

# CITATION REPORT

List of articles citing

Production of a DPP activity gradient in the early *Drosophila* embryo through the opposing actions of the SOG and TLD proteins

DOI: 10.1016/s0092-8674(00)80425-0  
Cell, 1997, 91, 417-26.

**Source:** <https://exaly.com/paper-pdf/28323487/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
396	Cleavage of Chordin by Xolloid metalloprotease suggests a role for proteolytic processing in the regulation of Spemann organizer activity. <i>Cell</i> , <b>1997</b> , 91, 407-16	56.2	355
395	Holy Tolloido: Tolloid cleaves SOG/Chordin to free DPP/BMPs. <i>Trends in Genetics</i> , <b>1998</b> , 14, 127-9	8.5	48
394	Developmental signalling: a careful balancing act. <b>1998</b> , 8, R228-31		18
393	Regulation and function of tinman during dorsal mesoderm induction and heart specification in <i>Drosophila</i> . <b>1998</b> , 22, 187-200		83
392	TGF-beta signaling, Smads, and tumor suppressors. <i>BioEssays</i> , <b>1998</b> , 20, 382-90	4.1	81
391	Calcium-protein interactions in the extracellular environment: calcium binding, activation, and immunolocalization of a collagenase/gelatinase activity expressed in the sea urchin embryo. <b>1998</b> , 71, 546-58		11
390	Cell fate determination in embryonic ectoderm. <b>1998</b> , 36, 128-151		63
389	A toxin homology domain in an astacin-like metalloproteinase of the jellyfish <i>Podocoryne carnea</i> with a dual role in digestion and development. <b>1998</b> , 208, 259-66		49
388	Architectural patterns in branching morphogenesis in the kidney. <b>1998</b> , 54, 1832-42		88
387	Procollagen N-proteinase and procollagen C-proteinase. Two unusual metalloproteinases that are essential for procollagen processing probably have important roles in development and cell signaling. <i>Matrix Biology</i> , <b>1998</b> , 16, 399-408	11.4	147
386	BMPs, Smads and metalloproteases: extracellular and intracellular modes of negative regulation. <i>Current Opinion in Genetics and Development</i> , <b>1998</b> , 8, 443-9	4.9	72
385	Spatially restricted activation of the SAX receptor by SCW modulates DPP/TKV signaling in <i>Drosophila</i> dorsal-ventral patterning. <i>Cell</i> , <b>1998</b> , 95, 483-94	56.2	90
384	Interpretation of a BMP activity gradient in <i>Drosophila</i> embryos depends on synergistic signaling by two type I receptors, SAX and TKV. <i>Cell</i> , <b>1998</b> , 95, 495-506	56.2	108
383	Ventral and lateral regions of the zebrafish gastrula, including the neural crest progenitors, are established by a <i>bmp2b</i> /swirl pathway of genes. <i>Developmental Biology</i> , <b>1998</b> , 199, 93-110	3.1	377
382	Neural crest-specific and general expression of distinct metalloprotease-disintegrins in early <i>Xenopus laevis</i> development. <i>Developmental Biology</i> , <b>1998</b> , 204, 508-24	3.1	33
381	Reprolysins and astacins...alive, alive-o. <i>Science</i> , <b>1998</b> , 279, 336-7	33.3	23
380	The taxonomy of developmental control in <i>Caenorhabditis elegans</i> . <i>Science</i> , <b>1998</b> , 282, 2033-41	33.3	243

379	Interplay of signal mediators of decapentaplegic (Dpp): molecular characterization of mothers against dpp, Medea, and daughters against dpp. <b>1998</b> , 9, 2145-56		88
378	Bone morphogenetic protein-1 processes the NH <sub>2</sub> -terminal propeptide, and a furin-like proprotein convertase processes the COOH-terminal propeptide of pro-alpha1(V) collagen. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 27511-7	5.4	85
377	Biochemical and biophysical characterization of refolded Drosophila DPP, a homolog of bone morphogenetic proteins 2 and 4. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 29052-65	5.4	44
376	Smad proteins act in combination with synergistic and antagonistic regulators to target Dpp responses to the Drosophila mesoderm. <i>Genes and Development</i> , <b>1998</b> , 12, 2354-70	12.6	218
375	Molecular Cloning of Bone Morphogenetic Protein (BMP) Gene from the Planarian Dugesia japonica. <b>1998</b> , 15, 871-877		37
374	Embryonic axis formation in the zebrafish. <b>1999</b> , 59, 159-78		13
373	A unity of opposites. <b>1999</b> , 398, 375-376		8
372	Type IIA procollagen containing the cysteine-rich amino propeptide is deposited in the extracellular matrix of prechondrogenic tissue and binds to TGF-beta1 and BMP-2. <b>1999</b> , 144, 1069-80		226
371	Assignment of TLL1 and TLL2, which encode human BMP-1/Tolloid-related metalloproteases, to chromosomes 4q32-->q33 and 10q23-->q24 and assignment of murine Tll2 to chromosome 19. <b>1999</b> , 86, 64-5		7
370	Neural induction. <b>1999</b> , 15, 411-33		157
369	Regulation of bone morphogenetic protein activity by pro domains and proprotein convertases. <b>1999</b> , 144, 139-49		258
368	Drosophila dSmad2 and Atr-I transmit activin/TGFbeta signals. <b>1999</b> , 4, 123-34		35
367	Microbiology. Millennium bug. <b>1999</b> , 398, 376		
366	Local inhibition and long-range enhancement of Dpp signal transduction by Sog. <b>1999</b> , 398, 427-31		158
365	Patterning the zebrafish axial skeleton requires early chordin function. <b>1999</b> , 23, 442-6		91
364	Morphogen gradients: new insights from DPP. <i>Trends in Genetics</i> , <b>1999</b> , 15, 396-402	8.5	103
363	Extracellular matrix remodelling and cellular differentiation. <b>1999</b> , 11, 634-40		416
362	Specificity in transforming growth factor-beta signaling pathways. <b>1999</b> , 64, 691-7		8

361	Myostatin and the control of skeletal muscle mass. <i>Current Opinion in Genetics and Development</i> , <b>1999</b> , 9, 604-7	4.9	209
360	Extracellular modulation of the Hedgehog, Wnt and TGF-beta signalling pathways during embryonic development. <i>Current Opinion in Genetics and Development</i> , <b>1999</b> , 9, 427-33	4.9	36
359	Bone morphogenetic protein 1 regulates dorsal-ventral patterning in early <i>Xenopus</i> embryos by degrading chordin, a BMP4 antagonist. <b>1999</b> , 86, 75-85		48
358	MIG-13 positions migrating cells along the anteroposterior body axis of <i>C. elegans</i> . <i>Cell</i> , <b>1999</b> , 98, 25-36	56.2	66
357	Transducing the Dpp morphogen gradient in the wing of <i>Drosophila</i> : regulation of Dpp targets by brinker. <i>Cell</i> , <b>1999</b> , 96, 553-62	56.2	239
356	The EGF-CFC protein one-eyed pinhead is essential for nodal signaling. <i>Cell</i> , <b>1999</b> , 97, 121-32	56.2	622
355	Reelin, the extracellular matrix protein deficient in reeler mutant mice, is processed by a metalloproteinase. <i>Experimental Neurology</i> , <b>1999</b> , 156, 214-7	5.7	115
354	Sea urchin TgBMP2/4 gene encoding a bone morphogenetic protein closely related to vertebrate BMP2 and BMP4 with maximal expression at the later stages of embryonic development. <b>1999</b> , 258, 457-63		17
353	Regulation of BMP signaling by the BMP1/TLD-related metalloprotease, SpAN. <i>Developmental Biology</i> , <b>1999</b> , 206, 63-72	3.1	29
352	Paracrine-mediated apoptosis in reproductive tract development. <i>Developmental Biology</i> , <b>1999</b> , 208, 110-22	3.1	57
351	TGF-beta family signal transduction in <i>Drosophila</i> development: from Mad to Smads. <i>Developmental Biology</i> , <b>1999</b> , 210, 251-68	3.1	281
350	Mammalian BMP-1/Tolloid-related metalloproteinases, including novel family member mammalian Tolloid-like 2, have differential enzymatic activities and distributions of expression relevant to patterning and skeletogenesis. <i>Developmental Biology</i> , <b>1999</b> , 213, 283-300	3.1	283
349	Maternal and zygotic activity of the zebrafish <i>ogon</i> locus antagonizes BMP signaling. <i>Developmental Biology</i> , <b>1999</b> , 214, 72-86	3.1	60
348	The <i>gon-1</i> gene is required for gonadal morphogenesis in <i>Caenorhabditis elegans</i> . <i>Developmental Biology</i> , <b>1999</b> , 216, 382-93	3.1	132
347	Formation of morphogen gradients in the <i>Drosophila</i> wing. <b>1999</b> , 10, 335-44		94
346	A gradient of BMP activity specifies dorsal-ventral fates in early <i>Xenopus</i> embryos. <b>1999</b> , 10, 319-26		76
345	cDNA cloning, bacterial expression, in vitro renaturation and affinity purification of the zinc endopeptidase astacin. <i>Biochemical Journal</i> , <b>1999</b> , 344, 851-857	3.8	25
344	Hopkins Memorial Medal lecture. Pleasant surprises en route from the biochemistry of collagen to attempts at gene therapy. <b>1999</b> , 27, 15-31		7

343	cDNA cloning, bacterial expression, in vitro renaturation and affinity purification of the zinc endopeptidase astacin. <i>Biochemical Journal</i> , <b>1999</b> , 344, 851	3.8	15
342	Regeneration in the metazoans: why does it happen?. <i>BioEssays</i> , <b>2000</b> , 22, 578-90	4.1	232
341	Spatiotemporal expression patterns of mammalian chordin during postgastrulation embryogenesis and in postnatal brain. <b>2000</b> , 217, 449-56		48
340	Bone morphogenetic protein-7 enhances dendritic growth and receptivity to innervation in cultured hippocampal neurons. <b>2000</b> , 12, 106-16		102
339	The evolutionarily conserved BMP-binding protein Twisted gastrulation promotes BMP signalling. <b>2000</b> , 405, 757-63		238
338	The establishment of Spemann's organizer and patterning of the vertebrate embryo. <b>2000</b> , 1, 171-81		333
337	Pattern formation: a new twist to BMP signalling. <b>2000</b> , 10, R671-3		6
336	Molecular events that contribute to lysyl oxidase enzyme activity and insoluble collagen accumulation in osteosarcoma cell clones. <b>2000</b> , 15, 1189-97		27
335	Regulation of BMP/Dpp signaling during embryonic development. <i>Cellular and Molecular Life Sciences</i> , <b>2000</b> , 57, 943-56	10.3	34
334	Dm1-MMP, a matrix metalloproteinase from <i>Drosophila</i> with a potential role in extracellular matrix remodeling during neural development. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 35978-85	5.4	98
333	Bone morphogenetic protein 1 is an extracellular processing enzyme of the laminin 5 gamma 2 chain. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 22728-35	5.4	184
332	Post-translational proteolytic processing of procollagen C-terminal proteinase enhancer releases a metalloproteinase inhibitor. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 1384-90	5.4	87
331	Presence and roles of calcium gradients along the dorsal-ventral axis in <i>Drosophila</i> embryos. <i>Developmental Biology</i> , <b>2000</b> , 217, 375-85	3.1	34
330	Hydra metalloproteinase 1: a secreted astacin metalloproteinase whose apical axis expression is differentially regulated during head regeneration. <i>Developmental Biology</i> , <b>2000</b> , 219, 115-28	3.1	59
329	Is chordin a long-range- or short-range-acting factor? Roles for BMP1-related metalloproteases in chordin and BMP4 autofeedback loop regulation. <i>Developmental Biology</i> , <b>2000</b> , 223, 120-38	3.1	57
328	Evolutionary conservation of the presumptive neural plate markers <i>AmphiSox1/2/3</i> and <i>AmphiNeurogenin</i> in the invertebrate chordate amphioxus. <i>Developmental Biology</i> , <b>2000</b> , 226, 18-33	3.1	75
327	Cloning of the chick BMP1/Tolloid cDNA and expression in skeletal tissues. <b>2000</b> , 248, 233-43		28
326	Heterologously overexpressed, affinity-purified human meprin alpha is functionally active and cleaves components of the basement membrane in vitro. <i>FEBS Letters</i> , <b>2000</b> , 465, 2-7	3.8	47

325	Expression of chick BMP-1/Tolloid during patterning of the neural tube and somites. <b>2000</b> , 91, 415-9		16
324	Analysis of Drosophila salivary gland, epidermis and CNS development suggests an additional function of brinker in anterior-posterior cell fate specification. <b>2000</b> , 92, 179-91		15
323	Regulation of osteoblast differentiation mediated by bone morphogenetic proteins, hedgehogs, and Cbfa1. <b>2000</b> , 21, 393-411		520
322	Structure and function of procollagen C-proteinase (mTolloid) domains determined by protease digestion, circular dichroism, binding to procollagen type I, and computer modeling. <b>2000</b> , 39, 3231-9		52
321	The human chordin gene encodes several differentially expressed spliced variants with distinct BMP opposing activities. <b>2001</b> , 106, 85-96		27
320	The DSmurf ubiquitin-protein ligase restricts BMP signaling spatially and temporally during Drosophila embryogenesis. <i>Developmental Cell</i> , <b>2001</b> , 1, 567-78	10.2	99
319	Twisted perspective: new insights into extracellular modulation of BMP signaling during development. <i>Cell</i> , <b>2001</b> , 104, 801-4	56.2	42
318	Transendothelial migration of lymphocytes across high endothelial venules into lymph nodes is affected by metalloproteinases. <b>2001</b> , 98, 688-95		109
317	The Twisted gastrulation family of proteins, together with the IGFBP and CCN families, comprise the TIC superfamily of cysteine rich secreted factors. <b>2001</b> , 54, 317-23		29
316	Inhibitors of procollagen C-terminal proteinase block gastrulation and spicule elongation in the sea urchin embryo. <i>Development Growth and Differentiation</i> , <b>2001</b> , 43, 415-24	3	14
315	Homologies of process and modular elements of embryonic construction. <b>2001</b> , 291, 1-12		102
314	Type IIA procollagen in development of the human intervertebral disc: regulated expression of the NH(2)-propeptide by enzymic processing reveals a unique developmental pathway. <b>2001</b> , 220, 350-62		48
313	Programming the Drosophila embryo 2: from genotype to phenotype. <b>2001</b> , 34, 153-90		11
312	Homologues of Twisted gastrulation are extracellular cofactors in antagonism of BMP signalling. <b>2001</b> , 410, 475-8		161
311	Twisted gastrulation is a conserved extracellular BMP antagonist. <b>2001</b> , 410, 479-83		243
310	Developmental biology. A twist on embryonic signalling. <b>2001</b> , 410, 423-4		34
309	Mesoscopic physics. Noisy times ahead. <b>2001</b> , 410, 424-5		3
308	addendum: A universal scaling law for atomic diffusion in condensed matter. <b>2001</b> , 411, 720-720		10

307	Erratum: Initial sequencing and analysis of the human genome. <b>2001</b> , 411, 720-720		9
306	Erratum: Homologues of Twisted gastrulation are extracellular cofactors in antagonism of BMP signalling. <b>2001</b> , 411, 720-720		11
305	Regulation of neural determination by evolutionarily conserved signals: anti-BMP factors and what next?. <b>2001</b> , 11, 22-6		33
304	Transcriptional regulation of the Drosophila gene zen by competing Smad and Brinker inputs. <i>Genes and Development</i> , <b>2001</b> , 15, 340-51	12.6	103
303	Wnts, signaling and sulfates. <i>Science Signaling</i> , <b>2001</b> , 2001, pe32	8.8	2
302	Conservation and divergence in molecular mechanisms of axis formation. <b>2001</b> , 35, 407-37		36
301	Multiple bone morphogenetic protein 1-related mammalian metalloproteinases process pro-lysyl oxidase at the correct physiological site and control lysyl oxidase activation in mouse embryo fibroblast cultures. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 22537-43	5.4	185
300	Brinker is a sequence-specific transcriptional repressor in the Drosophila embryo. <i>Genes and Development</i> , <b>2001</b> , 15, 261-6	12.6	78
299	When cell biology meets development: endocytic regulation of signaling pathways. <i>Genes and Development</i> , <b>2002</b> , 16, 1314-36	12.6	180
298	Interaction properties of the procollagen C-proteinase enhancer protein shed light on the mechanism of stimulation of BMP-1. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 33864-9	5.4	54
297	Processing of type II procollagen amino propeptide by matrix metalloproteinases. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 2193-201	5.4	38
296	Post-translational modification of bone morphogenetic protein-1 is required for secretion and stability of the protein. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 43327-34	5.4	35
295	Structural and enzymatic characterization of Drosophila Dm2-MMP, a membrane-bound matrix metalloproteinase with tissue-specific expression. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 23321-9	5.4	80
294	Cloning and biochemical characterization of astacin-like squid metalloprotease. <b>2002</b> , 132, 751-8		13
293	Heparan sulfate proteoglycans retain Noggin at the cell surface: a potential mechanism for shaping bone morphogenetic protein gradients. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 2089-96	5.4	173
292	Mechanism for the action of bone morphogenetic proteins and regulation of their activity. <b>2002</b> , 27, S10-5		106
291	Modulation of BMP activity in dorsal-ventral pattern formation by the chordin and ogon antagonists. <i>Developmental Biology</i> , <b>2002</b> , 245, 109-23	3.1	55
290	Localized BMP4-noggin interactions generate the dynamic patterning of noggin expression in somites. <i>Developmental Biology</i> , <b>2002</b> , 246, 311-28	3.1	68

289	Extracellular Regulation of BMP Signaling in Vertebrates: A Cocktail of Modulators. <i>Developmental Biology</i> , <b>2002</b> , 250, 231-250	3.1	534
288	Local inhibition of Drosophila homeobox-containing neural dorsoventral patterning genes by Dpp. <i>FEBS Letters</i> , <b>2002</b> , 531, 427-31	3.8	5
287	Xolloid-related: a novel BMP1/Tolloid-related metalloprotease is expressed during early Xenopus development. <b>2002</b> , 119, 177-90		29
286	Identification and characterization of bone morphogenetic protein 2/4 gene from the starfish <i>Archaster typicus</i> . <b>2002</b> , 131, 143-51		6
285	The Drosophila BMP type II receptor Wishful Thinking regulates neuromuscular synapse morphology and function. <b>2002</b> , 33, 529-43		258
284	Is synaptic homeostasis just wishful thinking?. <b>2002</b> , 33, 491-2		12
283	Creation of a Sog morphogen gradient in the Drosophila embryo. <i>Developmental Cell</i> , <b>2002</b> , 2, 91-101	10.2	90
282	Morphogen transport along epithelia, an integrated trafficking problem. <i>Developmental Cell</i> , <b>2002</b> , 3, 615-23	10.2	78
281	The NH(2)-terminal propeptides of fibrillar collagens: highly conserved domains with poorly understood functions. <i>Matrix Biology</i> , <b>2002</b> , 21, 217-26	11.4	29
280	Chordin-like CR domains and the regulation of evolutionarily conserved extracellular signaling systems. <b>2002</b> , 287, 39-47		145
279	Établissement des axes embryonnaires au cours du développement du poisson zÈbre. <b>2002</b> , 18, 193-204		
278	The TGF-beta family: signaling pathways, developmental roles, and tumor suppressor activities. <b>2002</b> , 2, 892-925		11
277	BMP signalling: visualisation of the Sog protein gradient. <b>2002</b> , 12, R273-5		4
276	Morphogen gradients, positional information, and Xenopus: interplay of theory and experiment. <b>2002</b> , 225, 392-408		79
275	Isolation of connective-tissue-specific genes involved in Xenopus intestinal remodeling: thyroid hormone up-regulates Tolloid/BMP-1 expression. <b>2002</b> , 212, 357-64		14
274	Molecular basis of seasonal time measurement in Arabidopsis. <b>2002</b> , 419, 308-12		538
273	Robustness of the BMP morphogen gradient in Drosophila embryonic patterning. <b>2002</b> , 419, 304-8		381
272	Developmental biology: sharp peaks from shallow sources. <b>2002</b> , 419, 261-2		12



271	Cell biology: proteins tracked in a flash. <b>2002</b> , 419, 262		
270	A role for the BMP antagonist chordin in endochondral ossification. <b>2002</b> , 17, 293-300		76
269	Arkadia amplifies TGF-beta superfamily signalling through degradation of Smad7. <b>2003</b> , 22, 6458-70		174
268	Modulation of developmental signals by endocytosis: different means and many ends. <b>2003</b> , 15, 474-81		45
267	Hydra regeneration and epitheliopeptides. <b>2003</b> , 226, 182-9		52
266	Bone marrow immunohistochemical studies of angiogenic cytokines and their receptors in myelofibrosis with myeloid metaplasia. <b>2003</b> , 27, 499-504		31
265	Drosophila Embryo: Dorsal-ventral Specification. <b>2003</b> ,		
264	The CBP coactivator functions both upstream and downstream of Dpp/Screw signaling in the early Drosophila embryo. <i>Developmental Biology</i> , <b>2003</b> , 262, 294-302	3.1	28
263	Ventral dominance governs sequential patterns of gene expression across the dorsal-ventral axis of the neuroectoderm in the Drosophila embryo. <i>Developmental Biology</i> , <b>2003</b> , 262, 335-49	3.1	58
262	Chordin is required for the Spemann organizer transplantation phenomenon in Xenopus embryos. <i>Developmental Cell</i> , <b>2003</b> , 4, 219-30	10.2	120
261	CRIM1 regulates the rate of processing and delivery of bone morphogenetic proteins to the cell surface. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 34181-8	5.4	79
260	Activation of latent myostatin by the BMP-1/tolloid family of metalloproteinases. <b>2003</b> , 100, 15842-6		354
259	Integrins modulate Sog activity in the Drosophila wing. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 3851-64	6.6	29
258	Regulation of BMP and activin signaling in Drosophila. <b>2004</b> , 34, 73-101		50
257	Early patterning of the spider embryo: a cluster of mesenchymal cells at the cumulus produces Dpp signals received by germ disc epithelial cells. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 1735-47	6.6	116
256	bozozok directly represses bmp2b transcription and mediates the earliest dorsoventral asymmetry of bmp2b expression in zebrafish. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 3639-49	6.6	73
255	Twisted gastrulation loss-of-function analyses support its role as a BMP inhibitor during early Xenopus embryogenesis. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 4975-88	6.6	42
254	Physical properties of Tld, Sog, Tsg and Dpp protein interactions are predicted to help create a sharp boundary in Bmp signals during dorsoventral patterning of the Drosophila embryo. <i>Development (Cambridge)</i> , <b>2003</b> , 130, 4673-82	6.6	89

253	Use of Bmp1/Tll1 doubly homozygous null mice and proteomics to identify and validate in vivo substrates of bone morphogenetic protein 1/tolloid-like metalloproteinases. <b>2003</b> , 23, 4428-38		96
252	Incredible journey: how do developmental signals travel through tissue?. <i>Genes and Development</i> , <b>2004</b> , 18, 2985-97	12.6	92
251	Cysteine repeat domains and adjacent sequences determine distinct bone morphogenetic protein modulatory activities of the Drosophila Sog protein. <i>Genetics</i> , <b>2004</b> , 166, 1323-36	4	20
250	Identification and characterization of human and mouse ovastacin: a novel metalloproteinase similar to hatching enzymes from arthropods, birds, amphibians, and fish. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 26627-34	5.4	70
249	Gene interactions in <i>Caenorhabditis elegans</i> define DPY-31 as a candidate procollagen C-proteinase and SQT-3/ROL-4 as its predicted major target. <i>Genetics</i> , <b>2004</b> , 168, 1259-73	4	34
248	Cell-surface heparan sulfate proteoglycans potentiate chordin antagonism of bone morphogenetic protein signaling and are necessary for cellular uptake of chordin. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 51289-97	5.4	57
247	Deletion of epidermal growth factor-like domains converts mammalian tolloid into a chordinase and effective procollagen C-proteinase. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 49835-41	5.4	25
246	British Society for Matrix Biology Meeting. London, United Kingdom, 18-19 September 2003. Abstracts. <b>2004</b> , 85, A1-A44		
245	Differential gene expression during wing morph differentiation of the ectoparasitoid <i>Melittobia digitata</i> (Hym., Eulophidae). <b>2004</b> , 138, 229-39		9
244	Regulation of bone morphogenetic proteins in early embryonic development. <b>2004</b> , 91, 519-34		59
243	Inactivation of mouse Twisted gastrulation reveals its role in promoting Bmp4 activity during forebrain development. <i>Development (Cambridge)</i> , <b>2004</b> , 131, 413-24	6.6	61
242	Drosophila p24 homologues eclair and baiser are necessary for the activity of the maternally expressed Tkv receptor during early embryogenesis. <b>2004</b> , 121, 1259-73		23
241	Regulation of muscle mass by myostatin. <b>2004</b> , 20, 61-86		620
240	Elucidating mechanisms underlying robustness of morphogen gradients. <i>Current Opinion in Genetics and Development</i> , <b>2004</b> , 14, 435-9	4.9	74
239	Signals derived from the underlying mesoderm are dispensable for zebrafish neural crest induction. <i>Developmental Biology</i> , <b>2004</b> , 276, 16-30	3.1	37
238	crossveinless defines a new family of Twisted-gastrulation-like modulators of bone morphogenetic protein signalling. <b>2005</b> , 6, 262-7		38
237	Spatial bistability of Dpp-receptor interactions during Drosophila dorsal-ventral patterning. <b>2005</b> , 434, 229-34		175
236	Structural and functional evidence for a singular repertoire of BMP receptor signal transducing proteins in the lophotrochozoan <i>Crassostrea gigas</i> suggests a shared ancestral BMP/activin pathway. <b>2005</b> , 272, 3424-40		30

235	Morphogens and synaptogenesis in <i>Drosophila</i> . <b>2005</b> , 64, 417-34		81
234	Substrate-specific modulation of a multisubstrate proteinase. C-terminal processing of fibrillar procollagens is the only BMP-1-dependent activity to be enhanced by PCPE-1. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 24188-94	5.4	82
233	Identification of the minimal domain structure of bone morphogenetic protein-1 (BMP-1) for chordinase activity: chordinase activity is not enhanced by procollagen C-proteinase enhancer-1 (PCPE-1). <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 22616-23	5.4	38
232	The Zebrafish as a Model for Studying Skeletal Development. <b>2005</b> , 283-304		
231	Matching catalytic activity to developmental function: tolloid-related processes Sog in order to help specify the posterior crossvein in the <i>Drosophila</i> wing. <i>Development (Cambridge)</i> , <b>2005</b> , 132, 2645-56	6.6	49
230	Twisted gastrulation enhances BMP signaling through chordin dependent and independent mechanisms. <i>Development (Cambridge)</i> , <b>2005</b> , 132, 383-91	6.6	56
229	EFFECTS OF SOG ON DPP-RECEPTOR BINDING. <b>2005</b> , 65, 1748-1771		17
228	GDF11 forms a bone morphogenetic protein 1-activated latent complex that can modulate nerve growth factor-induced differentiation of PC12 cells. <b>2005</b> , 25, 5846-58		121
227	Identification of genes expressed during <i>Drosophila melanogaster</i> gastrulation by using subtractive hybridization. <b>2005</b> , 345, 213-24		10
226	Expression and tissue distribution of astacin-like squid metalloprotease (ALSM). <b>2005</b> , 142, 153-63		5
225	Facilitated transport of a Dpp/Scw heterodimer by Sog/Tsg leads to robust patterning of the <i>Drosophila</i> blastoderm embryo. <i>Cell</i> , <b>2005</b> , 120, 873-86	56.2	242
224	Formation of the BMP activity gradient in the <i>Drosophila</i> embryo. <i>Developmental Cell</i> , <b>2005</b> , 8, 915-24	10.2	143
223	Twisted gastrulation and chordin inhibit differentiation and mineralization in MC3T3-E1 osteoblast-like cells. <b>2005</b> , 36, 617-26		30
222	Long-range Dpp signaling is regulated to restrict BMP signaling to a crossvein competent zone. <i>Developmental Biology</i> , <b>2005</b> , 280, 187-200	3.1	62
221	The crossveinless gene encodes a new member of the Twisted gastrulation family of BMP-binding proteins which, with Short gastrulation, promotes BMP signaling in the crossveins of the <i>Drosophila</i> wing. <i>Developmental Biology</i> , <b>2005</b> , 282, 70-83	3.1	73
220	Endocytosis, endosome trafficking, and the regulation of <i>Drosophila</i> development. <b>2006</b> , 22, 181-206		66
219	bmp1 and mini fin are functionally redundant in regulating formation of the zebrafish dorsoventral axis. <b>2006</b> , 123, 548-58		25
218	The interaction of recombinant subdomains of the procollagen C-proteinase with procollagen I provides a quantitative explanation for functional differences between the two splice variants, mammalian tolloid and bone morphogenetic protein 1. <b>2006</b> , 45, 6741-8		21

217	Temporal and spatial action of tolloid (mini fin) and chordin to pattern tail tissues. <i>Developmental Biology</i> , <b>2006</b> , 293, 191-202	3.1	21
216	Noggin1 and Follistatin-like2 function redundantly to Chordin to antagonize BMP activity. <i>Developmental Biology</i> , <b>2006</b> , 298, 514-26	3.1	87
215	Sea urchin metalloproteases: a genomic survey of the BMP-1/tolloid-like, MMP and ADAM families. <i>Developmental Biology</i> , <b>2006</b> , 300, 267-81	3.1	51
214	At the next stop sign turn right: the metalloprotease Tolloid-related 1 controls defasciculation of motor axons in <i>Drosophila</i> . <i>Development (Cambridge)</i> , <b>2006</b> , 133, 4035-44	6.6	25
213	British Society for Matrix Biology Autumn 2005, 25th anniversary meeting. Abstracts. <b>2006</b> , 87, A1-58		1
212	Sizzled controls dorso-ventral polarity by repressing cleavage of the Chordin protein. <b>2006</b> , 8, 329-38		87
211	Use of differentiating adult stem cells (marrow stromal cells) to identify new downstream target genes for transcription factors. <b>2006</b> , 24, 642-52		17
210	Developmental roles of the BMP1/TLD metalloproteinases. <b>2006</b> , 78, 47-68		116
209	Proteolytic regulatory mechanisms in the formation of extracellular morphogen gradients. <b>2006</b> , 78, 243-55		7
208	Extracellular modulation of BMP activity in patterning the dorsoventral axis. <b>2006</b> , 78, 224-42		81
207	Dorsoventral patterning in hemichordates: insights into early chordate evolution. <b>2006</b> , 4, e291		260
206	Shaping BMP morphogen gradients in the <i>Drosophila</i> embryo and pupal wing. <i>Development (Cambridge)</i> , <b>2006</b> , 133, 183-93	6.6	224
205	The metalloprotease tolloid-related and its TGF-beta-like substrate Dawdle regulate <i>Drosophila</i> motoneuron axon guidance. <i>Development (Cambridge)</i> , <b>2006</b> , 133, 4969-79	6.6	64
204	A complete domain structure of <i>Drosophila</i> tolloid is required for cleavage of short gastrulation. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 13258-13267	5.4	13
203	Characterization of the molecular basis of the <i>Drosophila</i> mutations in carboxypeptidase D. Effect on enzyme activity and expression. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 13844-13852	5.4	17
202	Sog/Chordin is required for ventral-to-dorsal Dpp/BMP transport and head formation in a short germ insect. <b>2006</b> , 103, 16307-12		87
201	Twisted gastrulation modulates bone morphogenetic protein-induced collagen II and X expression in chondrocytes in vitro and in vivo. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 31790-800	5.4	27
200	Robust, bistable patterning of the dorsal surface of the <i>Drosophila</i> embryo. <b>2006</b> , 103, 11613-8		101

199	Bone morphogenetic protein 1 prodomain specifically binds and regulates signaling by bone morphogenetic proteins 2 and 4. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 9053-62	5.4	27
198	Presynaptic contributions of chordin to hippocampal plasticity and spatial learning. <b>2007</b> , 27, 7740-50		47
197	Evolution of the dorsal-ventral patterning network in the mosquito, <i>Anopheles gambiae</i> . <i>Development (Cambridge)</i> , <b>2007</b> , 134, 2415-24	6.6	66
196	The bone morphogenetic protein 1/Tolloid-like metalloproteinases. <i>Matrix Biology</i> , <b>2007</b> , 26, 508-23	11.4	200
195	TGFbeta-SMAD signal transduction: molecular specificity and functional flexibility. <b>2007</b> , 8, 970-82		936
194	A tolloid homologue from the Pacific oyster <i>Crassostrea gigas</i> . <b>2007</b> , 7, 700-8		8
193	The mechanism of sudden stripe formation during dorso-ventral patterning in <i>Drosophila</i> . <b>2007</b> , 54, 179-98		5
192	Computational analysis of BMP gradients in dorsal-ventral patterning of the zebrafish embryo. <b>2007</b> , 248, 579-89		27
191	British Society for Matrix Biology Meeting, London, 18-19 September 2003. <b>2008</b> , 85, A1-A4		
190	Function follows form: how fibronectin matrix architecture controls cell behaviour. <b>2008</b> , 85, A4-A5		
189	The ins and outs of extracellular matrix assembly. <b>2008</b> , 85, A5-A6		
188	Basement membrane and tubular epithelial cell behaviour. <b>2008</b> , 85, A6-A7		
187	Novel mechanisms for regulating the TGF- $\beta$ /Smad-signalling pathway. <b>2008</b> , 85, A7-A7		
186	The role of CTGF in mediating the pathogenesis of diabetic nephropathy. <b>2008</b> , 85, A7-A8		
185	Decorin in renal inflammation and fibrosis - more than an inhibitor of TGF- $\beta$ <b>2008</b> , 85, A8-A8		
184	Matrix-metabolizing enzymes as prime targets of redox regulation by nitric oxide. <b>2008</b> , 85, A9-A9		
183	The role of chemokines in renal fibrosis. <b>2008</b> , 85, A9-A10		
182	The role of hypoxia in fibrosis. <b>2008</b> , 85, A10-A11		

- 181 Models and mechanisms of renal epithelial-mesenchymal transdifferentiation. **2008**, 85, A11-A11
- 180 Regulation of epithelial-mesenchymal transformation in vitro. **2008**, 85, A11-A12
- 179 Regulation of PTC phenotype and function by TGF- $\beta$ : implications for transdifferentiation. **2008**, 85, A12-A12
- 178 Smad-3 as a mediator of the fibrotic response. **2008**, 85, A13-A13 5
- 177 Transgenics, knockouts and fibrosis. **2008**, 85, A13-A14
- 176 Regulation of inflammation and scarring in glomerulonephritis. **2008**, 85, A14-A14
- 175 Tissue-Transglutaminase and the development of renal fibrosis. **2008**, 85, A15-A15
- 174 Emodin ameliorates glucose-induced fibronectin synthesis in human peritoneal mesothelial cells by inhibiting PKC- $\beta$  activation. **2008**, 85, A15-A16
- 173 The human hyaluronan synthase genes: putative mediators of renal fibrosis. **2008**, 85, A16-A17
- 172 Bone morphogenetic protein-1 cleaves procollagen in vitro and in cellulo. **2008**, 85, A17-A17
- 171 Proteomics of tendon ECM assembly. **2008**, 85, A18-A18
- 170 Identification, expression and tissue distribution of the three rat lysyl hydroxylase isoforms. **2008**, 85, A18-A18
- 169 The role of acetylation in Timp-1 regulation. **2008**, 85, A18-A19
- 168 The role of glutamate signalling in rheumatoid arthritis. **2008**, 85, A19-A20 2
- 167 Discovery of potent and selective inhibitors of procollagen C-proteinase for the treatment of fibrotic disorders. **2008**, 85, A20-A21 1
- 166 Gene expression and matrix proteinase activity in osteochondrosis dessicans. **2008**, 85, A20-A20
- 165 Novel strategies for enhancing tissue integration in cartilage repair. **2008**, 85, A21-A22
- 164 Effects of n-3 polyunsaturated fatty acids on COX-2 and PGE2 protein levels in articular cartilage chondrocytes. **2008**, 85, A22-A23 3

- 163 Expression profiling of metalloproteinases and inhibitors in cartilage. **2008**, 85, A23-A23
- 162 ADAMTS-4 and ADAMTS-5 sequestration and activity in chondrocyte-agarose cultures. **2008**, 85, A23-A24
- 161 TGF- $\beta$  promotes the formation of pyridinoline cross-links in fibrosis via the induction of LH2 expression. **2008**, 85, A24-A25
- 160 Regulation of the small GTPase RhoA by syndecan-4 and integrins in focal adhesion formation. **2008**, 85, A25-A25
- 159 TGF- $\beta$  induces epithelial-mesenchymal transition but not myofibroblast transdifferentiation in primary cultures of human epithelial renal tubular cells. **2008**, 85, A25-A26
- 158 Mesangial matrix-activated mononuclear cells express functional scavenger receptors and accumulate intracellular lipid. **2008**, 85, A26-A27
- 157 Decorin affects endothelial cells by interacting with IGF-I and its receptor. **2008**, 85, A27-A27
- 156 Domain deletions outside of the catalytic domain of drosophila tollid result in loss of protease activity. **2008**, 85, A27-A28
- 155 NADPH oxidases and MMP-9/TIMP-1 balance in human glomeruli: putative links to diabetic nephropathy. **2008**, 85, A28-A29
- 154 Up-regulated lactate, TGF- $\beta$  and collagen synthesis in the ischaemic skin of patients with peripheral vascular disease. **2008**, 85, A29-A29
- 153 The importance of elastin and fibulin-5 on spine development: a study of elastin KO and fibulin-5 KO on the development of vertebral body and intervertebral disc. **2008**, 85, A29-A30
- 152 The isoprostane 8-iso-PGF $_2\alpha$  suppresses monocyte adhesion to microvascular endothelial cells: a role in limiting inflammation and fibrosis?. **2008**, 85, A30-A31
- 151 Fluorescence lifetime imaging of articular cartilage. **2008**, 85, A31-A32 1
- 150 Factors affecting oxygen concentration gradients across articular cartilage. **2008**, 85, A32-A32 1
- 149 A novel keratanase-generated keratan sulphate antibody and its applications. **2008**, 85, A32-A33
- 148 Altered patterns of gene expression in endothelial cells in scleroderma. **2008**, 85, A38-A39
- 147 Investigating the PKR-signalling pathway in the articular joint. **2008**, 85, A39-A39
- 146 Characterization of the promoter in ADAMTS-5 (aggrecanase-2). **2008**, 85, A39-A40

145	Identification of cell markers of the nucleus and annulus of bovine intervertebral discs. <b>2008</b> , 85, A40-A41		
144	Type-X collagen interacts with the small leucine-rich proteoglycans decorin and biglycan. <b>2008</b> , 85, A41-A41		
143	Modulation of the expression of connective tissue growth factor (CTGF) by alterations of the cytoskeleton. <b>2008</b> , 85, A42-A42		1
142	Homophilic complex formation is prerequisite for MT1-MMP to degrade type-I collagen on the cell surface. <b>2008</b> , 85, A42-A43		
141	Role of the EGF-like domains in mammalian tolloid (mTLD) secretion and procollagen C-proteinase activity. <b>2008</b> , 85, A43-A44		
140	Age-related changes in the glycosaminoglycans of human meniscal aggrecan. <b>2008</b> , 85, A44-A44		
139	Scaling of the BMP activation gradient in <i>Xenopus</i> embryos. <b>2008</b> , 453, 1205-11		198
138	EvoD/Vo: the origins of BMP signalling in the neuroectoderm. <b>2008</b> , 9, 663-77		75
137	Bridging the gap from frog research to human therapy: a tale of neural differentiation in <i>Xenopus</i> animal caps and human pluripotent cells. <i>Development Growth and Differentiation</i> , <b>2008</b> , 50 Suppl 1, S47-55		6
136	Bone Morphogenetic Protein Receptors and Actions. <b>2008</b> , 1177-1196		1
135	Regulative feedback in pattern formation: towards a general relativistic theory of positional information. <i>Development (Cambridge)</i> , <b>2008</b> , 135, 3175-83	6.6	84
134	Robustness of embryonic spatial patterning in <i>Drosophila melanogaster</i> . <i>Current Topics in Developmental Biology</i> , <b>2008</b> , 81, 65-111	5.3	39
133	Type IV collagens and Dpp: positive and negative regulators of signaling. <b>2008</b> , 2, 313-5		5
132	Molecular determinants of Xolloid action in vivo. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 27057-63	5.4	5
131	Spatial regulation of BMP signaling by patterned receptor expression. <b>2008</b> , 14, 1469-77		19
130	Stem cell fate decisions: the role of heparan sulfate in the control of autocrine and paracrine signals. <b>2008</b> , 3, 1-8		9
129	Systems biology of the self-regulating morphogenetic gradient of the <i>Xenopus</i> gastrula. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2009</b> , 1, a001701	10.2	25
128	Enzymatic regulation of pattern: BMP4 binds CUB domains of Tollolds and inhibits proteinase activity. <i>Genes and Development</i> , <b>2009</b> , 23, 2551-62	12.6	31



127	The extracellular regulation of bone morphogenetic protein signaling. <i>Development (Cambridge)</i> , <b>2009</b> , 136, 3715-28	6.6	159
126	alphaPS1betaPS integrin receptors regulate the differential distribution of Sog fragments in polarized epithelia. <b>2010</b> , 48, 31-43		6
125	Mutations in mammalian tolloid-like 1 gene detected in adult patients with ASD. <b>2009</b> , 17, 344-51		26
124	Changes in tendon extracellular matrix composition with age. <b>2009</b> , 85, A33-A34		2
123	The role of the cytoskeleton in articular cartilage chondrocyte homeostasis. <b>2009</b> , 85, A34-A35		
122	PRG-4/SZP N- and C-terminal domains: cloning, expression and characterization. <b>2009</b> , 85, A35-A36		
121	Matrix-degrading enzyme synthesis by cells isolated from the canine cranial cruciate ligament. <b>2009</b> , 85, A36-A36		
120	Matrix remodelling in the superficial digital flexor tendon of the horse. <b>2009</b> , 85, A37-A37		
119	Controllers of apoptosis in herniated and diseased intervertebral disc. <b>2009</b> , 85, A37-A38		
118	Localized Ectopic Expression of Dpp Receptors in a Drosophila Embryo. <i>Studies in Applied Mathematics</i> , <b>2009</b> , 123, 175-214	2.1	9
117	Intricacies of BMP receptor assembly. <i>Cytokine and Growth Factor Reviews</i> , <b>2009</b> , 20, 367-77	17.9	77
116	Kekkon5 is an extracellular regulator of BMP signaling. <i>Developmental Biology</i> , <b>2009</b> , 326, 36-46	3.1	11
115	Spemann's organizer and the self-regulation of embryonic fields. <b>2009</b> , 126, 925-41		151
114	Extracellular Regulation of Myostatin: A Molecular Rheostat for Muscle Mass. <b>2010</b> , 10, 183-194		67
113	Apparent role of Tribolium orthodenticle in anteroposterior blastoderm patterning largely reflects novel functions in dorsoventral axis formation and cell survival. <i>Development (Cambridge)</i> , <b>2010</b> , 137, 1853-62	6.6	37
112	Systems Approaches to Developmental Patterning. <b>2010</b> , 329-350		1
111	Specific processing of tenascin-C by the metalloprotease mepribeta neutralizes its inhibition of cell spreading. <i>Matrix Biology</i> , <b>2010</b> , 29, 31-42	11.4	33
110	The Drosophila LEM-domain protein MAN1 antagonizes BMP signaling at the neuromuscular junction and the wing crossveins. <i>Developmental Biology</i> , <b>2010</b> , 339, 1-13	3.1	18

109	Zebrafish chordin-like and chordin are functionally redundant in regulating patterning of the dorsoventral axis. <i>Developmental Biology</i> , <b>2010</b> , 341, 444-58	3.1	19
108	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> , <b>2010</b> , 345, 80-93	3.1	28
107	Morphogen gradients: from generation to interpretation. <b>2011</b> , 27, 377-407		372
106	Shaping BMP morphogen gradients through enzyme-substrate interactions. <i>Developmental Cell</i> , <b>2011</b> , 21, 375-83	10.2	31
105	Systems control of BMP morphogen flow in vertebrate embryos. <i>Current Opinion in Genetics and Development</i> , <b>2011</b> , 21, 696-703	4.9	38
104	Secreted Wnt "inhibitors" are not just inhibitors: regulation of extracellular Wnt by secreted Frizzled-related proteins. <i>Development Growth and Differentiation</i> , <b>2011</b> , 53, 911-23	3	74
103	BMP signaling components in embryonic transcriptomes of the hover fly <i>Episyrphus balteatus</i> (Syrphidae). <b>2011</b> , 12, 278		11
102	Position matters: variability in the spatial pattern of BMP modulators generates functional diversity. <b>2011</b> , 49, 698-718		14
101	Metalloproteinases in <i>Drosophila</i> to humans that are central players in developmental processes. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 41905-41911	5.4	32
100	Feedback regulation of <i>Drosophila</i> BMP signaling by the novel extracellular protein larval translucida. <i>Development (Cambridge)</i> , <b>2011</b> , 138, 715-24	6.6	30
99	Procollagen C-proteinase enhancer stimulates procollagen processing by binding to the C-propeptide region only. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 38932-8	5.4	37
98	BMP-dependent serosa and amnion specification in the scuttle fly <i>Megaselia abdita</i> . <i>Development (Cambridge)</i> , <b>2012</b> , 139, 3373-82	6.6	31
97	Multistep molecular mechanism for bone morphogenetic protein extracellular transport in the <i>Drosophila</i> embryo. <b>2012</b> , 109, 11222-7		41
96	6.4 Roles and regulation of BMP1/Tolloid-like proteinases: collagen/matrix assembly, growth factor activation, and beyond.		3
95	The Ly6 neurotoxin-like molecule target of wit regulates spontaneous neurotransmitter release at the developing neuromuscular junction in <i>Drosophila</i> . <i>Developmental Neurobiology</i> , <b>2012</b> , 72, 1541-58	3.2	23
94	Relay of retrograde synaptogenic signals through axonal transport of BMP receptors. <i>Journal of Cell Science</i> , <b>2012</b> , 125, 3752-64	5.3	41
93	Regulation of Insect Development by TGF- $\beta$ Signaling. <b>2012</b> , 450-479		1
92	BMP-Smad 1/5/8 signalling in the development of the nervous system. <i>Progress in Neurobiology</i> , <b>2013</b> , 109, 28-41	10.9	101

91	Fine-tuned shuttles for bone morphogenetic proteins. <i>Current Opinion in Genetics and Development</i> , <b>2013</b> , 23, 374-84	4.9	21
90	Creating gradients by morphogen shuttling. <i>Trends in Genetics</i> , <b>2013</b> , 29, 339-47	8.5	33
89	Scaling of dorsal-ventral patterning by embryo size-dependent degradation of Spemann's organizer signals. <i>Cell</i> , <b>2013</b> , 153, 1296-311	56.2	86
88	Analysis of soluble protein contents from the nematocysts of a model sea anemone sheds light on venom evolution. <i>Marine Biotechnology</i> , <b>2013</b> , 15, 329-39	3.4	73
87	The zebrafish as a model of vascular development and disease. <i>Progress in Molecular Biology and Translational Science</i> , <b>2014</b> , 124, 93-122	4	41
86	Developmental Biology of Size. <i>Seibutsu Butsuri</i> , <b>2014</b> , 54, 140-145	0	
85	Organizer-derived Bmp2 is required for the formation of a correct Bmp activity gradient during embryonic development. <i>Nature Communications</i> , <b>2014</b> , 5, 3766	17.4	23
84	Papp-a2 modulates development of cranial cartilage and angiogenesis in zebrafish embryos. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 5027-37	5.3	21
83	Components of the dorsal-ventral pathway also contribute to anterior-posterior patterning in honeybee embryos ( <i>Apis mellifera</i> ). <i>EvoDevo</i> , <b>2014</b> , 5, 11	3.2	26
82	Scaling of dorsal-ventral patterning in the <i>Xenopus laevis</i> embryo. <i>BioEssays</i> , <b>2014</b> , 36, 151-6	4.1	21
81	Nodal-Gdf1 heterodimers with bound prodomains enable serum-independent nodal signaling and endoderm differentiation. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 17854-71	5.4	30
80	Mad linker phosphorylations control the intensity and range of the BMP-activity gradient in developing <i>Drosophila</i> tissues. <i>Scientific Reports</i> , <b>2014</b> , 4, 6927	4.9	12
79	Signaling Cascades, Gradients, and Gene Networks in Dorsal/Ventral Patterning. <b>2015</b> , 131-151		0
78	BMP-1/tolloid-like proteinases synchronize matrix assembly with growth factor activation to promote morphogenesis and tissue remodeling. <i>Matrix Biology</i> , <b>2015</b> , 44-46, 14-23	11.4	92
77	EMBRYO DEVELOPMENT. BMP gradients: A paradigm for morphogen-mediated developmental patterning. <i>Science</i> , <b>2015</b> , 348, aaa5838	33.3	167
76	Mammalian tolloid proteinases: role in growth factor signalling. <i>FEBS Letters</i> , <b>2016</b> , 590, 2398-407	3.8	6
75	Agonists and Antagonists of TGF- $\beta$ Family Ligands. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2016</b> , 8,	10.2	51
74	Diversity between mammalian tolloid proteinases: Oligomerisation and non-catalytic domains influence activity and specificity. <i>Scientific Reports</i> , <b>2016</b> , 6, 21456	4.9	6

73	Bone Morphogenetic Proteins. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2016</b> , 8,	10.2	217
72	Deadly Innovations: Unraveling the Molecular Evolution of Animal Venoms. <b>2016</b> , 1-27		8
71	BMP morphogen gradients in flies. <i>Cytokine and Growth Factor Reviews</i> , <b>2016</b> , 27, 119-27	17.9	23
70	Scaling of pattern formations and morphogen gradients. <i>Development Growth and Differentiation</i> , <b>2017</b> , 59, 41-51	3	18
69	TGF- $\beta$ Family Signaling in. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2017</b> , 9,	10.2	37
68	Control of signaling molecule range during developmental patterning. <i>Cellular and Molecular Life Sciences</i> , <b>2017</b> , 74, 1937-1956	10.3	14
67	A facilitated diffusion mechanism establishes the Dorsal gradient. <i>Development (Cambridge)</i> , <b>2017</b> , 144, 4450-4461	6.6	12
66	Role of BMP1/Tolloid like Proteases in Bone Morphogenesis and Tissue Remodeling. <b>2017</b> , 77-88		1
65	Alternative cleavage of the bone morphogenetic protein (BMP), Gbb, produces ligands with distinct developmental functions and receptor preferences. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 19160-19178	5.1	12
64	Non-canonical dorsoventral patterning in the moth midge. <i>EvoDevo</i> , <b>2017</b> , 8, 20	3.2	4
63	A mathematical model of Noggin and BMP densities in adult neural stem cells. <i>Letters in Biomathematics</i> , <b>2017</b> , 4, 219-243	1.1	
62	A Developmental Program Truncates Long Transcripts to Temporally Regulate Cell Signaling. <i>Developmental Cell</i> , <b>2018</b> , 47, 773-784.e6	10.2	12
61	N-linked glycosylation restricts the function of Short gastrulation to bind and shuttle BMPs. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	4
60	Scale invariance of BMP signaling gradients in zebrafish. <i>Scientific Reports</i> , <b>2019</b> , 9, 5440	4.9	6
59	Coacting enhancers can have complementary functions within gene regulatory networks and promote canalization. <i>PLoS Genetics</i> , <b>2019</b> , 15, e1008525	6	7
58	Bone morphogenetic proteins: New insights into their roles and mechanisms in CNS development, pathology and repair. <i>Experimental Neurology</i> , <b>2020</b> , 334, 113455	5.7	8
57	Proteolytic Restriction of Chordin Range Underlies BMP Gradient Formation. <i>Cell Reports</i> , <b>2020</b> , 32, 1080396	10.3	5
56	BMP-1 disrupts cell adhesion and enhances TGF- $\beta$ activation through cleavage of the matricellular protein thrombospondin-1. <i>Science Signaling</i> , <b>2020</b> , 13,	8.8	11

55	Mechanism and implications of morphogen shuttling: Lessons learned from dorsal and Cactus in <i>Drosophila</i> . <i>Developmental Biology</i> , <b>2020</b> , 461, 13-18	3.1	0
54	Formation, interpretation, and regulation of the <i>Drosophila</i> Dorsal/NF- $\kappa$ B gradient. <i>Current Topics in Developmental Biology</i> , <b>2020</b> , 137, 143-191	5.3	4
53	Extracellular BMP1 is the major proteinase for COOH-terminal proteolysis of type I procollagen in lung fibroblasts. <i>American Journal of Physiology - Cell Physiology</i> , <b>2021</b> , 320, C162-C174	5.4	2
52	Spatially varying multifeedback for robust signaling. <i>Studies in Applied Mathematics</i> , <b>2021</b> , 147, 1058-1088	5.4	1
51	Deadly Innovations: Unraveling the Molecular Evolution of Animal Venoms. <b>2014</b> , 1-23		1
50	Can morphogen activity be enhanced by its inhibitors?. <b>2003</b> , 1729-1733		2
49	Lineages That Give Rise to Endoderm and Mesoderm in the Sea Urchin Embryo. <b>1999</b> , 41-57		3
48	Homologies of Process and Modular Elements of Embryonic Construction. <b>2001</b> , 435-454		6
47	Identification of chromosomal regions involved in decapentaplegic function in <i>Drosophila</i> . <i>Genetics</i> , <b>1998</b> , 149, 203-15	4	12
46	Controlling TGF- $\beta$ signaling. <i>Genes and Development</i> , <b>2000</b> , 14, 627-644	12.6	879
45	Failure of ventral closure and axial rotation in embryos lacking the proprotein convertase Furin. <i>Development (Cambridge)</i> , <b>1998</b> , 125, 4863-4876	6.6	222
44	The mammalian Tolloid-like 1 gene, Tll1, is necessary for normal septation and positioning of the heart. <i>Development (Cambridge)</i> , <b>1999</b> , 126, 2631-2642	6.6	92
43	The role of tolloid/mini fin in dorsoventral pattern formation of the zebrafish embryo. <i>Development (Cambridge)</i> , <b>1999</b> , 126, 3119-3130	6.6	99
42	The role of brinker in mediating the graded response to Dpp in early <i>Drosophila</i> embryos. <i>Development (Cambridge)</i> , <b>1999</b> , 126, 3323-3334	6.6	115
41	Identification and characterization of hydra metalloproteinase 2 (HMP2): a meprin-like astacin metalloproteinase that functions in foot morphogenesis. <i>Development (Cambridge)</i> , <b>2000</b> , 127, 129-141	6.6	64
40	Processing of the <i>Drosophila</i> Sog protein creates a novel BMP inhibitory activity. <i>Development (Cambridge)</i> , <b>2000</b> , 127, 2143-2154	6.6	78
39	Dpp signaling thresholds in the dorsal ectoderm of the <i>Drosophila</i> embryo. <i>Development (Cambridge)</i> , <b>2000</b> , 127, 3305-3312	6.6	88
38	Crossveinless 2 contains cysteine-rich domains and is required for high levels of BMP-like activity during the formation of the cross veins in <i>Drosophila</i> . <i>Development (Cambridge)</i> , <b>2000</b> , 127, 3947-3959	6.6	119

37	BMP-binding modules in chordin: a model for signalling regulation in the extracellular space. <i>Development (Cambridge)</i> , <b>2000</b> , 127, 821-830	6.6	183
36	A positive role for Short gastrulation in modulating BMP signaling during dorsoventral patterning in the <i>Drosophila</i> embryo. <i>Development (Cambridge)</i> , <b>2001</b> , 128, 3831-3841	6.6	44
35	Proteolytic cleavage of Chordin as a switch for the dual activities of Twisted gastrulation in BMP signaling. <i>Development (Cambridge)</i> , <b>2001</b> , 128, 4439-4447	6.6	109
34	Biphasic activation of the BMP pathway patterns the <i>Drosophila</i> embryonic dorsal region. <i>Development (Cambridge)</i> , <b>2001</b> , 128, 965-972	6.6	89
33	Evolution of the TGF- $\beta$ signaling pathway and its potential role in the ctenophore, <i>Mnemiopsis leidyi</i> . <i>PLoS ONE</i> , <b>2011</b> , 6, e24152	3.7	70
32	Synthetic enzyme-substrate tethering obviates the Tolloid-ECM interaction during <i>Drosophila</i> BMP gradient formation. <i>ELife</i> , <b>2015</b> , 4,	8.9	12
31	Systems biology derived source-sink mechanism of BMP gradient formation. <i>ELife</i> , <b>2017</b> , 6,	8.9	54
30	Embryonic patterning of <i>Xenopus</i> mesoderm by Bmp-4. <i>Ernst Schering Research Foundation Workshop</i> , <b>2000</b> , 165-90		
29	Bone Morphogenetic Protein Receptors and Actions. <b>2002</b> , 929-942		
28	Decapentaplegic.		
27	Morphogens.		
26	Mammalian tolloid-like peptidases. <b>2004</b> , 621-623		1
25	Control of Development and Homeostasis Via Regulation of BMP, Wnt, and Hedgehog Signaling. <b>2004</b> , 113-130		
24	Tolloid ( <i>Drosophila</i> ). <b>2004</b> , 617-620		
23	Twisted Gastrulation Modulates Bone Morphogenetic Protein-induced Collagen II and X Expression in Chondrocytes in Vitro and in Vivo. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 31790-31800	5.4	2
22	Mammalian Tolloid-like Peptidases. <b>2013</b> , 936-942		
21	Tolloid ( <i>Drosophila</i> ). <b>2013</b> , 932-936		
20	Cell-associated metalloproteinases. <b>1999</b> , 73-93		3

19	A Facilitated Diffusion Mechanism Establishes the Drosophila Dorsal Gradient.		1
18	Alternative cleavage of a bone morphogenetic protein (BMP) produces ligands with distinct developmental functions and receptor preference.		
17	N-linked glycosylation of the antagonist Short gastrulation increases the functional complexity of BMP signals.		
16	Shuttling of Dorsal by Cactus: mechanism and implications.		
15	Positionsinformation, Musterbildung und embryonale Induktion. <b>2006</b> , 321-378		
14	Entwicklung bedeutsamer Modellorganismen I: Wirbellose. <b>2006</b> , 41-113		
13	Wnts, Signaling and Sulfates. <i>Science Signaling</i> , <b>2001</b> , 2001, pe32-pe32	8.8	
12	TGF-beta1 in Aplysia: role in long-term changes in the excitability of sensory neurons and distribution of TbetaR-II-like immunoreactivity. <i>Learning and Memory</i> , <b>1999</b> , 6, 317-30	2.8	25
11	cDNA cloning, bacterial expression, in vitro renaturation and affinity purification of the zinc endopeptidase astacin. <i>Biochemical Journal</i> , <b>1999</b> , 344 Pt 3, 851-7	3.8	6
10	Proteolytic cleavage of Chordin as a switch for the dual activities of Twisted gastrulation in BMP signaling. <i>Development (Cambridge)</i> , <b>2001</b> , 128, 4439-47	6.6	63
9	BMP-binding modules in chordin: a model for signalling regulation in the extracellular space. <i>Development (Cambridge)</i> , <b>2000</b> , 127, 821-30	6.6	84
8	Molecular mechanisms of cell-cell signaling by the Spemann-Mangold organizer. <i>International Journal of Developmental Biology</i> , <b>2001</b> , 45, 189-97	1.9	32
7	TGF- $\beta$ 1 in Aplysia: Role in Long-Term Changes in the Excitability of Sensory Neurons and Distribution of T $\beta$ -II-Like Immunoreactivity. <i>Learning and Memory</i> , <b>1999</b> , 6, 317-330	2.8	40
6	Procollagen C-proteinase and its enhancer protein as regulators of collagen fibril formation and matrix deposition. <i>Journal of Chemical Sciences</i> , <b>1999</b> , 111, 197-205	1.8	5
5	Expression and Function of Toll Pathway Components in the Early Development of the Wasp .. <i>Journal of Developmental Biology</i> , <b>2022</b> , 10,	3.5	
4	Modelling the structure of Short Gastrulation and generation of a toolkit for studying its function in Drosophila.		
3	Modelling the structure of Short Gastrulation and generation of a toolkit for studying its function in Drosophila. <i>Biology Open</i> ,	2.2	0
2	The Role of Bone Morphogenetic Protein Receptor Type 2 (BMPR2) and the Prospects of Utilizing Induced Pluripotent Stem Cells (iPSCs) in Pulmonary Arterial Hypertension Disease Modeling. <b>2022</b> , 11, 3823		0

- 1 Decapentaplegic retards lipolysis during metamorphosis in *Bombyx mori* and *Drosophila melanogaster*. **2023**, 155, 103928

o