

Andrew P McMahon

List of Publications by Citations

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289
papers

56,963
citations

128
h-index

237
g-index

306
ext. papers

62,255
ext. citations

13
avg, IF

7.65
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 289 | Hedgehog signaling in animal development: paradigms and principles. <i>Genes and Development</i> , 2001 , 15, 3059-87 | 12.6 | 2307 |
| 288 | Sonic hedgehog, a member of a family of putative signaling molecules, is implicated in the regulation of CNS polarity. <i>Cell</i> , 1993 , 75, 1417-30 | 56.2 | 1814 |
| 287 | The Wnt-1 (int-1) proto-oncogene is required for development of a large region of the mouse brain. <i>Cell</i> , 1990 , 62, 1073-85 | 56.2 | 1362 |
| 286 | Canonical Wnt signaling in differentiated osteoblasts controls osteoclast differentiation. <i>Developmental Cell</i> , 2005 , 8, 751-64 | 10.2 | 1242 |
| 285 | Hedgehog and Bmp genes are coexpressed at many diverse sites of cell-cell interaction in the mouse embryo. <i>Developmental Biology</i> , 1995 , 172, 126-38 | 3.1 | 1221 |
| 284 | Fate tracing reveals the pericyte and not epithelial origin of myofibroblasts in kidney fibrosis. <i>American Journal of Pathology</i> , 2010 , 176, 85-97 | 5.8 | 1072 |
| 283 | Modification of gene activity in mouse embryos in utero by a tamoxifen-inducible form of Cre recombinase. <i>Current Biology</i> , 1998 , 8, 1323-6 | 6.3 | 1065 |
| 282 | Efficient recombination in diverse tissues by a tamoxifen-inducible form of Cre: a tool for temporally regulated gene activation/inactivation in the mouse. <i>Developmental Biology</i> , 2002 , 244, 305-18 | 3.1 | 1020 |
| 281 | Female development in mammals is regulated by Wnt-4 signalling. <i>Nature</i> , 1999 , 397, 405-9 | 50.4 | 982 |
| 280 | Epithelial transformation of metanephric mesenchyme in the developing kidney regulated by Wnt-4. <i>Nature</i> , 1994 , 372, 679-83 | 50.4 | 872 |
| 279 | Evidence for an expansion-based temporal Shh gradient in specifying vertebrate digit identities. <i>Cell</i> , 2004 , 118, 517-28 | 56.2 | 780 |
| 278 | Distinct roles for Hedgehog and canonical Wnt signaling in specification, differentiation and maintenance of osteoblast progenitors. <i>Development (Cambridge)</i> , 2006 , 133, 3231-44 | 6.6 | 751 |
| 277 | Noggin, cartilage morphogenesis, and joint formation in the mammalian skeleton. <i>Science</i> , 1998 , 280, 1455-7 | 33.3 | 705 |
| 276 | Sonic hedgehog--regulated oligodendrocyte lineage genes encoding bHLH proteins in the mammalian central nervous system. <i>Neuron</i> , 2000 , 25, 317-29 | 13.9 | 704 |
| 275 | Developmental roles and clinical significance of hedgehog signaling. <i>Current Topics in Developmental Biology</i> , 2003 , 53, 1-114 | 5.3 | 696 |
| 274 | Six2 defines and regulates a multipotent self-renewing nephron progenitor population throughout mammalian kidney development. <i>Cell Stem Cell</i> , 2008 , 3, 169-81 | 18 | 692 |
| 273 | Wnt9b plays a central role in the regulation of mesenchymal to epithelial transitions underlying organogenesis of the mammalian urogenital system. <i>Developmental Cell</i> , 2005 , 9, 283-92 | 10.2 | 662 |

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|-----|---|------|-----|
| 272 | Intrinsic epithelial cells repair the kidney after injury. <i>Cell Stem Cell</i> , 2008 , 2, 284-91 | 18 | 651 |
| 271 | Vertebrate Hedgehog signalling modulated by induction of a Hedgehog-binding protein. <i>Nature</i> , 1999 , 397, 617-21 | 50.4 | 640 |
| 270 | Dorsalizing signal Wnt-7a required for normal polarity of D-V and A-P axes of mouse limb. <i>Nature</i> , 1995 , 374, 350-3 | 50.4 | 630 |
| 269 | Wnt signalling required for expansion of neural crest and CNS progenitors. <i>Nature</i> , 1997 , 389, 966-70 | 50.4 | 595 |
| 268 | Sonic hedgehog is required for progenitor cell maintenance in telencephalic stem cell niches. <i>Neuron</i> , 2003 , 39, 937-50 | 13.9 | 590 |
| 267 | Expression of the proto-oncogene int-1 is restricted to specific neural cells in the developing mouse embryo. <i>Cell</i> , 1987 , 50, 79-88 | 56.2 | 547 |
| 266 | Neural tube, skeletal and body wall defects in mice lacking transcription factor AP-2. <i>Nature</i> , 1996 , 381, 238-41 | 50.4 | 540 |
| 265 | Sertoli cell signaling by Desert hedgehog regulates the male germline. <i>Current Biology</i> , 1996 , 6, 298-304 | 6.3 | 535 |
| 264 | Sonic hedgehog regulates branching morphogenesis in the mammalian lung. <i>Current Biology</i> , 1998 , 8, 1083-6 | 6.3 | 523 |
| 263 | Pattern formation in the vertebrate neural tube: a sonic hedgehog morphogen-regulated transcriptional network. <i>Development (Cambridge)</i> , 2008 , 135, 2489-503 | 6.6 | 521 |
| 262 | The morphogen sonic hedgehog is an axonal chemoattractant that collaborates with netrin-1 in midline axon guidance. <i>Cell</i> , 2003 , 113, 11-23 | 56.2 | 521 |
| 261 | A mitogen gradient of dorsal midline Wnts organizes growth in the CNS. <i>Development (Cambridge)</i> , 2002 , 129, 2087-2098 | 6.6 | 500 |
| 260 | Acquisition of granule neuron precursor identity is a critical determinant of progenitor cell competence to form Shh-induced medulloblastoma. <i>Cancer Cell</i> , 2008 , 14, 123-34 | 24.3 | 482 |
| 259 | The world according to hedgehog. <i>Trends in Genetics</i> , 1997 , 13, 14-21 | 8.5 | 480 |
| 258 | Smoothed Mutants Reveal Redundant Roles for Shh and Ihh Signaling Including Regulation of L/R Asymmetry by the Mouse Node. <i>Cell</i> , 2001 , 105, 781-792 | 56.2 | 472 |
| 257 | Genetic manipulation of hedgehog signaling in the endochondral skeleton reveals a direct role in the regulation of chondrocyte proliferation. <i>Development (Cambridge)</i> , 2001 , 128, 5099-5108 | 6.6 | 458 |
| 256 | The dynamics of methylammonium ions in hybrid organic-inorganic perovskite solar cells. <i>Nature Communications</i> , 2015 , 6, 7124 | 17.4 | 446 |
| 255 | Canonical Wnt signaling regulates organ-specific assembly and differentiation of CNS vasculature. <i>Science</i> , 2008 , 322, 1247-50 | 33.3 | 441 |

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|-----|---|------|-----|
| 254 | Hedgehog signaling in the neural crest cells regulates the patterning and growth of facial primordia. <i>Genes and Development</i> , 2004 , 18, 937-51 | 12.6 | 441 |
| 253 | Ectopic expression of the proto-oncogene int-1 in <i>Xenopus</i> embryos leads to duplication of the embryonic axis. <i>Cell</i> , 1989 , 58, 1075-84 | 56.2 | 439 |
| 252 | Requirement of 19K form of Sonic hedgehog for induction of distinct ventral cell types in CNS explants. <i>Nature</i> , 1995 , 375, 322-5 | 50.4 | 424 |
| 251 | Cholesterol modification of sonic hedgehog is required for long-range signaling activity and effective modulation of signaling by Ptc1. <i>Cell</i> , 2001 , 105, 599-612 | 56.2 | 419 |
| 250 | Signal relay by BMP antagonism controls the SHH/FGF4 feedback loop in vertebrate limb buds. <i>Nature</i> , 1999 , 401, 598-602 | 50.4 | 392 |
| 249 | Neural crest origins of the neck and shoulder. <i>Nature</i> , 2005 , 436, 347-55 | 50.4 | 378 |
| 248 | Wnt11 and Ret/Gdnf pathways cooperate in regulating ureteric branching during metanephric kidney development. <i>Development (Cambridge)</i> , 2003 , 130, 3175-85 | 6.6 | 371 |
| 247 | Mouse brain organization revealed through direct genome-scale TF expression analysis. <i>Science</i> , 2004 , 306, 2255-7 | 33.3 | 339 |
| 246 | The zebrafish organizer requires chordino. <i>Nature</i> , 1997 , 387, 862-3 | 50.4 | 338 |
| 245 | WNT7b mediates macrophage-induced programmed cell death in patterning of the vasculature. <i>Nature</i> , 2005 , 437, 417-21 | 50.4 | 335 |
| 244 | Noggin is a mesenchymally derived stimulator of hair-follicle induction. <i>Nature Cell Biology</i> , 1999 , 1, 158-64 | 50.4 | 323 |
| 243 | Sonic hedgehog regulates proliferation and inhibits differentiation of CNS precursor cells. <i>Journal of Neuroscience</i> , 1999 , 19, 8954-65 | 6.6 | 316 |
| 242 | Ihh signaling is directly required for the osteoblast lineage in the endochondral skeleton. <i>Development (Cambridge)</i> , 2004 , 131, 1309-18 | 6.6 | 314 |
| 241 | BMP and Ihh/PTHrP signaling interact to coordinate chondrocyte proliferation and differentiation. <i>Development (Cambridge)</i> , 2001 , 128, 4523-4534 | 6.6 | 313 |
| 240 | Sonic hedgehog regulates proliferation and differentiation of mesenchymal cells in the mouse metanephric kidney. <i>Development (Cambridge)</i> , 2002 , 129, 5301-5312 | 6.6 | 309 |
| 239 | Indian hedgehog couples chondrogenesis to osteogenesis in endochondral bone development. <i>Journal of Clinical Investigation</i> , 2001 , 107, 295-304 | 15.9 | 308 |
| 238 | 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 |
| 237 | Efficient gene modulation in mouse epiblast using a Sox2Cre transgenic mouse strain. <i>Mechanisms of Development</i> , 2002 , 119 Suppl 1, S97-S101 | 1.7 | 306 |

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| 236 | The cell surface membrane proteins Cdo and Boc are components and targets of the Hedgehog signaling pathway and feedback network in mice. <i>Developmental Cell</i> , 2006 , 10, 647-56 | 10.2 | 298 |
| 235 | Sprouty1 is a critical regulator of GDNF/RET-mediated kidney induction. <i>Developmental Cell</i> , 2005 , 8, 229-39 | 10.2 | 295 |
| 234 | Dicer-dependent pathways regulate chondrocyte proliferation and differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1949-54 | 11.5 | 289 |
| 233 | Mammalian kidney development: principles, progress, and projections. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012 , 4, | 10.2 | 285 |
| 232 | Sexually dimorphic development of the mammalian reproductive tract requires Wnt-7a. <i>Nature</i> , 1998 , 395, 707-10 | 50.4 | 282 |
| 231 | Notch2, but not Notch1, is required for proximal fate acquisition in the mammalian nephron. <i>Development (Cambridge)</i> , 2007 , 134, 801-11 | 6.6 | 281 |
| 230 | Schwann cell-derived Desert hedgehog controls the development of peripheral nerve sheaths. <i>Neuron</i> , 1999 , 23, 713-24 | 13.9 | 274 |
| 229 | Distinct and sequential tissue-specific activities of the LIM-class homeobox gene Lim1 for tubular morphogenesis during kidney development. <i>Development (Cambridge)</i> , 2005 , 132, 2809-23 | 6.6 | 269 |
| 228 | Disruption of Fgf10/Fgfr2b-coordinated epithelial-mesenchymal interactions causes cleft palate. <i>Journal of Clinical Investigation</i> , 2004 , 113, 1692-700 | 15.9 | 265 |
| 227 | A mitogen gradient of dorsal midline Wnts organizes growth in the CNS. <i>Development (Cambridge)</i> , 2002 , 129, 2087-98 | 6.6 | 264 |
| 226 | Conditional mouse osteosarcoma, dependent on p53 loss and potentiated by loss of Rb, mimics the human disease. <i>Genes and Development</i> , 2008 , 22, 1662-76 | 12.6 | 262 |
| 225 | Wnt/beta-catenin signaling regulates nephron induction during mouse kidney development. <i>Development (Cambridge)</i> , 2007 , 134, 2533-9 | 6.6 | 261 |
| 224 | Sonic hedgehog signaling is required for expansion of granule neuron precursors and patterning of the mouse cerebellum. <i>Developmental Biology</i> , 2004 , 270, 393-410 | 3.1 | 258 |
| 223 | Analysis of epithelial-mesenchymal interactions in the initial morphogenesis of the mammalian tooth. <i>Developmental Biology</i> , 1998 , 202, 215-27 | 3.1 | 253 |
| 222 | Noncanonical Wnt signaling through G protein-linked PKCdelta activation promotes bone formation. <i>Developmental Cell</i> , 2007 , 12, 113-27 | 10.2 | 249 |
| 221 | The whereabouts of a morphogen: direct evidence for short- and graded long-range activity of hedgehog signaling peptides. <i>Developmental Biology</i> , 2001 , 236, 364-86 | 3.1 | 242 |
| 220 | Osr1 expression demarcates a multi-potent population of intermediate mesoderm that undergoes progressive restriction to an Osr1-dependent nephron progenitor compartment within the mammalian kidney. <i>Developmental Biology</i> , 2008 , 324, 88-98 | 3.1 | 240 |
| 219 | The cdx genes and retinoic acid control the positioning and segmentation of the zebrafish pronephros. <i>PLoS Genetics</i> , 2007 , 3, 1922-38 | 6 | 240 |

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| 218 | Ectodermal Wnt3/beta-catenin signaling is required for the establishment and maintenance of the apical ectodermal ridge. <i>Genes and Development</i> , 2003 , 17, 394-409 | 12.6 | 240 |
| 217 | Evidence that absence of Wnt-3a signaling promotes neuralization instead of paraxial mesoderm development in the mouse. <i>Developmental Biology</i> , 1997 , 183, 234-42 | 3.1 | 238 |
| 216 | Engrailed-1 as a target of the Wnt-1 signalling pathway in vertebrate midbrain development. <i>Nature</i> , 1996 , 383, 332-4 | 50.4 | 238 |
| 215 | A genome-scale analysis of the cis-regulatory circuitry underlying sonic hedgehog-mediated patterning of the mammalian limb. <i>Genes and Development</i> , 2008 , 22, 2651-63 | 12.6 | 236 |
| 214 | Wnt expression patterns in chick embryo nervous system. <i>Mechanisms of Development</i> , 1995 , 52, 9-25 | 1.7 | 231 |
| 213 | Monitoring and robust induction of nephrogenic intermediate mesoderm from human pluripotent stem cells. <i>Nature Communications</i> , 2013 , 4, 1367 | 17.4 | 229 |
| 212 | Essential function of Wnt-4 in mammary gland development downstream of progesterone signaling. <i>Genes and Development</i> , 2000 , 14, 650-654 | 12.6 | 224 |
| 211 | A novel somatic mouse model to survey tumorigenic potential applied to the Hedgehog pathway. <i>Cancer Research</i> , 2006 , 66, 10171-8 | 10.1 | 223 |
| 210 | Feedback control of mammalian Hedgehog signaling by the Hedgehog-binding protein, Hip1, modulates Fgf signaling during branching morphogenesis of the lung. <i>Genes and Development</i> , 2003 , 17, 342-7 | 12.6 | 223 |
| 209 | Sox17 promotes differentiation in mouse embryonic stem cells by directly regulating extraembryonic gene expression and indirectly antagonizing self-renewal. <i>Genes and Development</i> , 2010 , 24, 312-26 | 12.6 | 219 |
| 208 | Genomic characterization of Gli-activator targets in sonic hedgehog-mediated neural patterning. <i>Development (Cambridge)</i> , 2007 , 134, 1977-89 | 6.6 | 219 |
| 207 | A direct requirement for Hedgehog signaling for normal specification of all ventral progenitor domains in the presumptive mammalian spinal cord. <i>Genes and Development</i> , 2002 , 16, 2849-64 | 12.6 | 214 |
| 206 | Sonic hedgehog regulates proliferation and differentiation of mesenchymal cells in the mouse metanephric kidney. <i>Development (Cambridge)</i> , 2002 , 129, 5301-12 | 6.6 | 214 |
| 205 | Shh signaling within the dental epithelium is necessary for cell proliferation, growth and polarization. <i>Development (Cambridge)</i> , 2002 , 129, 5323-37 | 6.6 | 208 |
| 204 | Chronic epithelial kidney injury molecule-1 expression causes murine kidney fibrosis. <i>Journal of Clinical Investigation</i> , 2013 , 123, 4023-35 | 15.9 | 207 |
| 203 | Introduction of cloned DNA into sea urchin egg cytoplasm: replication and persistence during embryogenesis. <i>Developmental Biology</i> , 1985 , 108, 420-30 | 3.1 | 206 |
| 202 | Overlapping roles and collective requirement for the coreceptors GAS1, CDO, and BOC in SHH pathway function. <i>Developmental Cell</i> , 2011 , 20, 775-87 | 10.2 | 205 |
| 201 | Osteoblastic regulation of B lymphopoiesis is mediated by Gs{alpha}-dependent signaling pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 16976-81 | 11.5 | 202 |

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| 200 | GUDMAP: the genitourinary developmental molecular anatomy project. <i>Journal of the American Society of Nephrology: JASN</i> , 2008 , 19, 667-71 | 12.7 | 197 |
| 199 | The Hedgehog-binding proteins Gas1 and Cdo cooperate to positively regulate Shh signaling during mouse development. <i>Genes and Development</i> , 2007 , 21, 1244-57 | 12.6 | 197 |
| 198 | Analysis of early nephron patterning reveals a role for distal RV proliferation in fusion to the ureteric tip via a cap mesenchyme-derived connecting segment. <i>Developmental Biology</i> , 2009 , 332, 273-86 ¹ | 3.1 | 196 |
| 197 | The GUDMAP database--an online resource for genitourinary research. <i>Development (Cambridge)</i> , 2011 , 138, 2845-53 | 6.6 | 190 |
| 196 | Indian hedgehog stimulates periarticular chondrocyte differentiation to regulate growth plate length independently of PTHrP. <i>Journal of Clinical Investigation</i> , 2005 , 115, 1734-42 | 15.9 | 188 |
| 195 | Hedgehog Signaling: From Basic Biology to Cancer Therapy. <i>Cell Chemical Biology</i> , 2017 , 24, 252-280 | 8.2 | 186 |
| 194 | More surprises in the Hedgehog signaling pathway. <i>Cell</i> , 2000 , 100, 185-8 | 56.2 | 186 |
| 193 | Dorsoventral patterning is established in the telencephalon of mutants lacking both Gli3 and Hedgehog signaling. <i>Development (Cambridge)</i> , 2002 , 129, 4963-4974 | 6.6 | 186 |
| 192 | Atlas of gene expression in the developing kidney at microanatomic resolution. <i>Developmental Cell</i> , 2008 , 15, 781-91 | 10.2 | 184 |
| 191 | Global quantification of tissue dynamics in the developing mouse kidney. <i>Developmental Cell</i> , 2014 , 29, 188-202 | 10.2 | 179 |
| 190 | Six2 and Wnt regulate self-renewal and commitment of nephron progenitors through shared gene regulatory networks. <i>Developmental Cell</i> , 2012 , 23, 637-51 | 10.2 | 178 |
| 189 | Temporal differences in granulosa cell specification in the ovary reflect distinct follicle fates in mice. <i>Biology of Reproduction</i> , 2012 , 86, 37 | 3.9 | 178 |
| 188 | Boc and Gas1 each form distinct Shh receptor complexes with Ptch1 and are required for Shh-mediated cell proliferation. <i>Developmental Cell</i> , 2011 , 20, 788-801 | 10.2 | 175 |
| 187 | Genome-wide RNA Tomography in the zebrafish embryo. <i>Cell</i> , 2014 , 159, 662-75 | 56.2 | 174 |
| 186 | A Wnt7b-dependent pathway regulates the orientation of epithelial cell division and establishes the cortico-medullary axis of the mammalian kidney. <i>Development (Cambridge)</i> , 2009 , 136, 161-71 | 6.6 | 174 |
| 185 | Notochord-derived Shh concentrates in close association with the apically positioned basal body in neural target cells and forms a dynamic gradient during neural patterning. <i>Development (Cambridge)</i> , 2008 , 135, 1097-106 | 6.6 | 173 |
| 184 | Regulation of skeletogenic differentiation in cranial dermal bone. <i>Development (Cambridge)</i> , 2007 , 134, 3133-44 | 6.6 | 166 |
| 183 | Growth and pattern of the mammalian neural tube are governed by partially overlapping feedback activities of the hedgehog antagonists patched 1 and Hhip1. <i>Development (Cambridge)</i> , 2005 , 132, 143-54 ⁶ | 6.6 | 165 |

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|-----|--|------|-----|
| 182 | Cloning, expression, and chromosomal location of SHH and IHH: two human homologues of the <i>Drosophila</i> segment polarity gene hedgehog. <i>Genomics</i> , 1995 , 28, 44-51 | 4.3 | 161 |
| 181 | Selective translocation of intracellular Smoothed to the primary cilium in response to Hedgehog pathway modulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2623-8 | 11.5 | 160 |
| 180 | Hedgehog signaling is essential for endothelial tube formation during vasculogenesis. <i>Development (Cambridge)</i> , 2004 , 131, 4371-80 | 6.6 | 160 |
| 179 | A genome-wide RNA interference screen in <i>Drosophila melanogaster</i> cells for new components of the Hh signaling pathway. <i>Nature Genetics</i> , 2005 , 37, 1323-32 | 36.3 | 159 |
| 178 | GDNF induces branching and increased cell proliferation in the ureter of the mouse. <i>Developmental Biology</i> , 1997 , 192, 193-8 | 3.1 | 154 |
| 177 | Identification of a multipotent self-renewing stromal progenitor population during mammalian kidney organogenesis. <i>Stem Cell Reports</i> , 2014 , 3, 650-62 | 8 | 150 |
| 176 | FGFR1 is independently required in both developing mid- and hindbrain for sustained response to isthmus signals. <i>EMBO Journal</i> , 2003 , 22, 1811-23 | 13 | 150 |
| 175 | Wnt genes and vertebrate development. <i>Current Opinion in Genetics and Development</i> , 1994 , 4, 523-8 | 4.9 | 150 |
| 174 | Hedgehog-Gli pathway activation during kidney fibrosis. <i>American Journal of Pathology</i> , 2012 , 180, 1441-58 | 5.8 | 145 |
| 173 | Transient expression of the bHLH factor neurogenin-2 marks a subpopulation of neural crest cells biased for a sensory but not a neuronal fate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 8084-9 | 11.5 | 144 |
| 172 | Modulation of morphogenesis by noncanonical Wnt signaling requires ATF/CREB family-mediated transcriptional activation of TGFbeta2. <i>Nature Genetics</i> , 2007 , 39, 1225-34 | 36.3 | 142 |
| 171 | Induction of dopaminergic neuron phenotype in the midbrain by Sonic hedgehog protein. <i>Nature Medicine</i> , 1995 , 1, 1184-8 | 50.5 | 141 |
| 170 | Pax-2 expression in the murine neural plate precedes and encompasses the expression domains of Wnt-1 and En-1. <i>Mechanisms of Development</i> , 1995 , 52, 3-8 | 1.7 | 140 |
| 169 | High-resolution gene expression analysis of the developing mouse kidney defines novel cellular compartments within the nephron progenitor population. <i>Developmental Biology</i> , 2009 , 333, 312-23 | 3.1 | 138 |
| 168 | Hedgehog signaling is dispensable for adult murine hematopoietic stem cell function and hematopoiesis. <i>Cell Stem Cell</i> , 2009 , 4, 559-67 | 18 | 136 |
| 167 | Apoptosis induced by vitamin A signaling is crucial for connecting the ureters to the bladder. <i>Nature Genetics</i> , 2005 , 37, 1082-9 | 36.3 | 136 |
| 166 | Development of the Mammalian Kidney. <i>Current Topics in Developmental Biology</i> , 2016 , 117, 31-64 | 5.3 | 134 |
| 165 | BMP signaling stimulates cellular differentiation at multiple steps during cartilage development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 18023-7 | 11.5 | 133 |

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|-----|---|------|-----|
| 164 | Beta-catenin is necessary to keep cells of ureteric bud/Wolffian duct epithelium in a precursor state. <i>Developmental Biology</i> , 2008 , 314, 112-26 | 3.1 | 131 |
| 163 | Hedgehog signaling controls mesenchymal growth in the developing mammalian digestive tract. <i>Development (Cambridge)</i> , 2010 , 137, 1721-9 | 6.6 | 129 |
| 162 | Temporal requirement for hedgehog signaling in ventral telencephalic patterning. <i>Development (Cambridge)</i> , 2004 , 131, 5031-40 | 6.6 | 128 |
| 161 | The limb bud Shh-Fgf feedback loop is terminated by expansion of former ZPA cells. <i>Science</i> , 2004 , 305, 396-9 | 33.3 | 126 |
| 160 | Single-Cell Profiling Reveals Sex, Lineage, and Regional Diversity in the Mouse Kidney. <i>Developmental Cell</i> , 2019 , 51, 399-413.e7 | 10.2 | 125 |
| 159 | Dicer regulates the development of nephrogenic and ureteric compartments in the mammalian kidney. <i>Kidney International</i> , 2011 , 79, 317-30 | 9.9 | 125 |
| 158 | Neural-specific Sox2 input and differential Gli-binding affinity provide context and positional information in Shh-directed neural patterning. <i>Genes and Development</i> , 2012 , 26, 2802-16 | 12.6 | 124 |
| 157 | Wnt7b stimulates embryonic lung growth by coordinately increasing the replication of epithelium and mesenchyme. <i>Development (Cambridge)</i> , 2008 , 135, 1625-34 | 6.6 | 124 |
| 156 | Wnt4/Ectatenin signaling in medullary kidney myofibroblasts. <i>Journal of the American Society of Nephrology: JASN</i> , 2013 , 24, 1399-412 | 12.7 | 123 |
| 155 | A sonic hedgehog-dependent signaling relay regulates growth of diencephalic and mesencephalic primordia in the early mouse embryo. <i>Development (Cambridge)</i> , 2002 , 129, 4807-4819 | 6.6 | 122 |
| 154 | Development of normal retinal organization depends on Sonic hedgehog signaling from ganglion cells. <i>Nature Neuroscience</i> , 2002 , 5, 831-2 | 25.5 | 120 |
| 153 | Wnt7b regulates placental development in mice. <i>Developmental Biology</i> , 2001 , 237, 324-32 | 3.1 | 119 |
| 152 | Conserved and Divergent Features of Human and Mouse Kidney Organogenesis. <i>Journal of the American Society of Nephrology: JASN</i> , 2018 , 29, 785-805 | 12.7 | 118 |
| 151 | Molecular characterization of the transition from acute to chronic kidney injury following ischemia/reperfusion. <i>JCI Insight</i> , 2017 , 2, | 9.9 | 117 |
| 150 | Cell-specific translational profiling in acute kidney injury. <i>Journal of Clinical Investigation</i> , 2014 , 124, 1242-54 | 12.5 | 115 |
| 149 | A high-resolution anatomical ontology of the developing murine genitourinary tract. <i>Gene Expression Patterns</i> , 2007 , 7, 680-99 | 1.5 | 114 |
| 148 | Distinct Transcriptional Programs Underlie Sox9 Regulation of the Mammalian Chondrocyte. <i>Cell Reports</i> , 2015 , 12, 229-43 | 10.6 | 113 |
| 147 | Conserved and Divergent Features of Mesenchymal Progenitor Cell Types within the Cortical Nephrogenic Niche of the Human and Mouse Kidney. <i>Journal of the American Society of Nephrology: JASN</i> , 2018 , 29, 806-824 | 12.7 | 113 |

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|-----|--|------|-----|
| 146 | Activation of expression of hedgehog target genes in basal cell carcinomas. <i>Journal of Investigative Dermatology</i> , 2001 , 116, 739-42 | 4.3 | 111 |
| 145 | Negative feedback mechanisms and their roles during pattern formation. <i>Cell</i> , 1999 , 97, 13-6 | 56.2 | 110 |
| 144 | Retinal ganglion cell-derived sonic hedgehog signaling is required for optic disc and stalk neuroepithelial cell development. <i>Development (Cambridge)</i> , 2003 , 130, 2967-80 | 6.6 | 106 |
| 143 | Progressive Recruitment of Mesenchymal Progenitors Reveals a Time-Dependent Process of Cell Fate Acquisition in Mouse and Human Nephrogenesis. <i>Developmental Cell</i> , 2018 , 45, 651-660.e4 | 10.2 | 104 |
| 142 | Sox9 Activation Highlights a Cellular Pathway of Renal Repair in the Acutely Injured Mammalian Kidney. <i>Cell Reports</i> , 2015 , 12, 1325-38 | 10.6 | 103 |
| 141 | Fgf-dependent Etv4/5 activity is required for posterior restriction of Sonic Hedgehog and promoting outgrowth of the vertebrate limb. <i>Developmental Cell</i> , 2009 , 16, 600-6 | 10.2 | 103 |
| 140 | A Simple Bioreactor-Based Method to Generate Kidney Organoids from Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2018 , 11, 470-484 | 8 | 102 |
| 139 | Wnt9b is the mutated gene involved in multifactorial nonsyndromic cleft lip with or without cleft palate in A/WySn mice, as confirmed by a genetic complementation test. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2006 , 76, 574-9 | | 102 |
| 138 | Shifting paradigms in Hedgehog signaling. <i>Current Opinion in Cell Biology</i> , 2007 , 19, 159-65 | 9 | 100 |
| 137 | Combined activities of hedgehog signaling inhibitors regulate pancreas development. <i>Development (Cambridge)</i> , 2003 , 130, 4871-9 | 6.6 | 97 |
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