

# Sara E Howden

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

4,508  
citations

331670

21  
h-index

361022

35  
g-index

39  
all docs

39  
docs citations

39  
times ranked

6686  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemically defined conditions for human iPSC derivation and culture. <i>Nature Methods</i> , 2011, 8, 424-429.	19.0	1,234
2	Efficient genome engineering in human pluripotent stem cells using Cas9 from <i>Neisseria meningitidis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15644-15649.	7.1	612
3	Optic Vesicle-like Structures Derived from Human Pluripotent Stem Cells Facilitate a Customized Approach to Retinal Disease Treatment. <i>Stem Cells</i> , 2011, 29, 1206-1218.	3.2	413
4	Renal Subcapsular Transplantation of PSC-Derived Kidney Organoids Induces Neo-vasculogenesis and Significant Glomerular and Tubular Maturation In Vivo. <i>Stem Cell Reports</i> , 2018, 10, 751-765.	4.8	304
5	Cellular extrusion bioprinting improves kidney organoid reproducibility and conformation. <i>Nature Materials</i> , 2021, 20, 260-271.	27.5	230
6	Reproducibility and staging of 3D human retinal organoids across multiple pluripotent stem cell lines. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	203
7	Evaluation of variability in human kidney organoids. <i>Nature Methods</i> , 2019, 16, 79-87.	19.0	176
8	3D organoid-derived human glomeruli for personalised podocyte disease modelling and drug screening. <i>Nature Communications</i> , 2018, 9, 5167.	12.8	175
9	Patient-iPSC-Derived Kidney Organoids Show Functional Validation of a Ciliopathic Renal Phenotype and Reveal Underlying Pathogenetic Mechanisms. <i>American Journal of Human Genetics</i> , 2018, 102, 816-831.	6.2	157
10	Genetic correction and analysis of induced pluripotent stem cells from a patient with gyrate atrophy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6537-6542.	7.1	150
11	Simultaneous Reprogramming and Gene Correction of Patient Fibroblasts. <i>Stem Cell Reports</i> , 2015, 5, 1109-1118.	4.8	89
12	A Cas9 Variant for Efficient Generation of Indel-Free Knockin or Gene-Corrected Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2016, 7, 508-517.	4.8	88
13	Phosphorylation regulates human OCT4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7162-7168.	7.1	87
14	Plasticity of distal nephron epithelia from human kidney organoids enables the induction of ureteric tip and stalk. <i>Cell Stem Cell</i> , 2021, 28, 671-684.e6.	11.1	72
15	Loss of MITF expression during human embryonic stem cell differentiation disrupts retinal pigment epithelium development and optic vesicle cell proliferation. <i>Human Molecular Genetics</i> , 2014, 23, 6332-6344.	2.9	55
16	Simultaneous reprogramming and gene editing of human fibroblasts. <i>Nature Protocols</i> , 2018, 13, 875-898.	12.0	55
17	A Novel Approach to Single Cell RNA-Sequence Analysis Facilitates In Silico Gene Reporting of Human Pluripotent Stem Cell-Derived Retinal Cell Types. <i>Stem Cells</i> , 2018, 36, 313-324.	3.2	54
18	Reporter-based fate mapping in human kidney organoids confirms nephron lineage relationships and reveals synchronous nephron formation. <i>EMBO Reports</i> , 2019, 20, .	4.5	52

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19	ALPK3-deficient cardiomyocytes generated from patient-derived induced pluripotent stem cells and mutant human embryonic stem cells display abnormal calcium handling and establish that ALPK3 deficiency underlies familial cardiomyopathy. <i>European Heart Journal</i> , 2016, 37, 2586-2590.	2.2	49
20	A Toolbox to Characterize Human Induced Pluripotent Stem Cell-Derived Kidney Cell Types and Organoids. <i>Journal of the American Society of Nephrology: JASN</i> , 2019, 30, 1811-1823.	6.1	45
21	Induced Pluripotent Stem Cell-Derived Dopaminergic Neurons from Adult Common Marmoset Fibroblasts. <i>Stem Cells and Development</i> , 2017, 26, 1225-1235.	2.1	30
22	GAPTrap: A Simple Expression System for Pluripotent Stem Cells and Their Derivatives. <i>Stem Cell Reports</i> , 2016, 7, 518-526.	4.8	27
23	DevKidCC allows for robust classification and direct comparisons of kidney organoid datasets. <i>Genome Medicine</i> , 2022, 14, 19.	8.2	23
24	Direct reprogramming to human nephron progenitor-like cells using inducible piggyBac transposon expression of SNAI2-EYA1-SIX1. <i>Kidney International</i> , 2019, 95, 1153-1166.	5.2	21
25	Recessive <i>NOS1AP</i> variants impair actin remodeling and cause glomerulopathy in humans and mice. <i>Science Advances</i> , 2021, 7, .	10.3	21
26	Functional Assessment of Patient-Derived Retinal Pigment Epithelial Cells Edited by CRISPR/Cas9. <i>International Journal of Molecular Sciences</i> , 2018, 19, 4127.	4.1	20
27	Chromatin-Binding Regions of EBNA1 Protein Facilitate the Enhanced Transfection of Epstein-Barr Virus-Based Vectors. <i>Human Gene Therapy</i> , 2006, 17, 833-844.	2.7	17
28	The use of simultaneous reprogramming and gene correction to generate an osteogenesis imperfecta patient COL1A1 c. 3936 G>T iPSC line and an isogenic control iPSC line. <i>Stem Cell Research</i> , 2019, 38, 101453.	0.7	8
29	Determining lineage relationships in kidney development and disease. <i>Nature Reviews Nephrology</i> , 2022, 18, 8-21.	9.6	8
30	Particle-mediated delivery of frataxin plasmid to a human sensory neuronal model of Friedreich's ataxia. <i>Biomaterials Science</i> , 2020, 8, 2398-2403.	5.4	6
31	Generating Kidney Organoids from Human Pluripotent Stem Cells Using Defined Conditions. <i>Methods in Molecular Biology</i> , 2020, 2155, 183-192.	0.9	6
32	Gene Targeting of Human Pluripotent Stem Cells by Homologous Recombination. <i>Methods in Molecular Biology</i> , 2014, 1114, 37-55.	0.9	5
33	In Vivo Survival and Differentiation of Friedreich Ataxia iPSC-Derived Sensory Neurons Transplanted in the Adult Dorsal Root Ganglia. <i>Stem Cells Translational Medicine</i> , 2021, 10, 1157-1169.	3.3	4
34	Generating an iPSC line (with isogenic control) from the PBMCs of an ACTA1 (p.Gly148Asp) nemaline myopathy patient. <i>Stem Cell Research</i> , 2021, 54, 102429.	0.7	3
35	Forward steps in organoid-based forward screening. <i>Cell Stem Cell</i> , 2022, 29, 7-8.	11.1	2
36	Site-specific Integration of Bacterial Artificial Chromosomes into Human Cells. <i>Methods in Molecular Biology</i> , 2015, 1227, 309-321.	0.9	0