Minoru Takasato

List of Publications by Year
in descending order

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40 papers	3,791 citations	430874 18 h-index	395702 33 g-index
48 all docs	48 docs citations	48 times ranked	3972 citing authors

#	Article	IF	Citations
1	Kidney organoids from human iPS cells contain multiple lineages and model human nephrogenesis. Nature, 2015, 526, 564-568.	27.8	1,210
2	Directing human embryonic stem cell differentiation towards a renal lineage generates a self-organizing kidney. Nature Cell Biology, 2014, 16, 118-126.	10.3	640
3	Renal Subcapsular Transplantation of PSC-Derived Kidney Organoids Induces Neo-vasculogenesis and Significant Glomerular and Tubular Maturation InÂVivo. Stem Cell Reports, 2018, 10, 751-765.	4.8	304
4	Generation of kidney organoids from human pluripotent stem cells. Nature Protocols, 2016, 11, 1681-1692.	12.0	243
5	The murine homolog ofSALL4, a causative gene in Okihiro syndrome, is essential for embryonic stem cell proliferation, and cooperates withSall1in anorectal, heart, brain and kidney development. Development (Cambridge), 2006, 133, 3005-3013.	2.5	241
6	Evaluation of variability in human kidney organoids. Nature Methods, 2019, 16, 79-87.	19.0	176
7	Identification of multipotent progenitors in the embryonic mouse kidney by a novel colony-forming assay. Development (Cambridge), 2006, 133, 151-161.	2.5	172
8	Direct Transcriptional Reprogramming of Adult Cells to Embryonic Nephron Progenitors. Journal of the American Society of Nephrology: JASN, 2013, 24, 1424-1434.	6.1	119
9	The origin of the mammalian kidney: implications for recreating the kidney in vitro. Development (Cambridge), 2015, 142, 1937-1947.	2.5	98
10	Identification of kidney mesenchymal genes by a combination of microarray analysis and Sall1-GFP knockin mice. Mechanisms of Development, 2004, 121, 547-557.	1.7	64
11	Development of an exon skipping therapy for X-linked Alport syndrome with truncating variants in COL4A5. Nature Communications, 2020, 11, 2777.	12.8	46
12	A strategy for generating kidney organoids: Recapitulating the development in human pluripotent stem cells. Developmental Biology, 2016, 420, 210-220.	2.0	42
13	Understanding kidney morphogenesis to guide renal tissue regeneration. Nature Reviews Nephrology, 2016, 12, 624-635.	9.6	38
14	Making a Kidney Organoid Using the Directed Differentiation of Human Pluripotent Stem Cells. Methods in Molecular Biology, 2017, 1597, 195-206.	0.9	34
15	Essential roles of Sall1 in kidney development. Kidney International, 2005, 68, 1948-1950.	5.2	32
16	Induction of intermediate mesoderm by retinoic acid receptor signaling from differentiating mouse embryonic stem cells. International Journal of Developmental Biology, 2013, 57, 383-389.	0.6	28
17	Recreating kidney progenitors from pluripotent cells. Pediatric Nephrology, 2014, 29, 543-552.	1.7	22
18	An InÂVitro Differentiation Protocol for Human Embryonic Bipotential Gonad and Testis Cell Development. Stem Cell Reports, 2020, 15, 1377-1391.	4.8	22

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19	Multivariate patterning of human pluripotent cells under perfusion reveals critical roles of induced paracrine factors in kidney organoid development. Science Advances, 2020, 6, eaaw2746.	10.3	21
20	Generating a self-organizing kidney from pluripotent cells. Current Opinion in Organ Transplantation, 2015, 20, 178-186.	1.6	16
21	Genetic background, recent advances in molecular biology, and development of novel therapy in Alport syndrome. Kidney Research and Clinical Practice, 2020, 39, 402-413.	2.2	13
22	Perspective: Extending the Utility of Three-Dimensional Organoids by Tissue Clearing Technologies. Frontiers in Cell and Developmental Biology, 2021, 9, 679226.	3.7	12
23	Trb2, a mouse homolog of tribbles, is dispensable for kidney and mouse development. Biochemical and Biophysical Research Communications, 2008, 373, 648-652.	2.1	11
24	27â€Hydroxycholesterol regulates human SLC22A12 gene expression through estrogen receptor action. FASEB Journal, 2021, 35, e21262.	0.5	10
25	Kidney organoid research: current status and applications. Current Opinion in Genetics and Development, 2022, 75, 101944.	3.3	10
26	Challenges to future regenerative applications using kidney organoids. Current Opinion in Biomedical Engineering, 2020, 13, 144-151.	3.4	9
27	A protocol for the identification and validation of novel genetic causes of kidney disease. BMC Nephrology, 2015, 16, 152.	1.8	8
28	Reprogramming Somatic Cells to a Kidney Fate. Seminars in Nephrology, 2014, 34, 462-480.	1.6	7
29	Reprogramming epiblast stem cells into pre-implantation blastocyst cell-like cells. Stem Cell Reports, 2021, 16, 1197-1209.	4.8	6
30	Generation of two human induced pluripotent stem cell lines derived from two juvenile nephronophthisis patients with NPHP1 deletion. Stem Cell Research, 2020, 45, 101815.	0.7	5
31	Generation of kidney organoids from human pluripotent stem cells. Protocol Exchange, 0, , .	0.3	3
32	Inducing human retinal pigment epithelium-like cells from somatic tissue. Stem Cell Reports, 2022, 17, 289-306.	4.8	3
33	Evaluation of the Permeability of Cell Barriers Constituted of Kidney Organoid-Derived Glomerulus. , 2021, , .		1
34	Advice for the Next Generation: Minoru Takasato. Cell Stem Cell, 2019, 24, 688-689.	11.1	0
35	Control and design of biosystems. Development Growth and Differentiation, 2020, 62, 149-149.	1.5	0
36	Proximal Tubule On A Chip For Evaluating P-Glycoprotein Transport Property. , 2021, , .		0

#	Article	IF	Citations
37	Effect of Perfusion Culture on Localization, Intensity, and Functionality of Transporter Proteins in a Bilayer Proximal Tubule-on-a Chip. , 2021, , .		0
38	Recapitulating Development to Generate Kidney Organoid Cultures. , 2017, , 193-222.		0
39	On-Chip Compartmentalized Vascular Bed Preserves Kidney Organoid Differentiation. , 2022, , .		0
40	Challenges to regenerate the kidney. Japanese Journal of Nephrology, 2017, 59, 11-15.	0.0	0