl-CoA-sensitive carnitine O-palmitoyltransferase I from <i>Macrobrachium borellii</i> (Crustacea: Palaemonidae). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2009 , 152, 364-9	2.3	10
35	Inter-organ hemolymphatic transport of free fatty acids, triacylglycerols and phospholipids in the freshwater bivalve, <i>Diplodon delodontus</i> . <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1989 , 93, 673-676		10
34	Agglutinating activity and structural characterization of scalarin, the major egg protein of the snail <i>Pomacea scalaris</i> (d'Orbigny, 1832). <i>PLoS ONE</i> , 2012 , 7, e50115	3.7	10

33	Biochemical composition, tissue origin and functional properties of egg perivitellins from Pomacea canaliculata. <i>Biocell</i> , 2006 , 30, 359-65	1.9	10
32	Convergent evolution of plant and animal embryo defences by hyperstable non-digestible storage proteins. <i>Scientific Reports</i> , 2017 , 7, 15848	4.9	9
31	Toxicity, uptake, and release of the water-soluble fraction of crude oil in different developing stages of the prawn Macrobrachium borellii. <i>Archives of Environmental Contamination and Toxicology</i> , 2004 , 47, 215-22	3.2	9
30	Vitellogenin and lipovitellin from the prawn Macrobrachium borellii as hydrocarbon pollution biomarker. <i>Marine Pollution Bulletin</i> , 2012 , 64, 1631-6	6.7	8
29	Effect of crude oil petroleum hydrocarbons on protein expression of the prawn Macrobrachium borellii. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2013 , 157, 390-6	3.2	8
28	Apple Snail Perivitellin Precursor Properties Help Explain Predators' Feeding Behavior. <i>Physiological and Biochemical Zoology</i> , 2017 , 90, 461-470	2	7
27	Biosynthesis in the Albumen Gland-Capsule Gland Complex Limits Reproductive Effort in the Invasive Apple Snail Pomacea canaliculata. <i>Biological Bulletin</i> , 2018 , 235, 1-11	1.5	7
26	In vitro lipid transfer between lipoproteins and midgut-diverticula in the spider Polybetes pythagoricus. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2011 , 160, 181-6	2.3	7
25	Fatty acid composition of freshwater phytoplankton during a red tide event. <i>Biochemical Systematics and Ecology</i> , 1995 , 23, 65-69	1.4	7
24	A lectin of a non-invasive apple snail as an egg defense against predation alters the rat gut morphophysiology. <i>PLoS ONE</i> , 2018 , 13, e0198361	3.7	6
23	Role of adipocytes in the muscle tissue of Atlantic salmon (Salmo salar) in the uptake, release and retention of water-soluble fraction of crude oil hydrocarbons. <i>Marine Biology</i> , 1997 , 127, 545-553	2.5	6
22	Understanding the transition from water to land: Insights from multi-omic analyses of the perivitelline fluid of apple snail eggs. <i>Journal of Proteomics</i> , 2019 , 194, 79-88	3.9	6
21	Dataset for the proteomic and transcriptomic analyses of perivitelline fluid proteins in snail eggs. <i>Data in Brief</i> , 2017 , 15, 203-207	1.2	5
20	Hemocyanin of the caenogastropod Pomacea canaliculata exhibits evolutionary differences among gastropod clades. <i>PLoS ONE</i> , 2020 , 15, e0228325	3.7	5
19	The influence of energy, nutritional value and noxiousness of prey in sex- and size-biased predation by Snail Kites in southern South America. <i>Emu</i> , 2017 , 117, 382-387	1.1	5
18	Non-digestible proteins and protease inhibitors: implications for defense of the colored eggs of the freshwater apple snail Pomacea canaliculata. <i>Canadian Journal of Zoology</i> , 2019 , 97, 558-566	1.5	4
17	Enzyme activities involved in lipid metabolism during embryonic development of Macrobrachium borellii. <i>The Journal of Experimental Zoology</i> , 2000 , 286, 231-7		4
16	Plastic bags for stable storage of the water-soluble fraction of crude petroleum used in aquatic environment toxicity and tainting studies. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1995 , 55, 597-602	2.7	3

15	An improved method for the recovery of petroleum hydrocarbons from fish muscle tissue. <i>Food Chemistry</i> , 1996 , 57, 457-462	8.5	3
14	Egg perivitelline fluid of the invasive snail affects mice gastrointestinal function and morphology. <i>PeerJ</i> , 2018 , 6, e5314	3.1	3
13	Exaptation of two ancient immune proteins into a new dimeric pore-forming toxin in snails. <i>Journal of Structural Biology</i> , 2020 , 211, 107531	3.4	3
12	Novel Role for Animal Innate Immune Molecules: Enterotoxic Activity of a Snail Egg MACPF-Toxin. <i>Frontiers in Immunology</i> , 2020 , 11, 428	8.4	3
11	Validation by qPCR of Reference Genes for Reproductive Studies in the Invasive Apple Snail <i>Pomacea canaliculata</i> . <i>Malacologia</i> , 2018 , 62, 163-170	1.1	3
10	Structure and stability of crustacean lipovitellin: influence of lipid content and composition. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2010 , 155, 126-31	2.3	2
9	Preparation and characterization of a water-soluble fraction of crude oil by a Karr reciprocating-plate countercurrent extraction column. <i>Archives of Environmental Contamination and Toxicology</i> , 1994 , 26, 527-533	3.2	2
8	Egg perivitelline fluid proteome of a freshwater snail: Insight into the transition from aquatic to terrestrial egg deposition. <i>Rapid Communications in Mass Spectrometry</i> , 2020 , 34, e8605	2.2	2
7	A highly stable, non-digestible lectin from unveils clade-related protection systems in apple snail eggs. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	2
6	Biochemical composition and energy sources during embryo development and in early juveniles of the snail <i>Pomacea canaliculata</i> (Mollusca: Gastropoda) 1998 , 280, 375		2
5	Apple snail egg perivitellin coloration, as a taxonomic character for invasive <i>Pomacea maculata</i> and <i>P. canaliculata</i> , determined by a simple method. <i>Biological Invasions</i> , 2020 , 22, 2299-2307	2.7	1
4	SALMON LIPID STORAGE SITES AND THEIR ROLE IN CONTAMINATION WITH WATER-SOLUBLE PETROLEUM MATERIALS. <i>Journal of Food Lipids</i> , 1996 , 3, 161-170		1
3	Exaptation of two ancient immune proteins into a new dimeric pore-forming toxin in snails		1
2	Dynamics of circulating lipoproteins and lipids in Brown Skua (<i>Stercorarius antarcticus lonnbergi</i>) during the breeding cycle. <i>Polar Biology</i> , 2021 , 44, 305-314	2	0
1	Biochemical and morphological features of the uropygial gland of the Chilean Flamingo and their functional implications. <i>Zoology</i> , 2021 , 147, 125941	1.7	