Annalisa Grimaldi

List of Publications by Citations

101 papers	1,805 citations	24 h-index	36 g-index
111 ext. papers	2,219 ext. citations	4.1 avg, IF	4.23 L-index

#	Paper	IF	Citations
101	Autophagy precedes apoptosis during the remodeling of silkworm larval midgut. *Apoptosis: an International Journal on Programmed Cell Death*, **2012**, 17, 305-24	5.4	120
100	Programmed cell death and stem cell differentiation are responsible for midgut replacement in Heliothis virescens during prepupal instar. *Cell and Tissue Research*, **2007**, 330, 345-59	4.2	85
99	Characterization of the IkappaB-like gene family in polydnaviruses associated with wasps belonging to different Braconid subfamilies. *Journal of General Virology*, **2007**, 88, 92-104	4.9	59
98	Hedgehog regulation of superficial slow muscle fibres in Xenopus and the evolution of tetrapod trunk myogenesis. *Development (Cambridge)*, **2004**, 131, 3249-62	6.6	57
97	Butyrate and taurine exert a mitigating effect on the inflamed distal intestine of European sea bass fed with a high percentage of soybean meal. *Fisheries and Aquatic Sciences*, **2016**, 19,	2.9	54
96	The multifunctional role of fibroblasts during wound healing in Hirudo medicinalis (Annelida, Hirudinea). *Biology of the Cell*, **2004**, 96, 443-55	3.5	51
95	Microenvironmental control of malignancy exerted by RNASET2, a widely conserved extracellular RNase. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1104-9	11.5	47
94	Autophagy in invertebrates: insights into development, regeneration and body remodeling. *Current Pharmaceutical Design*, **2008**, 14, 116-25	3.3	47
93	Aphidius ervi teratocytes release an extracellular enolase. *Insect Biochemistry and Molecular Biology* , **2009**, 39, 801-13	4.5	46
92	Functional arrangement of rat diaphragmatic initial lymphatic network. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 291, H876-85	5.2	39
91	Antibiotic treatment-induced dysbiosis differently affects BDNF and TrkB expression in the brain and in the gut of juvenile mice. *PLoS ONE*, **2019**, 14, e0212856	3.7	38
90	Larval anatomy and structure of absorbing epithelia in the aphid parasitoid Aphidius ervi Haliday (Hymenoptera, Braconidae). *Arthropod Structure and Development*, **2001**, 30, 27-37	1.8	37
89	Expression pattern analysis of odorant-binding proteins in the pea aphid Acyrthosiphon pisum. *Insect Science*, **2015**, 22, 220-34	3.6	36
88	Growth factors and chemokines: a comparative functional approach between invertebrates and vertebrates. *Current Medicinal Chemistry*, **2006**, 13, 2737-50	4.3	35
87	Functional amyloids in insect immune response. *Insect Biochemistry and Molecular Biology*, **2012**, 42, 203-11	4.5	34
86	Systemic distribution of single-walled carbon nanotubes in a novel model: alteration of biochemical parameters, metabolic functions, liver accumulation, and inflammation in vivo. *International Journal of Nanomedicine*, **2016**, 11, 4299-316	7.3	34
85	Lepidopteran larval midgut during prepupal instar: digestion or self-digestion?. *Autophagy*, **2007**, 3, 630-1	10.2	33

84	The midgut of the silkmoth Bombyx mori is able to recycle molecules derived from degeneration of the larval midgut epithelium. *Cell and Tissue Research*, **2015**, 361, 509-28	4.2	32
83	Changes in hyaluronan deposition in the rat myenteric plexus after experimentally-induced colitis. *Scientific Reports*, **2017**, 7, 17644	4.9	32
82	Loss of function of Ribonuclease T2, an ancient and phylogenetically conserved RNase, plays a crucial role in ovarian tumorigenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 8140-5	11.5	31
81	Lipopolysaccharide-dependent induction of leech leukocytes that cross-react with vertebrate cellular differentiation markers. *Tissue and Cell*, **2000**, 32, 437-45	2.7	27
80	Vascular endothelial growth factor is involved in neoangiogenesis in Hirudo medicinalis (Annelida, Hirudinea). *Cytokine*, **2003**, 22, 168-79	4	26
79	The digestive system of the adult Hermetia illucens (Diptera: Stratiomyidae): morphological features and functional properties. *Cell and Tissue Research*, **2019**, 378, 221-238	4.2	25
78	Absorption of sugars and amino acids by the epidermis of Aphidius ervi larvae. *Journal of Insect Physiology*, **2003**, 49, 1115-24	2.4	25
77	Environmental impact of multi-wall carbon nanotubes in a novel model of exposure: systemic distribution, macrophage accumulation, and amyloid deposition. *International Journal of Nanomedicine*, **2015**, 10, 6133-45	7.3	24
76	Hematopoietic cell formation in leech wound healing. *Current Pharmaceutical Design*, **2006**, 12, 3033-41	3.3	24
75	Leech responses to tissue transplantation. *Tissue and Cell*, **2003**, 35, 199-212	2.7	23
74	Collagen reorganization in leech wound healing. *Biology of the Cell*, **2005**, 97, 557-68	3.5	23
73	Histopathological changes after induced injury in leeches. *Journal of Invertebrate Pathology*, **1999**, 74, 14-28	2.6	23
72	Hirudo medicinalis: avascular tissues for clear-cut angiogenesis studies?. *Current Pharmaceutical Design*, **2004**, 10, 1979-88	3.3	20
71	Nutrient absorption by Aphidius ervi larvae. *Journal of Insect Physiology*, **2005**, 51, 1183-92	2.4	20
70	Structural and biochemical analysis of the parasite Gordius villoti (Nematomorpha, Gordiacea) cuticle. *Tissue and Cell*, **2000**, 32, 366-76	2.7	20
69	Functional analysis of a fatty acid binding protein produced by Aphidius ervi teratocytes. *Journal of Insect Physiology*, **2012**, 58, 621-7	2.4	19
68	Leeches: immune response, angiogenesis and biomedical applications. *Current Pharmaceutical Design*, **2003**, 9, 133-47	3.3	19
67	CD31 Extracellular Vesicles From Patients With Type 2 Diabetes Shuttle a miRNA Signature Associated With Cardiovascular Complications. *Diabetes*, **2021**, 70, 240-254	0.9	19

66	Homolog of allograft inflammatory factor-1 induces macrophage migration during innate immune response in leech. *Cell and Tissue Research*, **2015**, 359, 853-64	4.2	18
65	Human recombinant RNASET2-induced inflammatory response and connective tissue remodeling in the medicinal leech. *Cell and Tissue Research*, **2017**, 368, 337-351	4.2	17
64	Sensilla Morphology and Complex Expression Pattern of Odorant Binding Proteins in the Vetch Aphid (Hemiptera: Aphididae). *Frontiers in Physiology*, **2018**, 9, 777	4.6	17
63	Muscle differentiation in tentacles of Sepia officinalis (Mollusca) is regulated by muscle regulatory factors (MRF) related proteins. *Development Growth and Differentiation*, **2004**, 46, 83-95	3	17
62	Vertebrate rod photoreceptors express both BK and IK calcium-activated potassium channels, but only BK channels are involved in receptor potential regulation. *Journal of Neuroscience Research*, **2008**, 86, 194-201	4.4	16
61	Hirudo medicinalis: a new model for testing activators and inhibitors of angiogenesis. *Angiogenesis*, **2001**, 4, 299-312	10.6	16
60	A hedgehog homolog is involved in muscle formation and organization of Sepia officinalis (mollusca) mantle. *Developmental Dynamics*, **2008**, 237, 659-71	2.9	15
59	Midgut epithelium in molting silkworm: A fine balance among cell growth, differentiation, and survival. *Arthropod Structure and Development*, **2016**, 45, 368-79	1.8	15
58	AIF-1 and RNASET2 Play Complementary Roles in the Innate Immune Response of Medicinal Leech. *Journal of Innate Immunity*, **2019**, 11, 150-167	6.9	15
57	Timing of autophagy and apoptosis during posterior silk gland degeneration in Bombyx mori. *Arthropod Structure and Development*, **2017**, 46, 518-528	1.8	14
56	Effects of Carbon Nanotube Environmental Dispersion on an Aquatic Invertebrate, Hirudo medicinalis. *PLoS ONE*, **2015**, 10, e0144361	3.7	14
55	Oxygen availability causes morphological changes and a different VEGF/Flk-1/HIF-2 expression pattern in sea bass gills. *Italian Journal of Zoology*, **2005**, 72, 103-111		14
54	The extracellular matrix of the cuticle of Gordius panigettensis (Gordioiidae, Nematomorpha): observations by TEM, SEM and AFM. *Tissue and Cell*, **2003**, 35, 306-11	2.7	14
53	NET amyloidogenic backbone in human activated neutrophils. *Clinical and Experimental Immunology* , **2016**, 183, 469-79	6.2	14
52	Cellular responses induced by multi-walled carbon nanotubes: in vivo and in vitro studies on the medicinal leech macrophages. *Scientific Reports*, **2017**, 7, 8871	4.9	13
51	Regional recruitment of rat diaphragmatic lymphatics in response to increased pleural or peritoneal fluid load. *Journal of Physiology*, **2007**, 579, 835-47	3.9	13
50	Absorption of horseradish peroxidase in Bombyx mori larval midgut. *Journal of Insect Physiology*, **2007**, 53, 517-25	2.4	13
49	A new cellular type in invertebrates: first evidence of telocytes in leech Hirudo medicinalis. *Scientific Reports*, **2017**, 7, 13580	4.9	12

48	Cytokine loaded biopolymers as a novel strategy to study stem cells during wound-healing processes. *Macromolecular Bioscience*, **2011**, 11, 1008-19	5.5	12
47	Morphologic features of biocompatibility and neoangiogenesis onto a biodegradable tracheal prosthesis in an animal model. *Interactive Cardiovascular and Thoracic Surgery*, **2009**, 8, 610-4	1.8	12
46	Ultrastructure of the head organ: A putative compound georeceptor in Grania (Annelida, Clitellata, Enchytraeidae). *Italian Journal of Zoology*, **1999**, 66, 11-21		12
45	Integumental amino acid uptake in a carnivorous predator mollusc (Sepia officinalis, Cephalopoda). *Tissue and Cell*, **2000**, 32, 389-98	2.7	11
44	Ultrastructure and functional versatility of hirudinean botryoidal tissue. *Tissue and Cell*, **2001**, 33, 332-41	2.7	11
43	Extracellular matrix degradation via enolase/plasminogen interaction: Evidence for a mechanism conserved in Metazoa. *Biology of the Cell*, **2016**, 108, 161-78	3.5	10
42	Functional amyloidogenesis in immunocytes from the colonial ascidian Botryllus schlosseri: Evolutionary perspective. *Developmental and Comparative Immunology*, **2019**, 90, 108-120	3.2	10
41	The main actors involved in parasitization of Heliothis virescens larva. *Cell and Tissue Research*, **2012** , 350, 491-502	4.2	9
40	Development and analysis of semi-interpenetrating polymer networks for brain injection in neurodegenerative disorders. *International Journal of Artificial Organs*, **2013**, 36, 762-74	1.9	9
39	Identification, isolation and expansion of myoendothelial cells involved in leech muscle regeneration. *PLoS ONE*, **2009**, 4, e7652	3.7	9
38	Modification of the nutritional parameters and of midgut biochemical and absorptive functions induced by the IGR fenoxycarb in Bombyx mori larvae **1998**, 39, 18-35		9
37	Homeoprotein OTX1 and OTX2 involvement in rat myenteric neuron adaptation after DNBS-induced colitis. *PeerJ*, **2020**, 8, e8442	3.1	9
36	The leech: a novel invertebrate model for studying muscle regeneration and diseases. *Current Pharmaceutical Design*, **2010**, 16, 968-77	3.3	8
35	Differentiation of slow and fast fibers in tentacles of Sepia officinalis (Mollusca). *Development Growth and Differentiation*, **2004**, 46, 181-93	3	8
34	MCF7 Spheroid Development: New Insight about Spatio/Temporal Arrangements of TNTs, Amyloid Fibrils, Cell Connections, and Cellular Bridges. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	8
33	An in-depth description of head morphology and mouthparts in larvae of the black soldier fly Hermetia illucens. *Arthropod Structure and Development*, **2020**, 58, 100969	1.8	8
32	Antimicrobial Role of RNASET2 Protein During Innate Immune Response in the Medicinal Leech. *Frontiers in Immunology*, **2020**, 11, 370	8.4	7
31	The Lepidopteran endoribonuclease-U domain protein P102 displays dramatically reduced enzymatic activity and forms functional amyloids. *Developmental and Comparative Immunology*, **2014**, 47, 129-39	3.2	7

30	Host regulation by the ectophagous parasitoid wasp Bracon nigricans. *Journal of Insect Physiology*, **2017**, 101, 73-81	2.4	7
29	Structure and function of the extraembryonic membrane persisting around the larvae of the parasitoid Toxoneuron nigriceps. *Journal of Insect Physiology*, **2006**, 52, 870-80	2.4	7
28	In vivo isolation and characterization of stem cells with diverse phenotypes using growth factor impregnated biomatrices. *PLoS ONE*, **2008**, 3, e1910	3.7	7
27	Teratocytes Release Enolase and Fatty Acid Binding Protein Through Exosomal Vesicles. *Frontiers in Physiology*, **2019**, 10, 715	4.6	6
26	Identification of OTX1 and OTX2 As Two Possible Molecular Markers for Sinonasal Carcinomas and Olfactory Neuroblastomas. *Journal of Visualized Experiments*, **2019**,	1.6	5
25	Dimensional and numerical growth of helical fibers in leeches: An unusual pattern **1998**, 281, 171-187		5
24	Circulating extracellular vesicles release oncogenic miR-424 in experimental models and patients with aggressive prostate cancer. *Communications Biology*, **2021**, 4, 119	6.7	5
23	Annelida: Hirudinea (Leeches): Heterogeneity in Leech Immune Responses **2018**, 173-191		4
22	Toxoneuron nigriceps parasitization delays midgut replacement in fifth-instar Heliothis virescens larvae. *Cell and Tissue Research*, **2008**, 332, 371-9	4.2	4
21	Morphogenesis of helical fibers in haplotaxids. *Hydrobiologia*, **1996**, 334, 207-217	2.4	4
20	Myocardial overexpression of ANKRD1 causes sinus venosus defects and progressive diastolic dysfunction. *Cardiovascular Research*, **2020**, 116, 1458-1472	9.9	4
19	An antibody-based enzymatic therapy for cancer treatment: The selective localization of D-amino acid oxidase to EDA fibronectin. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2021**, 36, 102424	6	4
18	The medicinal leech as a valuable model for better understanding the role of a TLR4-like receptor in the inflammatory process. *Cell and Tissue Research*, **2019**, 377, 245-257	4.2	3
17	Protective Responses in Invertebrates **2016**, 145-157		3
16	Role of Ovarian Proteins Secreted by (Viereck) (Hymenoptera, Braconidae) in the Early Suppression of Host Immune Response. *Insects*, **2021**, 12,	2.8	3
15	Muscle development and differentiation in the urodele Ambystoma mexicanum. *Development Growth and Differentiation*, **2012**, 54, 489-502	3	2
14	Nanomaterials and Annelid Immunity: A Comparative Survey to Reveal the Common Stress and Defense Responses of Two Sentinel Species to Nanomaterials in the Environment. *Biology*, **2020**, 9,	4.9	2
13	RNASET2 Regulate Connective Tissue and Collagen I Remodeling During Wound Healing Process. *Frontiers in Physiology*, **2021**, 12, 632506	4.6	2

List of Publications

12	Recombinant HvRNASET2 protein induces marked connective tissue remodelling in the invertebrate model Hirudo verbana. *Cell and Tissue Research*, **2020**, 380, 565-579	4.2	1
11	An unusual green macular lesion of the gingiva: a foreign-body granulomatous reaction. *Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology*, **2014**, 117, e65-9	2	1
10	Peripheral vascular apparatus in some aquatic oligochaetes with special references to haplotaxids. *Hydrobiologia*, **1996**, 334, 241-249	2.4	1
9	Identification and Functional Characterization of Ovarian Proteins Involved in the Early Suppression of Host Immune Response.. *Insects*, **2022**, 13,	2.8	1
8	Insights Into the Immune Response of the Black Soldier Fly Larvae to Bacteria. *Frontiers in Immunology*, **2021**, 12, 745160	8.4	1
7	Transdiaphragmatic lymphatic pathways in spontaneously breathing rats. *FASEB Journal*, **2006**, 20, A274	0.9	1
6	TRPV4 and TRPM8 as putative targets for chronic low back pain alleviation. *Pflugers Archiv European Journal of Physiology*, **2021**, 473, 151-165	4.6	1
5	Assessment of the biological activity of an improved naked-DNA vector for angiogenesis gene therapy on a novel non-mammalian model. *International Journal of Molecular Medicine*, **2003**, 11, 691-6	4.4	1
4	Methods for Monitoring Autophagy in Silkworm Organs. *Methods in Molecular Biology*, **2019**, 1854, 159-17	1.4	
3	Assessment of the biological activity of an improved naked-DNA vector for angiogenesis gene therapy on a novel non-mammalian model. *International Journal of Molecular Medicine*, **2003**, 11, 691	4.4	
2	A comparative study of sporta perimedullaris musculosa in the renicule of six species of cetaceans. *Italian Journal of Zoology*, **2004**, 71, 115-121		
1	Immune Response: Evolution1, 727-736		