

# Gianluca Tettamanti

## List of Publications by Year in descending order

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125  
papers

14,887  
citations

116194

36  
h-index

24511

114  
g-index

129  
all docs

129  
docs citations

129  
times ranked

28231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	4.3	3,122
3	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. <i>Autophagy</i> , 2008, 4, 151-175.	4.3	2,064
4	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (edition</i>	4.3	1,430
5	Midgut microbiota and host immunocompetence underlie <i>Bacillus thuringiensis</i> killing mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9486-9491.	3.3	144
6	Autophagy precedes apoptosis during the remodeling of silkworm larval midgut. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2012, 17, 305-324.	2.2	140
7	Signals and myogenic regulatory factors restrict pax3 and pax7 expression to dermomyotome-like tissue in zebrafish. <i>Developmental Biology</i> , 2007, 302, 504-521.	0.9	138
8	The Intestinal Microbiota of <i>Hermetia illucens</i> Larvae Is Affected by Diet and Shows a Diverse Composition in the Different Midgut Regions. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	134
9	Microbial and viral chitinases: Attractive biopesticides for integrated pest management. <i>Biotechnology Advances</i> , 2018, 36, 818-838.	6.0	107
10	Programmed cell death and stem cell differentiation are responsible for midgut replacement in <i>Heliothis virescens</i> during prepupal instar. <i>Cell and Tissue Research</i> , 2007, 330, 345-359.	1.5	91
11	Rapamycin and fasting sustain autophagy response activated by ischemia/reperfusion injury and promote retinal ganglion cell survival. <i>Cell Death and Disease</i> , 2018, 9, 981.	2.7	89
12	The amazing complexity of insect midgut cells: types, peculiarities, and functions. <i>Cell and Tissue Research</i> , 2019, 377, 505-525.	1.5	79
13	Autophagy and its physiological relevance in arthropods: Current knowledge and perspectives. <i>Autophagy</i> , 2010, 6, 575-588.	4.3	77
14	Structural and Functional Characterization of <i>Hermetia illucens</i> Larval Midgut. <i>Frontiers in Physiology</i> , 2019, 10, 204.	1.3	76
15	Haemocyte-mediated immunity in insects: Cells, processes and associated components in the fight against pathogens and parasites. <i>Immunology</i> , 2021, 164, 401-432.	2.0	71
16	A First Attempt to Produce Proteins from Insects by Means of a Circular Economy. <i>Animals</i> , 2019, 9, 278.	1.0	69
17	Hedgehog regulation of superficial slow muscle fibres in <i>Xenopus</i> and the evolution of tetrapod trunk myogenesis. <i>Development (Cambridge)</i> , 2004, 131, 3249-3262.	1.2	66
18	The multifunctional role of fibroblasts during wound healing in <i>Hirudo medicinalis</i> (Annelida,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td</i>	0.7	60

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19	Functional arrangement of rat diaphragmatic initial lymphatic network. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H876-H885.	1.5	58
20	Effects of <i>Trichoderma viride</i> chitinases on the peritrophic matrix of Lepidoptera. <i>Pest Management Science</i> , 2016, 72, 980-989.	1.7	58
21	Roles and regulation of autophagy and apoptosis in the remodelling of the lepidopteran midgut epithelium during metamorphosis. <i>Scientific Reports</i> , 2016, 6, 32939.	1.6	57
22	Cell death during complete metamorphosis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190065.	1.8	55
23	Regulators and signalling in insect antimicrobial innate immunity: Functional molecules and cellular pathways. <i>Cellular Signalling</i> , 2021, 83, 110003.	1.7	55
24	The midgut of the silkworm <i>Bombyx mori</i> is able to recycle molecules derived from degeneration of the larval midgut epithelium. <i>Cell and Tissue Research</i> , 2015, 361, 509-528.	1.5	53
25	Autophagy in Invertebrates: Insights Into Development, Regeneration and Body Remodeling. <i>Current Pharmaceutical Design</i> , 2008, 14, 116-125.	0.9	52
26	Black Soldier Fly Larvae Adapt to Different Food Substrates through Morphological and Functional Responses of the Midgut. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4955.	1.8	51
27	Metabolic adjustment of the larval fat body in <i>Hermetia illucens</i> to dietary conditions. <i>Journal of Asia-Pacific Entomology</i> , 2017, 20, 1307-1313.	0.4	47
28	Larval anatomy and structure of absorbing epithelia in the aphid parasitoid <i>Aphidius ervi</i> Haliday (Hymenoptera, Braconidae). <i>Arthropod Structure and Development</i> , 2001, 30, 27-37.	0.8	46
29	A Molecular View of Autophagy in Lepidoptera. <i>BioMed Research International</i> , 2014, 2014, 1-11.	0.9	46
30	The digestive system of the adult <i>Hermetia illucens</i> (Diptera: Stratiomyidae): morphological features and functional properties. <i>Cell and Tissue Research</i> , 2019, 378, 221-238.	1.5	45
31	Phylogenesis of brain-derived neurotrophic factor (BDNF) in vertebrates. <i>Gene</i> , 2010, 450, 85-93.	1.0	44
32	Functional amyloids in insect immune response. <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 203-211.	1.2	42
33	Morphological and Molecular Changes of Human Granulosa Cells Exposed to 5-Azacytidine and Addressed Toward Muscular Differentiation. <i>Stem Cell Reviews and Reports</i> , 2014, 10, 633-642.	5.6	41
34	Cell Lines Derived from Human Parthenogenetic Embryos Can Display Aberrant Centriole Distribution and Altered Expression Levels of Mitotic Spindle Check-point Transcripts. <i>Stem Cell Reviews and Reports</i> , 2009, 5, 340-352.	5.6	40
35	Identification of <i>Enterococcus mundtii</i> as a pathogenic agent involved in the "œflacherie" disease in <i>Bombyx mori</i> L. larvae reared on artificial diet. <i>Journal of Invertebrate Pathology</i> , 2011, 106, 386-393.	1.5	40
36	Growth Factors and Chemokines: A Comparative Functional Approach Between Invertebrates and Vertebrates. <i>Current Medicinal Chemistry</i> , 2006, 13, 2737-2750.	1.2	39

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37	Lepidopteran Larval Midgut During Prepupal Instar: Digestion or Self-Digestion?. <i>Autophagy</i> , 2007, 3, 630-631.	4.3	38
38	Different types of response to foreign antigens by leech leukocytes. <i>Tissue and Cell</i> , 2000, 32, 40-48.	1.0	36
39	Diversity of insect antimicrobial peptides and proteins - A functional perspective: A review. <i>International Journal of Biological Macromolecules</i> , 2021, 191, 277-287.	3.6	36
40	Balancing crosstalk between 20-hydroxyecdysone-induced autophagy and caspase activity in the fat body during <i>Drosophila</i> larval-prepupal transition. <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 1068-1078.	1.2	34
41	Vascular endothelial growth factor is involved in neangiogenesis in <i>Hirudo medicinalis</i> (Annelida.) <i>Tj ETQq1 1 0.784314 rgBT /Overlook</i>	1.4	33
42	Metagenome-Sourced Microbial Chitinases as Potential Insecticide Proteins. <i>Frontiers in Microbiology</i> , 2019, 10, 1358.	1.5	32
43	Lipopolysaccharide-dependent induction of leech leukocytes that cross-react with vertebrate cellular differentiation markers. <i>Tissue and Cell</i> , 2000, 32, 437-445.	1.0	31
44	Enhanced Silkworm Cecropin B Antimicrobial Activity against <i>Pseudomonas aeruginosa</i> from Single Amino Acid Variation. <i>ACS Infectious Diseases</i> , 2019, 5, 1200-1213.	1.8	31
45	Oligomycin A induces autophagy in the IPLB-LdFB insect cell line. <i>Cell and Tissue Research</i> , 2006, 326, 179-186.	1.5	30
46	Mechanical Processing of <i>Hermetia illucens</i> Larvae and <i>Bombyx mori</i> Pupae Produces Oils with Antimicrobial Activity. <i>Animals</i> , 2021, 11, 783.	1.0	30
47	A <i>hedgehog</i> homolog is involved in muscle formation and organization of <i>Sepia officinalis</i> (mollusca) mantle. <i>Developmental Dynamics</i> , 2008, 237, 659-671.	0.8	29
48	Autophagy, apoptosis, and ecdysis-related gene expression in the silk gland of the silkworm ( <i>Bombyx mori</i> ) during metamorphosis. <i>Canadian Journal of Zoology</i> , 2010, 88, 1169-1178.	0.4	29
49	5-azacytidine affects TET2 and histone transcription and reshapes morphology of human skin fibroblasts. <i>Scientific Reports</i> , 2016, 6, 37017.	1.6	29
50	Collagen reorganization in leech wound healing. <i>Biology of the Cell</i> , 2005, 97, 557-568.	0.7	28
51	Human recombinant RNASET2-induced inflammatory response and connective tissue remodeling in the medicinal leech. <i>Cell and Tissue Research</i> , 2017, 368, 337-351.	1.5	28
52	AIF-1 and RNASET2 Play Complementary Roles in the Innate Immune Response of Medicinal Leech. <i>Journal of Innate Immunity</i> , 2019, 11, 150-167.	1.8	28
53	Hematopoietic Cell Formation in Leech Wound Healing. <i>Current Pharmaceutical Design</i> , 2006, 12, 3033-3041.	0.9	27
54	Molecular cloning, characterization and expression analysis of ATG1 in the silkworm, <i>Bombyx mori</i> . <i>Gene</i> , 2012, 511, 326-337.	1.0	27

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55	Histopathological Changes after Induced Injury in Leeches1. <i>Journal of Invertebrate Pathology</i> , 1999, 74, 14-28.	1.5	26
56	Leech responses to tissue transplantation. <i>Tissue and Cell</i> , 2003, 35, 199-212.	1.0	25
57	Centrosome Amplification and Chromosomal Instability in Human and Animal Parthenogenetic Cell Lines. <i>Stem Cell Reviews and Reports</i> , 2012, 8, 1076-1087.	5.6	25
58	Homolog of allograft inflammatory factor-1 induces macrophage migration during innate immune response in leech. <i>Cell and Tissue Research</i> , 2015, 359, 853-864.	1.5	24
59	Intrinsic antimicrobial properties of silk spun by genetically modified silkworm strains. <i>Transgenic Research</i> , 2018, 27, 87-101.	1.3	24
60	Estimating black soldier fly larvae biowaste conversion performance by simulation of midgut digestion. <i>Waste Management</i> , 2020, 112, 40-51.	3.7	24
61	<i>Hirudo medicinalis</i> : a new model for testing activators and inhibitors of angiogenesis. <i>Angiogenesis</i> , 2001, 4, 299-312.	3.7	23
62	<i>Hirudo medicinalis</i> : Avascular Tissues for Clear-Cut Angiogenesis Studies?. <i>Current Pharmaceutical Design</i> , 2004, 10, 1979-1988.	0.9	22
63	Cholesterol derivatives induce dephosphorylation of the histone deacetylases Rpd3/HDAC1 to upregulate autophagy. <i>Autophagy</i> , 2021, 17, 512-528.	4.3	22
64	Photoinduced antibacterial activity of two dicationic 5,15-diarylporphyrins. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 127, 123-132.	1.7	21
65	Leeches: Immune Response, Angiogenesis and Biomedical Applications. <i>Current Pharmaceutical Design</i> , 2003, 9, 133-147.	0.9	21
66	Midgut epithelium in molting silkworm: A fine balance among cell growth, differentiation, and survival. <i>Arthropod Structure and Development</i> , 2016, 45, 368-379.	0.8	20
67	Oxygen availability causes morphological changes and a different VEGF/Flk1/HIF2 expression pattern in sea bass gills. <i>Italian Journal of Zoology</i> , 2005, 72, 103-111.	0.6	18
68	NET amyloidogenic backbone in human activated neutrophils. <i>Clinical and Experimental Immunology</i> , 2016, 183, 469-479.	1.1	18
69	A new cellular type in invertebrates: first evidence of telocytes in leech <i>Hirudo medicinalis</i> . <i>Scientific Reports</i> , 2017, 7, 13580.	1.6	18
70	An in-depth description of head morphology and mouthparts in larvae of the black soldier fly <i>Hermetia illucens</i> . <i>Arthropod Structure and Development</i> , 2020, 58, 100969.	0.8	18
71	Muscle differentiation in tentacles of <i>Sepia officinalis</i> (Mollusca) is regulated by muscle regulatory factors (MRF) related proteins. <i>Development Growth and Differentiation</i> , 2004, 46, 83-95.	0.6	17
72	Timing of autophagy and apoptosis during posterior silk gland degeneration in <i>Bombyx mori</i> . <i>Arthropod Structure and Development</i> , 2017, 46, 518-528.	0.8	17

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73	MCF7 Spheroid Development: New Insight about Spatio/Temporal Arrangements of TNTs, Amyloid Fibrils, Cell Connections, and Cellular Bridges. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5400.	1.8	17
74	Cellular responses induced by multi-walled carbon nanotubes: in vivo and in vitro studies on the medicinal leech macrophages. <i>Scientific Reports</i> , 2017, 7, 8871.	1.6	16
75	Antimicrobial Role of RNASET2 Protein During Innate Immune Response in the Medicinal Leech <i>Hirudo verbana</i> . <i>Frontiers in Immunology</i> , 2020, 11, 370.	2.2	16
76	Expression of autophagy-related genes in the anterior silk gland of the silkworm ( <i>Bombyx mori</i> ) during metamorphosis. <i>Canadian Journal of Zoology</i> , 2011, 89, 1019-1026.	0.4	15
77	Autophagy in development and regeneration: role in tissue remodelling and cell survival. , 2019, 86, 113-131.		15
78	A Silkworm Infection Model for In Vivo Study of Glycopeptide Antibiotics. <i>Antibiotics</i> , 2020, 9, 300.	1.5	15
79	Insights Into the Immune Response of the Black Soldier Fly Larvae to Bacteria. <i>Frontiers in Immunology</i> , 2021, 12, 745160.	2.2	15
80	Integumental amino acid uptake in a carnivorous predator mollusc ( <i>Sepia officinalis</i> , Cephalopoda). <i>Tissue and Cell</i> , 2000, 32, 389-398.	1.0	14
81	Cytokine Loaded Biopolymers as a Novel Strategy to Study Stem Cells during Wound Healing Processes. <i>Macromolecular Bioscience</i> , 2011, 11, 1008-1019.	2.1	14
82	P300/HDAC1 regulates the acetylation/deacetylation and autophagic activities of LC3/Atg8/PE ubiquitin-like system. <i>Cell Death Discovery</i> , 2021, 7, 128.	2.0	14
83	Transcriptional and Post-Transcriptional Regulation of Autophagy. <i>Cells</i> , 2022, 11, 441.	1.8	14
84	The main actors involved in parasitization of <i>Heliothis virescens</i> larva. <i>Cell and Tissue Research</i> , 2012, 350, 491-502.	1.5	13
85	Differential sensitivity to infections and antimicrobial peptide-mediated immune response in four silkworm strains with different geographical origin. <i>Scientific Reports</i> , 2017, 7, 1048.	1.6	13
86	Negative impact of Novaluron on the nontarget insect <i>Bombyx mori</i> (Lepidoptera: Bombycidae). <i>Environmental Pollution</i> , 2019, 249, 82-90.	3.7	13
87	New value from food and industrial wastes – Bioaccumulation of omega-3 fatty acids from an oleaginous microbial biomass paired with a brewery by-product using black soldier fly ( <i>Hermetia</i> ) <a href="#">TJ ETQq1 1 0.784314 rgBT / Overlock</a>		13
88	Ultrastructure and functional versatility of hirudinean botryoidal tissue. <i>Tissue and Cell</i> , 2001, 33, 332-341.	1.0	12
89	Identification, Isolation and Expansion of Myoendothelial Cells Involved in Leech Muscle Regeneration. <i>PLoS ONE</i> , 2009, 4, e7652.	1.1	12
90	The Leech: A Novel Invertebrate Model for Studying Muscle Regeneration and Diseases. <i>Current Pharmaceutical Design</i> , 2010, 16, 968-977.	0.9	12

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91	A hungry need for knowledge on the black soldier fly digestive system. <i>Journal of Insects As Food and Feed</i> , 2022, 8, 217-222.	2.1	11
92	Structure and function of the extraembryonic membrane persisting around the larvae of the parasitoid <i>Toxoneuron nigriceps</i> . <i>Journal of Insect Physiology</i> , 2006, 52, 870-880.	0.9	10
93	Oligomycin A and the IPLB dFB insect cell line: Actin and mitochondrial responses. <i>Cell Biology International</i> , 2008, 32, 287-292.	1.4	10
94	Possible roles of extracellular matrix and cytoskeleton in leech body wall muscles. <i>Journal of Microscopy</i> , 1999, 196, 6-18.	0.8	9
95	Chapter Thirty-Eight In Vitro Methods to Monitor Autophagy in Lepidoptera. <i>Methods in Enzymology</i> , 2008, 451, 685-709.	0.4	9
96	Transgenic protein production in silkworm silk glands requires cathepsin and chitinase of <i>Autographa californica</i> multicapsid nucleopolyhedrovirus. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4571-4580.	1.7	9
97	The Lepidopteran endoribonuclease-U domain protein P102 displays dramatically reduced enzymatic activity and forms functional amyloids. <i>Developmental and Comparative Immunology</i> , 2014, 47, 129-139.	1.0	9
98	HvRNASET2 Regulate Connective Tissue and Collagen I Remodeling During Wound Healing Process. <i>Frontiers in Physiology</i> , 2021, 12, 632506.	1.3	9
99	In Vivo Isolation and Characterization of Stem Cells with Diverse Phenotypes Using Growth Factor Impregnated Biomatrices. <i>PLoS ONE</i> , 2008, 3, e1910.	1.1	9
100	Dimensional and numerical growth of helical fibers in leeches: An unusual pattern. , 1998, 281, 171-187.		8
101	Differentiation of slow and fast fibers in tentacles of <i>Sepia officinalis</i> (Mollusca). <i>Development Growth and Differentiation</i> , 2004, 46, 181-193.	0.6	8
102	Generation of VSV-G pseudotyped lentiviral particles in 293T cells. <i>Journal of Cellular and Molecular Medicine</i> , 2004, 8, 142-143.	1.6	8
103	Parthenogenetic Cell Lines: An Unstable Equilibrium Between Pluripotency and Malignant Transformation. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 206-212.	0.9	7
104	Annelida: Hirudinea (Leeches): Heterogeneity in Leech Immune Responses. , 2018, , 173-191.		6
105	The medicinal leech as a valuable model for better understanding the role of a TLR4-like receptor in the inflammatory process. <i>Cell and Tissue Research</i> , 2019, 377, 245-257.	1.5	6
106	Recombinant HvRNASET2 protein induces marked connective tissue remodelling in the invertebrate model <i>Hirudo verbana</i> . <i>Cell and Tissue Research</i> , 2020, 380, 565-579.	1.5	6
107	<i>Toxoneuron nigriceps</i> parasitization delays midgut replacement in fifth-instar <i>Heliothis virescens</i> larvae. <i>Cell and Tissue Research</i> , 2008, 332, 371-379.	1.5	5
108	Muscle development and differentiation in the urodele <i>Ambystoma mexicanum</i> . <i>Development Growth and Differentiation</i> , 2012, 54, 489-502.	0.6	5

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109	Intercellular bridges are essential for human parthenogenetic cell survival. Mechanisms of Development, 2015, 136, 30-39.	1.7	4
110	Protective Responses in Invertebrates. , 2016, , 145-157.		4
111	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.	1.8	1
112	Molecular responses to stress conditions in invertebrate and vertebrate animal models. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 163, S40-S41.	0.8	1
113	The Key Role of Autophagy and its Relationship with Apoptosis in Lepidopteran Larval Midgut Remodeling. , 2014, , 333-349.		1
114	Methods for Monitoring Autophagy in Silkworm Organs. Methods in Molecular Biology, 2018, 1854, 159-174.	0.4	1
115	3D Reconstruction of HvRNASET2 Molecule to Understand Its Antibacterial Role. International Journal of Molecular Sciences, 2020, 21, 9722.	1.8	1
116	A new cellular type in invertebrates: first evidence of telocytes in leech Hirudo medicinalis. Journal of Immunological Sciences, 2018, 2, 22-25.	0.5	1
117	Oral Infection in a Germ-Free Bombyx mori Model. Springer Protocols, 2020, , 217-231.	0.1	1
118	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.	1.8	1
119	A comparative study of sporta perimedullaris musculosain the renicule of six species of cetaceans. Italian Journal of Zoology, 2004, 71, 115-121.	0.6	0
120	Editorial [Hot topic: Current Perspectives on Muscle Regeneration and Diseases (Executive Editors:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	0
121	Starvation strongly influences the development of Bombyx mori larvae. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 163, S56.	0.8	0
122	Amyloidogenesis and Responses to Stress. , 2016, , .		0
123	Hirudo medicinalis as alternative model for in vivo and in vitro studies on nanomaterials toxicity. Toxicology Letters, 2016, 258, S72.	0.4	0
124	324 CELL LINES DERIVED FROM MAMMALIAN PARTHENOGENETIC EMBRYOS DISPLAY ABNORMAL CHROMOSOME COMPLEMENTS AND ABERRANT CENTRIOLE NUMBER. Reproduction, Fertility and Development, 2010, 22, 318.	0.1	0
125	5 PARTHENOGENETIC EMBRYONIC STEM CELLS ARE CONNECTED BY FUNCTIONAL INTERCELLULAR BRIDGES. Reproduction, Fertility and Development, 2012, 24, 114.	0.1	0