Robert D Burke

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Genome of the Sea Urchin <i>Strongylocentrotus purpuratus</i> . Science, 2006, 314, 941-952.	12.6	1,018
2	A genomic view of the sea urchin nervous system. Developmental Biology, 2006, 300, 434-460.	2.0	260
3	Growth of Francisella spp. in rodent macrophages. Infection and Immunity, 1991, 59, 3291-3296.	2.2	206
4	The induction of metamorphosis of marine invertebrate larvae: stimulus and response. Canadian Journal of Zoology, 1983, 61, 1701-1719.	1.0	177
5	The echinoderm adhesome. Developmental Biology, 2006, 300, 252-266.	2.0	158
6	Divergent patterns of neural development in larval echinoids and asteroids. Evolution & Development, 2004, 6, 95-104.	2.0	143
7	An Effective Polymer Cross-Linking Strategy To Obtain Stable Dispersions of Upconverting NaYF ₄ Nanoparticles in Buffers and Biological Growth Media for Biolabeling Applications. Langmuir, 2012, 28, 3239-3247.	3.5	134
8	The origin of pigment cells in embryos of the sea urchin Strongylocentrotus purpuratus. Developmental Biology, 1985, 107, 414-419.	2.0	124
9	Development of the nervous system of the pluteus larva of Strongylocentrotus droebachiensis. Cell and Tissue Research, 1987, 248, 335.	2.9	114
10	Bioconjugation of Ln3+-Doped LaF3Nanoparticles to Avidin. Langmuir, 2006, 22, 1782-1788.	3.5	105
11	The evolution of nervous system patterning: insights from sea urchin development. Development (Cambridge), 2011, 138, 3613-3623.	2.5	102
12	Cell movements during the initial phase of gastrulation in the sea urchin embryo. Developmental Biology, 1991, 146, 542-557.	2.0	100
13	Pheromonal Control of Metamorphosis in the Pacific Sand Dollar, Dendraster excentricus. Science, 1984, 225, 442-443.	12.6	96
14	Development of Serotonergic Neurons in Embryos of the Sea Urchin, Strongylocentrotus purpuratus. (serotonergic/neural development/embryo/echinoid). Development Growth and Differentiation, 1986, 28, 569-574.	1.5	90
15	The structure of the nervous system of the pluteus larva of Strongylocentrotus purpuratus. Cell and Tissue Research, 1978, 191, 233-47.	2.9	89
16	Apical organs in echinoderm larvae: insights into larval evolution in the Ambulacraria. Evolution & Development, 2007, 9, 432-445.	2.0	88
17	Invertebrate Integrins: Structure, Function, and Evolution. International Review of Cytology, 1999, 191, 257-284.	6.2	87
18	Specification of ectoderm restricts the size of the animal plate and patterns neurogenesis in sea urchin embryos. Development (Cambridge), 2006, 133, 2337-2346.	2.5	87

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19	A global view of gene expression in lithium and zinc treated sea urchin embryos: new components of gene regulatory networks. Genome Biology, 2007, 8, R85.	9.6	84
20	Neuron-specific expression of a synaptotagmin gene in the sea urchinStrongylocentrotus purpuratus. Journal of Comparative Neurology, 2006, 496, 244-251.	1.6	76
21	TGFβ signaling positions the ciliary band and patterns neurons in the sea urchin embryo. Developmental Biology, 2010, 347, 71-81.	2.0	75
22	Identification and structural basis of binding to host lung glycogen by streptococcal virulence factors. Nature Structural and Molecular Biology, 2007, 14, 76-84.	8.2	72
23	Expression of an NK2 homeodomain gene in the apical ectoderm defines a new territory in the early sea urchin embryo. Developmental Biology, 2004, 269, 152-164.	2.0	71
24	NEURAL CONTROL OF METAMORPHOSIS INDENDRASTER EXCENTRICUS. Biological Bulletin, 1983, 164, 176-188.	1.8	67
25	Secondary mesenchyme of the sea urchin embryo: Ontogeny of blastocoelar cells. The Journal of Experimental Zoology, 1992, 262, 51-60.	1.4	65
26	Structure of the digestive tract of the pluteus larva of Dendraster excentricus (Echinodermata:) Tj ETQq0 0 0 rg	3T /Oyerloo	ck 10 Tf 50 4
27	The Initial Phase of Gastrulation in Sea Urchins Is Accompanied by the Formation of Bottle Cells. Developmental Biology, 1996, 179, 436-446.	2.0	64
28	Neurogenesis in sea urchin embryos and the diversity of deuterostome neurogenic mechanisms. Development (Cambridge), 2015, 143, 286-97.	2.5	63
29	STRUCTURE OF THE NERVOUS SYSTEM OF THE AURICULARIA LARVA OFPARASTICOPUS CALIFORNICUS. Biological Bulletin, 1986, 170, 450-460.	1.8	60
30	Development of the esophageal muscles in embryos of the sea urchin Strongylocentrotus purpuratus. Cell and Tissue Research, 1988, 252, 411-7.	2.9	60
31	Podial sensory receptors and the induction of metamorphosis in echinoids. Journal of Experimental Marine Biology and Ecology, 1980, 47, 223-234.	1.5	59
32	Isolation of the neuropeptide SALMFamide-1 from starfish using a new antiserum. Peptides, 1991, 12, 455-459.	2.4	59
33	A novel permalloy based magnetic single cell micro array. Lab on A Chip, 2009, 9, 2381.	6.0	58
34	Development of the larval nervous system of the sand dollar, Dendraster excentricus. Cell and Tissue Research, 1983, 229, 145-54.	2.9	56
35	Mechanisms of arm-tip regeneration in the sea star, Leptasterias hexactis. Roux's Archives of Developmental Biology, 1989, 198, 19-28.	1.2	56

36Blood Group Antigen Recognition by a Streptococcus pneumoniae Virulence Factor. Journal of
Biological Chemistry, 2006, 281, 35263-35271.3.4

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37	A functional genomic and proteomic perspective of sea urchin calcium signaling and egg activation. Developmental Biology, 2006, 300, 416-433.	2.0	53
38	The structure of the larval nervous system ofPisaster ochraceus (Echinodermata: Asteroidea). Journal of Morphology, 1983, 178, 23-35.	1.2	52
39	Immunocytochemical localization of the neuropeptide S1 and serotonin in larvae of the starfish <i>Pisaster ochraceus</i> and <i>Asterias rubens</i> . Journal of the Marine Biological Association of the United Kingdom, 1994, 74, 61-71.	0.8	51
40	<i>ARS2</i> Is a Conserved Eukaryotic Gene Essential for Early Mammalian Development. Molecular and Cellular Biology, 2008, 28, 1503-1514.	2.3	49
41	Sp-Smad2/3 mediates patterning of neurogenic ectoderm by nodal in the sea urchin embryo. Developmental Biology, 2007, 302, 494-503.	2.0	46
42	Cloning and Characterization of Novel β Integrin Subunits from a Sea Urchin. Developmental Biology, 1997, 181, 234-245.	2.0	43
43	Shope Fibroma Virus RING Finger Protein N1R Binds DNA and Inhibits Apoptosis. Virology, 1998, 249, 42-51.	2.4	42
44	The Conformation and Function of a Multimodular Glycogen-Degrading Pneumococcal Virulence Factor. Structure, 2011, 19, 640-651.	3.3	42
45	The Structure and Development of the Apical Ganglion in the Sea Urchin Pluteus Larvae of Strongylocentrotus droebachiensis and Mespilia globulus. (apical ganglion/anti-serotonin/sea urchin) Tj ETQq1 1 531-538.	0.784314 1.5	rggT /Overlo
46	Endo16, a Large Multidomain Protein Found on the Surface and ECM of Endodermal Cells during Sea Urchin Gastrulation, Binds Calcium. Developmental Biology, 1994, 165, 73-85.	2.0	41
47	Differential Recognition and Hydrolysis of Host Carbohydrate Antigens by Streptococcus pneumoniae Family 98 Glycoside Hydrolases. Journal of Biological Chemistry, 2009, 284, 26161-26173.	3.4	41
48	Embryonic neurogenesis in echinoderms. Wiley Interdisciplinary Reviews: Developmental Biology, 2018, 7, e316.	5.9	41
49	Sea urchin neural development and the metazoan paradigm of neurogenesis. Genesis, 2014, 52, 208-221.	1.6	40
50	Migratory and invasive behavior of pigment cells in normal and animalized sea urchin embryos. Experimental Cell Research, 1987, 173, 546-557.	2.6	39
51	Divergent roles for Eph and Ephrin in Avian Cranial Neural Crest. BMC Developmental Biology, 2008, 8, 56.	2.1	39
52	Localization of a SALMFamide Neuropeptide in the Larval Nervous System of the Sand Dollar <i>Dendraster excentricus</i> . Acta Zoologica, 1992, 73, 207-212.	0.8	37
53	Ectromelia virus virulence factor p28 acts upstream of caspase-3 in response to UV light-induced apoptosis. Journal of General Virology, 2000, 81, 1087-1097.	2.9	37
54	The βL Integrin Subunit Is Necessary for Gastrulation in Sea Urchin Embryos. Developmental Biology, 1998, 203, 134-148.	2.0	34

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55	Development of an Autonomous Biological Cell Manipulator With Single-Cell Electroporation and Visual Servoing Capabilities. IEEE Transactions on Biomedical Engineering, 2009, 56, 2064-2074.	4.2	34
56	Improved method for benzoyl chloride derivatization of polyamines for high-peformance liquid chromatography. Journal of Chromatography A, 1987, 408, 227-233.	3.7	32
57	Characterization of the pathogenicity island protein PdpA and its role in the virulence of Francisella novicida. Microbiology (United Kingdom), 2009, 155, 1489-1497.	1.8	32
58	Notch signaling patterns neurogenic ectoderm and regulates the asymmetric division of neural progenitors in sea urchin embryos. Development (Cambridge), 2017, 144, 3602-3611.	2.5	32
59	Comparative genomic sequence analysis of the Williams syndrome region (LIMK1-RFC2) of human Chromosome 7q11.23. Mammalian Genome, 2000, 11, 890-898.	2.2	31
60	Identification, characterization and deduced amino acid sequence of the dominant protease from Kudoa paniformis and K. thyrsites: A unique cytoplasmic cysteine protease. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2008, 149, 477-489.	1.6	31
61	Neural development of the brittlestar Amphiura filiformis. Development Genes and Evolution, 2009, 219, 159-166.	0.9	31
62	Developmental expression of COE across the Metazoa supports a conserved role in neuronal cell-type specification and mesodermal development. Development Genes and Evolution, 2010, 220, 221-234.	0.9	28
63	Fine structure of the doliolaria larva of the feather starFlorometra serratissima (Echinodermata:) Tj ETQq1 10.7	84314 rgB 1.2	T /Qyerlock 1(
64	Localized Electroporation: A Method for Targeting Expression of Genes in Avian Embryos. BioTechniques, 2000, 28, 94-100.	1.8	27
65	Virulence of Francisella spp. in Chicken Embryos. Infection and Immunity, 2006, 74, 4809-4816.	2.2	27
66	Development of pedicellariae in the pluteus larva of Lytechinus pictus (Echinodermata: Echinoidea). Canadian Journal of Zoology, 1980, 58, 1674-1682.	1.0	26
67	Stimulation of starfish coelomocytes by interleukin-1. Biochemical and Biophysical Research Communications, 1991, 180, 579-584.	2.1	26
68	Ontogeny of the holothurian larval nervous system: evolution of larval forms. Development Genes and Evolution, 2007, 217, 585-592.	0.9	25
69	The Apical Lamina and its Role in Cell Adhesion in Sea Urchin Embryos. Cell Adhesion and Communication, 1998, 5, 97-108.	1.7	24
70	The αBβC Integrin Is Expressed on the Surface of the Sea Urchin Egg and Removed at Fertilization. Developmental Biology, 2000, 227, 633-647.	2.0	22
71	The molecular phylogeny of eph receptors and ephrin ligands. BMC Cell Biology, 2008, 9, 27.	3.0	22
72	Deuterostome neuroanatomy and the body plan paradox. Evolution & Development, 2011, 13, 110-115.	2.0	22

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73	Uptake of dissolved amino acids by embryos and larvae of <i>Dendraster excentricus</i> (Eschscholtz) (Echinodermata: Echinoidea). Canadian Journal of Zoology, 1983, 61, 349-354.	1.0	21
74	Machine vision-based localization of nucleic and cytoplasmic injection sites on low-contrast adherent cells. Medical and Biological Engineering and Computing, 2012, 50, 11-21.	2.8	21
75	Eph-Ephrin signaling and focal adhesion kinase regulate actomyosin-dependent apical constriction of ciliary band cells. Development (Cambridge), 2014, 141, 1075-1084.	2.5	21
76	Neural architecture of the brachiolaria larva of the starfish, <i>Asterina pectinifera</i> . Journal of Comparative Neurology, 2008, 509, 271-282.	1.6	20
77	Integrins on eggs: the βC subunit is essential for formation of the cortical actin cytoskeleton in sea urchin eggs. Developmental Biology, 2004, 265, 53-60.	2.0	19
78	Ontogeny and characterization of mesenchyme antigens of the sea urchin embryo. Developmental Biology, 1989, 136, 75-86.	2.0	18
79	Neural development in Eucidaris tribuloides and the evolutionary history of the echinoid larval nervous system. Developmental Biology, 2013, 377, 236-244.	2.0	17
80	Distribution of fibrillin I in extracellular matrix and epithelia during early development of avian embryos. Anatomy and Embryology, 2000, 201, 317-326.	1.5	16
81	Pl-nectin, a discoidin family member, is a ligand for βC integrins in the sea urchin embryo. Matrix Biology, 2010, 29, 341-345.	3.6	15
82	Ontogeny of vessel wall components in the outflow tract of the chick. Anatomy and Embryology, 1994, 189, 447-56.	1.5	14
83	Morphogenesis of the digestive tract of the pluteus larva ofStrongylocentrotus purpuratus:shaping and bending. International Journal of Invertebrate Reproduction, 1980, 2, 13-21.	0.6	13
84	An ectromelia virus profilin homolog interacts with cellular tropomyosin and viral A-type inclusion protein. Virology Journal, 2007, 4, 76.	3.4	12
85	Development of a five degree-of-freedom biomanipulator for autonomous single cell electroporation. , 2007, , .		11
86	The sole LSm complex in <i>Cyanidioschyzon merolae</i> associates with pre-mRNA splicing and mRNA degradation factors. Rna, 2017, 23, 952-967.	3.5	11
87	Eph and Ephrin function in dispersal and epithelial insertion of pigmented immunocytes in sea urchin embryos. ELife, 2016, 5, .	6.0	11
88	Ontogeny of an Extracellular Matrix Component of Sea Urchins and its Role in Morphogenesis. (blastocoel/extracellular matrix/mesenchyme/sea urchin/morphogenesis). Development Growth and Differentiation, 1990, 32, 461-471.	1.5	10
89	Pigmented Follicle Cells and the Maturation of Oocytes in the Sand Dollar, Dendraster excentricus. (echinoid/follicle cells/oogenesis/maturation). Development Growth and Differentiation, 1989, 31, 431-437.	1.5	8
90	Chapter 16 Cytological Techniques for the Study of Larval Echinoids with Notes on Methods for Inducing Metamorphosis. Methods in Cell Biology, 1986, 27, 295-308.	1.1	7

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91	Collagen diversity in the sea urchin, strongylocentrotus purpuratus. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1989, 94, 41-44.	0.2	7
92	TEM and SEM Methods. Methods in Cell Biology, 2004, 74, 411-441.	1.1	7
93	Localized, Macromolecular Transport for Thin, Adherent, Single Cells Via an Automated, Single Cell Electroporation Biomanipulator. IEEE Transactions on Biomedical Engineering, 2013, 60, 3113-3123.	4.2	7
94	Ciliary photoreceptors in sea urchin larvae indicate pan-deuterostome cell type conservation. BMC Biology, 2021, 19, 257.	3.8	7
95	RoboSCell: an automated single cell arraying and analysis instrument. Biomedical Microdevices, 2009, 11, 1317-1330.	2.8	6
96	Integrins on eggs: focal adhesion kinase is activated at fertilization, forms a complex with integrins, and is necessary for cortex formation and cell cycle initiation. Molecular Biology of the Cell, 2013, 24, 3472-3481.	2.1	6
97	Imaging Neural Development in Embryonic and Larval Sea Urchins. Methods in Molecular Biology, 2014, 1128, 147-160.	0.9	6
98	Morphogenesis of the digestive tract of the pluteus larva ofStrongylocentrotus purpuratus: sphincter formation. International Journal of Invertebrate Reproduction, 1980, 2, 1-12.	0.6	5
99	A Generalized Tip-Membrane Contact Detection Algorithm for Automated Single Cell Electroporation Using Statistical Process Control. IEEE Transactions on Automation Science and Engineering, 2012, 9, 226-236.	5.2	5
100	Actin-mediated retraction of the larval epidermis during metamorphosis of the sand dollar, Dendraster excentricus. Cell and Tissue Research, 1985, 239, 589-97.	2.9	4
101	Polyamines and cell proliferation in the sea star Pycnopodia helianthoides. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1988, 90, 885-890.	0.2	4
102	SpADAM, a sea urchin ADAM, has conserved structure and expression. Mechanisms of Development, 2002, 117, 275-281.	1.7	4
103	Embryonic expression of engrailed in sea urchins. Gene Expression Patterns, 2006, 6, 566-571.	0.8	4
104	Localization and Characterization of an Integral Membrane Protein Antigen Expressed by Pigment Cells in Embryos of the Sea Urchin Strongylocentrotus purpuratus. (sea urchin/monoclonal) Tj ETQq0 0 0 rgBT /	Overløck]	10 Tất 50 217 T
105	Characterization of Calflagin, a Flagellar Calcium-Binding Protein from Trypanosoma congolense. PLoS Neglected Tropical Diseases, 2016, 10, e0004510.	3.0	3
106	Integrin signaling in early sea urchin development. Signal Transduction, 2007, 7, 207-215.	0.4	2
107	Transforming a transcription factor. ELife, 2018, 7, .	6.0	1
108	Pigment cells: Paragons of cellular development. Current Topics in Developmental Biology, 2022, 146, 149-182.	2.2	1

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109	Lynne M. Angerer: An originator of RNA in situ hybridization. Molecular Reproduction and Development, 2013, 80, Fm i.	2.0	0
110	Editorialâ€sea urchin special issue. Genesis, 2014, 52, 157-157.	1.6	0
111	The causes of things. Methods in Cell Biology, 2019, 151, 49-54.	1.1	0
112	Analysis of neural activity with fluorescent protein biosensors. Methods in Cell Biology, 2019, 151, 519-526.	1.1	0
113	A Machine Vision Framework for Automated Localization of Microinjection Sites on Low-Contrast Single Adherent Cells. Lecture Notes in Computer Science, 2011, , 12-20.	1.3	0
114	Eph-Ephrin signaling and focal adhesion kinase regulate actomyosin-dependent apical constriction of ciliary band cells. Journal of Cell Science, 2014, 127, e1-e1.	2.0	0