

Richard A Lang

List of Publications by Citations

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

137 papers	16,046 citations	63 h-index	126 g-index
146 ext. papers	17,712 ext. citations	9.2 avg, IF	6.11 L-index

#	Paper	IF	Citations
137	In vivo depletion of CD11c+ dendritic cells abrogates priming of CD8+ T cells by exogenous cell-associated antigens. <i>Immunity</i> , 2002 , 17, 211-20	32.3	1445
136	Canonical Wnt signaling in differentiated osteoblasts controls osteoclast differentiation. <i>Developmental Cell</i> , 2005 , 8, 751-64	10.2	1242
135	Selective depletion of macrophages reveals distinct, opposing roles during liver injury and repair. <i>Journal of Clinical Investigation</i> , 2005 , 115, 56-65	15.9	1092
134	Cbfa1-independent decrease in osteoblast proliferation, osteopenia, and persistent embryonic eye vascularization in mice deficient in Lrp5, a Wnt coreceptor. <i>Journal of Cell Biology</i> , 2002 , 157, 303-14	7.3	942
133	Selective depletion of macrophages reveals distinct, opposing roles during liver injury and repair. <i>Journal of Clinical Investigation</i> , 2005 , 115, 56-65	15.9	702
132	Angiopoietin-2 displays VEGF-dependent modulation of capillary structure and endothelial cell survival in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 11205-10	11.5	521
131	Early eye development in vertebrates. <i>Annual Review of Cell and Developmental Biology</i> , 2001 , 17, 255-96	2.6	500
130	A distinct macrophage population mediates metastatic breast cancer cell extravasation, establishment and growth. <i>PLoS ONE</i> , 2009 , 4, e6562	3.7	475
129	Transgenic mice expressing a hemopoietic growth factor gene (GM-CSF) develop accumulations of macrophages, blindness, and a fatal syndrome of tissue damage. <i>Cell</i> , 1987 , 51, 675-86	56.2	343
128	WNT7b mediates macrophage-induced programmed cell death in patterning of the vasculature. <i>Nature</i> , 2005 , 437, 417-21	50.4	335
127	Macrophages are required for cell death and tissue remodeling in the developing mouse eye. <i>Cell</i> , 1993 , 74, 453-62	56.2	308
126	Macrophage Wnt7b is critical for kidney repair and regeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4194-9	11.5	307
125	Nrarp coordinates endothelial Notch and Wnt signaling to control vessel density in angiogenesis. <i>Developmental Cell</i> , 2009 , 16, 70-82	10.2	278
124	Expression of a hemopoietic growth factor cDNA in a factor-dependent cell line results in autonomous growth and tumorigenicity. <i>Cell</i> , 1985 , 43, 531-42	56.2	263
123	Distinct functions for Wnt/ β -catenin in hair follicle stem cell proliferation and survival and interfollicular epidermal homeostasis. <i>Cell Stem Cell</i> , 2013 , 13, 720-33	18	207
122	Monocyte/macrophage suppression in CD11b diphtheria toxin receptor transgenic mice differentially affects atherogenesis and established plaques. <i>Circulation Research</i> , 2007 , 100, 884-93	15.7	206
121	Regulation of angiogenesis by a non-canonical Wnt-Flt1 pathway in myeloid cells. <i>Nature</i> , 2011 , 474, 511-5	50.4	204

120	Conditional ablation of macrophages halts progression of crescentic glomerulonephritis. <i>American Journal of Pathology</i> , 2005 , 167, 1207-19	5.8	201
119	Conditional macrophage ablation demonstrates that resident macrophages initiate acute peritoneal inflammation. <i>Journal of Immunology</i> , 2005 , 174, 2336-42	5.3	200
118	Lens induction by Pax-6 in <i>Xenopus laevis</i> . <i>Developmental Biology</i> , 1997 , 185, 119-23	3.1	164
117	Discovery and characterization of a small molecule inhibitor of the PDZ domain of dishevelled. <i>Journal of Biological Chemistry</i> , 2009 , 284, 16256-16263	5.4	154
116	A two-way communication between microglial cells and angiogenic sprouts regulates angiogenesis in aortic ring cultures. <i>PLoS ONE</i> , 2011 , 6, e15846	3.7	153
115	Dermal Ectenin activity in response to epidermal Wnt ligands is required for fibroblast proliferation and hair follicle initiation. <i>Development (Cambridge)</i> , 2012 , 139, 1522-33	6.6	150
114	Ectenin signaling in murine liver zonation and regeneration: a Wnt-Wnt situation!. <i>Hepatology</i> , 2014 , 60, 964-76	11.2	144
113	LRP-6 is a coreceptor for multiple fibrogenic signaling pathways in pericytes and myofibroblasts that are inhibited by DKK-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1440-5	11.5	142
112	Pathways regulating lens induction in the mouse. <i>International Journal of Developmental Biology</i> , 2004 , 48, 783-91	1.9	140
111	A direct and melanopsin-dependent fetal light response regulates mouse eye development. <i>Nature</i> , 2013 , 494, 243-6	50.4	139
110	Differential interactions of FGFs with heparan sulfate control gradient formation and branching morphogenesis. <i>Science Signaling</i> , 2009 , 2, ra55	8.8	134
109	Sox2 is required for maintenance and differentiation of bronchiolar Clara, ciliated, and goblet cells. <i>PLoS ONE</i> , 2009 , 4, e8248	3.7	133
108	HIPPO pathway members restrict SOX2 to the inner cell mass where it promotes ICM fates in the mouse blastocyst. <i>PLoS Genetics</i> , 2014 , 10, e1004618	6	132
107	FLT1 signaling in metastasis-associated macrophages activates an inflammatory signature that promotes breast cancer metastasis. <i>Journal of Experimental Medicine</i> , 2015 , 212, 1433-48	16.6	129
106	A highly conserved lens transcriptional control element from the Pax-6 gene. <i>Mechanisms of Development</i> , 1998 , 73, 225-9	1.7	125
105	The duality of beta-catenin function: a requirement in lens morphogenesis and signaling suppression of lens fate in periocular ectoderm. <i>Developmental Biology</i> , 2005 , 285, 477-89	3.1	125
104	Myeloid WNT7b mediates the angiogenic switch and metastasis in breast cancer. <i>Cancer Research</i> , 2014 , 74, 2962-73	10.1	122
103	Wntless functions in mature osteoblasts to regulate bone mass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E2197-204	11.5	118

102	Generation of mice with a conditional null allele for Wntless. <i>Genesis</i> , 2010 , 48, 554-8	1.9	113
101	Metchnikoff's policemen: macrophages in development, homeostasis and regeneration. <i>Trends in Molecular Medicine</i> , 2011 , 17, 743-52	11.5	109
100	Fgf receptor signaling plays a role in lens induction. <i>Development (Cambridge)</i> , 2001 , 128, 4425-4438	6.6	108
99	Macrophages define dermal lymphatic vessel calibre during development by regulating lymphatic endothelial cell proliferation. <i>Development (Cambridge)</i> , 2010 , 137, 3899-910	6.6	105
98	Bmp signaling is required for development of primary lens fiber cells. <i>Development (Cambridge)</i> , 2002 , 129, 3727-3737	6.6	105
97	Balanced Rac1 and RhoA activities regulate cell shape and drive invagination morphogenesis in epithelia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18289-94	11.5	104
96	YAP/TAZ-CDC42 signaling regulates vascular tip cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 10918-10923	11.5	97
95	Co-operative roles for E-cadherin and N-cadherin during lens vesicle separation and lens epithelial cell survival. <i>Developmental Biology</i> , 2009 , 326, 403-17	3.1	97
94	Non-canonical Wnt signalling modulates the endothelial shear stress flow sensor in vascular remodelling. <i>ELife</i> , 2016 , 5, e07727	8.9	92
93	Pax6 is essential for lens fiber cell differentiation. <i>Development (Cambridge)</i> , 2009 , 136, 2567-78	6.6	91
92	Pax6-dependent Shroom3 expression regulates apical constriction during lens placode invagination. <i>Development (Cambridge)</i> , 2010 , 137, 405-15	6.6	90
91	Loss of RhoA in neural progenitor cells causes the disruption of adherens junctions and hyperproliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7607-12	11.5	86
90	A Trio-RhoA-Shroom3 pathway is required for apical constriction and epithelial invagination. <i>Development (Cambridge)</i> , 2011 , 138, 5177-88	6.6	85
89	Stage-dependent modes of Pax6-Sox2 epistasis regulate lens development and eye morphogenesis. <i>Development (Cambridge)</i> , 2009 , 136, 2977-85	6.6	83
88	Obligatory participation of macrophages in an angiopoietin 2-mediated cell death switch. <i>Development (Cambridge)</i> , 2007 , 134, 4449-58	6.6	82
87	Neurospins (OPN5)-mediated photoentrainment of local circadian oscillators in mammalian retina and cornea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13093-8	11.5	81
86	Canonical Wnt signaling negatively regulates branching morphogenesis of the lung and lacrimal gland. <i>Developmental Biology</i> , 2005 , 286, 270-86	3.1	81
85	Autocrine growth factors and tumourigenic transformation. <i>Trends in Immunology</i> , 1990 , 11, 244-9		80

84	The Eyes Absent phosphatase-transactivator proteins promote proliferation, transformation, migration, and invasion of tumor cells. <i>Oncogene</i> , 2010 , 29, 3715-22	9.2	79
83	Cdc42- and IRSp53-dependent contractile filopodia tether presumptive lens and retina to coordinate epithelial invagination. <i>Development (Cambridge)</i> , 2009 , 136, 3657-67	6.6	74
82	Tyrosine phosphorylation sites on FRS2alpha responsible for Shp2 recruitment are critical for induction of lens and retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 17144-9	11.5	73
81	The upstream ectoderm enhancer in Pax6 has an important role in lens induction. <i>Development (Cambridge)</i> , 2001 , 128, 4415-4424	6.6	72
80	GRIFIN, a novel lens-specific protein related to the galectin family. <i>Journal of Biological Chemistry</i> , 1998 , 273, 28889-96	5.4	71
79	Stem cell factor Sox2 and its close relative Sox3 have differentiation functions in oligodendrocytes. <i>Development (Cambridge)</i> , 2014 , 141, 39-50	6.6	70
78	Pygo1 and Pygo2 roles in Wnt signaling in mammalian kidney development. <i>BMC Biology</i> , 2007 , 5, 15	7.3	70
77	RhoA protects the mouse heart against ischemia/reperfusion injury. <i>Journal of Clinical Investigation</i> , 2011 , 121, 3269-76	15.9	67
76	Endogenous and ectopic gland induction by FGF-10. <i>Developmental Biology</i> , 2000 , 225, 188-200	3.1	65
75	Do macrophages kill through apoptosis?. <i>Trends in Immunology</i> , 1996 , 17, 573-6		65
74	pygopus 2 has a crucial, Wnt pathway-independent function in lens induction. <i>Development (Cambridge)</i> , 2007 , 134, 1873-85	6.6	61
73	Apoptosis in mammalian eye development: lens morphogenesis, vascular regression and immune privilege. <i>Cell Death and Differentiation</i> , 1997 , 4, 12-20	12.7	60
72	Bmp signaling is required for development of primary lens fiber cells. <i>Development (Cambridge)</i> , 2002 , 129, 3727-37	6.6	58
71	RhoA GTPase is dispensable for actomyosin regulation but is essential for mitosis in primary mouse embryonic fibroblasts. <i>Journal of Biological Chemistry</i> , 2011 , 286, 15132-7	5.4	57
70	Resident pleural macrophages are key orchestrators of neutrophil recruitment in pleural inflammation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006 , 173, 540-7	10.2	57
69	Misexpression of IGF-I in the mouse lens expands the transitional zone and perturbs lens polarization. <i>Mechanisms of Development</i> , 2001 , 101, 167-74	1.7	57
68	Wnt2 regulates progenitor proliferation in the developing ventral midbrain. <i>Journal of Biological Chemistry</i> , 2010 , 285, 7246-53	5.4	54
67	Bmp7 regulates branching morphogenesis of the lacrimal gland by promoting mesenchymal proliferation and condensation. <i>Development (Cambridge)</i> , 2004 , 131, 4155-65	6.6	52

66	Wntless is required for peripheral lung differentiation and pulmonary vascular development. <i>Developmental Biology</i> , 2013 , 379, 38-52	3.1	50
65	High calorie diet triggers hypothalamic angiopathy. <i>Molecular Metabolism</i> , 2012 , 1, 95-100	8.8	45
64	Distinct regulatory elements govern Fgf4 gene expression in the mouse blastocyst, myotomes, and developing limb. <i>Developmental Biology</i> , 1998 , 204, 197-209	3.1	45
63	Macrophage Wnt-Calcineurin-Flt1 signaling regulates mouse wound angiogenesis and repair. <i>Blood</i> , 2013 , 121, 2574-8	2.2	43
62	Shroom3 and a Pitx2-N-cadherin pathway function cooperatively to generate asymmetric cell shape changes during gut morphogenesis. <i>Developmental Biology</i> , 2011 , 357, 227-34	3.1	43
61	Rac1 GTPase-deficient mouse lens exhibits defects in shape, suture formation, fiber cell migration and survival. <i>Developmental Biology</i> , 2011 , 360, 30-43	3.1	41
60	Loss of Macrophage Wnt Secretion Improves Remodeling and Function After Myocardial Infarction in Mice. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	40
59	Neurospine (OPN5) Mediates Local Light-Dependent Induction of Circadian Clock Genes and Circadian Photoentrainment in Exposed Murine Skin. <i>Current Biology</i> , 2019 , 29, 3478-3487.e4	6.3	39
58	Crim1 maintains retinal vascular stability during development by regulating endothelial cell Vegfa autocrine signaling. <i>Development (Cambridge)</i> , 2014 , 141, 448-59	6.6	38
57	Wnt ligands from the embryonic surface ectoderm regulate Rbimetallic stripOptic cup morphogenesis in mouse. <i>Development (Cambridge)</i> , 2015 , 142, 972-82	6.6	37
56	The EYA tyrosine phosphatase activity is pro-angiogenic and is inhibited by benzbromarone. <i>PLoS ONE</i> , 2012 , 7, e34806	3.7	36
55	p120-catenin-dependent junctional recruitment of Shroom3 is required for apical constriction during lens pit morphogenesis. <i>Development (Cambridge)</i> , 2014 , 141, 3177-87	6.6	35
54	Optic cup and facial patterning defects in ocular ectoderm beta-catenin gain-of-function mice. <i>BMC Developmental Biology</i> , 2006 , 6, 14	3.1	33
53	Mitogen-activated protein kinase kinase kinase 1 (MAP3K1) integrates developmental signals for eyelid closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17349-54	11.5	32
52	Violet-light suppression of thermogenesis by opsin 5 hypothalamic neurons. <i>Nature</i> , 2020 , 585, 420-425	50.4	32
51	RhoA GTPase controls cytokinesis and programmed necrosis of hematopoietic progenitors. <i>Journal of Experimental Medicine</i> , 2013 , 210, 2371-85	16.6	29
50	Distinct requirements for cranial ectoderm and mesenchyme-derived wnts in specification and differentiation of osteoblast and dermal progenitors. <i>PLoS Genetics</i> , 2014 , 10, e1004152	6	29
49	Gene targeting RhoA reveals its essential role in coordinating mitochondrial function and thymocyte development. <i>Journal of Immunology</i> , 2014 , 193, 5973-82	5.3	28

48	RhoA of the Rho family small GTPases is essential for B lymphocyte development. <i>PLoS ONE</i> , 2012 , 7, e33773	3.7	28
47	An opsin 5-dopamine pathway mediates light-dependent vascular development in the eye. <i>Nature Cell Biology</i> , 2019 , 21, 420-429	23.4	26
46	WNT5A inhibits hepatocyte proliferation and concludes Eatenin signaling in liver regeneration. <i>American Journal of Pathology</i> , 2015 , 185, 2194-205	5.8	26
45	Adaptive Thermogenesis in Mice Is Enhanced by Opsin 3-Dependent Adipocyte Light Sensing. <i>Cell Reports</i> , 2020 , 30, 672-686.e8	10.6	26
44	CRIM1 haploinsufficiency causes defects in eye development in human and mouse. <i>Human Molecular Genetics</i> , 2015 , 24, 2267-73	5.6	23
43	Crim1 regulates integrin signaling in murine lens development. <i>Development (Cambridge)</i> , 2016 , 143, 356-66	6.6	23
42	Deletion of Wntless in myeloid cells exacerbates liver fibrosis and the ductular reaction in chronic liver injury. <i>Fibrogenesis and Tissue Repair</i> , 2015 , 8, 19		22
41	Macrophage products IL-1 alpha, TNF alpha and bFGF may mediate multiple cytopathic effects in the developing eyes of GM-CSF transgenic mice. <i>Experimental Eye Research</i> , 1990 , 51, 335-44	3.7	22
40	Length of day during early gestation as a predictor of risk for severe retinopathy of prematurity. <i>Ophthalmology</i> , 2013 , 120, 2706-2713	7.3	21
39	Eye formation in the absence of retina. <i>Developmental Biology</i> , 2008 , 322, 56-64	3.1	21
38	Mesenchymal Wnt signaling promotes formation of sternum and thoracic body wall. <i>Developmental Biology</i> , 2015 , 401, 264-75	3.1	19
37	CRIM1 complexes with Eatenin and cadherins, stabilizes cell-cell junctions and is critical for neural morphogenesis. <i>PLoS ONE</i> , 2012 , 7, e32635	3.7	19
36	Developmental ocular disease in GM-CSF transgenic mice is mediated by autostimulated macrophages. <i>Developmental Biology</i> , 1989 , 134, 119-29	3.1	19
35	Epithelial morphogenesis: the mouse eye as a model system. <i>Current Topics in Developmental Biology</i> , 2015 , 111, 375-99	5.3	18
34	Developmental vascular regression is regulated by a Wnt/Eatenin, MYC and CDKN1A pathway that controls cell proliferation and cell death. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	17
33	Rap1 GTPase is required for mouse lens epithelial maintenance and morphogenesis. <i>Developmental Biology</i> , 2015 , 406, 74-91	3.1	16
32	RhoA and Cdc42 are required in pre-migratory progenitors of the medial ganglionic eminence ventricular zone for proper cortical interneuron migration. <i>Development (Cambridge)</i> , 2013 , 140, 3139-45	6.6	16
31	Left-right locomotor circuitry depends on RhoA-driven organization of the neuroepithelium in the developing spinal cord. <i>Journal of Neuroscience</i> , 2012 , 32, 10396-407	6.6	16

30	Which FGF ligands are involved in lens induction?. <i>Developmental Biology</i> , 2010 , 337, 195-8	3.1	14
29	The Eyes Absent Proteins in Developmental and Pathological Angiogenesis. <i>American Journal of Pathology</i> , 2016 , 186, 568-78	5.8	13
28	Monocyte-derived Wnt5a regulates inflammatory lymphangiogenesis. <i>Cell Research</i> , 2016 , 26, 262-5	24.7	13
27	Myeloid Wnt ligands are required for normal development of dermal lymphatic vasculature. <i>PLoS ONE</i> , 2017 , 12, e0181549	3.7	12
26	TNF alpha, IL-1 alpha and bFGF are implicated in the complex disease of GM-CSF transgenic mice. <i>Growth Factors</i> , 1992 , 6, 131-8	1.6	12
25	Violet light suppresses lens-induced myopia via neuropsin (OPN5) in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	11
24	RhoA is dispensable for axon guidance of sensory neurons in the mouse dorsal root ganglia. <i>Frontiers in Molecular Neuroscience</i> , 2012 , 5, 67	6.1	10
23	CD133-positive dermal papilla-derived Wnt ligands regulate postnatal hair growth. <i>Biochemical Journal</i> , 2016 , 473, 3291-305	3.8	8
22	Opsin 3-G Promotes Airway Smooth Muscle Relaxation Modulated by G Protein Receptor Kinase 2. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021 , 64, 59-68	5.7	7
21	Retinal ganglion cell interactions shape the developing mammalian visual system. <i>Development (Cambridge)</i> , 2020 , 147,	6.6	5
20	Generation of an Rx-tTA: TetOp-Cre knock-in mouse line for doxycycline regulated Cre activity in the Rx expression domain. <i>PLoS ONE</i> , 2012 , 7, e50426	3.7	5
19	Crim1 regulates integrin signaling in murine lens development. <i>Journal of Cell Science</i> , 2016 , 129, e1.2-e1.3	5.3	5
18	Phenotypic and functional characterization of Bst+/- mouse retina. <i>DMM Disease Models and Mechanisms</i> , 2015 , 8, 969-76	4.1	4
17	Growth Factors in Lens Development 2004 , 261-289		4
16	Evolutionary Constraint on Visual and Nonvisual Mammalian Opsins. <i>Journal of Biological Rhythms</i> , 2021 , 36, 109-126	3.2	4
15	Wounding Induces Facultative Opn5-Dependent Circadian Photoreception in the Murine Cornea 2020 , 61, 37		3
14	Stage-dependent modes of Pax6-Sox2 epistasis regulate lens development and eye morphogenesis. <i>Development (Cambridge)</i> , 2009 , 136, 3377-3377	6.6	3
13	Violet light modulates the central nervous system to regulate memory and mood		3

12	Striatin Is Required for Hearing and Affects Inner Hair Cells and Ribbon Synapses. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 615	5.7	3
11	QPLOT Neurons-Converging on a Thermoregulatory Preoptic Neuronal Population. <i>Frontiers in Neuroscience</i> , 2021 , 15, 665762	5.1	3
10	Eye Development Using Mouse Genetics 2008 , 120-133		1
9	An adipocyte light-Opin 3 pathway regulates the circadian clock and energy balance		1
8	Fetal stage melanopsin (OPN4) and GNAQ (Gq) signaling regulates vascular development of the eye		1
7	FLT1 signaling in metastasis-associated macrophages activates an inflammatory signature that promotes breast cancer metastasis. <i>Journal of Cell Biology</i> , 2015 , 210, 210401A168	7.3	1
6	Light-Mediated Inhibition of Colonic Smooth Muscle Constriction and Colonic Motility Opn 3.. <i>Frontiers in Physiology</i> , 2021 , 12, 744294	4.6	0
5	RhoA GTPase Is Dispensable for Hematopoietic Stem Cell Maintenance but Essential for Multipotent Progenitor and Lower Hierarchical Hematopoietic Differentiation.. <i>Blood</i> , 2010 , 116, 2618-2618		
4	Gene Targeting of RhoA Reveals Its Essential Role In Lymphopoiesis. <i>Blood</i> , 2010 , 116, 282-282	2.2	
3	Macrophages define dermal lymphatic vessel calibre during development by regulating lymphatic endothelial cell proliferation.. <i>Journal of Cell Science</i> , 2010 , 123, e1-e1	5.3	
2	RhoA Is An Essential Regulator of Mitosis and Survival During Hematopoietic Stem Cell Differentiation to Multipotent Progenitors. <i>Blood</i> , 2011 , 118, 1273-1273	2.2	
1	RhoA GTPase controls cytokinesis and programmed necrosis of hematopoietic progenitors. <i>Journal of Cell Biology</i> , 2013 , 203, 203101A113	7.3	