Manfred Frasch

List of Publications by Year
in descending order

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83 papers	6,759 citations	53794 45 h-index	69250 77 g-index
113 all docs	113 docs citations	113 times ranked	3845 citing authors

#	Article	IF	Citations
1	tinman and bagpipe: two homeo box genes that determine cell fates in the dorsal mesoderm of Drosophila.. Genes and Development, 1993, 7, 1325-1340.	5.9	692
2	Induction of visceral and cardiac mesoderm by ectodermal Dpp in the early Drosophila embryo. Nature, 1995, 374, 464-467.	27.8	406
3	Complementary patterns of even-skipped and fushi tarazu expression involve their differential regulation by a common set of segmentation genes in Drosophila.. Genes and Development, 1987, 1, 981-995.	5.9	274
4	Early Signals in Cardiac Development. Circulation Research, 2002, 91, 457-469.	4.5	272
5	Smad proteins act in combination with synergistic and antagonistic regulators to target Dpp responses to the<i>Drosophila</i>â€‰mesoderm. Genes and Development, 1998, 12, 2354-2370.	5.9	242
6	Sequence similarity between the mammalian bmi-1 proto-oncogene and the Drosophila regulatory genes Psc and Su(z)2. Nature, 1991, 353, 353-355.	27.8	235
7	A new Drosophila homeo box gene is expressed in mesodermal precursor cells of distinct muscles during embryogenesis.. Genes and Development, 1990, 4, 2098-2111.	5.9	214
8	Segmentation and specification of the Drosophila mesoderm.. Genes and Development, 1996, 10, 3183-3194.	5.9	179
9	A role for the COUP-TF-related gene seven-up in the diversification of cardioblast identities in the dorsal vessel of Drosophila. Mechanisms of Development, 2001, 104, 49-60.	1.7	176
10	Jelly belly protein activates the receptor tyrosine kinase Alk to specify visceral muscle pioneers. Nature, 2003, 425, 507-512.	27.8	165
11	pyramus and thisbe: FGF genes that pattern the mesoderm of Drosophila embryos. Genes and Development, 2004, 18, 687-699.	5.9	163
12	Maternal regulation of zerknÃ¼llt: a homoeobox gene controlling differentiation of dorsal tissues in Drosophila. Nature, 1987, 330, 583-586.	27.8	151
13	The iBeetle large-scale RNAi screen reveals gene functions for insect development and physiology. Nature Communications, 2015, 6, 7822.	12.8	139
14	<i>biniou</i> (<i>FoxF</i>), a central component in a regulatory network controlling visceral mesoderm development and midgut morphogenesis in <i>Drosophila</i>. Genes and Development, 2001, 15, 2900-2915.	5.9	133
15	The Drosophila homologue of vertebrate myogenic-determination genes encodes a transiently expressed nuclear protein marking primary myogenic cells.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 3782-3786.	7.1	129
16	Pendulin, a Drosophila protein with cell cycle-dependent nuclear localization, is required for normal cell proliferation.. Journal of Cell Biology, 1995, 129, 1491-1507.	5.2	127
17	The T-box-encoding Dorsocross genes function in amnioserosa development and the patterning of the dorsolateral germ band downstream of Dpp. Development (Cambridge), 2003, 130, 3187-3204.	2.5	124
18	msh may play a conserved role in dorsoventral patterning of the neuroectoderm and mesoderm. Mechanisms of Development, 1996, 58, 217-231.	1.7	121

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19	Molecular analysis of even-skipped mutants in Drosophila development.. Genes and Development, 1988, 2, 1824-1838.	5.9	113
20	Characterization of a Drosophila protein associated with boundaries of transcriptionally active chromatin.. Genes and Development, 1991, 5, 1611-1621.	5.9	104
21	Bapxl: an evolutionary conserved homologue of the Drosophila bagpipe homeobox gene is expressed in splanchnic mesoderm and the embryonic skeleton. Mechanisms of Development, 1997, 65, 145-162.	1.7	101
22	Spalt mediates an evolutionarily conserved switch to fibrillar muscle fate in insects. Nature, 2011, 479, 406-409.	27.8	101
23	Molecular Integration of Inductive and Mesoderm-Intrinsic Inputs Governs even-skipped Enhancer Activity in a Subset of Pericardial and Dorsal Muscle Progenitors. Developmental Biology, 2001, 238, 13-26.	2.0	98
24	The Dorsocross T-box genes are key components of the regulatory network controlling early cardiogenesis in Drosophila. Development (Cambridge), 2005, 132, 4911-4925.	2.5	96
25	Controls in patterning and diversification of somatic muscles during Drosophila embryogenesis. Current Opinion in Genetics and Development, 1999, 9, 522-529.	3.3	95
26	Homeotic Genes Autonomously Specify the Anteroposterior Subdivision of the Drosophila Dorsal Vessel into Aorta and Heart. Developmental Biology, 2002, 251, 307-319.	2.0	91
27	Regulation and function oftinman during dorsal mesoderm induction and heart specification inDrosophila. Genesis, 1998, 22, 187-200.	2.1	90
28	Sequence and expression of myoglianin, a novel Drosophila gene of the TGF-Î² superfamily. Mechanisms of Development, 1999, 86, 171-175.	1.7	87
29	Cardioblast-intrinsic Tinman activity controls proper diversification and differentiation of myocardial cells in Drosophila. Development (Cambridge), 2006, 133, 4073-4083.	2.5	86
30	Survey of forkhead domain encoding genes in theDrosophila genome: Classification and embryonic expression patterns. Developmental Dynamics, 2004, 229, 357-366.	1.8	81
31	A cluster of Drosophila homeobox genes involved in mesoderm differentiation programs. BioEssays, 2001, 23, 125-133.	2.5	79
32	Nonpackaging and packaging proteins of hnRNA in Drosophila melanogaster. Cell, 1983, 33, 529-541.	28.9	75
33	Evolution of the dorsal-ventral patterning network in the mosquito, Anopheles gambiae. Development (Cambridge), 2007, 134, 2415-2424.	2.5	70
34	Tbx20-related genes, mid and H15, are required for tinman expression, proper patterning, and normal differentiation of cardioblasts in Drosophila. Mechanisms of Development, 2005, 122, 1056-1069.	1.7	69
35	Hmx : an evolutionary conserved homeobox gene family expressed in the developing nervous system in mice and Drosophila. Mechanisms of Development, 2000, 99, 123-137.	1.7	66
36	Genome-Wide Screens for In Vivo Tinman Binding Sites Identify Cardiac Enhancers with Diverse Functional Architectures. PLoS Genetics, 2013, 9, e1003195.	3.5	62

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37	A dual requirement for neurogenic genes in Drosophila myogenesis. Development (Cambridge), 1993, 119, 149-161.	2.5	62
38	The NK-2 homeobox gene scarecrow (scro) is expressed in pharynx, ventral nerve cord and brain of Drosophila embryos. Mechanisms of Development, 2000, 94, 237-241.	1.7	58
39	Distinct functions of the laminin Î² LN domain and collagen IV during cardiac extracellular matrix formation and stabilization of alary muscle attachments revealed by EMS mutagenesis in Drosophila. BMC Developmental Biology, 2014, 14, 26.	2.1	57
40	MicroRNAs in muscle differentiation: lessons from Drosophila and beyond. Current Opinion in Genetics and Development, 2006, 16, 533-539.	3.3	55
41	Expression, Regulation, and Requirement of the Toll Transmembrane Protein during Dorsal Vessel Formation in Drosophila melanogaster. Molecular and Cellular Biology, 2005, 25, 4200-4210.	2.3	54
42	Yeast Srp1, a nuclear protein related toDrosophila and mouse pendulin, is required for normal migration, division, and integrity of nuclei during mitosis. Molecular Genetics and Genomics, 1995, 248, 351-363.	2.4	53
43	Nuclear integration of positive Dpp signals, antagonistic Wg inputs and mesodermal competence factors during Drosophila visceral mesoderm induction. Development (Cambridge), 2005, 132, 1429-1442.	2.5	51
44	Establishing Aâ€“P Polarity in the Embryonic Heart Tube A Conserved Function of Hox Genes in Drosophila and Vertebrates?. Trends in Cardiovascular Medicine, 2003, 13, 182-187.	4.9	50
45	Intersecting signalling and transcriptional pathways inDrosophilaheart specification. Seminars in Cell and Developmental Biology, 1999, 10, 61-71.	5.0	49
46	Genetic and Genomic Dissection of Cardiogenesis in the Drosophila Model. Pediatric Cardiology, 2010, 31, 325-334.	1.3	48
47	Org-1, the <i>Drosophila</i> ortholog of Tbx1, is a direct activator of known identity genes during muscle specification. Development (Cambridge), 2012, 139, 1001-1012.	2.5	46
48	A Novel KH-Domain Protein Mediates Cell Adhesion Processes inDrosophila. Developmental Biology, 1997, 190, 241-256.	2.0	43
49	Org-1-Dependent Lineage Reprogramming Generates the Ventral Longitudinal Musculature of the Drosophila Heart. Current Biology, 2015, 25, 488-494.	3.9	40
50	Two puff-specific proteins bind within the 2.5 kb upstream region of theDrosophila melanogaster Sgs-4 gene. Chromosoma, 1990, 99, 52-60.	2.2	35
51	Genetic Determination of Drosophila Heart Development. , 1999, , 65-90.		35
52	Two proteins from Drosophila nuclei are bound to chromatin and are detected in a series of puffs on polytene chromosomes. Chromosoma, 1989, 97, 272-281.	2.2	32
53	<i>HLH54F</i>is required for the specification and migration of longitudinal gut muscle founders from the caudal mesoderm of<i>Drosophila</i>. Development (Cambridge), 2010, 137, 3107-3117.	2.5	31
54	The FGF8-related signals Pyramus and Thisbe promote pathfinding, substrate adhesion, and survival of migrating longitudinal gut muscle founder cells. Developmental Biology, 2012, 368, 28-43.	2.0	31

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55	The Drosophila Hand gene is required for remodeling of the developing adult heart and midgut during metamorphosis. Developmental Biology, 2007, 311, 287-296.	2.0	30
56	Development and Aging of the Drosophila Heart. , 2010, , 47-86.		28
57	<i>Drosophila</i> Tey represses transcription of the repulsive cue Toll and generates neuromuscular target specificity. Development (Cambridge), 2010, 137, 2139-2146.	2.5	27
58	An Org-1â€"Tup transcriptional cascade reveals different types of alary muscles connecting internal organs in <i>Drosophila</i>. Development (Cambridge), 2014, 141, 3761-3771.	2.5	26
59	Functional studies of the BTB domain in the Drosophila GAGA and Mod(mdg4) proteins. Nucleic Acids Research, 2000, 28, 3864-3870.	14.5	24
60	Cardiogenesis in the Drosophila Model: Control Mechanisms during Early Induction and Diversification of Cardiac Progenitors. Cold Spring Harbor Symposia on Quantitative Biology, 2002, 67, 1-12.	1.1	24
61	Mergers and Acquisitions. Cell, 2000, 102, 127-129.	28.9	23
62	Drosophila mind bomb2 is required for maintaining muscle integrity and survival. Journal of Cell Biology, 2007, 179, 219-227.	5.2	23
63	Regulation and Functions of the lms Homeobox Gene during Development of Embryonic Lateral Transverse Muscles and Direct Flight Muscles in Drosophila. PLoS ONE, 2010, 5, e14323.	2.5	21
64	Org-1 is required for the diversification of circular visceral muscle founder cells and normal midgut morphogenesis. Developmental Biology, 2013, 376, 245-259.	2.0	21
65	Dedifferentiation, Redifferentiation, and Transdifferentiation of Striated Muscles During Regeneration and Development. Current Topics in Developmental Biology, 2016, 116, 331-355.	2.2	18
66	bagpipe-dependent expression of vimar, a novel Armadillo-repeats gene, in Drosophila visceral mesoderm. Mechanisms of Development, 1998, 72, 65-75.	1.7	17
67	The homeodomain of Tinman mediates homo- and heterodimerization of NK proteins. Biochemical and Biophysical Research Communications, 2005, 334, 361-369.	2.1	17
68	The Î²3 tubulin gene is a direct target of bagpipe and biniou in the visceral mesoderm of Drosophila. Mechanisms of Development, 2002, 114, 85-93.	1.7	16
69	Appearance of two maternally directed histone H2A variants precedes zygotic ubiquitination of H2A in early embryogenesis of Sciara coprophila (Diptera). Developmental Biology, 1987, 122, 568-576.	2.0	15
70	A Large Scale Systemic RNAi Screen in the Red Flour Beetle<i>Tribolium castaneum</i>Identifies Novel Genes Involved in Insect Muscle Development. G3: Genes, Genomes, Genetics, 2019, 9, 1009-1026.	1.8	13
71	Development of the Larval Visceral Musculature. , 2006, , 62-78.		11
72	T-Box Genes in Drosophila Mesoderm Development. Current Topics in Developmental Biology, 2017, 122, 161-193.	2.2	11

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73	Yorkie and JNK revert syncytial muscles into myoblasts during Org-1â€“dependent lineage reprogramming. Journal of Cell Biology, 2019, 218, 3572-3582.	5.2	11
74	Screens in fly and beetle reveal vastly divergent gene sets required for developmental processes. BMC Biology, 2022, 20, 38.	3.8	11
75	A matter of timing: microRNA-controlled temporal identities in worms and flies. Genes and Development, 2008, 22, 1572-1576.	5.9	10
76	Genetic Control of Mesoderm Patterning and Differentiation During Drosophila Embryogenesis. Advances in Developmental Biochemistry, 1999, , 1-47.	0.9	8
77	Genome-Wide Approaches to Drosophila Heart Development. Journal of Cardiovascular Development and Disease, 2016, 3, 20.	1.6	7
78	Homeotic Genes Autonomously Specify the Anteroposterior Subdivision of the Drosophila Dorsal Vessel into Aorta and Heart. Developmental Biology, 2002, 251, 307-307.	2.0	4
79	RNAi Screen in<i>Tribolium</i>Reveals Involvement of F-BAR Proteins in Myoblast Fusion and Visceral Muscle Morphogenesis in Insects. G3: Genes, Genomes, Genetics, 2019, 9, 1141-1151.	1.8	4
80	Regulation and function of tinman during dorsal mesoderm induction and heart specification in Drosophila. Genesis, 1998, 22, 187-200.	2.1	1
81	Immunological dissection of the <i>Drosophila</i> nucleus. Biochemical Society Transactions, 1985, 13, 100-101.	3.4	0
82	Specific radioimmunoprecipitation of histone H2A antigens by protein A conjugated sepharose. Experientia, 1988, 44, 347-348.	1.2	0
83	Preface. Current Topics in Developmental Biology, 2017, 122, xiii-xviii.	2.2	0