

# Siegfried Roth

## List of Publications by Year in descending order

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84  
papers

6,848  
citations

81743

39  
h-index

64668

79  
g-index

141  
all docs

141  
docs citations

141  
times ranked

5614  
citing authors

#	ARTICLE	IF	CITATIONS
1	Expression and Function of Toll Pathway Components in the Early Development of the Wasp <i>Nasonia vitripennis</i> . <i>Journal of Developmental Biology</i> , 2022, 10, 7.	0.9	1
2	Screens in fly and beetle reveal vastly divergent gene sets required for developmental processes. <i>BMC Biology</i> , 2022, 20, 38.	1.7	11
3	Convergent Adaptation of Ootheca Formation as a Reproductive Strategy in Polyneoptera. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	8
4	Striking parallels between dorsoventral patterning in <i>Drosophila</i> and <i>Gryllus</i> reveal a complex evolutionary history behind a model gene regulatory network. <i>ELife</i> , 2021, 10, .	2.8	20
5	Juvenile hormone signaling promotes ovulation and maintains egg shape by inducing expression of extracellular matrix genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	37
6	Enhanced genome assembly and a new official gene set for <i>Tribolium castaneum</i> . <i>BMC Genomics</i> , 2020, 21, 47.	1.2	84
7	Molecular evolutionary trends and feeding ecology diversification in the Hemiptera, anchored by the milkweed bug genome. <i>Genome Biology</i> , 2019, 20, 64.	3.8	114
8	Fog signaling has diverse roles in epithelial morphogenesis in insects. <i>ELife</i> , 2019, 8, .	2.8	20
9	A novel role for <i>Ets4</i> in axis specification and cell migration in the spider <i>Parasteatoda tepidariorum</i> . <i>ELife</i> , 2017, 6, .	2.8	26
10	Global analysis of dorsoventral patterning in the wasp <i>Nasonia</i> reveals extensive incorporation of novelty in a regulatory network. <i>BMC Biology</i> , 2016, 14, 63.	1.7	13
11	A Genome-Wide Screen for Dendritically Localized RNAs Identifies Genes Required for Dendrite Morphogenesis. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 2397-2405.	0.8	14
12	Toll Genes Have an Ancestral Role in Axis Elongation. <i>Current Biology</i> , 2016, 26, 1609-1615.	1.8	81
13	Hans Meinhardt (1938â€“2016). <i>Current Biology</i> , 2016, 26, R448-R449.	1.8	1
14	Genome wide identification of <i>Tribolium</i> dorsoventral patterning genes. <i>Development (Cambridge)</i> , 2016, 143, 2443-54.	1.2	24
15	Deep, Staged Transcriptomic Resources for the Novel Coleopteran Models <i>Atrachya menetriesi</i> and <i>Callosobruchus maculatus</i> . <i>PLoS ONE</i> , 2016, 11, e0167431.	1.1	7
16	The iBeetle large-scale RNAi screen reveals gene functions for insect development and physiology. <i>Nature Communications</i> , 2015, 6, 7822.	5.8	139
17	The significance and scope of evolutionary developmental biology: a vision for the 21st century. <i>Evolution &amp; Development</i> , 2015, 17, 198-219.	1.1	92
18	Dynamic BMP signaling polarized by Toll patterns the dorsoventral axis in a hemimetabolous insect. <i>ELife</i> , 2015, 4, e05502.	2.8	40

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19	Kant, Polanyi, and Molecular Biology. , 2014, , 275-292.		3
20	Dorsoventral Polarity of the <i>Nasonia</i> Embryo Primarily Relies on a BMP Gradient Formed without Input from Toll. <i>Current Biology</i> , 2014, 24, 2393-2398.	1.8	38
21	Ancient and diverged TGF- $\beta$ signaling components in <i>Nasonia vitripennis</i> . <i>Development Genes and Evolution</i> , 2014, 224, 223-233.	0.4	20
22	Co-option of a coordinate system defined by the EGFr and Dpp pathways in the evolution of a morphological novelty. <i>EvoDevo</i> , 2013, 4, 7.	1.3	15
23	Development: Getting into the Groove, or Evolving off the Rails?. <i>Current Biology</i> , 2013, 23, R1101-R1103.	1.8	4
24	Patterning the dorsal-ventral axis of the wasp <i>Nasonia vitripennis</i> . <i>Developmental Biology</i> , 2013, 381, 189-202.	0.9	36
25	High plasticity in epithelial morphogenesis during insect dorsal closure. <i>Biology Open</i> , 2013, 2, 1108-1118.	0.6	34
26	Developmental Gene Discovery in a Hemimetabolous Insect: De Novo Assembly and Annotation of a Transcriptome for the Cricket <i>Gryllus bimaculatus</i> . <i>PLoS ONE</i> , 2013, 8, e61479.	1.1	41
27	<i>Drosophila</i> tubulin-binding cofactor B is required for microtubule network formation and for cell polarity. <i>Molecular Biology of the Cell</i> , 2012, 23, 3591-3601.	0.9	22
28	Making Waves for Segments. <i>Science</i> , 2012, 336, 306-307.	6.0	4
29	Axis Formation: Microtubules Push in the Right Direction. <i>Current Biology</i> , 2012, 22, R537-R539.	1.8	2
30	Does the Bicoid Gradient Matter?. <i>Cell</i> , 2012, 149, 511-512.	13.5	11
31	Molecular mechanisms of EGF signaling-dependent regulation of pipe, a gene crucial for dorsoventral axis formation in <i>Drosophila</i> . <i>Development Genes and Evolution</i> , 2012, 222, 1-17.	0.4	9
32	Mathematics and biology: a Kantian view on the history of pattern formation theory. <i>Development Genes and Evolution</i> , 2011, 221, 255-279.	0.4	41
33	The maternal and early embryonic transcriptome of the milkweed bug <i>Oncopeltus fasciatus</i> . <i>BMC Genomics</i> , 2011, 12, 61.	1.2	110
34	The evolution of dorsal-ventral patterning mechanisms in insects. <i>Genes and Development</i> , 2011, 25, 107-118.	2.7	98
35	The Phylogenetic Origin of oskar Coincided with the Origin of Maternally Provisioned Germ Plasm and Pole Cells at the Base of the Holometabola. <i>PLoS Genetics</i> , 2011, 7, e1002029.	1.5	71
36	Evolution und Fortschritt Zum Problem der HÄherentwicklung in der organischen Evolution. , 2011, , 195-247.		1

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37	EGF Signaling and the Origin of Axial Polarity among the Insects. <i>Current Biology</i> , 2010, 20, 1042-1047.	1.8	70
38	Generation of distinct signaling modes via diversification of the Egfr ligand-processing cassette. <i>Development (Cambridge)</i> , 2010, 137, 3427-3437.	1.2	14
39	Epithelial reorganization events during late extraembryonic development in a hemimetabolous insect. <i>Developmental Biology</i> , 2010, 340, 100-115.	0.9	29
40	Evolution of extracellular Dpp modulators in insects: The roles of tolloid and twisted-gastrulation in dorsoventral patterning of the <i>Tribolium</i> embryo. <i>Developmental Biology</i> , 2010, 345, 80-93.	0.9	43
41	Generation of distinct signaling modes via diversification of the Egfr ligand-processing cassette. <i>Journal of Cell Science</i> , 2010, 123, e1-e1.	1.2	0
42	Symmetry Breaking During <i>Drosophila</i> Oogenesis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a001891-a001891.	2.3	141
43	Evolution of axis formation: mRNA localization, regulatory circuits and posterior specification in non-model arthropods. <i>Current Opinion in Genetics and Development</i> , 2009, 19, 404-411.	1.5	20
44	TGF $\beta^2$ signaling in <i>Tribolium</i> : vertebrate-like components in a beetle. <i>Development Genes and Evolution</i> , 2008, 218, 203-213.	0.4	63
45	Development of <i>Tribolium castaneum</i> . <i>Development Genes and Evolution</i> , 2008, 218, 115-118.	0.4	18
46	The genome of the model beetle and pest <i>Tribolium castaneum</i> . <i>Nature</i> , 2008, 452, 949-955.	13.7	1,255
47	Self-Regulatory Circuits in Dorsoventral Axis Formation of the Short-Germ Beetle <i>Tribolium castaneum</i> . <i>Developmental Cell</i> , 2008, 14, 605-615.	3.1	80
48	The <i>Drosophila</i> KASH domain proteins Msp-300 and Klarsicht and the SUN domain protein Klaroid have no essential function during oogenesis. <i>Fly</i> , 2008, 2, 82-91.	0.9	47
49	PIP5K-dependent production of PIP2 sustains microtubule organization to establish polarized transport in the <i>Drosophila</i> oocyte. <i>Development (Cambridge)</i> , 2008, 135, 3970-3970.	1.2	1
50	PIP5K-dependent production of PIP2 sustains microtubule organization to establish polarized transport in the <i>Drosophila</i> oocyte. <i>Development (Cambridge)</i> , 2008, 135, 3829-3838.	1.2	56
51	16. Kant und die Biologie seiner Zeit (1794-1804). , 2008, , 275-287.		3
52	The role of Dpp and its inhibitors during eggshell patterning in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2007, 134, 2261-2271.	1.2	41
53	Vertebrate rel proteins exhibit dorsal-like activities in early <i>Drosophila</i> embryogenesis. <i>Developmental Dynamics</i> , 2006, 235, 949-957.	0.8	1
54	<i>Drosophila</i> Cornichon acts as cargo receptor for ER export of the TGF $\beta$ -like growth factor Gurken. <i>Development (Cambridge)</i> , 2006, 133, 459-470.	1.2	85

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55	Sog/Chordin is required for ventral-to-dorsal Dpp/BMP transport and head formation in a short germ insect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16307-16312.	3.3	102
56	Distinct Functions of the <i>Tribolium zerknu</i> Genes in Serosa Specification and Dorsal Closure. <i>Current Biology</i> , 2005, 15, 624-636.	1.8	176
57	Dorsoventral Axis Formation in the <i>Drosophila</i> Embryo – Shaping and Transducing a Morphogen Gradient. <i>Current Biology</i> , 2005, 15, R887-R899.	1.8	214
58	<i>Tribolium castaneum</i> twist: gastrulation and mesoderm formation in a short-germ beetle. <i>Development Genes and Evolution</i> , 2005, 215, 13-31.	0.4	93
59	A Serpin Regulates Dorsal-Ventral Axis Formation in the <i>Drosophila</i> Embryo. <i>Current Biology</i> , 2003, 13, 2097-2102.	1.8	90
60	The origin of dorsoventral polarity in <i>Drosophila</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 1317-1329.	1.8	84
61	<i>Drosophila</i> Stathmin: A Microtubule-destabilizing Factor Involved in Nervous System Formation. <i>Molecular Biology of the Cell</i> , 2002, 13, 698-710.	0.9	66
62	Polar Transport in the <i>Drosophila</i> Oocyte Requires Dynein and Kinesin I Cooperation. <i>Current Biology</i> , 2002, 12, 1971-1981.	1.8	205
63	Sharp peaks from shallow sources. <i>Nature</i> , 2002, 419, 261-262.	13.7	13
64	Mechanisms of Gurken-dependent pipe regulation and the robustness of dorsoventral patterning in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2002, 129, 2965-2975.	1.2	35
65	Mechanisms of Gurken-dependent pipe regulation and the robustness of dorsoventral patterning in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2002, 129, 2965-75.	1.2	20
66	Stable Anterior Anchoring of the Oocyte Nucleus Is Required to Establish Dorsoventral Polarity of the <i>Drosophila</i> Egg. <i>Developmental Biology</i> , 2001, 237, 93-106.	0.9	56
67	<i>Drosophila</i> oogenesis: Coordinating germ line and soma. <i>Current Biology</i> , 2001, 11, R779-R781.	1.8	45
68	<i>Tribolium</i> embryogenesis: a SEM study of cell shapes and movements from blastoderm to serosal closure. <i>Development Genes and Evolution</i> , 2000, 210, 167-179.	0.4	117
69	Local Gurken signaling and dynamic MAPK activation during <i>Drosophila</i> oogenesis. <i>Mechanisms of Development</i> , 1999, 81, 75-88.	1.7	97
70	Toll homolog expression in the beetle <i>Tribolium</i> suggests a different mode of dorsoventral patterning than in <i>Drosophila</i> embryos. <i>Mechanisms of Development</i> , 1999, 83, 107-114.	1.7	33
71	The <i>Drosophila</i> Gene <i>brinker</i> Reveals a Novel Mechanism of Dpp Target Gene Regulation. <i>Cell</i> , 1999, 96, 563-573.	13.5	241
72	<i>Drosophila</i> development: The secrets of delayed induction. <i>Current Biology</i> , 1998, 8, R906-R910.	1.8	16

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73	Chicken Acidic Leucine-rich EGF-like Domain Containing Brain Protein (CALEB), a Neural Member of the EGF Family of Differentiation Factors, Is Implicated in Neurite Formation. <i>Journal of Cell Biology</i> , 1997, 136, 895-906.	2.3	51
74	The Role of the dpp-Group Genes in Dorsoventral Patterning of the <i>Drosophila</i> Embryo. <i>Advances in Developmental Biology</i> (1992), 1996, 4, 27-82.	1.1	8
75	The <i>Drosophila</i> cell cycle gene <i>fizzy</i> is required for normal degradation of cyclins A and B during mitosis and has homology to the <i>CDC20</i> gene of <i>Saccharomyces cerevisiae</i> .. <i>Journal of Cell Biology</i> , 1995, 129, 725-737.	2.3	185
76	cornichon and the EGF receptor signaling process are necessary for both anterior-posterior and dorsal-ventral pattern formation in <i>Drosophila</i> . <i>Cell</i> , 1995, 81, 967-978.	13.5	477
77	Axis Determination: Proteolytic generation of a morphogen. <i>Current Biology</i> , 1994, 4, 755-757.	1.8	23
78	Dorsoventral patterning in <i>Drosophila</i> oogenesis. <i>Current Opinion in Genetics and Development</i> , 1994, 4, 502-507.	1.5	59
79	The functional domains of the <i>Drosophila</i> morphogen dorsal: evidence from the analysis of mutants.. <i>Genes and Development</i> , 1992, 6, 619-630.	2.7	68
80	The polarity of the dorsoventral axis in the <i>drosophila</i> embryo is defined by an extracellular signal. <i>Cell</i> , 1991, 65, 725-735.	13.5	252
81	A gradient of nuclear localization of the dorsal protein determines dorsoventral pattern in the <i>Drosophila</i> embryo. <i>Cell</i> , 1989, 59, 1189-1202.	13.5	652
82	Axis Determination in Insect Embryos. <i>Novartis Foundation Symposium</i> , 1989, 144, 37-64.	1.2	16
83	Chaotic dynamics of two coupled biochemical oscillators. <i>Physica D: Nonlinear Phenomena</i> , 1987, 26, 215-224.	1.3	14
84	Biochemical characterization of polypeptide components involved in neurite fasciculation and elongation. <i>FEBS Journal</i> , 1987, 168, 551-561.	0.2	43