Thomas J Carroll

List of Publications by Year
in descending order

56 papers	6,352 citations	126907 33 h-index	161849 54 g-index
58 all docs	58 docs citations	58 times ranked	6749 citing authors

#	Article	IF	Citations
1	Six2 Defines and Regulates a Multipotent Self-Renewing Nephron Progenitor Population throughout Mammalian Kidney Development. Cell Stem Cell, 2008, 3, 169-181.	11.1	815
2	Wnt9b Plays a Central Role in the Regulation of Mesenchymal to Epithelial Transitions Underlying Organogenesis of the Mammalian Urogenital System. Developmental Cell, 2005, 9, 283-292.	7.0	788
3	Sonic hedgehog regulates proliferation and differentiation of mesenchymal cells in the mouse metanephric kidney. Development (Cambridge), 2002, 129, 5301-5312.	2.5	377
4	Sprouty1 Is a Critical Regulator of GDNF/RET-Mediated Kidney Induction. Developmental Cell, 2005, 8, 229-239.	7.0	327
5	Wnt9b signaling regulates planar cell polarity and kidney tubule morphogenesis. Nature Genetics, 2009, 41, 793-799.	21.4	313
6	Distinct and sequential tissue-specific activities of the LIM-class homeobox geneLim1for tubular morphogenesis during kidney development. Development (Cambridge), 2005, 132, 2809-2823.	2.5	307
7	Noncanonical Wnt Signaling through G Protein-Linked PKCÎ´ Activation Promotes Bone Formation. Developmental Cell, 2007, 12, 113-127.	7.0	286
8	Canonical Wnt9b signaling balances progenitor cell expansion and differentiation during kidney development. Development (Cambridge), 2011, 138, 1247-1257.	2.5	254
9	Sonic hedgehog regulates proliferation and differentiation of mesenchymal cells in the mouse metanephric kidney. Development (Cambridge), 2002, 129, 5301-12.	2.5	216
10	Stromalâ€“epithelial crosstalk regulates kidney progenitor cell differentiation. Nature Cell Biology, 2013, 15, 1035-1044.	10.3	209
11	AWnt7b-dependent pathway regulates the orientation of epithelial cell division and establishes the cortico-medullary axis of the mammalian kidney. Development (Cambridge), 2009, 136, 161-171.	2.5	205
12	Vertebrate kidney tubules elongate using a planar cell polarityâ€“dependent, rosette-based mechanism of convergent extension. Nature Genetics, 2012, 44, 1382-1387.	21.4	197
13	Wnt7b stimulates embryonic lung growth by coordinately increasing the replication of epithelium and mesenchyme. Development (Cambridge), 2008, 135, 1625-1634.	2.5	147
14	Î²-Catenin is necessary to keep cells of ureteric bud/Wolffian duct epithelium in a precursor state. Developmental Biology, 2008, 314, 112-126.	2.0	138
15	Gata3 Acts Downstream of Î²-Catenin Signaling to Prevent Ectopic Metanephric Kidney Induction. PLoS Genetics, 2008, 4, e1000316.	3.5	126
16	Bap1 is essential for kidney function and cooperates with Vhl in renal tumorigenesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16538-16543.	7.1	123
17	Hemodynamic Forces Sculpt Developing Heart Valves through a KLF2-WNT9B Paracrine Signaling Axis. Developmental Cell, 2017, 43, 274-289.e5.	7.0	114
18	The Development of Highly Potent Inhibitors for Porcupine. Journal of Medicinal Chemistry, 2013, 56, 2700-2704.	6.4	94

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19	Programming of Schwann Cells by Lats1/2-TAZ/YAP Signaling Drives Malignant Peripheral Nerve Sheath Tumorigenesis. Cancer Cell, 2018, 33, 292-308.e7.	16.8	83
20	Planar cell polarity and vertebrate organogenesis. Seminars in Cell and Developmental Biology, 2006, 17, 194-203.	5.0	81
21	Molecular regulation of kidney development: is the answer blowing in the Wnt?. Pediatric Nephrology, 2007, 22, 1825-1838.	1.7	75
22	Diverse Chemical Scaffolds Support Direct Inhibition of the Membrane-bound O-Acyltransferase Porcupine. Journal of Biological Chemistry, 2012, 287, 23246-23254.	3.4	72
23	Spatiotemporal Loss of NF1 in Schwann Cell Lineage Leads to Different Types of Cutaneous Neurofibroma Susceptible to Modification by the Hippo Pathway. Cancer Discovery, 2019, 9, 114-129.	9.4	65
24	MYC activation cooperates with Vhl and Ink4a/Arf loss to induce clear cell renal cell carcinoma. Nature Communications, 2017, 8, 15770.	12.8	64
25	Identification and characterization of cellular heterogeneity within the developing renal interstitium. Development (Cambridge), 2020, 147, .	2.5	59
26	Wnt4 is essential to normal mammalian lung development. Developmental Biology, 2015, 406, 222-234.	2.0	58
27	Lkb1 deficiency confers glutamine dependency in polycystic kidney disease. Nature Communications, 2018, 9, 814.	12.8	55
28	Spatiotemporal heterogeneity and patterning of developing renal blood vessels. Angiogenesis, 2018, 21, 617-634.	7.2	55
29	Lrp4 Regulates Initiation of Ureteric Budding and Is Crucial for Kidney Formation â€“ A Mouse Model for Cenani-Lenz Syndrome. PLoS ONE, 2010, 5, e10418.	2.5	54
30	Apicalâ€“basal polarity, Wnt signaling and vertebrate organogenesis. Seminars in Cell and Developmental Biology, 2006, 17, 214-222.	5.0	51
31	Polycystin-1 binds Par3/aPKC and controls convergent extension during renal tubular morphogenesis. Nature Communications, 2013, 4, 2658.	12.8	48
32	Cdc42 regulates epithelial cell polarity and cytoskeletal function in kidney tubule development. Journal of Cell Science, 2015, 128, 4293-305.	2.0	39
33	Tankyrase is necessary for canonical Wnt signaling during kidney development. Developmental Dynamics, 2010, 239, 2014-2023.	1.8	38
34	The Kidney and Planar Cell Polarity. Current Topics in Developmental Biology, 2012, 101, 185-212.	2.2	34
35	Loss of Dis3l2 partially phenocopies Perlman syndrome in mice and results in up-regulation of Igf2 in nephron progenitor cells. Genes and Development, 2018, 32, 903-908.	5.9	34
36	Disparate levels of beta-catenin activity determine nephron progenitor cell fate. Developmental Biology, 2018, 440, 13-21.	2.0	33

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37	Defining the Signals that Constitute the Nephron Progenitor Niche. Journal of the American Society of Nephrology: JASN, 2013, 24, 873-876.	6.1	32
38	p53 enables metabolic fitness and self-renewal of nephron progenitor cells. Development (Cambridge), 2015, 142, 1228-1241.	2.5	30
39	Planar cell polarity in kidney development and disease. Organogenesis, 2011, 7, 180-190.	1.2	26
40	Myc cooperates with beta-catenin to drive gene expression in the nephron progenitor cells. Development (Cambridge), 2017, 144, 4173-4182.	2.5	24
41	Asynchronous mixing of kidney progenitor cells potentiates nephrogenesis in organoids. Communications Biology, 2020, 3, 231.	4.4	24
42	Vascular deficiencies in renal organoids and ex vivo kidney organogenesis. Developmental Biology, 2021, 477, 98-116.	2.0	23
43	LATS1/2 suppress NFÎºB and aberrant EMT initiation to permit pancreatic progenitor differentiation. PLoS Biology, 2019, 17, e3000382.	5.6	21
44	Planar cell polarity of the kidney. Experimental Cell Research, 2016, 343, 258-266.	2.6	20
45	Aberrant planar cell polarity induced by urinary tract obstruction. American Journal of Physiology - Renal Physiology, 2009, 297, F1526-F1533.	2.7	18
46	Stromal beta-catenin activation impacts nephron progenitor differentiation in the developing kidney and may contribute to Wilms tumor. Development (Cambridge), 2020, 147, .	2.5	16
47	The Leucine Zipper Putative Tumor Suppressor 2 Protein LZTS2 Regulates Kidney Development. Journal of Biological Chemistry, 2011, 286, 40331-40342.	3.4	15
48	Molecular determinants of WNT9b responsiveness in nephron progenitor cells. PLoS ONE, 2019, 14, e0215139.	2.5	15
49	Schwannoma development is mediated by Hippo pathway dysregulation and modified by RAS/MAPK signaling. JCI Insight, 2020, 5, .	5.0	14
50	Deletion of Lats1/2 in adult kidney epithelia leads to renal cell carcinoma. Journal of Clinical Investigation, 2021, 131, .	8.2	12
51	Generation and characterization of KsprtTA and KsptTA transgenic mice. Genesis, 2013, 51, 430-435.	1.6	9
52	Talin regulates integrin Î²1 dependent and independent cell functions in ureteric bud development. Development (Cambridge), 2017, 144, 4148-4158.	2.5	8
53	A Creâ€inducible fluorescent reporter for observing apical membrane dynamics. Genesis, 2015, 53, 285-293.	1.6	7
54	Methods for renal lineage tracing: In vivo and beyond. Methods in Cell Biology, 2019, 154, 121-143.	1.1	1

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55	PCP goes organic. Organogenesis, 2011, 7, 163-164.	1.2	0
56	The Role of Wnt9b in Epithelial Tubule Induction and Differentiation. FASEB Journal, 2007, 21, A136.	0.5	0