

# Gianluca Tettamanti

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2713537/publications.pdf>

Version: 2024-02-01

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	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
3	Guidelines for the use and interpretation of assays for monitoring autophagy in higher eukaryotes. Autophagy, 2008, 4, 151-175.	9.1	2,064
4	Guidelines for the use and interpretation of assays for monitoring autophagy (4th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (edition	9.1	1,430
5	Midgut microbiota and host immunocompetence underlie <i>Bacillus thuringiensis</i> killing mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9486-9491.	7.1	144
6	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
7	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
8	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
9	Microbial and viral chitinases: Attractive biopesticides for integrated pest management. Biotechnology Advances, 2018, 36, 818-838.	11.7	107
10	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
11	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
12	The amazing complexity of insect midgut cells: types, peculiarities, and functions. Cell and Tissue Research, 2019, 377, 505-525.	2.9	79
13	Autophagy and its physiological relevance in arthropods: Current knowledge and perspectives. Autophagy, 2010, 6, 575-588.	9.1	77
14	Structural and Functional Characterization of Hermetia illucens Larval Midgut. Frontiers in Physiology, 2019, 10, 204.	2.8	76
15	Haemocyte-mediated immunity in insects: Cells, processes and associated components in the fight against pathogens and parasites. Immunology, 2021, 164, 401-432.	4.4	71
16	A First Attempt to Produce Proteins from Insects by Means of a Circular Economy. Animals, 2019, 9, 278.	2.3	69
17	Hedgehog regulation of superficial slow muscle fibres in Xenopus and the evolution of tetrapod trunk myogenesis. Development (Cambridge), 2004, 131, 3249-3262.	2.5	66
18	The multifunctional role of fibroblasts during wound healing in Hirudo medicinalis (Annelida,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	2.0	60

#	ARTICLE	IF	CITATIONS
19	Functional arrangement of rat diaphragmatic initial lymphatic network. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H876-H885.	3.2	58
20	Effects of <i>Trichoderma viride</i> chitinases on the peritrophic matrix of Lepidoptera. Pest Management Science, 2016, 72, 980-989.	3.4	58
21	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
22	Cell death during complete metamorphosis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190065.	4.0	55
23	Regulators and signalling in insect antimicrobial innate immunity: Functional molecules and cellular pathways. Cellular Signalling, 2021, 83, 110003.	3.6	55
24	The midgut of the silkworm <i>Bombyx mori</i> is able to recycle molecules derived from degeneration of the larval midgut epithelium. Cell and Tissue Research, 2015, 361, 509-528.	2.9	53
25	Autophagy in Invertebrates: Insights Into Development, Regeneration and Body Remodeling. Current Pharmaceutical Design, 2008, 14, 116-125.	1.9	52
26	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
27	Metabolic adjustment of the larval fat body in <i>Hermetia illucens</i> to dietary conditions. Journal of Asia-Pacific Entomology, 2017, 20, 1307-1313.	0.9	47
28	Larval anatomy and structure of absorbing epithelia in the aphid parasitoid <i>Aphidius ervi</i> Haliday (Hymenoptera, Braconidae). Arthropod Structure and Development, 2001, 30, 27-37.	1.4	46
29	A Molecular View of Autophagy in Lepidoptera. BioMed Research International, 2014, 2014, 1-11.	1.9	46
30	The digestive system of the adult <i>Hermetia illucens</i> (Diptera: Stratiomyidae): morphological features and functional properties. Cell and Tissue Research, 2019, 378, 221-238.	2.9	45
31	Phylogenesis of brain-derived neurotrophic factor (BDNF) in vertebrates. Gene, 2010, 450, 85-93.	2.2	44
32	Functional amyloids in insect immune response. Insect Biochemistry and Molecular Biology, 2012, 42, 203-211.	2.7	42
33	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
34	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
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. Journal of Invertebrate Pathology, 2011, 106, 386-393.	3.2	40
36	Growth Factors and Chemokines: A Comparative Functional Approach Between Invertebrates and Vertebrates. Current Medicinal Chemistry, 2006, 13, 2737-2750.	2.4	39

#	ARTICLE	IF	CITATIONS
37	Lepidopteran Larval Midgut During Prepupal Instar: Digestion or Self-Digestion?. <i>Autophagy</i> , 2007, 3, 630-631.	9.1	38
38	Different types of response to foreign antigens by leech leukocytes. <i>Tissue and Cell</i> , 2000, 32, 40-48.	2.2	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.	7.5	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.	2.7	34
41	Vascular endothelial growth factor is involved in neoangiogenesis in <i>Hirudo medicinalis</i> (Annelida.) <i>Tj ETQq1 1 0.784314 rgBT /Overlook</i>	3.2	33
42	Metagenome-Sourced Microbial Chitinases as Potential Insecticide Proteins. <i>Frontiers in Microbiology</i> , 2019, 10, 1358.	3.5	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.	2.2	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.	3.8	31
45	Oligomycin A induces autophagy in the IPLB-LdFB insect cell line. <i>Cell and Tissue Research</i> , 2006, 326, 179-186.	2.9	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.	2.3	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.	1.8	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.	1.0	29
49	5-azacytidine affects TET2 and histone transcription and reshapes morphology of human skin fibroblasts. <i>Scientific Reports</i> , 2016, 6, 37017.	3.3	29
50	Collagen reorganization in leech wound healing. <i>Biology of the Cell</i> , 2005, 97, 557-568.	2.0	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.	2.9	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.	3.8	28
53	Hematopoietic Cell Formation in Leech Wound Healing. <i>Current Pharmaceutical Design</i> , 2006, 12, 3033-3041.	1.9	27
54	Molecular cloning, characterization and expression analysis of ATG1 in the silkworm, <i>Bombyx mori</i> . <i>Gene</i> , 2012, 511, 326-337.	2.2	27

#	ARTICLE	IF	CITATIONS
55	Histopathological Changes after Induced Injury in Leeches1. <i>Journal of Invertebrate Pathology</i> , 1999, 74, 14-28.	3.2	26
56	Leech responses to tissue transplantation. <i>Tissue and Cell</i> , 2003, 35, 199-212.	2.2	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.	2.9	24
59	Intrinsic antimicrobial properties of silk spun by genetically modified silkworm strains. <i>Transgenic Research</i> , 2018, 27, 87-101.	2.4	24
60	Estimating black soldier fly larvae biowaste conversion performance by simulation of midgut digestion. <i>Waste Management</i> , 2020, 112, 40-51.	7.4	24
61	<i>Hirudo medicinalis</i> : a new model for testing activators and inhibitors of angiogenesis. <i>Angiogenesis</i> , 2001, 4, 299-312.	7.2	23
62	<i>Hirudo medicinalis</i> : Avascular Tissues for Clear-Cut Angiogenesis Studies?. <i>Current Pharmaceutical Design</i> , 2004, 10, 1979-1988.	1.9	22
63	Cholesterol derivatives induce dephosphorylation of the histone deacetylases Rpd3/HDAC1 to upregulate autophagy. <i>Autophagy</i> , 2021, 17, 512-528.	9.1	22
64	Photoinduced antibacterial activity of two dicationic 5,15-diarylporphyrins. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013, 127, 123-132.	3.8	21
65	Leeches: Immune Response, Angiogenesis and Biomedical Applications. <i>Current Pharmaceutical Design</i> , 2003, 9, 133-147.	1.9	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.	1.4	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.	2.6	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.	3.3	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.	1.4	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.	1.5	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.	1.4	17

#	ARTICLE	IF	CITATIONS
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.	4.1	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.	3.3	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.	4.8	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.	1.0	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.	3.7	15
79	Insights Into the Immune Response of the Black Soldier Fly Larvae to Bacteria. <i>Frontiers in Immunology</i> , 2021, 12, 745160.	4.8	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.	2.2	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.	4.1	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.	4.7	14
83	Transcriptional and Post-Transcriptional Regulation of Autophagy. <i>Cells</i> , 2022, 11, 441.	4.1	14
84	The main actors involved in parasitization of <i>Heliothis virescens</i> larva. <i>Cell and Tissue Research</i> , 2012, 350, 491-502.	2.9	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.	3.3	13
86	Negative impact of Novaluron on the nontarget insect <i>Bombyx mori</i> (Lepidoptera: Bombycidae). <i>Environmental Pollution</i> , 2019, 249, 82-90.	7.5	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> ) Tj ETQq1 1 0.784314 rgBT / Overlock 1	3.14	13
88	Ultrastructure and functional versatility of hirudinean botryoidal tissue. <i>Tissue and Cell</i> , 2001, 33, 332-341.	2.2	12
89	Identification, Isolation and Expansion of Myoendothelial Cells Involved in Leech Muscle Regeneration. <i>PLoS ONE</i> , 2009, 4, e7652.	2.5	12
90	The Leech: A Novel Invertebrate Model for Studying Muscle Regeneration and Diseases. <i>Current Pharmaceutical Design</i> , 2010, 16, 968-977.	1.9	12

#	ARTICLE	IF	CITATIONS
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.	3.9	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.	2.0	10
93	Oligomycin A and the IPLB dFB insect cell line: Actin and mitochondrial responses. <i>Cell Biology International</i> , 2008, 32, 287-292.	3.0	10
94	Possible roles of extracellular matrix and cytoskeleton in leech body wall muscles. <i>Journal of Microscopy</i> , 1999, 196, 6-18.	1.8	9
95	Chapter Thirty-Eight In Vitro Methods to Monitor Autophagy in Lepidoptera. <i>Methods in Enzymology</i> , 2008, 451, 685-709.	1.0	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.	3.6	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.	2.3	9
98	HvRNASET2 Regulate Connective Tissue and Collagen I Remodeling During Wound Healing Process. <i>Frontiers in Physiology</i> , 2021, 12, 632506.	2.8	9
99	In Vivo Isolation and Characterization of Stem Cells with Diverse Phenotypes Using Growth Factor Impregnated Biomaterials. <i>PLoS ONE</i> , 2008, 3, e1910.	2.5	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.	1.5	8
102	Generation of VSV-G pseudotyped lentiviral particles in 293T cells. <i>Journal of Cellular and Molecular Medicine</i> , 2004, 8, 142-143.	3.6	8
103	Parthenogenetic Cell Lines: An Unstable Equilibrium Between Pluripotency and Malignant Transformation. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 206-212.	1.6	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.	2.9	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.	2.9	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.	2.9	5
108	Muscle development and differentiation in the urodele <i>Ambystoma mexicanum</i> . <i>Development Growth and Differentiation</i> , 2012, 54, 489-502.	1.5	5

#	ARTICLE	IF	CITATIONS
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.	4.0	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.	1.8	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.	0.9	1
115	3D Reconstruction of HvRNASET2 Molecule to Understand Its Antibacterial Role. International Journal of Molecular Sciences, 2020, 21, 9722.	4.1	1
116	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
117	Oral Infection in a Germ-Free Bombyx mori Model. Springer Protocols, 2020, , 217-231.	0.3	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.	4.0	1
119	A comparative study of sporta perimedullaris musculosain the renicula 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	1.9	0
121	Starvation strongly influences the development of Bombyx mori larvae. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 163, S56.	1.8	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.	0.8	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.	0.4	0
125	5 PARTHENOGENETIC EMBRYONIC STEM CELLS ARE CONNECTED BY FUNCTIONAL INTERCELLULAR BRIDGES. Reproduction, Fertility and Development, 2012, 24, 114.	0.4	0