Aurelio A Teleman

List of Publications by Year
in descending order

81 papers	7,497 citations	81434 41 h-index	66518 82 g-index
99 all docs	99 docs citations	99 times ranked	12542 citing authors

#	Article	IF	Citations
1	Dpp Gradient Formation in the Drosophila Wing Imaginal Disc. Cell, 2000, 103, 971-980.	13.5	435
2	Chromosome and Low Copy Plasmid Segregation in E. coli: Visual Evidence for Distinct Mechanisms. Cell, 1997, 90, 1113-1121.	13.5	386
3	Bipolar Localization of the Replication Origin Regions of Chromosomes in Vegetative and Sporulating Cells of B. subtilis. Cell, 1997, 88, 667-674.	13.5	357
4	Molecular mechanisms of metabolic regulation by insulin in Drosophila. Biochemical Journal, 2010, 425, 13-26.	1.7	343
5	Regulation of TORC1 in Response to Amino Acid Starvation via Lysosomal Recruitment of TSC2. Cell, 2014, 156, 786-799.	13.5	337
6	On the mechanism of wing size determination in fly development. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3835-3840.	3.3	327
7	InÂVivo Mapping of Hydrogen Peroxide and Oxidized Glutathione Reveals Chemical and Regional Specificity of Redox Homeostasis. Cell Metabolism, 2011, 14, 819-829.	7.2	298
8	Isolation of microRNA targets by miRNP immunopurification. Rna, 2007, 13, 1198-1204.	1.6	268
9	4E-BP functions as a metabolic brake used under stress conditions but not during normal growth. Genes and Development, 2005, 19, 1844-1848.	2.7	224
10	Nutritional Control of Protein Biosynthetic Capacity by Insulin via Myc in Drosophila. Cell Metabolism, 2008, 7, 21-32.	7.2	224
11	Drosophila lacking microRNA miR-278 are defective in energy homeostasis. Genes and Development, 2006, 20, 417-422.	2.7	211
12	Use of time-lapse microscopy to visualize rapid movement of the replication origin region of the chromosome during the cell cycle in Bacillus subtilis. Molecular Microbiology, 1998, 28, 883-892.	1.2	189
13	Chromosome arrangement within a bacterium. Current Biology, 1998, 8, 1102-1109.	1.8	186
14	Regulation of mitochondrial morphology and function by stearoylation of TFR1. Nature, 2015, 525, 124-128.	13.7	174
15	The Growth Regulators warts/lats and melted Interact in a Bistable Loop to Specify Opposite Fates in Drosophila R8 Photoreceptors. Cell, 2005, 122, 775-787.	13.5	163
16	Shaping Morphogen Gradients. Cell, 2001, 105, 559-562.	13.5	160
17	DENRâ€“MCT-1 promotes translation re-initiation downstream of uORFs to control tissue growth. Nature, 2014, 512, 208-212.	13.7	148
18	Use of green fluorescent protein for visualization of cell-specific gene expression and subcellular protein localization during sporulation in Bacillus subtilis. Journal of Bacteriology, 1995, 177, 5906-5911.	1.0	146

#	Article	IF	Citations
19	Lysosomal recruitment of TSC2 is a universal response to cellular stress. Nature Communications, 2016, 7, 10662.	5.8	129
20	Insulin/IGF signaling drives cell proliferation in part via Yorkie/YAP. Developmental Biology, 2012, 367, 187-196.	0.9	126
21	Elevated Levels of the Reactive Metabolite Methylglyoxal Recapitulate Progression of Type 2 Diabetes. Cell Metabolism, 2018, 27, 926-934.e8.	7.2	117
22	PP2A Regulatory Subunit PP2A-Bâ€² Counteracts S6K Phosphorylation. Cell Metabolism, 2010, 11, 438-444.	7.2	110
23	Drosophila Melted Modulates FOXO and TOR Activity. Developmental Cell, 2005, 9, 271-281.	3.1	109
24	Selective 40S Footprinting Reveals Cap-Tethered Ribosome Scanning in Human Cells. Molecular Cell, 2020, 79, 561-574.e5.	4.5	96
25	Cdk4 and Cdk6 Couple the Cell-Cycle Machinery to Cell Growth via mTORC1. Cell Reports, 2020, 31, 107504.	2.9	96
26	Insulin Signaling Regulates Fatty Acid Catabolism at the Level of CoA Activation. PLoS Genetics, 2012, 8, e1002478.	1.5	93
27	REPTOR and REPTOR-BP Regulate Organismal Metabolism and Transcription Downstream of TORC1. Developmental Cell, 2015, 33, 272-284.	3.1	86
28	Fitness trade-offs incurred by ovary-to-gut steroid signalling in Drosophila. Nature, 2020, 584, 415-419.	13.7	83
29	Dietary stearic acid regulates mitochondria in vivo in humans. Nature Communications, 2018, 9, 3129.	5.8	80
30	Metabolites Regulate Cell Signaling and Growth via Covalent Modification of Proteins. Developmental Cell, 2020, 54, 156-170.	3.1	77
31	SETD3 protein is the actin-specific histidine N-methyltransferase. ELife, 2018, 7, .	2.8	77
32	dDOR Is an EcR Coactivator that Forms a Feed-Forward Loop Connecting Insulin and Ecdysone Signaling. Current Biology, 2010, 20, 1799-1808.	1.8	75
33	Translation acrobatics: how cancer cells exploit alternate modes of translational initiation. EMBO Reports, 2018, 19, .	2.0	73
34	The nuclear cofactor DOR regulates autophagy in mammalian and Drosophila cells. EMBO Reports, 2010, 11, 37-44.	2.0	68
35	G3BPs tether the TSC complex to lysosomes and suppress mTORC1 signaling. Cell, 2021, 184, 655-674.e27.	13.5	65
36	Chicken or the egg: Warburg effect and mitochondrial dysfunction. F1000prime Reports, 2015, 7, 41.	5.9	64

#	Article	IF	Citations
37	Gene expression atlas of a developing tissue by single cell expression correlation analysis. Nature Methods, 2019, 16, 750-756.	9.0	58
38	DENR promotes translation reinitiation via ribosome recycling to drive expression of oncogenes including ATF4. Nature Communications, 2020, 11, 4676.	5.8	58
39	MAP4K3 regulates body size and metabolism in Drosophila. Developmental Biology, 2010, 344, 150-157.	0.9	57
40	CycD/Cdk4 and Discontinuities in Dpp Signaling Activate TORC1 in the Drosophila Wing Disc. Developmental Cell, 2017, 42, 376-387.e5.	3.1	54
41	THADA Regulates the Organismal Balance between Energy Storage and Heat Production. Developmental Cell, 2017, 41, 72-81.e6.	3.1	51
42	Damage sensing by a Nox-Ask1-MKK3-p38 signaling pathway mediates regeneration in the adult Drosophila midgut. Nature Communications, 2019, 10, 4365.	5.8	49
43	Tissue-Specific Coupling between Insulin/IGF and TORC1 Signaling via PRAS40 in Drosophila. Developmental Cell, 2012, 22, 172-182.	3.1	47
44	Evidence Against a Role for the Parkinsonism-associated Protein DJ-1 in Methylglyoxal Detoxification. Journal of Biological Chemistry, 2017, 292, 685-690.	1.6	45
45	Bin1 directly remodels actin dynamics through its <scp>BAR</scp> domain. EMBO Reports, 2017, 18, 2051-2066.	2.0	42
46	Identification of transcripts with short stuORFs as targets for DENRâ€¢MCTS1-dependent translation in human cells. Scientific Reports, 2017, 7, 3722.	1.6	42
47	Unbalanced lipolysis results in lipotoxicity and mitochondrial damage in peroxisome-deficient Pex19 mutants. Molecular Biology of the Cell, 2018, 29, 396-407.	0.9	40
48	Phosphorylation of ribosomal protein S6 differentially affects mRNA translation based on ORF length. Nucleic Acids Research, 2021, 49, 13062-13074.	6.5	35
49	Drosophila: A Model for Understanding Obesity and Diabetic Complications. Experimental and Clinical Endocrinology and Diabetes, 2012, 120, 184-185.	0.6	34
50	Changes in global translation elongation or initiation rates shape the proteome via the Kozak sequence. Scientific Reports, 2018, 8, 4018.	1.6	34
51	Brk regulates wing disc growth in part via repression of Myc expression. EMBO Reports, 2013, 14, 261-268.	2.0	33
52	PPP2R5C Couples Hepatic Glucose and Lipid Homeostasis. PLoS Genetics, 2015, 11, e1005561.	1.5	33
53	DENRâ€“MCTS1 heterodimerization and tRNA recruitment are required for translation reinitiation. PLoS Biology, 2018, 16, e2005160.	2.6	33
54	De Novo Mutations in DENR Disrupt Neuronal Development and Link Congenital Neurological Disorders to Faulty mRNA Translation Re-initiation. Cell Reports, 2016, 15, 2251-2265.	2.9	30

#	Article	IF	Citations
55	Akt Phosphorylates Both Tsc1 and Tsc2 in Drosophila, but Neither Phosphorylation Is Required for Normal Animal Growth. PLoS ONE, 2009, 4, e6305.	1.1	30
56	Parkinson's disease protein PARK7 prevents metabolite and protein damage caused by a glycolytic metabolite. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	29
57	Wnt6 is required for maxillary palp formation in Drosophila. BMC Biology, 2013, 11, 104.	1.7	27
58	<scp>eIF</scp>4A inactivates <scp>TORC</scp>1 in response to amino acidÂstarvation. EMBO Journal, 2016, 35, 1058-1076.	3.5	26
59	TSC2 mediates hyperosmotic stress-induced inactivation of mTORC1. Scientific Reports, 2015, 5, 13828.	1.6	25
60	Dietary rescue of lipotoxicity-induced mitochondrial damage in Peroxin19 mutants. PLoS Biology, 2018, 16, e2004893.	2.6	20
61	Stearic acid blunts growth-factor signaling via oleoylation of GNAI proteins. Nature Communications, 2021, 12, 4590.	5.8	18
62	Cyclin B/CDK1 and Cyclin A/CDK2 phosphorylate DENR to promote mitotic protein translation and faithful cell division. Nature Communications, 2022, 13, 668.	5.8	17
63	Drosophila ZDHHC8 palmitoylates scribble and Ras64B and controls growth and viability. PLoS ONE, 2019, 14, e0198149.	1.1	15
64	Oxygenation and adenosine deaminase support growth and proliferation of ex vivo cultured Drosophila wing imaginal discs. Development (Cambridge), 2017, 144, 2529-2538.	1.2	14
65	Phosphorylation of T107 by CamKIIÎ´ Regulates the Detoxification Efficiency and Proteomic Integrity of Glyoxalase 1. Cell Reports, 2020, 32, 108160.	2.9	12
66	Ecdysone regulates Drosophila wing disc size via a TORC1 dependent mechanism. Nature Communications, 2021, 12, 6684.	5.8	12
67	miR-200 De-FOGs Insulin Signaling. Cell Metabolism, 2010, 11, 8-9.	7.2	10
68	Crebl2 regulates cell metabolism in muscle and liver cells. Scientific Reports, 2019, 9, 19869.	1.6	10
69	A novel regulator of ER Ca2+ drives Hippo-mediated tumorigenesis. Oncogene, 2020, 39, 1378-1387.	2.6	10
70	Effects of the Reactive Metabolite Methylglyoxal on Cellular Signalling, Insulin Action and Metabolism â€“ What We Know in Mammals and What We Can Learn From Yeast. Experimental and Clinical Endocrinology and Diabetes, 2019, 127, 203-214.	0.6	8
71	Reply to Richarme: Evidence against a role of DJ-1 in methylglyoxal detoxification. Journal of Biological Chemistry, 2017, 292, 12784-12785.	1.6	7
72	Phenotypic characterization of SETD3 knockout Drosophila. PLoS ONE, 2018, 13, e0201609.	1.1	6

#	Article	IF	Citations
73	Metabolic decisions in development and diseaseâ€"a Keystone Symposia report. Annals of the New York Academy of Sciences, 2021, 1506, 55-73.	1.8	6
74	Deep Metabolic Profiling Assessment of Tissue Extraction Protocols for Three Model Organisms. Frontiers in Chemistry, 2022, 10, 869732.	1.8	6
75	Metabolism meets development at Wiston House. Development (Cambridge), 2016, 143, 3045-3049.	1.2	5
76	Role for Torsin in Lipid Metabolism. Developmental Cell, 2016, 38, 223-224.	3.1	4
77	The activity of glyoxylase 1 is regulated by glucose-responsive phosphorylation on Tyr136. Molecular Metabolism, 2022, 55, 101406.	3.0	4
78	Privileged Signaling for Brain Growth. Cell, 2011, 146, 346-347.	13.5	2
79	Protocols to Study Growth and Metabolism in Drosophila. Methods in Molecular Biology, 2016, 1478, 279-290.	0.4	2
80	Open questions: completing the parts list and finding the integrating signals. BMC Biology, 2017, 15, 47.	1.7	2
81	Flies Eat Their Veggies to Survive the Cold. Developmental Cell, 2018, 46, 671-672.	3.1	1