Alan J Davidson

List of Publications by Year
in descending order

74	3,991	159585 30	123424 61
papers	citations	h-index	g-index

77	77	77	4744
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The â€˜definitiveâ€™ (and â€˜primitiveâ€™) guide to zebrafish hematopoiesis. Oncogene, 2004, 23, 7233-7246.	5.9	376
2	Deficiency of glutaredoxin 5 reveals Feâ€"S clusters are required for vertebrate haem synthesis. Nature, 2005, 436, 1035-1039.	27.8	343
3	The cdx Genes and Retinoic Acid Control the Positioning and Segmentation of the Zebrafish Pronephros. PLoS Genetics, 2007, 3, e189.	3.5	287
4	Identification of adult nephron progenitors capable of kidney regeneration in zebrafish. Nature, 2011, 470, 95-100.	27.8	258
5	cdx4 mutants fail to specify blood progenitors and can be rescued by multiple hox genes. Nature, 2003, 425, 300-306.	27.8	227
6	BMP and Wnt Specify Hematopoietic Fate by Activation of the Cdx-Hox Pathway. Cell Stem Cell, 2008, 2, 72-82.	11.1	192
7	A Simple Bioreactor-Based Method to Generate Kidney Organoids fromÂPluripotent Stem Cells. Stem Cell Reports, 2018, 11, 470-484.	4.8	181
8	Histone Deacetylase Inhibitor Enhances Recovery after AKI. Journal of the American Society of Nephrology: JASN, 2013, 24, 943-953.	6.1	160
9	Zebrafish Kidney Development. Methods in Cell Biology, 2010, 100, 233-260.	1.1	143
10	The caudal-related homeobox genes cdx1a and cdx4 act redundantly to regulate hox gene expression and the formation of putative hematopoietic stem cells during zebrafish embryogenesis. Developmental Biology, 2006, 292, 506-518.	2.0	108
11	Chamber identity programs drive early functional partitioning of the heart. Nature Communications, 2015, 6, 8146.	12.8	103
12	Zebrafish nephrogenesis involves dynamic spatiotemporal expression changes in renal progenitors and essential signals from retinoic acid and <i>irx3b</i>. Developmental Dynamics, 2011, 240, 2011-2027.	1.8	100
13	Sustained Bmp signaling is essential for cloaca development in zebrafish. Development (Cambridge), 2006, 133, 2275-2284.	2.5	88
14	Wt1a, Foxc1a, and the Notch mediator Rbpj physically interact and regulate the formation of podocytes in zebrafish. Developmental Biology, 2011, 358, 318-330.	2.0	81
15	HNF1Î² Is Essential for Nephron Segmentation during Nephrogenesis. Journal of the American Society of Nephrology: JASN, 2013, 24, 77-87.	6.1	81
16	The role of macrophages during acute kidney injury: destruction and repair. Pediatric Nephrology, 2019, 34, 561-569.	1.7	65
17	Evaluation of cisplatin-induced injury in human kidney organoids. American Journal of Physiology - Renal Physiology, 2020, 318, F971-F978.	2.7	60
18	Zebrafish wnt9a is expressed in pharyngeal ectoderm and is required for palate and lower jaw development. Mechanisms of Development, 2011, 128, 104-115.	1.7	55

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19	A zebrafish model of conditional targeted podocyte ablation and regeneration. Kidney International, 2013, 83, 1193-1200.	5.2	55
20	Use of Human Induced Pluripotent Stem Cells and Kidney Organoids To Develop a Cysteamine/mTOR Inhibition Combination Therapy for Cystinosis. Journal of the American Society of Nephrology: JASN, 2020, 31, 962-982.	6.1	53
21	Zebrafish kidney development: Basic science to translational research. Birth Defects Research Part C: Embryo Today Reviews, 2011, 93, 141-156.	3.6	52
22	Interactions between Cdx genes and retinoic acid modulate early cardiogenesis. Developmental Biology, 2011, 354, 134-142.	2.0	48
23	Uncharted waters: nephrogenesis and renal regeneration in fish and mammals. Pediatric Nephrology, 2011, 26, 1435-1443.	1.7	47
24	Development of the zebrafish mesonephros. Genesis, 2015, 53, 257-269.	1.6	44
25	The Mitochondria-Targeted Metabolic Tubular Injury in Diabetic Kidney Disease. Cellular Physiology and Biochemistry, 2019, 52, 156-171.	1.6	44
26	Expression of Murine Interleukin 11 and its Receptor Î±â€Chain in Adult and Embryonic Tissues. Stem Cells, 1997, 15, 119-124.	3.2	41
27	The zebrafish kidney mutant zeppelin reveals that brca2/fancd1 is essential for pronephros development. Developmental Biology, 2017, 428, 148-163.	2.0	38
28	Mouse kidney development. Stembook, 2008, , .	0.3	37
29	Interaction of retinoic acid and scl controls primitive blood development. Blood, 2010, 116, 201-209.	1.4	34
30	Derivation of Corneal Keratocyte-Like Cells from Human Induced Pluripotent Stem Cells. PLoS ONE, 2016, 11, e0165464.	2.5	32
31	Retinoic Acid Blockade Increases Primitive Blood Cell Formation in cdx4 Mutant Zebrafish Embryos, Murine Yolk Sac Explants and Differentiated Embryonic Stem Cells.. Blood, 2007, 110, 201-201.	1.4	32
32	Experimental models of acute kidney injury for translational research. Nature Reviews Nephrology, 2022, 18, 277-293.	9.6	32
33	A Cdx4-Sall4 Regulatory Module Controls the Transition from Mesoderm Formation to Embryonic Hematopoiesis. Stem Cell Reports, 2013, 1, 425-436.	4.8	30
34	BMP and retinoic acid regulate anteriorâ€“posterior patterning of the non-axial mesoderm across the dorsalâ€“ventral axis. Nature Communications, 2016, 7, 12197.	12.8	30
35	Common Variants Coregulate Expression of <scp><i>GBA</i></scp> and Modifier Genes to Delay Parkinson's Disease Onset. Movement Disorders, 2020, 35, 1346-1356.	3.9	30
36	Kidney regeneration: common themes from the embryo to the adult. Pediatric Nephrology, 2014, 29, 553-564.	1.7	26

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37	Turning mesoderm into kidney. Seminars in Cell and Developmental Biology, 2019, 91, 86-93.	5.0	26
38	Zebrafish Pronephros Development. Results and Problems in Cell Differentiation, 2017, 60, 27-53.	0.7	24
39	Enhancing regeneration after acute kidney injury by promoting cellular dedifferentiation in zebrafish. DMM Disease Models and Mechanisms, 2019, 12, .	2.4	21
40	BIOMEDICINE: Love, Honor, and Protect (Your Liver). Science, 2003, 299, 835-837.	12.6	20
41	SOX9 promotes stress-responsive transcription of VGF nerve growth factor inducible gene in renal tubular epithelial cells. Journal of Biological Chemistry, 2020, 295, 16328-16341.	3.4	20
42	Transgenic Xenopus laevis Line for In Vivo Labeling of Nephrons within the Kidney. Genes, 2018, 9, 197.	2.4	19
43	Hnf1beta and nephron segmentation. Pediatric Nephrology, 2014, 29, 659-664.	1.7	18
44	<scp>ADAM10</scp> mediates ectopic proximal tubule development and renal fibrosis through Notch signalling. Journal of Pathology, 2020, 252, 274-289.	4.5	18
45	Protocol for Large-Scale Production of Kidney Organoids from Human Pluripotent Stem Cells. STAR Protocols, 2020, 1, 100150.	1.2	18
46	A novel mechanism of gland formation in zebrafish involving transdifferentiation of renal epithelial cells and live cell extrusion. ELife, 2018, 7, .	6.0	18
47	Kidney Injury and Regeneration in Zebrafish. Seminars in Nephrology, 2014, 34, 437-444.	1.6	17
48	Transcriptional profiling of the zebrafish proximal tubule. American Journal of Physiology - Renal Physiology, 2019, 317, F478-F488.	2.7	17
49	Pronephric tubule formation in zebrafish: morphogenesis and migration. Pediatric Nephrology, 2017, 32, 211-216.	1.7	14
50	Modeling oxidative injury response in human kidney organoids. Stem Cell Research and Therapy, 2022, 13, 76.	5.5	14
51	Kidney Regeneration in Fish. Nephron Experimental Nephrology, 2014, 126, 45-49.	2.2	12
52	The Utility of Human Kidney Organoids in Modeling Kidney Disease. Seminars in Nephrology, 2020, 40, 188-198.	1.6	11
53	Validation of HDAC8 Inhibitors as Drug Discovery Starting Points to Treat Acute Kidney Injury. ACS Pharmacology and Translational Science, 2022, 5, 207-215.	4.9	11
54	The Dynamics of Metabolic Characterization in iPSC-Derived Kidney Organoid Differentiation via a Comparative Omics Approach. Frontiers in Genetics, 2021, 12, 632810.	2.3	10

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55	Caudal migration and proliferation of renal progenitors regulates early nephron segment size in zebrafish. Scientific Reports, 2016, 6, 35647.	3.3	9
56	The small molecule probe PT-Yellow labels the renal proximal tubules in zebrafish. Chemical Communications, 2015, 51, 395-398.	4.1	8
57	Wnt8a expands the pool of embryonic kidney progenitors in zebrafish. Developmental Biology, 2017, 425, 130-141.	2.0	8
58	Human Urinal Cell Reprogramming: Synthetic 3D Peptide Hydrogels Enhance Induced Pluripotent Stem Cell Population Homogeneity. ACS Biomaterials Science and Engineering, 2020, 6, 6263-6275.	5.2	8
59	In Vitro and In Vivo Models to Study Nephropathic Cystinosis. Cells, 2022, 11, 6.	4.1	8
60	A Simplified Method for Generating Kidney Organoids from Human Pluripotent Stem Cells. Journal of Visualized Experiments, 2021, , .	0.3	7
61	Transplantation of Cells Directly into the Kidney of Adult Zebrafish. Journal of Visualized Experiments, 2011, , .	0.3	6
62	Derivation of induced pluripotent stem cell lines from New Zealand donors. Journal of the Royal Society of New Zealand, 2022, 52, 54-67.	1.9	5
63	Mannosylation of pH-sensitive liposomes promoted cytoplasmic delivery of protein to macrophages: green fluorescent protein (GFP) performed as an endosomal escape tracer. Pharmaceutical Development and Technology, 2021, 26, 1000-1009.	2.4	3
64	The Vital Dye CDr10b Labels the Zebrafish Mid-Intestine and Lumen. Molecules, 2017, 22, 454.	3.8	2
65	Nephron Development in Zebrafish. FASEB Journal, 2007, 21, A141.	0.5	2
66	Development of The Zebrafish Pronephric and Mesonephric Kidneys. , 2020, , 145-150.		1
67	Derivation of Hematopoietic Stem Cells from Embryonic Stem Cells.. Blood, 2004, 104, 223-223.	1.4	1
68	Cystinosin-deficient rats recapitulate the phenotype of nephropathic cystinosis. American Journal of Physiology - Renal Physiology, 2022, 323, F156-F170.	2.7	1
69	Report on the 2nd Asiaâ€Pacific Kidney Development Workshop. Nephrology, 2015, 20, 443-443.	1.6	0
70	Zebrafish Renal Development and Regeneration. , 2016, , 5-16.		0
71	Nephron Repair in Mammals and Fish. , 2017, , 997-1003.		0
72	Gene Editing of Stem Cells to Model and Treat Disease. Current Stem Cell Reports, 2018, 4, 253-263.	1.6	0

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73	Organogenesis of the Zebrafish Kidney. , 2016, , 213-233.		0
74	Mind the gap: renal tubule responses to injury and the role of Cxcl12 and Myc. Annals of Translational Medicine, 2019, 7, S30-S30.	1.7	0