David M Ornitz

List of Publications by Citations

217 papers	27,813 citations	80 h-index	165 g-index
231 ext. papers	30,316 ext. citations	8.6 avg, IF	7.21 L-index

#	Paper	IF	Citations
217	Cell surface, heparin-like molecules are required for binding of basic fibroblast growth factor to its high affinity receptor. *Cell*, **1991**, 64, 841-8	56.2	2233
216	Fibroblast growth factors. *Genome Biology*, **2001**, 2, REVIEWS3005	18.3	1347
215	Receptor specificity of the fibroblast growth factor family. *Journal of Biological Chemistry*, **1996**, 271, 15292-7	5.4	1297
214	The Fibroblast Growth Factor signaling pathway. *Wiley Interdisciplinary Reviews: Developmental Biology*, **2015**, 4, 215-66	5.9	1048
213	Evolution of the Fgf and Fgfr gene families. *Trends in Genetics*, **2004**, 20, 563-9	8.5	830
212	Receptor specificity of the fibroblast growth factor family. The complete mammalian FGF family. *Journal of Biological Chemistry*, **2006**, 281, 15694-700	5.4	826
211	Skeletal overgrowth and deafness in mice lacking fibroblast growth factor receptor 3. *Nature Genetics*, **1996**, 12, 390-7	36.3	753
210	FGF signaling pathways in endochondral and intramembranous bone development and human genetic disease. *Genes and Development*, **2002**, 16, 1446-65	12.6	682
209	FGFs, heparan sulfate and FGFRs: complex interactions essential for development. *BioEssays*, **2000**, 22, 108-12	4.1	566
208	A twist code determines the onset of osteoblast differentiation. *Developmental Cell*, **2004**, 6, 423-35	10.2	548
207	Sequential roles of Hedgehog and Wnt signaling in osteoblast development. *Development (Cambridge)*, **2005**, 132, 49-60	6.6	518
206	Conditional inactivation of FGF receptor 2 reveals an essential role for FGF signaling in the regulation of osteoblast function and bone growth. *Development (Cambridge)*, **2003**, 130, 3063-74	6.6	492
205	Male-to-female sex reversal in mice lacking fibroblast growth factor 9. *Cell*, **2001**, 104, 875-89	56.2	472
204	Fibroblast growth factors: from molecular evolution to roles in development, metabolism and disease. *Journal of Biochemistry*, **2011**, 149, 121-30	3.1	458
203	Graded activation of fibroblast growth factor receptor 3 by mutations causing achondroplasia and thanatophoric dysplasia. *Nature Genetics*, **1996**, 13, 233-7	36.3	432
202	Vertebrate slit, a secreted ligand for the transmembrane protein roundabout, is a repellent for olfactory bulb axons. *Cell*, **1999**, 96, 807-18	56.2	406
201	Distinct macrophage lineages contribute to disparate patterns of cardiac recovery and remodeling in the neonatal and adult heart. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 16029-34	11.5	397

200	Interaction of FGF, Ihh/Pthlh, and BMP signaling integrates chondrocyte proliferation and hypertrophic differentiation. *Developmental Cell*, **2002**, 3, 439-49	10.2	369
199	Conserved roles for Slit and Robo proteins in midline commissural axon guidance. *Neuron*, **2004**, 42, 213-23	13.9	357
198	Coordination of chondrogenesis and osteogenesis by fibroblast growth factor 18. *Genes and Development*, **2002**, 16, 859-69	12.6	357
197	Development of the endochondral skeleton. *Cold Spring Harbor Perspectives in Biology*, **2013**, 5, a008334	10.2	353
196	Twist regulates cytokine gene expression through a negative feedback loop that represses NF-kappaB activity. *Cell*, **2003**, 112, 169-80	56.2	350
195	Endocardial and epicardial derived FGF signals regulate myocardial proliferation and differentiation in vivo. *Developmental Cell*, **2005**, 8, 85-95	10.2	300
194	Functional evolutionary history of the mouse Fgf gene family. *Developmental Dynamics*, **2008**, 237, 18-27	2.9	299
193	Physiological degradation converts the soluble syndecan-1 ectodomain from an inhibitor to a potent activator of FGF-2. *Nature Medicine*, **1998**, 4, 691-7	50.5	294
192	FGF signaling in the developing endochondral skeleton. *Cytokine and Growth Factor Reviews*, **2005**, 16, 205-13	17.9	286
191	The mouse SLIT family: secreted ligands for ROBO expressed in patterns that suggest a role in morphogenesis and axon guidance. *Developmental Biology*, **1999**, 212, 290-306	3.1	257
190	Lung hypoplasia and neonatal death inFgf9-null mice identify this gene as an essential regulator of lung mesenchyme. *Development (Cambridge)*, **2001**, 128, 2095-2106	6.6	256
189	Pancreatic neoplasia induced by ras expression in acinar cells of transgenic mice. *Cell*, **1987**, 48, 1023-34	56.2	254
188	Mutations that cause osteoglophonic dysplasia define novel roles for FGFR1 in bone elongation. *American Journal of Human Genetics*, **2005**, 76, 361-7	11	250
187	Specific expression of an elastase-human growth hormone fusion gene in pancreatic acinar cells of transgenic mice. *Nature*, **1985**, 313, 600-2	50.4	240
186	Fibroblast growth factor signaling in skeletal development and disease. *Genes and Development*, **2015**, 29, 1463-86	12.6	238
185	FGF22 and its close relatives are presynaptic organizing molecules in the mammalian brain. *Cell*, **2004**, 118, 257-70	56.2	228
184	FGF9 and FGF20 maintain the stemness of nephron progenitors in mice and man. *Developmental Cell*, **2012**, 22, 1191-207	10.2	225
183	Fibroblast growth factor signals regulate a wave of Hedgehog activation that is essential for coronary vascular development. *Genes and Development*, **2006**, 20, 1651-66	12.6	199

182	Fgf9 induces proliferation and nuclear localization of FGFR2 in Sertoli precursors during male sex determination. *Development (Cambridge)*, **2004**, 131, 3627-36	6.6	198
181	Fgf9 from dermal γδT cells induces hair follicle neogenesis after wounding. *Nature Medicine*, **2013**, 19, 916-23	50.5	194
180	Genomic organization and embryonic expression of the mouse fibroblast growth factor 9 gene. *Developmental Dynamics*, **1999**, 216, 72-88	2.9	189
179	Fibroblast growth factor homologous factors control neuronal excitability through modulation of voltage-gated sodium channels. *Neuron*, **2007**, 55, 449-63	13.9	183
178	Fibroblast growth factor (FGF) homologous factors share structural but not functional homology with FGFs. *Journal of Biological Chemistry*, **2003**, 278, 34226-36	5.4	183
177	Analysis of the biochemical mechanisms for the endocrine actions of fibroblast growth factor-23. *Endocrinology*, **2005**, 146, 4647-56	4.8	178
176	FGF9 and SHH signaling coordinate lung growth and development through regulation of distinct mesenchymal domains. *Development (Cambridge)*, **2006**, 133, 1507-17	6.6	175
175	FGF signaling in skeletal development. *Frontiers in Bioscience - Landmark*, **1998**, 3, d781-94	2.8	168
174	FGF21 Regulates Metabolism Through Adipose-Dependent and -Independent Mechanisms. *Cell Metabolism*, **2017**, 25, 935-944.e4	24.6	153
173	FGF18 is required for early chondrocyte proliferation, hypertrophy and vascular invasion of the growth plate. *Developmental Biology*, **2007**, 302, 80-91	3.1	152
172	Fibroblast growth factor receptor 1 signaling in the osteo-chondrogenic cell lineage regulates sequential steps of osteoblast maturation. *Developmental Biology*, **2006**, 296, 315-28	3.1	148
171	Abnormalities in cartilage and bone development in the Apert syndrome FGFR2(+/S252W) mouse. *Development (Cambridge)*, **2005**, 132, 3537-48	6.6	148
170	Ataxia and paroxysmal dyskinesia in mice lacking axonally transported FGF14. *Neuron*, **2002**, 35, 25-38	13.9	144
169	Fibroblast growth factor 14 is an intracellular modulator of voltage-gated sodium channels. *Journal of Physiology*, **2005**, 569, 179-93	3.9	136
168	Fibroblast growth factor receptor signaling is essential for lens fiber cell differentiation. *Developmental Biology*, **2008**, 318, 276-88	3.1	133
167	Fgfr3 expression by astrocytes and their precursors: evidence that astrocytes and oligodendrocytes originate in distinct neuroepithelial domains. *Development (Cambridge)*, **2003**, 130, 93-102	6.6	124
166	Osx-Cre targets multiple cell types besides osteoblast lineage in postnatal mice. *PLoS ONE*, **2014**, 9, e85161	3.7	123
165	FGF signalling generates ventral telencephalic cells independently of SHH. *Development (Cambridge)*, **2006**, 133, 2937-46	6.6	118

164	Runx2 inhibits chondrocyte proliferation and hypertrophy through its expression in the perichondrium. *Genes and Development*, **2006**, 20, 2937-42	12.6	118
163	The FGF14(F145S) mutation disrupts the interaction of FGF14 with voltage-gated Na+ channels and impairs neuronal excitability. *Journal of Neuroscience*, **2007**, 27, 12033-44	6.6	118
162	FGF9 and SHH regulate mesenchymal Vegfa expression and development of the pulmonary capillary network. *Development (Cambridge)*, **2007**, 134, 3743-52	6.6	115
161	FGF9 regulates early hypertrophic chondrocyte differentiation and skeletal vascularization in the developing stylopod. *Developmental Biology*, **2007**, 307, 300-13	3.1	115
160	A genetic model for a central (septum transversum) congenital diaphragmatic hernia in mice lacking Slit3. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 5217-22	11.5	114
159	Achondroplasia: Development, pathogenesis, and therapy. *Developmental Dynamics*, **2017**, 246, 291-309	2.9	109
158	An FGF-WNT gene regulatory network controls lung mesenchyme development. *Developmental Biology*, **2008**, 319, 426-36	3.1	102
157	Fibroblast growth factor receptors 1 and 2 in keratinocytes control the epidermal barrier and cutaneous homeostasis. *Journal of Cell Biology*, **2010**, 188, 935-52	7.3	101
156	Defective bone mineralization and osteopenia in young adult FGFR3-/- mice. *Human Molecular Genetics*, **2004**, 13, 271-84	5.6	101
155	FGF signaling regulates mesenchymal differentiation and skeletal patterning along the limb bud proximodistal axis. *Development (Cambridge)*, **2008**, 135, 483-91	6.6	100
154	Genomic structure, mapping, activity and expression of fibroblast growth factor 17. *Mechanisms of Development*, **1999**, 83, 165-78	1.7	95
153	Crystal structure of a fibroblast growth factor homologous factor (FHF) defines a conserved surface on FHFs for binding and modulation of voltage-gated sodium channels. *Journal of Biological Chemistry*, **2009**, 284, 17883-96	5.4	93
152	FGF14 regulates the intrinsic excitability of cerebellar Purkinje neurons. *Neurobiology of Disease*, **2009**, 33, 81-8	7.5	93
151	FGF9 monomer-dimer equilibrium regulates extracellular matrix affinity and tissue diffusion. *Nature Genetics*, **2009**, 41, 289-98	36.3	92
150	FGF14 N-terminal splice variants differentially modulate Nav1.2 and Nav1.6-encoded sodium channels. *Molecular and Cellular Neurosciences*, **2009**, 42, 90-101	4.8	91
149	Patterning the optic neuroepithelium by FGF signaling and Ras activation. *Development (Cambridge)* , **2001**, 128, 5051-5060	6.6	89
148	Endothelial cell FGF signaling is required for injury response but not for vascular homeostasis. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 13379-84	11.5	88
147	Fibroblast growth factor receptor 2 tyrosine kinase is required for prostatic morphogenesis and the acquisition of strict androgen dependency for adult tissue homeostasis. *Development (Cambridge)*, **2007**, 134, 723-34	6.6	87

146	Differential regulation of endochondral bone growth and joint development by FGFR1 and FGFR3 tyrosine kinase domains. *Development (Cambridge)*, **2001**, 128, 3867-3876	6.6	87
145	Non-syndromic vestibular disorder with otoconial agenesis in tilted/mergulhador mice caused by mutations in otopetrin 1. *Human Molecular Genetics*, **2003**, 12, 777-89	5.6	86
144	Mesothelial- and epithelial-derived FGF9 have distinct functions in the regulation of lung development. *Development (Cambridge)*, **2011**, 138, 3169-77	6.6	85
143	Otoconial agenesis in tilted mutant mice. *Hearing Research*, **1998**, 122, 60-70	3.9	85
142	Fibroblast growth factor receptor 3 signaling regulates the onset of oligodendrocyte terminal differentiation. *Journal of Neuroscience*, **2003**, 23, 883-94	6.6	85
141	Bone morphogenetic protein receptor 1A signaling is dispensable for hematopoietic development but essential for vessel and atrioventricular endocardial cushion formation. *Development (Cambridge)*, **2006**, 133, 3473-84	6.6	84
140	Heparin-induced self-association of fibroblast growth factor-2. Evidence for two oligomerization processes. *Journal of Biological Chemistry*, **1997**, 272, 16382-9	5.4	82
139	Hedgehog signaling is critical for maintenance of the adult coronary vasculature in mice. *Journal of Clinical Investigation*, **2008**, 118, 2404-14	15.9	82
138	Fgf20 governs formation of primary and secondary dermal condensations in developing hair follicles. *Genes and Development*, **2013**, 27, 450-8	12.6	81
137	Otopetrin 1 is required for otolith formation in the zebrafish Danio rerio. *Developmental Biology*, **2004**, 276, 391-402	3.1	79
136	Mixing model systems: using zebrafish and mouse inner ear mutants and other organ systems to unravel the mystery of otoconial development. *Brain Research*, **2006**, 1091, 58-74	3.7	78
135	Subcellular and developmental expression of alternatively spliced forms of fibroblast growth factor 14. *Mechanisms of Development*, **2000**, 90, 283-7	1.7	78
134	Development and maintenance of otoconia: biochemical considerations. *Annals of the New York Academy of Sciences*, **2001**, 942, 162-78	6.5	77
133	Stromal-Initiated Changes in the Bone Promote Metastatic Niche Development. *Cell Reports*, **2016**, 14, 82-92	10.6	76
132	Expression and biological activity of mouse fibroblast growth factor-9. *Journal of Biological Chemistry*, **1996**, 271, 1726-31	5.4	76
131	Fibroblast growth factor receptors cooperate to regulate neural progenitor properties in the developing midbrain and hindbrain. *Journal of Neuroscience*, **2007**, 27, 8581-92	6.6	76
130	Impaired spatial learning and defective theta burst induced LTP in mice lacking fibroblast growth factor 14. *Neurobiology of Disease*, **2007**, 26, 14-26	7.5	75
129	Fibroblast growth factor expression during skeletal fracture healing in mice. *Developmental Dynamics*, **2009**, 238, 766-74	2.9	73

128	FGF10/FGFR2b signaling is essential for cardiac fibroblast development and growth of the myocardium. *Development (Cambridge)*, **2011**, 138, 3331-40	6.6	72
127	Stat1 controls postnatal bone formation by regulating fibroblast growth factor signaling in osteoblasts. *Journal of Biological Chemistry*, **2004**, 279, 27743-52	5.4	72
126	FGF receptors 1 and 2 are key regulators of keratinocyte migration in vitro and in wounded skin. *Journal of Cell Science*, **2012**, 125, 5690-701	5.3	70
125	Differentiation of the lateral compartment of the cochlea requires a temporally restricted FGF20 signal. *PLoS Biology*, **2012**, 10, e1001231	9.7	70
124	Fgf9 signaling regulates inner ear morphogenesis through epithelial-mesenchymal interactions. *Developmental Biology*, **2004**, 273, 350-60	3.1	70
123	Regulation of osteocalcin gene expression by a novel Ku antigen transcription factor complex. *Journal of Biological Chemistry*, **2002**, 277, 37280-91	5.4	69
122	Hedgehog signaling to distinct cell types differentially regulates coronary artery and vein development. *Development (Cambridge)*, **2008**, 135, 3161-71	6.6	68
121	Transplanted oligodendrocyte progenitor cells expressing a dominant-negative FGF receptor transgene fail to migrate in vivo. *Journal of Neuroscience*, **1997**, 17, 9122-32	6.6	66
120	Impaired hippocampal synaptic transmission and plasticity in mice lacking fibroblast growth factor 14. *Molecular and Cellular Neurosciences*, **2007**, 34, 366-77	4.8	65
119	Ectodysplasin regulates activator-inhibitor balance in murine tooth development through Fgf20 signaling. *Development (Cambridge)*, **2012**, 139, 3189-99	6.6	63
118	Fgf9 signaling regulates small intestinal elongation and mesenchymal development. *Development (Cambridge)*, **2008**, 135, 2959-68	6.6	63
117	Reciprocal epithelial-mesenchymal FGF signaling is required for cecal development. *Development (Cambridge)*, **2006**, 133, 173-80	6.6	63
116	Mapping ligand binding domains in chimeric fibroblast growth factor receptor molecules. Multiple regions determine ligand binding specificity. *Journal of Biological Chemistry*, **1999**, 274, 34785-94	5.4	63
115	Signaling through FGF receptor-2 is required for lens cell survival and for withdrawal from the cell cycle during lens fiber cell differentiation. *Developmental Dynamics*, **2005**, 233, 516-27	2.9	62
114	Fibroblast growth factor 2 is required for epithelial recovery, but not for pulmonary fibrosis, in response to bleomycin. *American Journal of Respiratory Cell and Molecular Biology*, **2015**, 52, 116-28	5.7	60
113	Analysis of a gain-of-function FGFR2 Crouzon mutation provides evidence of loss of function activity in the etiology of cleft palate. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 2515-20	11.5	58
112	Identification of the cytoplasmic regions of fibroblast growth factor (FGF) receptor 1 which play important roles in induction of neurite outgrowth in PC12 cells by FGF-1. *Molecular and Cellular Biology*, **1998**, 18, 3762-70	4.8	58
111	Heparan and chondroitin sulfate on growth plate perlecan mediate binding and delivery of FGF-2 to FGF receptors. *Matrix Biology*, **2007**, 26, 175-84	11.4	57

110	Expression of FGFR3 with the G380R achondroplasia mutation inhibits proliferation and maturation of CFK2 chondrocytic cells. *Journal of Bone and Mineral Research*, **2000**, 15, 155-65	6.3	57
109	Signaling networks regulating development of the lower respiratory tract. *Cold Spring Harbor Perspectives in Biology*, **2012**, 4,	10.2	55
108	Overlapping expression and redundant activation of mesenchymal fibroblast growth factor (FGF) receptors by alternatively spliced FGF-8 ligands. *Journal of Biological Chemistry*, **1997**, 272, 3733-8	5.4	54
107	Signalling by fibroblast growth factor receptor 3 and parathyroid hormone-related peptide coordinate cartilage and bone development. *Bone*, **2004**, 34, 13-25	4.7	53
106	Shared circuitry: developmental signaling cascades regulate both embryonic and adult coronary vasculature. *Circulation Research*, **2009**, 104, 159-69	15.7	47
105	FGF signaling in the osteoprogenitor lineage non-autonomously regulates postnatal chondrocyte proliferation and skeletal growth. *Development (Cambridge)*, **2016**, 143, 1811-22	6.6	47
104	Cochlear progenitor number is controlled through mesenchymal FGF receptor signaling. *ELife*, **2015** , 4,	8.9	46
103	Sulfated hydrogel matrices direct mitogenicity and maintenance of chondrocyte phenotype through activation of FGF signaling. *Advanced Functional Materials*, **2016**, 26, 3649-3662	15.6	45
102	Delineating a conserved genetic cassette promoting outgrowth of body appendages. *PLoS Genetics* , **2013**, 9, e1003231	6	44
101	Dermal Condensate Niche Fate Specification Occurs Prior to Formation and Is Placode Progenitor Dependent. *Developmental Cell*, **2019**, 48, 32-48.e5	10.2	44
100	Fibroblast growth factors and Hedgehogs: at the heart of the epicardial signaling center. *Trends in Genetics*, **2008**, 24, 33-40	8.5	43
99	A model for the pharmacological treatment of crouzon syndrome. *Neurosurgery*, **2006**, 59, 210-5; discussion 210-5	3.2	43
98	Histomorphological study of palatal shelf elevation during murine secondary palate formation. *Developmental Dynamics*, **2011**, 240, 1737-44	2.9	42
97	Microscale analysis of proteins in inner ear tissues and fluids with emphasis on endolymphatic sac, otoconia, and organ of Corti. *Electrophoresis*, **2006**, 27, 1598-608	3.6	42
96	Inhibition or activation of Apert syndrome FGFR2 (S252W) signaling by specific glycosaminoglycans. *Journal of Biological Chemistry*, **2006**, 281, 6924-30	5.4	42
95	Regulation of the fibroblast growth factor receptor 3 promoter and intron I enhancer by Sp1 family transcription factors. *Journal of Biological Chemistry*, **1998**, 273, 5349-57	5.4	42
94	FGF receptors 1 and 2 control chemically induced injury and compound detoxification in regenerating livers of mice. *Gastroenterology*, **2010**, 139, 1385-96	13.3	41
93	Rapid induction of lung adenocarcinoma by fibroblast growth factor 9 signaling through FGF receptor 3. *Cancer Research*, **2013**, 73, 5730-41	10.1	40

92	Beta-catenin deficiency causes DiGeorge syndrome-like phenotypes through regulation of Tbx1. *Development (Cambridge)*, **2010**, 137, 1137-47	6.6	39
91	A combined series of Fgf9 and Fgf18 mutant alleles identifies unique and redundant roles in skeletal development. *Developmental Biology*, **2016**, 411, 72-84	3.1	37
90	Fibroblast growth factor 2 decreases bleomycin-induced pulmonary fibrosis and inhibits fibroblast collagen production and myofibroblast differentiation. *Journal of Pathology*, **2018**, 246, 54-66	9.4	37
89	FGF14 localization and organization of the axon initial segment. *Molecular and Cellular Neurosciences*, **2013**, 56, 393-403	4.8	37
88	Healing of non-displaced fractures produced by fatigue loading of the mouse ulna. *Bone*, **2010**, 46, 1604-12	4.2	37
87	Injury-Mediated Vascular Regeneration Requires Endothelial ER71/ETV2. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 86-96	9.4	36
86	Intracellular FGF14 (iFGF14) Is Required for Spontaneous and Evoked Firing in Cerebellar Purkinje Neurons and for Motor Coordination and Balance. *Journal of Neuroscience*, **2015**, 35, 6752-69	6.6	36
85	Pulmonary fibrosis requires cell-autonomous mesenchymal fibroblast growth factor (FGF) signaling. *Journal of Biological Chemistry*, **2017**, 292, 10364-10378	5.4	35
84	Regulation of cellular calcium in vestibular supporting cells by otopetrin 1. *Journal of Neurophysiology*, **2010**, 104, 3439-50	3.2	33
83	Homodimerization controls the fibroblast growth factor 9 subfamily's receptor binding and heparan sulfate-dependent diffusion in the extracellular matrix. *Molecular and Cellular Biology*, **2009**, 29, 4663-78	4.8	33
82	The fibroblast growth factor receptor-1 is necessary for the induction of neurite outgrowth in PC12 cells by aFGF. *Journal of Neuroscience*, **1996**, 16, 4579-87	6.6	32
81	Endothelial fibroblast growth factor receptor signaling is required for vascular remodeling following cardiac ischemia-reperfusion injury. *American Journal of Physiology - Heart and Circulatory Physiology*, **2016**, 310, H559-71	5.2	31
80	Regulation of chondrocyte growth and differentiation by fibroblast growth factor receptor 3. *Novartis Foundation Symposium*, **2001**, 232, 63-76; discussion 76-80, 272-82		30
79	Otopetrin 1 activation by purinergic nucleotides regulates intracellular calcium. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 12023-8	11.5	29
78	Fibroblast Growth Factor 9 Regulation by MicroRNAs Controls Lung Development and Links DICER1 Loss to the Pathogenesis of Pleuropulmonary Blastoma. *PLoS Genetics*, **2015**, 11, e1005242	6	28
77	Fibroblast growth factor receptor 1 signaling in adult cardiomyocytes increases contractility and results in a hypertrophic cardiomyopathy. *PLoS ONE*, **2013**, 8, e82979	3.7	28
76	Effect of FGF/FGFR pathway blocking on lung adenocarcinoma and its cancer-associated fibroblasts. *Journal of Pathology*, **2019**, 249, 193-205	9.4	27
75	Fibroblast growth factors in skeletal development. *Current Topics in Developmental Biology*, **2019**, 133, 195-234	5.3	26

74	Fibroblast growth factor 2 is an essential cardioprotective factor in a closed-chest model of cardiac ischemia-reperfusion injury. *Physiological Reports*, **2015**, 3, e12278	2.6	25
73	Rebuilding the coronary vasculature: hedgehog as a new candidate for pharmacologic revascularization. *Trends in Cardiovascular Medicine*, **2007**, 17, 77-83	6.9	24
72	Clec16a is Critical for Autolysosome Function and Purkinje Cell Survival. *Scientific Reports*, **2016**, 6, 23326	4.9	23
71	Missense mutations in Otopetrin 1 affect subcellular localization and inhibition of purinergic signaling in vestibular supporting cells. *Molecular and Cellular Neurosciences*, **2011**, 46, 655-61	4.8	23
70	Identification of the Otopetrin Domain, a conserved domain in vertebrate otopetrins and invertebrate otopetrin-like family members. *BMC Evolutionary Biology*, **2008**, 8, 41	3	22
69	Fibroblast growth factor receptor 3 gene transcription is suppressed by cyclic adenosine 3$5$monophosphate. Identification of a chondrocytic regulatory element. *Journal of Biological Chemistry*, **1999**, 274, 30934-42	5.4	22
68	Characterization of the cell of origin and propagation potential of the fibroblast growth factor 9-induced mouse model of lung adenocarcinoma. *Journal of Pathology*, **2015**, 235, 593-605	9.4	20
67	In vitro calcite crystal morphology is modulated by otoconial proteins otolin-1 and otoconin-90. *PLoS ONE*, **2014**, 9, e95333	3.7	20
66	In vitro effects of recombinant otoconin 90 upon calcite crystal growth. Significance of tertiary structure. *Hearing Research*, **2010**, 268, 172-83	3.9	19
65	FGFR2 Is Required for AEC2 Homeostasis and Survival after Bleomycin-induced Lung Injury. *American Journal of Respiratory Cell and Molecular Biology*, **2020**, 62, 608-621	5.7	19
64	Mesenchymal fibroblast growth factor receptor signaling regulates palatal shelf elevation during secondary palate formation. *Developmental Dynamics*, **2015**, 244, 1427-38	2.9	18
63	Region-specific regulation of cell proliferation by FGF receptor signaling during the Wolffian duct development. *Developmental Biology*, **2015**, 400, 139-47	3.1	18
62	Novel tool to suppress cell proliferation in vivo demonstrates that myocardial and coronary vascular growth represent distinct developmental programs. *Developmental Dynamics*, **2008**, 237, 713-24	2.9	18
61	FGF2-induced STAT3 activation regulates pathologic neovascularization. *Experimental Eye Research*, **2019**, 187, 107775	3.7	17
60	OVOL2 is a critical regulator of ER71/ETV2 in generating FLK1+, hematopoietic, and endothelial cells from embryonic stem cells. *Blood*, **2014**, 124, 2948-52	2.2	17
59	FGF9 and FGF10 activate distinct signaling pathways to direct lung epithelial specification and branching. *Science Signaling*, **2020**, 13,	8.8	16
58	Tumor associated macrophages support the growth of FGF9-induced lung adenocarcinoma by multiple mechanisms. *Lung Cancer*, **2018**, 119, 25-35	5.9	16
57	Synthesis and Fibroblast Growth Factor Binding of Oligosaccharides Related to Heparin and Heparan Sulphate. *Journal of Carbohydrate Chemistry*, **1995**, 14, 95-113	1.7	15

56	Impaired tumor growth and angiogenesis in mice heterozygous for Vegfr2 (Flk1). *Scientific Reports*, **2018**, 8, 14724	4.9	15
55	Generation and validation of novel conditional flox and inducible Cre alleles targeting fibroblast growth factor 18 (Fgf18). *Developmental Dynamics*, **2019**, 248, 882-893	2.9	14
54	Tissue-specific expression of pancreatic genes in transgenic mice. *Annals of the New York Academy of Sciences*, **1986**, 478, 131-46	6.5	14
53	Catenin is required for radial cell patterning and identity in the developing mouse cochlea. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 21054-21060	11.5	14
52	Dual transgene expression in murine cerebellar Purkinje neurons by viral transduction in vivo. *PLoS ONE*, **2014**, 9, e104062	3.7	13
51	Role of Fgf receptor 2c in adipocyte hypertrophy in mesenteric white adipose tissue. *Molecular and Cellular Endocrinology*, **2008**, 287, 13-9	4.4	12
50	Molecular mechanisms underlying ectopic otoconia-like particles in the endolymphatic sac of embryonic mice. *Hearing Research*, **2004**, 194, 65-72	3.9	12
49	Engineering a Cysteine-Free Form of Human Fibroblast Growth Factor-1 for "Second Generation" Therapeutic Application. *Journal of Pharmaceutical Sciences*, **2016**, 105, 1444-53	3.9	12
48	Identification of a FGF18-expressing alveolar myofibroblast that is developmentally cleared during alveologenesis. *Development (Cambridge)*, **2020**, 147,	6.6	12
47	Osteocyte Death and Bone Overgrowth in Mice Lacking Fibroblast Growth Factor Receptors 1 and 2 in Mature Osteoblasts and Osteocytes. *Journal of Bone and Mineral Research*, **2019**, 34, 1660-1675	6.3	11
46	Characterisation of endogenous players in fibroblast growth factor-regulated functions of hypothalamic tanycytes and energy-balance nuclei. *Journal of Neuroendocrinology*, **2019**, 31, e12750	3.8	11
45	FGF20-Expressing, Wnt-Responsive Olfactory Epithelial Progenitors Regulate Underlying Turbinate Growth to Optimize Surface Area. *Developmental Cell*, **2018**, 46, 564-580.e5	10.2	11
44	Determination of fibroblast growth factor receptor expression in mouse, rat and human samples using a single primer pair. *BioTechniques*, **1997**, 22, 1068-70	2.5	11
43	Elevated Fibroblast Growth Factor Signaling Is Critical for the Pathogenesis of the Dwarfism in Evc2/Limbin Mutant Mice. *PLoS Genetics*, **2016**, 12, e1006510	6	11
42	Inhibition of fibroblast growth factor receptor 3-dependent lung adenocarcinoma with a human monoclonal antibody. *DMM Disease Models and Mechanisms*, **2016**, 9, 563-71	4.1	11
41	Neural crest-derived neurons invade the ovary but not the testis during mouse gonad development. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 5570-5575	11.5	11
40	Ectodysplasin target gene Fgf20 regulates mammary bud growth and ductal invasion and branching during puberty. *Scientific Reports*, **2017**, 7, 5049	4.9	10
39	Lineage-specific evolution of the vertebrate Otopetrin gene family revealed by comparative genomic analyses. *BMC Evolutionary Biology*, **2011**, 11, 23	3	10

38	Physical mapping of the mouse tilted locus identifies an association between human deafness loci DFNA6/14 and vestibular system development. *Genomics*, **2001**, 77, 189-99	4.3	10
37	Sox2 and FGF20 interact to regulate organ of Corti hair cell and supporting cell development in a spatially-graded manner. *PLoS Genetics*, **2019**, 15, e1008254	6	9
36	High-resolution mapping of tlt, a mouse mutant lacking otoconia. *Mammalian Genome*, **1999**, 10, 544-8	3.2	9
35	Diagnosis and Pathophysiological Mechanisms of Group 3 Hypoxia-Induced Pulmonary Hypertension. *Current Treatment Options in Cardiovascular Medicine*, **2019**, 21, 16	2.1	8
34	A high-resolution radiation hybrid map of the proximal portion of mouse chromosome 5. *Genomics*, **2000**, 66, 55-64	4.3	7
33	The Fgf8 subfamily (Fgf8, Fgf17 and Fgf18) is required for closure of the embryonic ventral body wall. *Development (Cambridge)*, **2020**, 147,	6.6	7
32	Sculpting the skull through neurosensory epithelial-mesenchymal signaling. *Developmental Dynamics*, **2019**, 248, 88-97	2.9	7
31	Genomic organization and embryonic expression of the mouse fibroblast growth factor 9 gene **1999**, 216, 72		7
30	Proteomic analysis of native cerebellar iFGF14 complexes. *Channels*, **2016**, 10, 297-312	3	6
29	The FGF ligandReceptor signaling system in chondrogenesis, osteogenesis and vascularization of the endochondral skeleton. *International Congress Series*, **2007**, 1302, 67-78		6
28	BK1: an FGF-responsive central nervous system-derived cell line. *Growth Factors*, **1995**, 12, 49-55	1.6	5
27	Mouse genetics identifies unique and overlapping functions of fibroblast growth factor receptors in keratinocytes. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 1774-1785	5.6	5
26	Endothelial FGF signaling is protective in hypoxia-induced pulmonary hypertension. *Journal of Clinical Investigation*, **2021**, 131,	15.9	5
25	Analysis of FGF20-regulated genes in organ of Corti progenitors by translating ribosome affinity purification. *Developmental Dynamics*, **2020**, 249, 1217-1242	2.9	4
24	Digenic Variants in the FGF21 Signaling Pathway Associated with Severe Insulin Resistance and Pseudoacromegaly. *Journal of the Endocrine Society*, **2020**, 4, bvaa138	0.4	4
23	Crouzon syndrome mouse model exhibits cartilage hyperproliferation and defective segmentation in the developing trachea. *Science China Life Sciences*, **2019**, 62, 1375-1380	8.5	3
22	FGF Signaling in Skeletal Development. *Fetal and Pediatric Pathology*, **1998**, 18, 355-379		3
21	Mapping the mouse otoconin-90 (Oc90) gene to chromosome 15. *Genomics*, **1999**, 58, 214-5	4.3	3

20	FAM20B-catalyzed glycosaminoglycans control murine tooth number by restricting FGFR2b signaling. *BMC Biology*, **2020**, 18, 87	7.3	3
19	Regenerative responses of rabbit corneal endothelial cells to stimulation by fibroblast growth factor 1 (FGF1) derivatives, TTHX1001 and TTHX1114. *Growth Factors*, **2021**, 1-14	1.6	2
18	Geminin is required for Hox gene regulation to pattern the developing limb. *Developmental Biology*, **2020**, 464, 11-23	3.1	2
17	Upregulation of FGF9 in Lung Adenocarcinoma Transdifferentiation to Small Cell Lung Cancer. *Cancer Research*, **2021**, 81, 3916-3929	10.1	2
16	Deletion of Fibroblast growth factor 9 globally and in skeletal muscle results in enlarged tuberosities at sites of deltoid tendon attachments. *Developmental Dynamics*, **2021**, 250, 1778-1795	2.9	2
15	FGF20-FGFR1 signaling through MAPK and PI3K controls sensory progenitor differentiation in the organ of Corti. *Developmental Dynamics*, **2021**, 250, 134-144	2.9	2
14	An Introduction to the Fibroblast Growth Factors **2017**, 1-39		1
13	An S116R Phosphorylation Site Mutation in Human Fibroblast Growth Factor-1 Differentially Affects Mitogenic and Glucose-Lowering Activities. *Journal of Pharmaceutical Sciences*, **2016**, 105, 3507-3519	3.9	1
12	The Epicardial Signaling Center in Development and Disease **2010**, 345-359		1
11	New developments in the biology of fibroblast growth factors.. *WIREs Mechanisms of Disease*, **2022**, e1549	8.3	1
10	ETV4 and ETV5 drive synovial sarcoma through cell cycle and DUX4 embryonic pathway control. *Journal of Clinical Investigation*, **2021**, 131,	15.9	1
9	FGFs, heparan sulfate and FGFRs: complex interactions essential for development **2000**, 22, 108		1
8	Fibroblast Growth Factor Receptors **1997**, 151-174		1
7	Molecular mechanisms underlying ectopic otoconia-like particles in the endolymphatic sac of embryonic mice. *Maturitas*, **2004**, 194, 65-65	5	
6	Targeted expression of cloned genes in transgenic mice. *Progress in Brain Research*, **1987**, 71, 3-12	2.9	
5	Regulating Gene Expression in Mammalian Cell Culture and Transgenic Mice with Yeast GAL4/UAS Control Elements **1992**, 155-172		
4	Catenin deficiency causes DiGeorge syndrome-like phenotypes through regulation of Tbx1. *Journal of Cell Science*, **2010**, 123, e1-e1	5.3	
3	Growth Factor Signaling Pathways in Lung Development and Cancer. *FASEB Journal*, **2012**, 26, 206.4	0.9	

2 Endothelial Blood-Bone Marrow-Barrier Dynamically Regulates Balanced Stem and Progenitor Cell Trafficking and Maintenance. *Blood*, **2012**, 120, 507-507 2.2

1 Fibroblast growth factor (FGF) and FGF receptor families in bone **2020**, 1113-1140