Gianluca Tettamanti

List of Publications by Year
in descending order

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125 papers	14,887 citations	101543 36 h-index	21540 114 g-index
129 all docs	129 docs citations	129 times ranked	26062 citing authors

#	Article	IF	Citations
1	Transcriptional and Post-Transcriptional Regulation of Autophagy. Cells, 2022, 11, 441.	4.1	14
2	A hungry need for knowledge on the black soldier fly digestive system. Journal of Insects As Food and Feed, 2022, 8, 217-222.	3.9	11
3	New value from food and industrial wastes â€“ Bioaccumulation of omega-3 fatty acids from an oleaginous microbial biomass paired with a brewery by-product using black soldier fly (Hermetia) Tj ETQq1 1 0.784314 rgBT /Overlock	3.4	0
4	HvRNASET2 Regulate Connective Tissue and Collagen I Remodeling During Wound Healing Process. Frontiers in Physiology, 2021, 12, 632506.	2.8	9
5	Mechanical Processing of Hermetia illucens Larvae and Bombyx mori Pupae Produces Oils with Antimicrobial Activity. Animals, 2021, 11, 783.	2.3	30
6	P300/HDAC1 regulates the acetylation/deacetylation and autophagic activities of LC3/Atg8â€“PE ubiquitin-like system. Cell Death Discovery, 2021, 7, 128.	4.7	14
7	Regulators and signalling in insect antimicrobial innate immunity: Functional molecules and cellular pathways. Cellular Signalling, 2021, 83, 110003.	3.6	55
8	Haemocyteâ€mediated immunity in insects: Cells, processes and associated components in the fight against pathogens and parasites. Immunology, 2021, 164, 401-432.	4.4	71
9	Diversity of insect antimicrobial peptides and proteins - A functional perspective: A review. International Journal of Biological Macromolecules, 2021, 191, 277-287.	7.5	36
10	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (edition	9.1	1,430
11	Cholesterol derivatives induce dephosphorylation of the histone deacetylases Rpd3/HDAC1 to upregulate autophagy. Autophagy, 2021, 17, 512-528.	9.1	22
12	Insights Into the Immune Response of the Black Soldier Fly Larvae to Bacteria. Frontiers in Immunology, 2021, 12, 745160.	4.8	15
13	Black Soldier Fly Larvae Adapt to Different Food Substrates through Morphological and Functional Responses of the Midgut. International Journal of Molecular Sciences, 2020, 21, 4955.	4.1	51
14	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, 5400.	4.1	17
15	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.	1.4	18
16	3D Reconstruction of HvRNASET2 Molecule to Understand Its Antibacterial Role. International Journal of Molecular Sciences, 2020, 21, 9722.	4.1	1
17	Estimating black soldier fly larvae biowaste conversion performance by simulation of midgut digestion. Waste Management, 2020, 112, 40-51.	7.4	24
18	A Silkworm Infection Model for In Vivo Study of Glycopeptide Antibiotics. Antibiotics, 2020, 9, 300.	3.7	15

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19	Antimicrobial Role of RNASET2 Protein During Innate Immune Response in the Medicinal Leech Hirudo verbana. Frontiers in Immunology, 2020, 11, 370.	4.8	16
20	Recombinant HvRNASET2 protein induces marked connective tissue remodelling in the invertebrate model Hirudo verbana. Cell and Tissue Research, 2020, 380, 565-579.	2.9	6
21	Oral Infection in a Germ-Free Bombyx mori Model. Springer Protocols, 2020, , 217-231.	0.3	1
22	Autophagy in development and regeneration: role in tissue remodelling and cell survival. , 2019, 86, 113-131.		15
23	The amazing complexity of insect midgut cells: types, peculiarities, and functions. Cell and Tissue Research, 2019, 377, 505-525.	2.9	79
24	Metagenome-Sourced Microbial Chitinases as Potential Insecticide Proteins. Frontiers in Microbiology, 2019, 10, 1358.	3.5	32
25	Cell death during complete metamorphosis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190065.	4.0	55
26	A First Attempt to Produce Proteins from Insects by Means of a Circular Economy. Animals, 2019, 9, 278.	2.3	69
27	The digestive system of the adult Hermetia illucens (Diptera: Stratiomyidae): morphological features and functional properties. Cell and Tissue Research, 2019, 378, 221-238.	2.9	45
28	Enhanced Silkworm Cecropin B Antimicrobial Activity against Pseudomonas aeruginosa from Single Amino Acid Variation. ACS Infectious Diseases, 2019, 5, 1200-1213.	3.8	31
29	Negative impact of Novaluron on the nontarget insect Bombyx mori (Lepidoptera: Bombycidae). Environmental Pollution, 2019, 249, 82-90.	7.5	13
30	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.	2.9	6
31	Structural and Functional Characterization of Hermetia illucens Larval Midgut. Frontiers in Physiology, 2019, 10, 204.	2.8	76
32	AIF-1 and RNASET2 Play Complementary Roles in the Innate Immune Response of Medicinal Leech. Journal of Innate Immunity, 2019, 11, 150-167.	3.8	28
33	The Intestinal Microbiota of Hermetia illucens Larvae Is Affected by Diet and Shows a Diverse Composition in the Different Midgut Regions. Applied and Environmental Microbiology, 2019, 85, .	3.1	134
34	Methods for Monitoring Autophagy in Silkworm Organs. Methods in Molecular Biology, 2018, 1854, 159-174.	0.9	1
35	Intrinsic antimicrobial properties of silk spun by genetically modified silkworm strains. Transgenic Research, 2018, 27, 87-101.	2.4	24
36	Microbial and viral chitinases: Attractive biopesticides for integrated pest management. Biotechnology Advances, 2018, 36, 818-838.	11.7	107

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37	Rapamycin and fasting sustain autophagy response activated by ischemia/reperfusion injury and promote retinal ganglion cell survival. Cell Death and Disease, 2018, 9, 981.	6.3	89
38	Annelida: Hirudinea (Leeches): Heterogeneity in Leech Immune Responses. , 2018, , 173-191.		6
39	A new cellular type in invertebrates: first evidence of telocytes in leech Hirudo medicinalis. Journal of Immunological Sciences, 2018, 2, 22-25.	1.1	1
40	Human recombinant RNASET2-induced inflammatory response and connective tissue remodeling in the medicinal leech. Cell and Tissue Research, 2017, 368, 337-351.	2.9	28
41	Differential sensitivity to infections and antimicrobial peptide-mediated immune response in four silkworm strains with different geographical origin. Scientific Reports, 2017, 7, 1048.	3.3	13
42	Timing of autophagy and apoptosis during posterior silk gland degeneration in Bombyx mori. Arthropod Structure and Development, 2017, 46, 518-528.	1.4	17
43	Metabolic adjustment of the larval fat body in Hermetia illucens to dietary conditions. Journal of Asia-Pacific Entomology, 2017, 20, 1307-1313.	0.9	47
44	A new cellular type in invertebrates: first evidence of telocytes in leech Hirudo medicinalis. Scientific Reports, 2017, 7, 13580.	3.3	18
45	Cellular responses induced by multi-walled carbon nanotubes: in vivo and in vitro studies on the medicinal leech macrophages. Scientific Reports, 2017, 7, 8871.	3.3	16
46	Amyloidogenesis and Responses to Stress. , 2016, , .		0
47	Protective Responses in Invertebrates. , 2016, , 145-157.		4
48	NET amyloidogenic backbone in human activated neutrophils. Clinical and Experimental Immunology, 2016, 183, 469-479.	2.6	18
49	Effects of Trichoderma viride chitinases on the peritrophic matrix of Lepidoptera. Pest Management Science, 2016, 72, 980-989.	3.4	58
50	Hirudo medicinalis as alternative model for in vivo and in vitro studies on nanomaterials toxicity. Toxicology Letters, 2016, 258, S72.	0.8	0
51	Midgut epithelium in molting silkworm: A fine balance among cell growth, differentiation, and survival. Arthropod Structure and Development, 2016, 45, 368-379.	1.4	20
52	Midgut microbiota and host immunocompetence underlie Bacillus thuringiensis killing mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9486-9491.	7.1	144
53	5-azacytidine affects TET2 and histone transcription and reshapes morphology of human skin fibroblasts. Scientific Reports, 2016, 6, 37017.	3.3	29
54	Roles and regulation of autophagy and apoptosis in the remodelling of the lepidopteran midgut epithelium during metamorphosis. Scientific Reports, 2016, 6, 32939.	3.3	57

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55	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
56	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, 509-528.	2.9	53
57	Intercellular bridges are essential for human parthenogenetic cell survival. Mechanisms of Development, 2015, 136, 30-39.	1.7	4
58	Homolog of allograft inflammatory factor-1 induces macrophage migration during innate immune response in leech. Cell and Tissue Research, 2015, 359, 853-864.	2.9	24
59	A Molecular View of Autophagy in Lepidoptera. BioMed Research International, 2014, 2014, 1-11.	1.9	46
60	The Key Role of Autophagy and its Relationship with Apoptosis in Lepidopteran Larval Midgut Remodeling. , 2014, , 333-349.		1
61	Transgenic protein production in silkworm silk glands requires cathepsin and chitinase of Autographa californica multicapsid nucleopolyhedrovirus. Applied Microbiology and Biotechnology, 2014, 98, 4571-4580.	3.6	9
62	The Lepidopteran endoribonuclease-U domain protein P102 displays dramatically reduced enzymatic activity and forms functional amyloids. Developmental and Comparative Immunology, 2014, 47, 129-139.	2.3	9
63	Morphological and Molecular Changes of Human Granulosa Cells Exposed to 5-Azacytidine and Addressed Toward Muscular Differentiation. Stem Cell Reviews and Reports, 2014, 10, 633-642.	5.6	41
64	Photoinduced antibacterial activity of two dicationic 5,15-diarylporphyrins. Journal of Photochemistry and Photobiology B: Biology, 2013, 127, 123-132.	3.8	21
65	Balancing crosstalk between 20-hydroxyecdysone-induced autophagy and caspase activity in the fat body during Drosophila larval-prepupal transition. Insect Biochemistry and Molecular Biology, 2013, 43, 1068-1078.	2.7	34
66	The main actors involved in parasitization of Heliothis virescens larva. Cell and Tissue Research, 2012, 350, 491-502.	2.9	13
67	Functional amyloids in insect immune response. Insect Biochemistry and Molecular Biology, 2012, 42, 203-211.	2.7	42
68	Molecular responses to stress conditions in invertebrate and vertebrate animal models. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 163, S40-S41.	1.8	1
69	Starvation strongly influences the development of Bombyx mori larvae. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 163, S56.	1.8	0
70	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
71	Molecular cloning, characterization and expression analysis of ATG1 in the silkworm, Bombyx mori. Gene, 2012, 511, 326-337.	2.2	27
72	Centrosome Amplification and Chromosomal Instability in Human and Animal Parthenogenetic Cell Lines. Stem Cell Reviews and Reports, 2012, 8, 1076-1087.	5.6	25

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73	Muscle development and differentiation in the urodele <scp>A</scp>mbystoma mexicanum. Development Growth and Differentiation, 2012, 54, 489-502.	1.5	5
74	Autophagy precedes apoptosis during the remodeling of silkworm larval midgut. Apoptosis: an International Journal on Programmed Cell Death, 2012, 17, 305-324.	4.9	140
75	5 PARTHENOGENETIC EMBRYONIC STEM CELLS ARE CONNECTED BY FUNCTIONAL INTERCELLULAR BRIDGES. Reproduction, Fertility and Development, 2012, 24, 114.	0.4	0
76	Expression of autophagy-related genes in the anterior silk gland of the silkworm (BombyxÂmori) during metamorphosis. Canadian Journal of Zoology, 2011, 89, 1019-1026.	1.0	15
77	Identification of Enterococcus mundtii as a pathogenic agent involved in the â€œflacherieâ€•disease in Bombyx mori L. larvae reared on artificial diet. Journal of Invertebrate Pathology, 2011, 106, 386-393.	3.2	40
78	Parthenogenetic Cell Lines: An Unstable Equilibrium Between Pluripotency and Malignant Transformation. Current Pharmaceutical Biotechnology, 2011, 12, 206-212.	1.6	7
79	Cytokine Loaded Biopolymers as a Novel Strategy to Study Stem Cells during Woundâ€Healing Processes. Macromolecular Bioscience, 2011, 11, 1008-1019.	4.1	14
80	The Leech: A Novel Invertebrate Model for Studying Muscle Regeneration and Diseases. Current Pharmaceutical Design, 2010, 16, 968-977.	1.9	12
81	Editorial [Hot topic: Current Perspectives on Muscle Regeneration and Diseases (Executive Editors:) Tj ETQq1 1 0.784314 rgBT /Overl	1.9	0
82	Autophagy and its physiological relevance in arthropods: Current knowledge and perspectives. Autophagy, 2010, 6, 575-588.	9.1	77
83	Phylogenesis of brain-derived neurotrophic factor (BDNF)â€•in vertebrates. Gene, 2010, 450, 85-93.	2.2	44
84	Autophagy, apoptosis, and ecdysis-related gene expression in the silk gland of the silkworm (BombyxÂmori) during metamorphosis. Canadian Journal of Zoology, 2010, 88, 1169-1178.	1.0	29
85	324 CELL LINES DERIVED FROM MAMMALIAN PARTHENOGENETIC EMBRYOS DISPLAY ABNORMAL CHROMOSOME COMPLEMENTS AND ABERRANT CENTRIOLE NUMBER. Reproduction, Fertility and Development, 2010, 22, 318.	0.4	0
86	Identification, Isolation and Expansion of Myoendothelial Cells Involved in Leech Muscle Regeneration. PLoS ONE, 2009, 4, e7652.	2.5	12
87	Cell Lines Derived from Human Parthenogenetic Embryos Can Display Aberrant Centriole Distribution and Altered Expression Levels of Mitotic Spindle Check-point Transcripts. Stem Cell Reviews and Reports, 2009, 5, 340-352.	5.6	40
88	Oligomycin A and the IPLBâ€ŁdFB insect cell line: Actin and mitochondrial responses. Cell Biology International, 2008, 32, 287-292.	3.0	10
89	Toxoneuron nigriceps parasitization delays midgut replacement in fifth-instar Heliothis virescens larvae. Cell and Tissue Research, 2008, 332, 371-379.	2.9	5
90	A hedgehog homolog is involved in muscle formation and organization of Sepia officinalis (mollusca) mantle. Developmental Dynamics, 2008, 237, 659-671.	1.8	29

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91	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. Autophagy, 2008, 4, 151-175.	9.1	2,064
92	Chapter Thirtyâ€Eight In Vitro Methods to Monitor Autophagy in Lepidoptera. Methods in Enzymology, 2008, 451, 685-709.	1.0	9
93	Autophagy in Invertebrates: Insights Into Development, Regeneration and Body Remodeling. Current Pharmaceutical Design, 2008, 14, 116-125.	1.9	52
94	In Vivo Isolation and Characterization of Stem Cells with Diverse Phenotypes Using Growth Factor Impregnated Biomatrices. PLoS ONE, 2008, 3, e1910.	2.5	9
95	Lepidopteran Larval Midgut During Prepupal Instar: Digestion or Self-Digestion?. Autophagy, 2007, 3, 630-631.	9.1	38
96	Signals and myogenic regulatory factors restrict pax3 and pax7 expression to dermomyotome-like tissue in zebrafish. Developmental Biology, 2007, 302, 504-521.	2.0	138
97	Programmed cell death and stem cell differentiation are responsible for midgut replacement in Heliothis virescens during prepupal instar. Cell and Tissue Research, 2007, 330, 345-359.	2.9	91
98	Oligomycin A induces autophagy in the IPLB-LdFB insect cell line. Cell and Tissue Research, 2006, 326, 179-186.	2.9	30
99	Structure and function of the extraembryonic membrane persisting around the larvae of the parasitoid Toxoneuron nigriceps. Journal of Insect Physiology, 2006, 52, 870-880.	2.0	10
100	Functional arrangement of rat diaphragmatic initial lymphatic network. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H876-H885.	3.2	58
101	Growth Factors and Chemokines: A Comparative Functional Approach Between Invertebrates and Vertebrates. Current Medicinal Chemistry, 2006, 13, 2737-2750.	2.4	39
102	Hematopoietic Cell Formation in Leech Wound Healing. Current Pharmaceutical Design, 2006, 12, 3033-3041.	1.9	27
103	Collagen reorganization in leech wound healing. Biology of the Cell, 2005, 97, 557-568.	2.0	28
104	Oxygen availability causes morphological changes and a different VEGF/Flkâ€1/HIFâ€2 expression pattern in sea bass gills. Italian Journal of Zoology, 2005, 72, 103-111.	0.6	18
105	A comparative study ofsporta perimedullaris musculosain the renicule of six species of cetaceans. Italian Journal of Zoology, 2004, 71, 115-121.	0.6	0
106	Hedgehog regulation of superficial slow muscle fibres in Xenopusand the evolution of tetrapod trunk myogenesis. Development (Cambridge), 2004, 131, 3249-3262.	2.5	66
107	Hirudo medicinalis: Avascular Tissues for Clear-Cut Angiogenesis Studies?. Current Pharmaceutical Design, 2004, 10, 1979-1988.	1.9	22
108	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.	1.5	17

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109	Differentiation of slow and fast fibers in tentacles of Sepia officinalis (Mollusca). Development Growth and Differentiation, 2004, 46, 181-193.	1.5	8
110	Generation of VSV-G pseudotyped lentiviral particles in 293T cells. Journal of Cellular and Molecular Medicine, 2004, 8, 142-143.	3.6	8
111	The multifunctional role of fibroblasts during wound healing in Hirudo medicinalis (Annelida,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.6	60
112	Leech responses to tissue transplantation. Tissue and Cell, 2003, 35, 199-212.	2.2	25
113	Vascular endothelial growth factor is involved in neoangiogenesis in Hirudo medicinalis (Annelida,) Tj ETQq1 1 0.784314 rgBT /Overlo	3.2	33
114	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.	4.0	1
115	Leeches: Immune Response, Angiogenesis and Biomedical Applications. Current Pharmaceutical Design, 2003, 9, 133-147.	1.9	21
116	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.	4.0	1
117	Ultrastructure and functional versatility of hirudinean botryoidal tissue. Tissue and Cell, 2001, 33, 332-341.	2.2	12
118	Hirudo medicinalis: a new model for testing activators and inhibitors of angiogenesis. Angiogenesis, 2001, 4, 299-312.	7.2	23
119	Larval anatomy and structure of absorbing epithelia in the aphid parasitoid Aphidius ervi Haliday (Hymenoptera, Braconidae). Arthropod Structure and Development, 2001, 30, 27-37.	1.4	46
120	Different types of response to foreign antigens by leech leukocytes. Tissue and Cell, 2000, 32, 40-48.	2.2	36
121	Integumental amino acid uptake in a carnivorous predator mollusc (Sepia officinalis, Cephalopoda). Tissue and Cell, 2000, 32, 389-398.	2.2	14
122	Lipopolysaccharide-dependent induction of leech leukocytes that cross-react with vertebrate cellular differentiation markers. Tissue and Cell, 2000, 32, 437-445.	2.2	31
123	Possible roles of extracellular matrix and cytoskeleton in leech body wall muscles. Journal of Microscopy, 1999, 196, 6-18.	1.8	9
124	Histopathological Changes after Induced Injury in Leeches1. Journal of Invertebrate Pathology, 1999, 74, 14-28.	3.2	26
125	Dimensional and numerical growth of helical fibers in leeches: An unusual pattern. , 1998, 281, 171-187.		8