Gerald M Rubin

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262 papers	80,345 citations	124 h-index	283 g-index
289 ext. papers	91,900 ext. citations	23.6 avg, IF	7.49 L-index

#	Paper	IF	Citations
262	Gene ontology: tool for the unification of biology. The Gene Ontology Consortium. *Nature Genetics*, **2000**, 25, 25-9	36.3	25593
261	The genome sequence of Drosophila melanogaster. *Science*, **2000**, 287, 2185-95	33.3	4857
260	Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 16899-903	11.5	1457
259	Comparative genomics of the eukaryotes. *Science*, **2000**, 287, 2204-15	33.3	1364
258	A whole-genome assembly of Drosophila. *Science*, **2000**, 287, 2196-204	33.3	1204
257	A GAL4-driver line resource for Drosophila neurobiology. *Cell Reports*, **2012**, 2, 991-1001	10.6	897
256	Molecular characterization of the Drosophila trp locus: a putative integral membrane protein required for phototransduction. *Neuron*, **1989**, 2, 1313-23	13.9	846
255	Creating the gene ontology resource: design and implementation. *Genome Research*, **2001**, 11, 1425-33	9.7	788
254	Structures of P transposable elements and their sites of insertion and excision in the Drosophila melanogaster genome. *Cell*, **1983**, 34, 25-35	56.2	784
253	Ras1 and a putative guanine nucleotide exchange factor perform crucial steps in signaling by the sevenless protein tyrosine kinase. *Cell*, **1991**, 67, 701-16	56.2	780
252	Analysis of P transposable element functions in Drosophila. *Cell*, **1984**, 38, 135-46	56.2	755
251	Tools for neuroanatomy and neurogenetics in Drosophila. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 9715-20	11.5	688
250	Refinement of tools for targeted gene expression in Drosophila. *Genetics*, **2010**, 186, 735-55	4	685
249	The BDGP gene disruption project: single transposon insertions associated with 40% of Drosophila genes. *Genetics*, **2004**, 167, 761-81	4	668
248	Drosophila homologs of baculovirus inhibitor of apoptosis proteins function to block cell death. *Cell*, **1995**, 83, 1253-62	56.2	663
247	A computer program for aligning a cDNA sequence with a genomic DNA sequence. *Genome Research*, **1998**, 8, 967-74	9.7	622
246	The Berkeley Drosophila Genome Project gene disruption project: Single P-element insertions mutating 25% of vital Drosophila genes. *Genetics*, **1999**, 153, 135-77	4	621

245	The activities of two Ets-related transcription factors required for Drosophila eye development are modulated by the Ras/MAPK pathway. *Cell*, **1994**, 78, 137-47	56.2	611
244	Isolation of a putative phospholipase C gene of Drosophila, norpA, and its role in phototransduction. *Cell*, **1988**, 54, 723-33	56.2	593
243	The Toll and Imd pathways are the major regulators of the immune response in Drosophila. *EMBO Journal*, **2002**, 21, 2568-79	13	592
242	Genome-wide analysis of the Drosophila immune response by using oligonucleotide microarrays. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 12590-5	11.5	579
241	Tissue specificity of Drosophila P element transposition is regulated at the level of mRNA splicing. *Cell*, **1986**, 44, 7-19	56.2	564
240	Drosophila fragile X-related gene regulates the MAP1B homolog Futsch to control synaptic structure and function. *Cell*, **2001**, 107, 591-603	56.2	540
239	Computational identification of Drosophila microRNA genes. *Genome Biology*, **2003**, 4, R42	18.3	539
238	The neuronal architecture of the mushroom body provides a logic for associative learning. *ELife*, **2014**, 3, e04577	8.9	538
237	The molecular basis of P-M hybrid dysgenesis: the role of the P element, a P-strain-specific transposon family. *Cell*, **1982**, 29, 995-1004	56.2	519
236	Vectors for P element-mediated gene transfer in Drosophila. *Nucleic Acids Research*, **1983**, 11, 6341-51	20.1	512
235	Systematic determination of patterns of gene expression during Drosophila embryogenesis. *Genome Biology*, **2002**, 3, RESEARCH0088	18.3	487
234	Exploiting transcription factor binding site clustering to identify cis-regulatory modules involved in pattern formation in the Drosophila genome. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 757-62	11.5	482
233	Cloning of DNA sequences from the white locus of D. melanogaster by a novel and general method. *Cell*, **1981**, 25, 693-704	56.2	473
232	A visual motion detection circuit suggested by Drosophila connectomics. *Nature*, **2013**, 500, 175-81	50.4	471
231	An SH3-SH2-SH3 protein is required for p21Ras1 activation and binds to sevenless and Sos proteins in vitro. *Cell*, **1993**, 73, 169-77	56.2	463
230	The Drosophila seven-up gene, a member of the steroid receptor gene superfamily, controls photoreceptor cell fates. *Cell*, **1990**, 60, 211-24	56.2	456
229	Comparative genome and proteome analysis of Anopheles gambiae and Drosophila melanogaster. *Science*, **2002**, 298, 149-59	33.3	455
228	Kuzbanian controls proteolytic processing of Notch and mediates lateral inhibition during Drosophila and vertebrate neurogenesis. *Cell*, **1997**, 90, 271-80	56.2	454

227	Isolation and structure of a rhodopsin gene from D. melanogaster. *Cell*, **1985**, 40, 851-8	56.2	452
226	The molecular basis of P-M hybrid dysgenesis: the nature of induced mutations. *Cell*, **1982**, 29, 987-94	56.2	450
225	Gene disruptions using P transposable elements: an integral component of the Drosophila genome project. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 10824-30	11.5	420
224	Making a difference: the role of cell-cell interactions in establishing separate identities for equivalent cells. *Cell*, **1992**, 68, 271-81	56.2	413
223	The role of the genome project in determining gene function: insights from model organisms. *Cell*, **1996**, 86, 521-9	56.2	393
222	Drosophila p53 binds a damage response element at the reaper locus. *Cell*, **2000**, 101, 103-13	56.2	392
221	The transposable elements of the Drosophila melanogaster euchromatin: a genomics perspective. *Genome Biology*, **2002**, 3, RESEARCH0084	18.3	387
220	The effect of chromosomal position on the expression of the Drosophila xanthine dehydrogenase gene. *Cell*, **1983**, 34, 47-57	56.2	384
219	The TGF beta homolog dpp and the segment polarity gene hedgehog are required for propagation of a morphogenetic wave in the Drosophila retina. *Cell*, **1993**, 75, 913-26	56.2	374
218	A subset of dopamine neurons signals reward for odour memory in Drosophila. *Nature*, **2012**, 488, 512-6	50.4	373
217	Mushroom body output neurons encode valence and guide memory-based action selection in Drosophila. *ELife*, **2014**, 3, e04580	8.9	369
216	Transformation of white locus DNA in drosophila: dosage compensation, zeste interaction, and position effects. *Cell*, **1984**, 36, 469-81	56.2	363
215	Evidence for large domains of similarly expressed genes in the Drosophila genome. *Journal of Biology*, **2002**, 1, 5		361
214	KSR, a novel protein kinase required for RAS signal transduction. *Cell*, **1995**, 83, 879-88	56.2	348
213	The FlyBase database of the Drosophila genome projects and community literature. *Nucleic Acids Research*, **2003**, 31, 172-5	20.1	325
212	Identification and immunochemical analysis of biologically active Drosophila P element transposase. *Cell*, **1986**, 44, 21-32	56.2	317
211	Computational analysis of core promoters in the Drosophila genome. *Genome Biology*, **2002**, 3, RESEARCH0087	18.3	312
210	A Drosophila complementary DNA resource. *Science*, **2000**, 287, 2222-4	33.3	308

209	Global analysis of patterns of gene expression during Drosophila embryogenesis. *Genome Biology*, **2007**, 8, R145	18.3	307
208	Yan functions as a general inhibitor of differentiation and is negatively regulated by activation of the Ras1/MAPK pathway. *Cell*, **1995**, 81, 857-66	56.2	299
207	Signalling by the sevenless protein tyrosine kinase is mimicked by Ras1 activation. *Nature*, **1992**, 355, 559-61	50.4	298
206	The Drosophila peanut gene is required for cytokinesis and encodes a protein similar to yeast putative bud neck filament proteins. *Cell*, **1994**, 77, 371-9	56.2	297
205	Optimized tools for multicolor stochastic labeling reveal diverse stereotyped cell arrangements in the fly visual system. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E2967-76	11.5	289
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203	seven in absentia, a gene required for specification of R7 cell fate in the Drosophila eye. *Cell*, **1990**, 63, 561-77	56.2	286
202	A putative Ras GTPase activating protein acts as a negative regulator of signaling by the Sevenless receptor tyrosine kinase. *Cell*, **1992**, 68, 1007-19	56.2	284
201	Drosophila neuralized is a ubiquitin ligase that promotes the internalization and degradation of delta. *Developmental Cell*, **2001**, 1, 783-94	10.2	282
200	Mutations in Hsp83 and cdc37 impair signaling by the sevenless receptor tyrosine kinase in Drosophila. *Cell*, **1994**, 77, 1027-36	56.2	274
199	DNA sequence of the white locus of Drosophila melanogaster. *Journal of Molecular Biology*, **1984**, 180, 437-55	6.5	273
198	Transposition of elements of the 412, copia and 297 dispersed repeated gene families in Drosophila. *Cell*, **1979**, 17, 415-27	56.2	270
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195	Targeted mutagenesis by homologous recombination in D. melanogaster. *Genes and Development*, **2002**, 16, 1568-81	12.6	257
194	Localization of the sevenless protein, a putative receptor for positional information, in the eye imaginal disc of Drosophila. *Cell*, **1987**, 51, 143-50	56.2	247
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191	A directional tuning map of Drosophila elementary motion detectors. *Nature*, **2013**, 500, 212-6	50.4	241
190	Pervasive regulation of Drosophila Notch target genes by GY-box-, Brd-box-, and K-box-class microRNAs. *Genes and Development*, **2005**, 19, 1067-80	12.6	236
189	Negative control of photoreceptor development in Drosophila by the product of the yan gene, an ETS domain protein. *Cell*, **1992**, 70, 609-20	56.2	235
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183	Human DNA sequences homologous to a protein coding region conserved between homeotic genes of Drosophila. *Cell*, **1984**, 38, 667-73	56.2	217
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181	Mutations in the Drosophila Rop gene suggest a function in general secretion and synaptic transmission. *Neuron*, **1994**, 13, 555-66	13.9	214
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178	Disconnected: a locus required for neuronal pathway formation in the visual system of Drosophila. *Cell*, **1987**, 50, 1139-53	56.2	212
177	Effect on eye development of dominant mutations in Drosophila homologue of the EGF receptor. *Nature*, **1989**, 340, 150-3	50.4	209
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172	A connectome of a learning and memory center in the adult brain. *ELife*, **2017**, 6,	8.9	198
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170	Drosophila matrix metalloproteinases are required for tissue remodeling, but not embryonic development. *Developmental Cell*, **2003**, 4, 95-106	10.2	192
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163	Mushroom body efferent neurons responsible for aversive olfactory memory retrieval in Drosophila. *Nature Neuroscience*, **2011**, 14, 903-10	25.5	175
162	rough, a Drosophila homeobox gene required in photoreceptors R2 and R5 for inductive interactions in the developing eye. *Cell*, **1988**, 55, 771-84	56.2	174
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158	The embryonic expression patterns of zfh-1 and zfh-2, two Drosophila genes encoding novel zinc-finger homeodomain proteins. *Mechanisms of Development*, **1991**, 34, 123-34	1.7	164
157	Insertion of the Drosophila transposable element copia generates a 5 base pair duplication. *Cell*, **1980**, 21, 575-9	56.2	161
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154	ARGONAUTE1 is required for efficient RNA interference in Drosophila embryos. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 6889-94	11.5	148
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152	A Drosophila full-length cDNA resource. *Genome Biology*, **2002**, 3, RESEARCH0080	18.3	144
151	Terminal repeats of the Drosophila transposable element copia: nucleotide sequence and genomic organization. *Cell*, **1980**, 21, 581-8	56.2	144
150	Effects of transposable element insertions on RNA encoded by the white gene of Drosophila. *Cell*, **1984**, 38, 471-81	56.2	143
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146	Contributions of the 12 neuron classes in the fly lamina to motion vision. *Neuron*, **2013**, 79, 128-40	13.9	136
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140	A BAC-based physical map of the major autosomes of Drosophila melanogaster. *Science*, **2000**, 287, 2271-4	33.3	128
139	Dopaminergic neurons write and update memories with cell-type-specific rules. *ELife*, **2016**, 5,	8.9	126
138	P1 interneurons promote a persistent internal state that enhances inter-male aggression in Drosophila. *ELife*, **2015**, 4,	8.9	123

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131	Effect of heat shock on the synthesis of low molecular weight RNAs in drosophilia: accumulation of a novel form of 5S RNA. *Cell*, **1975**, 6, 207-13	56.2	111
130	Quantitative analysis of bristle number in Drosophila mutants identifies genes involved in neural development. *Current Biology*, **2003**, 13, 1388-96	6.3	110
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126	Assessing the impact of comparative genomic sequence data on the functional annotation of the Drosophila genome. *Genome Biology*, **2002**, 3, RESEARCH0086	18.3	107
125	Identification of putative noncoding polyadenylated transcripts in Drosophila melanogaster. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 5495-500	11.5	106
124	Shared mushroom body circuits underlie visual and olfactory memories in Drosophila. *ELife*, **2014**, 3, e02395	8.9	106
123	A Higher Brain Circuit for Immediate Integration of Conflicting Sensory Information in Drosophila. *Current Biology*, **2015**, 25, 2203-14	6.3	105
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121	Physical linkage of the 5 S cistrons to the 18 S and 28 S ribosomal RNA cistrons in Saccharomyces cerevisiae. *Journal of Molecular Biology*, **1973**, 79, 521-30	6.5	97
120	Plasticity-driven individualization of olfactory coding in mushroom body output neurons. *Nature*, **2015**, 526, 258-62	50.4	95

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111	Reward signal in a recurrent circuit drives appetitive long-term memory formation. *ELife*, **2015**, 4, e10719	8.9	81
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101	A genetic screen to identify components of the sina signaling pathway in Drosophila eye development. *Genetics*, **1998**, 148, 277-86	4	71
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98	Complementary miRNA pairs suggest a regulatory role for miRNA:miRNA duplexes. *Rna*, **2004**, 10, 171-5	5.8	69
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95	Neuron hemilineages provide the functional ground plan for the Drosophila ventral nervous system. *ELife*, **2015**, 4,	8.9	68
94	PTP-ER, a novel tyrosine phosphatase, functions downstream of Ras1 to downregulate MAP kinase during Drosophila eye development. *Molecular Cell*, **1999**, 3, 741-50	17.6	67
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82	A Genetic Screen to Identify Components of the sina Signaling Pathway in Drosophila Eye Development. *Genetics*, **1998**, 148, 277-286	4	59
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76	The optic lobe projection pattern of polarization-sensitive photoreceptor cells in Drosophila melanogaster. *Cell and Tissue Research*, **1991**, 265, 185-91	4.2	48
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