

Thomas J Carroll

List of Publications by Year in descending order

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56
papers

6,352
citations

126708

33
h-index

161609

54
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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. <i>Cell Stem Cell</i> , 2008, 3, 169-181.	5.2	815
2	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, 283-292.	3.1	788
3	Sonic hedgehog regulates proliferation and differentiation of mesenchymal cells in the mouse metanephric kidney. <i>Development (Cambridge)</i> , 2002, 129, 5301-5312.	1.2	377
4	Sprouty1 Is a Critical Regulator of GDNF/RET-Mediated Kidney Induction. <i>Developmental Cell</i> , 2005, 8, 229-239.	3.1	327
5	Wnt9b signaling regulates planar cell polarity and kidney tubule morphogenesis. <i>Nature Genetics</i> , 2009, 41, 793-799.	9.4	313
6	Distinct and sequential tissue-specific activities of the LIM-class homeobox gene <i>Lim1</i> for tubular morphogenesis during kidney development. <i>Development (Cambridge)</i> , 2005, 132, 2809-2823.	1.2	307
7	Noncanonical Wnt Signaling through G Protein-Linked PKC β Activation Promotes Bone Formation. <i>Developmental Cell</i> , 2007, 12, 113-127.	3.1	286
8	Canonical Wnt9b signaling balances progenitor cell expansion and differentiation during kidney development. <i>Development (Cambridge)</i> , 2011, 138, 1247-1257.	1.2	254
9	Sonic hedgehog regulates proliferation and differentiation of mesenchymal cells in the mouse metanephric kidney. <i>Development (Cambridge)</i> , 2002, 129, 5301-12.	1.2	216
10	Stromal-epithelial crosstalk regulates kidney progenitor cell differentiation. <i>Nature Cell Biology</i> , 2013, 15, 1035-1044.	4.6	209
11	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, 161-171.	1.2	205
12	Vertebrate kidney tubules elongate using a planar cell polarity-dependent, rosette-based mechanism of convergent extension. <i>Nature Genetics</i> , 2012, 44, 1382-1387.	9.4	197
13	Wnt7b stimulates embryonic lung growth by coordinately increasing the replication of epithelium and mesenchyme. <i>Development (Cambridge)</i> , 2008, 135, 1625-1634.	1.2	147
14	β -Catenin is necessary to keep cells of ureteric bud/Wolffian duct epithelium in a precursor state. <i>Developmental Biology</i> , 2008, 314, 112-126.	0.9	138
15	Gata3 Acts Downstream of β -Catenin Signaling to Prevent Ectopic Metanephric Kidney Induction. <i>PLoS Genetics</i> , 2008, 4, e1000316.	1.5	126
16	<i>Bap1</i> is essential for kidney function and cooperates with <i>Vhl</i> in renal tumorigenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16538-16543.	3.3	123
17	Hemodynamic Forces Sculpt Developing Heart Valves through a KLF2-WNT9B Paracrine Signaling Axis. <i>Developmental Cell</i> , 2017, 43, 274-289.e5.	3.1	114
18	The Development of Highly Potent Inhibitors for Porcupine. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 2700-2704.	2.9	94

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19	Programming of Schwann Cells by Lats1/2-TAZ/YAP Signaling Drives Malignant Peripheral Nerve Sheath Tumorigenesis. <i>Cancer Cell</i> , 2018, 33, 292-308.e7.	7.7	83
20	Planar cell polarity and vertebrate organogenesis. <i>Seminars in Cell and Developmental Biology</i> , 2006, 17, 194-203.	2.3	81
21	Molecular regulation of kidney development: is the answer blowing in the Wnt?. <i>Pediatric Nephrology</i> , 2007, 22, 1825-1838.	0.9	75
22	Diverse Chemical Scaffolds Support Direct Inhibition of the Membrane-bound O-Acyltransferase Porcupine. <i>Journal of Biological Chemistry</i> , 2012, 287, 23246-23254.	1.6	72
23	Spatiotemporal Loss of <i>NF1</i> in Schwann Cell Lineage Leads to Different Types of Cutaneous Neurofibroma Susceptible to Modification by the Hippo Pathway. <i>Cancer Discovery</i> , 2019, 9, 114-129.	7.7	65
24	MYC activation cooperates with Vhl and Ink4a/Arf loss to induce clear cell renal cell carcinoma. <i>Nature Communications</i> , 2017, 8, 15770.	5.8	64
25	Identification and characterization of cellular heterogeneity within the developing renal interstitium. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	59
26	Wnt4 is essential to normal mammalian lung development. <i>Developmental Biology</i> , 2015, 406, 222-234.	0.9	58
27	Lkb1 deficiency confers glutamine dependency in polycystic kidney disease. <i>Nature Communications</i> , 2018, 9, 814.	5.8	55
28	Spatiotemporal heterogeneity and patterning of developing renal blood vessels. <i>Angiogenesis</i> , 2018, 21, 617-634.	3.7	55
29	Lrp4 Regulates Initiation of Ureteric Budding and Is Crucial for Kidney Formation – A Mouse Model for Cenani-Lenz Syndrome. <i>PLoS ONE</i> , 2010, 5, e10418.	1.1	54
30	Apical–basal polarity, Wnt signaling and vertebrate organogenesis. <i>Seminars in Cell and Developmental Biology</i> , 2006, 17, 214-222.	2.3	51
31	Polycystin-1 binds Par3/aPKC and controls convergent extension during renal tubular morphogenesis. <i>Nature Communications</i> , 2013, 4, 2658.	5.8	48
32	Cdc42 regulates epithelial cell polarity and cytoskeletal function in kidney tubule development. <i>Journal of Cell Science</i> , 2015, 128, 4293-305.	1.2	39
33	Tankyrase is necessary for canonical Wnt signaling during kidney development. <i>Developmental Dynamics</i> , 2010, 239, 2014-2023.	0.8	38
34	The Kidney and Planar Cell Polarity. <i>Current Topics in Developmental Biology</i> , 2012, 101, 185-212.	1.0	34
35	Loss of <i>Dis3l2</i> partially phenocopies Perlman syndrome in mice and results in up-regulation of <i>Igf2</i> in nephron progenitor cells. <i>Genes and Development</i> , 2018, 32, 903-908.	2.7	34
36	Disparate levels of beta-catenin activity determine nephron progenitor cell fate. <i>Developmental Biology</i> , 2018, 440, 13-21.	0.9	33

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37	Defining the Signals that Constitute the Nephron Progenitor Niche. <i>Journal of the American Society of Nephrology: JASN</i> , 2013, 24, 873-876.	3.0	32
38	p53 enables metabolic fitness and self-renewal of nephron progenitor cells. <i>Development (Cambridge)</i> , 2015, 142, 1228-1241.	1.2	30
39	Planar cell polarity in kidney development and disease. <i>Organogenesis</i> , 2011, 7, 180-190.	0.4	26
40	Myc cooperates with beta-catenin to drive gene expression in the nephron progenitor cells. <i>Development (Cambridge)</i> , 2017, 144, 4173-4182.	1.2	24
41	Asynchronous mixing of kidney progenitor cells potentiates nephrogenesis in organoids. <i>Communications Biology</i> , 2020, 3, 231.	2.0	24
42	Vascular deficiencies in renal organoids and ex vivo kidney organogenesis. <i>Developmental Biology</i> , 2021, 477, 98-116.	0.9	23
43	LATS1/2 suppress NF κ B and aberrant EMT initiation to permit pancreatic progenitor differentiation. <i>PLoS Biology</i> , 2019, 17, e3000382.	2.6	21
44	Planar cell polarity of the kidney. <i>Experimental Cell Research</i> , 2016, 343, 258-266.	1.2	20
45	Aberrant planar cell polarity induced by urinary tract obstruction. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 297, F1526-F1533.	1.3	18
46	Stromal beta-catenin activation impacts nephron progenitor differentiation in the developing kidney and may contribute to Wilms tumor. <i>Development (Cambridge)</i> , 2020, 147, .	1.2	16
47	The Leucine Zipper Putative Tumor Suppressor 2 Protein LZTS2 Regulates Kidney Development. <i>Journal of Biological Chemistry</i> , 2011, 286, 40331-40342.	1.6	15
48	Molecular determinants of WNT9b responsiveness in nephron progenitor cells. <i>PLoS ONE</i> , 2019, 14, e0215139.	1.1	15
49	Schwannoma development is mediated by Hippo pathway dysregulation and modified by RAS/MAPK signaling. <i>JCI Insight</i> , 2020, 5, .	2.3	14
50	Deletion of Lats1/2 in adult kidney epithelia leads to renal cell carcinoma. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	12
51	Generation and characterization of Ksp α TA and Ksp β TA transgenic mice. <i>Genesis</i> , 2013, 51, 430-435.	0.8	9
52	Talin regulates integrin β 21 dependent and independent cell functions in ureteric bud development. <i>Development (Cambridge)</i> , 2017, 144, 4148-4158.	1.2	8
53	A Cre α -inducible fluorescent reporter for observing apical membrane dynamics. <i>Genesis</i> , 2015, 53, 285-293.	0.8	7
54	Methods for renal lineage tracing: In vivo and beyond. <i>Methods in Cell Biology</i> , 2019, 154, 121-143.	0.5	1

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55	PCP goes organic. <i>Organogenesis</i> , 2011, 7, 163-164.	0.4	0
56	The Role of Wnt9b in Epithelial Tubule Induction and Differentiation. <i>FASEB Journal</i> , 2007, 21, A136.	0.2	0