Stephen Michael Cohen

List of Publications by Year
in descending order

155	24,465	12303 69	7136 153
papers	citations	h-index	g-index

157	157	157	21433
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	microRNA Functions. Annual Review of Cell and Developmental Biology, 2007, 23, 175-205.	4.0	2,617
2	Principles of MicroRNAâ€“Target Recognition. PLoS Biology, 2005, 3, e85.	2.6	2,019
3	bantam Encodes a Developmentally Regulated microRNA that Controls Cell Proliferation and Regulates the Proapoptotic Gene hid in Drosophila. Cell, 2003, 113, 25-36.	13.5	1,889
4	Animal MicroRNAs Confer Robustness to Gene Expression and Have a Significant Impact on 3â€²UTR Evolution. Cell, 2005, 123, 1133-1146.	13.5	979
5	Identification of Drosophila MicroRNA Targets. PLoS Biology, 2003, 1, e60.	2.6	689
6	Glycosyltransferase activity of Fringe modulates Notchâ€“Delta interactions. Nature, 2000, 406, 411-415.	13.7	652
7	Drosophila's Insulin/PI3-Kinase Pathway Coordinates Cellular Metabolism with Nutritional Conditions. Developmental Cell, 2002, 2, 239-249.	3.1	632
8	Two distinct mechanisms for long-range patterning by Decapentaplegic in the Drosophila wing. Nature, 1996, 381, 387-393.	13.7	621
9	Hedgehog Induces Opposite Changes in Turnover and Subcellular Localization of Patched and Smoothened. Cell, 2000, 102, 521-531.	13.5	492
10	Dpp Gradient Formation in the Drosophila Wing Imaginal Disc. Cell, 2000, 103, 971-980.	13.5	435
11	Wingless gradient formation in the Drosophila wing. Current Biology, 2000, 10, 293-300.	1.8	404
12	Distal-less encodes a homoeodomain protein required for limb development in Drosophila. Nature, 1989, 338, 432-434.	13.7	381
13	The Hippo Pathway Regulates the bantam microRNA to Control Cell Proliferation and Apoptosis in Drosophila. Cell, 2006, 126, 767-774.	13.5	373
14	Homeotic genes of the bithorax complex repress limb development in the abdomen of the Drosophila embryo through the target gene Distal-less. Cell, 1992, 71, 437-450.	13.5	350
15	Proximalâ€“distal axis formation in the Drosophila leg. Nature, 1997, 388, 139-145.	13.7	347
16	MicroRNAs and gene regulatory networks: managing the impact of noise in biological systems. Genes and Development, 2010, 24, 1339-1344.	2.7	340
17	Cell interaction between compartments establishes the proximal-distal axis of Drosophila legs. Nature, 1994, 372, 175-179.	13.7	333
18	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

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19	Tumor Suppressor Properties of the ESCRT-II Complex Component Vps25 in Drosophila. Developmental Cell, 2005, 9, 711-720.	3.1	301
20	Mediation of Drosophila head development by gap-like segmentation genes. Nature, 1990, 346, 482-485.	13.7	268
21	Isolation of microRNA targets by miRNP immunopurification. Rna, 2007, 13, 1198-1204.	1.6	268
22	Regulation of Tissue Growth through Nutrient Sensing. Annual Review of Genetics, 2009, 43, 389-410.	3.2	265
23	The Conserved microRNA MiR-8 Tunes Atrophin Levels to Prevent Neurodegeneration in Drosophila. Cell, 2007, 131, 136-145.	13.5	246
24	Temporal Reciprocity of miRNAs and Their Targets during the Maternal-to-Zygotic Transition in Drosophila. Current Biology, 2008, 18, 501-506.	1.8	246
25	HSPG Modification by the Secreted Enzyme Notum Shapes the Wingless Morphogen Gradient. Developmental Cell, 2002, 2, 667-676.	3.1	227
26	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
27	Nutritional Control of Protein Biosynthetic Capacity by Insulin via Myc in Drosophila. Cell Metabolism, 2008, 7, 21-32.	7.2	224
28	Mei-P26 regulates microRNAs and cell growth in the Drosophila ovarian stem cell lineage. Nature, 2008, 454, 241-245.	13.7	222
29	Evolutionary origin of insect wings from ancestral gills. Nature, 1997, 385, 627-630.	13.7	220
30	Drosophila lacking microRNA miR-278 are defective in energy homeostasis. Genes and Development, 2006, 20, 417-422.	2.7	211
31	Specification of limb development in the Drosophila embryo by positional cues from segmentation genes. Nature, 1990, 343, 173-177.	13.7	210
32	Proximal-distal pattern formation in Drosophila : cell autonomous requirement for Distal-less gene activity in limb development. EMBO Journal, 1989, 8, 2045-2055.	3.5	209
33	Specification of the wing by localized expression of wingless protein. Nature, 1996, 381, 316-318.	13.7	205
34	A single Hox locus in Drosophila produces functional microRNAs from opposite DNA strands. Genes and Development, 2008, 22, 8-13.	2.7	205
35	Opposing Activities of Dally-like Glypican at High and Low Levels of Wingless Morphogen Activity. Developmental Cell, 2004, 7, 503-512.	3.1	202
36	Problems and paradigms: Morphogens and pattern formation. BioEssays, 1997, 19, 721-729.	1.2	179

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37	Connecting proliferation and apoptosis in development and disease. Nature Reviews Molecular Cell Biology, 2004, 5, 805-815.	16.1	179
38	microRNA miR-14 acts to modulate a positive autoregulatory loop controlling steroid hormone signaling in Drosophila. Genes and Development, 2007, 21, 2277-2282.	2.7	173
39	Signal transduction by cAMP-dependent protein kinase A in Drosophila limb patterning. Nature, 1995, 373, 711-715.	13.7	169
40	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
41	Shaping Morphogen Gradients. Cell, 2001, 105, 559-562.	13.5	160
42	A Drosophila homologue of human Sp1 is a head-specific segmentation gene. Nature, 1993, 366, 690-694.	13.7	156
43	ORGANIZING SPATIAL PATTERN IN LIMB DEVELOPMENT. Annual Review of Cell and Developmental Biology, 1996, 12, 161-180.	4.0	139
44	Systematic Study of Drosophila MicroRNA Functions Using a Collection of Targeted Knockout Mutations. Developmental Cell, 2014, 31, 784-800.	3.1	131
45	The LRR Proteins Capricious and Tartan Mediate Cell Interactions during DV Boundary Formation in the Drosophila Wing. Cell, 2001, 106, 785-794.	13.5	130
46	Wingless and Notch signaling provide cell survival cues and control cell proliferation during wing development. Development (Cambridge), 2003, 130, 6533-6543.	1.2	130
47	Genome-Wide Analysis of mRNAs Regulated by Drosha and Argonaute Proteins in Drosophila melanogaster. Molecular and Cellular Biology, 2006, 26, 2965-2975.	1.1	125
48	Re-evaluating AKT regulation: role of TOR complex 2 in tissue growth. Genes and Development, 2007, 21, 632-637.	2.7	121
49	Drosophila miR-14 regulates insulin production and metabolism through its target, sugarbabe. Genes and Development, 2010, 24, 2748-2753.	2.7	121
50	ER stress potentiates insulin resistance through PERK-mediated FOXO phosphorylation. Genes and Development, 2013, 27, 441-449.	2.7	119
51	Distinguishable functions for engrailed and Invected in anteriorâ€“posterior patterning in the Drosopila wing. Nature, 1995, 376, 424-427.	13.7	116
52	microRNAs in neurodegeneration. Current Opinion in Neurobiology, 2008, 18, 292-296.	2.0	114
53	MAPK/ERK Signaling Regulates Insulin Sensitivity to Control Glucose Metabolism in Drosophila. PLoS Genetics, 2011, 7, e1002429.	1.5	114
54	Regulation of LIM Homeodomain Activity In Vivo. Molecular Cell, 1999, 4, 267-273.	4.5	111

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55	Drosophila Melted Modulates FOXO and TOR Activity. Developmental Cell, 2005, 9, 271-281.	3.1	109
56	Formation of morphogen gradients in the Drosophila wing. Seminars in Cell and Developmental Biology, 1999, 10, 335-344.	2.3	106
57	Opposing activities of the <scp>R</scp> as and <scp>H</scp> ippo pathways converge on regulation of <scp>YAP</scp> protein turnover. EMBO Journal, 2014, 33, 2447-2457.	3.5	102
58	Drosophila microRNAs 263a/b Confer Robustness during Development by Protecting Nascent Sense Organs from Apoptosis. PLoS Biology, 2010, 8, e1000396.	2.6	100
59	Drosophila headlines. Trends in Genetics, 1991, 7, 267-272.	2.9	95
60	Short-Range Cell Interactions and Cell Survival in the Drosophila Wing. Developmental Cell, 2002, 2, 797-805.	3.1	92
61	Early development of leg and wing primordia in the Drosophila embryo. Mechanisms of Development, 1991, 33, 229-240.	1.7	91
62	Cell Competition Drives the Formation of Metastatic Tumors in a Drosophila Model of Epithelial Tumor Formation. Current Biology, 2016, 26, 419-427.	1.8	90
63	Denoising feedback loops by thresholding--a new role for microRNAs. Genes and Development, 2006, 20, 2769-2772.	2.7	87
64	Slik Sterile-20 kinase regulates Moesin activity to promote epithelial integrity during tissue growth. Genes and Development, 2004, 18, 2243-2248.	2.7	84
65	Mutual Repression by Bantam miRNA and Capicua Links the EGFR/MAPK and Hippo Pathways in Growth Control. Current Biology, 2012, 22, 651-657.	1.8	81
66	distal antennaanddistal antenna relatedencode nuclear proteins containing pipsqueak motifs involved in antenna development inDrosophila. Development (Cambridge), 2003, 130, 1171-1180.	1.2	79
67	Notch-mediated repression of bantam miRNA contributes to boundary formation in the Drosophila wing. Development (Cambridge), 2011, 138, 3781-3789.	1.2	75
68	Immunological comparison of desmosomal components from several bovine tissues. Journal of Cellular Biochemistry, 1984, 26, 35-45.	1.2	73
69	Proximal distal axis formation in the Drosophila leg: distinct functions of Teashirt and Homothorax in the proximal leg. Mechanisms of Development, 2000, 94, 47-56.	1.7	73
70	Towards a complete description of the microRNA complement of animal genomes. Genome Biology, 2003, 4, 228.	13.9	71
71	Oncogenic cooperation between SOCS family proteins and EGFR identified using a Drosophila epithelial transformation model. Genes and Development, 2012, 26, 1602-1611.	2.7	71
72	A neuroprotective role for microRNA miR-1000 mediated by limiting glutamate excitotoxicity. Nature Neuroscience, 2015, 18, 379-385.	7.1	67

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73	Coordination of insulin and Notch pathway activities by microRNA miR-305 mediates adaptive homeostasis in the intestinal stem cells of the Drosophila gut. Genes and Development, 2014, 28, 2421-2431.	2.7	66
74	Boundary Formation in Drosophila Wing: Notch Activity Attenuated by the POU Protein Nubbin. , 1998, 281, 409-413.		61
75	Drosophila miR-124 regulates neuroblast proliferation through its target anachronism. Development (Cambridge), 2012, 139, 1427-1434.	1.2	61
76	Proximal-distal pattern formation inDrosophila: graded requirement forDistal-less gene activity during limb development. Roux's Archives of Developmental Biology, 1989, 198, 157-169.	1.2	60
77	The Drosophila Gene brainiac Encodes a Glycosyltransferase Putatively Involved in Glycosphingolipid Synthesis. Journal of Biological Chemistry, 2002, 277, 32421-32429.	1.6	59
78	Drosophila egghead Encodes a Î²1,4-Mannosyltransferase Predicted to Form the Immediate Precursor Glycosphingolipid Substrate for brainiac. Journal of Biological Chemistry, 2003, 278, 1411-1414.	1.6	58
79	MAP4K3 regulates body size and metabolism in Drosophila. Developmental Biology, 2010, 344, 150-157.	0.9	57
80	The Oscillating miRNA 959-964 Cluster Impacts Drosophila Feeding Time and Other Circadian Outputs. Cell Metabolism, 2012, 16, 601-612.	7.2	57
81	Egghead and Brainiac Are Essential for Glycosphingolipid Biosynthesis in Vivo. Journal of Biological Chemistry, 2005, 280, 4858-4863.	1.6	55
82	On the role of glypicans in the process of morphogen gradient formation. Developmental Biology, 2006, 300, 512-522.	0.9	53
83	TOR complex 2 is needed for cell cycle progression and anchorage-independent growth of MCF7 and PC3 tumor cells. BMC Cancer, 2008, 8, 282.	1.1	53
84	molting defective is required for ecdysone biosynthesis. Developmental Biology, 2005, 280, 362-372.	0.9	52
85	Trans- and cis-acting requirements for blastodermal expression of the head gap gene buttonhead. Mechanisms of Development, 1995, 53, 235-245.	1.7	49
86	The Drosophila Sterile-20 Kinase Slik Controls Cell Proliferation and Apoptosis during Imaginal Disc Development. PLoS Biology, 2003, 1, e35.	2.6	48
87	Gain-of-Function Screen for Genes That Affect Drosophila Muscle Pattern Formation. PLoS Genetics, 2005, 1, e55.	1.5	47
88	The miRNA machinery targets Mei-P26 and regulates Myc protein levels in the Drosophila wing. EMBO Journal, 2010, 29, 1688-1698.	3.5	47
89	The Hippo pathway acts via p53 and microRNAs to control proliferation and proapoptotic gene expression during tissue growth. Biology Open, 2013, 2, 822-828.	0.6	46
90	A conformation-induced fluorescence method for microRNA detection. Nucleic Acids Research, 2016, 44, e92-e92.	6.5	46

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91	Crosstalk between Epithelial and Mesenchymal Tissues in Tumorigenesis and Imaginal Disc Development. Current Biology, 2014, 24, 1476-1484.	1.8	44
92	Cancer in Drosophila. Current Topics in Developmental Biology, 2016, 116, 181-199.	1.0	44
93	A re-evaluation of the contributions of Apterous and Notch to the dorsoventral lineage restriction boundary in the Drosophilawing. Development (Cambridge), 2003, 130, 553-562.	1.2	43
94	Immunopurification of Ago1 miRNPs selects for a distinct class of microRNA targets. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15085-15090.	3.3	43
95	Glycosphingolipids with extended sugar chain have specialized functions in development and behavior of Drosophila. Developmental Biology, 2007, 306, 736-749.	0.9	38
96	Regulation of Apterous activity inDrosophilawing development. Development (Cambridge), 2001, 128, 4615-4622.	1.2	38
97	Everything old is new again: (linc)RNAs make proteins!. EMBO Journal, 2014, 33, 937-938.	3.5	37
98	Boundary formation in theDrosophila wing: Functional dissection of Capricious and Tartan. Developmental Dynamics, 2005, 233, 804-810.	0.8	36
99	Viral Small T Oncoproteins Transform Cells by Alleviating Hippo-Pathway-Mediated Inhibition of the YAP Proto-oncogene. Cell Reports, 2014, 8, 707-713.	2.9	36
100	Establishment of imaginal discs and histoblast nests in Drosophila. Mechanisms of Development, 1991, 34, 11-20.	1.7	35
101	Structural insights into the Notch-modifying glycosyltransferase Fringe. Nature Structural and Molecular Biology, 2006, 13, 945-946.	3.6	35
102	miRNAs and aging: A genetic perspective. Ageing Research Reviews, 2014, 17, 3-8.	5.0	35
103	Proximodistal subdivision ofDrosophilalegs and wings: theelbow-no ocelligene complex. Development (Cambridge), 2004, 131, 767-774.	1.2	34
104	Spatial and temporal regulation of the homeotic selector gene Antennapedia is required for the establishment of leg identity in Drosophila. Developmental Biology, 2004, 267, 462-472.	0.9	34
105	miR-124 controls male reproductive success in Drosophila. ELife, 2013, 2, e00640.	2.8	34
106	Deubiquitylating enzyme USP9x regulates hippo pathway activity by controlling angiomotin protein turnover. Cell Discovery, 2016, 2, 16001.	3.1	34
107	A Genetic Screen in Drosophila for Identifying Novel Components of the Hedgehog Signaling Pathway. Genetics, 2005, 170, 173-184.	1.2	33
108	Warburg Effect Metabolism Drives Neoplasia in a Drosophila Genetic Model of Epithelial Cancer. Current Biology, 2018, 28, 3220-3228.e6.	1.8	33

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109	Not miR-ly muscular: microRNAs and muscle development. Genes and Development, 2005, 19, 2261-2264.	2.7	32
110	Use of microRNA sponges to explore tissue-specific microRNA functions in vivo. Nature Methods, 2009, 6, 873-874.	9.0	32
111	Notch Signaling Is Not Sufficient to Define the Affinity Boundary between Dorsal and Ventral Compartments. Molecular Cell, 1999, 4, 1073-1078.	4.5	31
112	Recombinase-Mediated Cassette Exchange Provides a Versatile Platform for Gene Targeting: Knockout of miR-31b. Genetics, 2009, 183, 399-402.	1.2	31
113	Feedback regulation on PTEN/AKT pathway by the ER stress kinase PERK mediated by interaction with the Vault complex. Cellular Signalling, 2015, 27, 436-442.	1.7	31
114	Controlling growth of the wing: Vestigial integrates signals from the compartment boundaries. BioEssays, 1996, 18, 855-858.	1.2	30
115	MicroRNA Transgene Overexpression Complements Deficiency-Based Modifier Screens in Drosophila. Genetics, 2012, 190, 617-626.	1.2	30
116	Control ofDrosophilatype I and type II central brain neuroblast proliferation bybantammicroRNA. Development (Cambridge), 2015, 142, 3713-20.	1.2	27
117	Regulation of Pattern Formation and Gene Amplification During Drosophila Oogenesis by the miR-318 microRNA. Genetics, 2015, 200, 255-265.	1.2	27
118	miR-989 Is Required for Border Cell Migration in the Drosophila Ovary. PLoS ONE, 2013, 8, e67075.	1.1	27
119	Maternal Loss of miRNAs Leads to Increased Variance in Primordial Germ Cell Numbers in Drosophila melanogaster. G3: Genes, Genomes, Genetics, 2013, 3, 1573-1576.	0.8	26
120	miR-965 controls cell proliferation and migration during tissue morphogenesis in the Drosophila abdomen. ELife, 2015, 4, .	2.8	24
121	Desmosomal Antigens Are Not Recognized by the Majority of Pemphigus Autoimmune Sera. Journal of Investigative Dermatology, 1983, 80, 475-480.	0.3	23
122	Subdividing Cell Populations in the Developing Limbs of Drosophila: Do Wing Veins and Leg Segments Define Units of Growth Control?. Developmental Biology, 2000, 217, 1-9.	0.9	23
123	Identification of Novel Drosophila melanogaster MicroRNAs. PLoS ONE, 2007, 2, e1265.	1.1	22
124	Glycosphingolipids control the extracellular gradient of theDrosophilaEGFR ligand Gurken. Development (Cambridge), 2009, 136, 551-561.	1.2	22
125	Drosophila as a Model to Study the Link between Metabolism and Cancer. Journal of Developmental Biology, 2017, 5, 15.	0.9	22
126	Metabolic control of PPAR activity by aldehyde dehydrogenase regulates invasive cell behavior and predicts survival in hepatocellular and renal clear cell carcinoma. BMC Cancer, 2018, 18, 1180.	1.1	22

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127	New growth factors for imaginal discs. BioEssays, 1999, 21, 718-720.	1.2	21
128	DUB3 Deubiquitylating Enzymes Regulate Hippo Pathway Activity by Regulating the Stability of ITCH, LATS and AMOT Proteins. PLoS ONE, 2017, 12, e0169587.	1.1	19
129	USP21 regulates Hippo pathway activity by mediating MARK protein turnover. Oncotarget, 2017, 8, 64095-64105.	0.8	18
130	A naturally occurring alternative product of the mastermind locus that represses notch signalling. Mechanisms of Development, 2002, 115, 101-105.	1.7	17
131	mshspecifies dorsal cell fate in theDrosophilawing. Development (Cambridge), 2001, 128, 3263-3268.	1.2	17
132	Wingless: from embryo to adult. Trends in Genetics, 1993, 9, 189-192.	2.9	16
133	Wnt signal transduction: more than one way to skin a (Î²-)cat?. Trends in Cell Biology, 1996, 6, 287-290.	3.6	16
134	miRâ€31 mutants reveal continuous glial homeostasis in the adult Drosophila brain. EMBO Journal, 2017, 36, 1215-1226.	3.5	16
135	Ligand-binding and signaling properties of the Ax[M1] form of Notch. Mechanisms of Development, 2005, 122, 479-486.	1.7	15
136	Protocols for Use of Homologous Recombination Gene Targeting to Produce MicroRNA Mutants in Drosophila. Methods in Molecular Biology, 2011, 732, 99-120.	0.4	15
137	Rescue of Drosophila Melanogaster l(2)35Aa lethality is only mediated by polypeptide GalNAc-transferase pgant35A, but not by the evolutionary conserved human ortholog GalNAc-transferase-T11. Glycoconjugate Journal, 2010, 27, 435-444.	1.4	14
138	Time is of the essence: microRNAs and age-associated neurodegeneration. Cell Research, 2012, 22, 1218-1220.	5.7	14
139	Osa modulates the expression of Apterous target genes in the Drosophila wing. Mechanisms of Development, 2004, 121, 491-497.	1.7	13
140	Drosophila Minus is required for cell proliferation and influences Cyclin E turnover. Genes and Development, 2009, 23, 1998-2003.	2.7	13
141	The chromatin remodeling BAP complex limits tumor promoting activity of the Hippo pathway effector Yki to prevent neoplastic transformation inDrosophilaepithelia. DMM Disease Models and Mechanisms, 2017, 10, 1201-1209.	1.2	13
142	Limb development: Getting down to the ground state. Current Biology, 2001, 11, R1025-R1027.	1.8	10
143	DEVELOPMENTAL BIOLOGY: Mixed Messages in Early Development. Science, 2006, 312, 65-66.	6.0	10
144	Notch Signaling: Filopodia Dynamics Confer Robustness. Current Biology, 2010, 20, R802-R804.	1.8	9

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145	TORCing Up Metabolic Control in the Brain. Cell Metabolism, 2008, 7, 357-358.	7.2	7
146	Pgc suppresses the zygotically-acting RNA decay pathway to protect germ plasm RNAs in the Drosophila embryo. Development (Cambridge), 2019, 146, .	1.2	7
147	Cell Fate Determination: When is a determinant a determinant?. Current Biology, 1994, 4, 420-422.	1.8	6
148	Long-range signalling by touch. Nature, 2003, 426, 503-504.	13.7	6
149	Identification and characterization of novel conserved RNA structures in Drosophila. BMC Genomics, 2018, 19, 899.	1.2	6
150	dTcf/Pangolinsuppresses growth and tumor formation inDrosophila. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14055-14064.	3.3	3
151	Genome-Wide Screen for Context-Dependent Tumor Suppressors Identified Using in Vivo Models for Neoplasia in Drosophila. G3: Genes, Genomes, Genetics, 2020, 10, 2999-3008.	0.8	3
152	Promoter Proximal Pausing Limits Tumorous Growth Induced by the Yki Transcription Factor in Drosophila. Genetics, 2020, 216, 67-77.	1.2	3
153	The Secret Life of Smoothened. Developmental Cell, 2003, 5, 823-824.	3.1	2
154	microRNAs in CNS Development and Neurodegeneration: Insights from Drosophila Genetics. Research and Perspectives in Neurosciences, 2010, , 69-77.	0.4	1
155	Abstract A22: Mechanisms of oncogenic cooperation between EGFR/Ras and Hippo pathways inDrosophilaand human cellular transformation models. , 2013, , .		0