Tobias Cantz

List of Publications by Year in Descending Order

90 papers	2,769 citations	32 h-index	50 g-index
98 ext. papers	3,134 ext. citations	7 avg, IF	4.5 L-index

#	Paper	IF	Citations
90	Introduction to Genome Editing in Induced Pluripotent Stem Cells, Gametes, and Embryos **2022**, 15-28		
89	A selectable all-in-one CRISPR prime editing piggyBac transposon allows for highly efficient gene editing in human cell lines. *Scientific Reports*, **2021**, 11, 22154	4.9	1
88	Reply to TClarifying US regulations on xenotransplantationTand TInternational standards and guidelines for xenotransplantationT *Nature Biotechnology*, **2021**,	44.5	
87	Direct conversion of porcine primary fibroblasts into hepatocyte-like cells. *Scientific Reports*, **2021**, 11, 9334	4.9	0
86	Regulatory and intellectual property conundrums surrounding xenotransplantation. *Nature Biotechnology*, **2021**, 39, 796-798	44.5	3
85	Therapeutic HNF4A mRNA attenuates liver fibrosis in a preclinical model. *Journal of Hepatology*, **2021**, 75, 1420-1433	13.4	5
84	KIF12 Variants and Disturbed Hepatocyte Polarity in Children with a Phenotypic Spectrum of Cholestatic Liver Disease. *Journal of Pediatrics*, **2021**,	3.6	1
83	Generation of hiPSC-derived low threshold mechanoreceptors containing axonal termini resembling bulbous sensory nerve endings and expressing Piezo1 and Piezo2. *Stem Cell Research*, **2021**, 56, 102535	1.6	1
82	MicroRNA-125b-5p Regulates Hepatocyte Proliferation During the Termination Phase of Liver Regeneration. *Hepatology Communications*, **2020**, 4, 1851-1863	6	3
81	Organoids in Developmental Biology Research and Application. *Learning Materials in Biosciences*, **2020**, 209-218	0.3	
80	Growth differentiation factor 11 attenuates liver fibrosis via expansion of liver progenitor cells. *Gut* , **2020**, 69, 1104-1115	19.2	22
79	Human germline editing in the era of CRISPR-Cas: risk and uncertainty, inter-generational responsibility, therapeutic legitimacy. *BMC Medical Ethics*, **2020**, 21, 87	2.9	7
78	Altered calcium dynamics and glutamate receptor properties in iPSC-derived motor neurons from ALS patients with C9orf72, FUS, SOD1 or TDP43 mutations. *Human Molecular Genetics*, **2019**, 28, 2835-2850	5.6	20
77	A combined in silico and in vitro study on mouse Serpina1a antitrypsin-deficiency mutants. *Scientific Reports*, **2019**, 9, 7486	4.9	1
76	Rapid establishment of stable retroviral packaging cells and recombinant susceptible target cell lines employing novel transposon vectors derived from Sleeping Beauty. *Virology*, **2019**, 531, 40-47	3.6	4
75	Chemically-Defined, Xeno-Free, Scalable Production of hPSC-Derived Definitive Endoderm Aggregates with Multi-Lineage Differentiation Potential. *Cells*, **2019**, 8,	7.9	14
74	Genome-wide tracking of dCas9-methyltransferase footprints. *Nature Communications*, **2018**, 9, 597	17.4	85

73	Functional characterization of the mouse Serpina1 paralog DOM-7. *Biological Chemistry*, **2018**, 399, 577-582	4.5	1
72	Framing the ethical and legal issues of human artificial gametes in research, therapy, and assisted reproduction: A German perspective. *Bioethics*, **2018**, 32, 314-326	2	6
71	The Role of microRNAs in Embryonic and Induced Pluripotency. *Journal of Stem Cells and Regenerative Medicine*, **2018**, 14, 3-9	0.8	8
70	Editierung induzierter pluripotenter Stammzellen mittels CRISPR/Cas9. *BioSpektrum*, **2018**, 24, 707-708	0.1	
69	In vitro modelling of familial amyloidotic polyneuropathy allows quantitative detection of transthyretin amyloid fibril-like structures in hepatic derivatives of patient-specific induced pluripotent stem cells. *Biological Chemistry*, **2017**, 398, 939-954	4.5	2
68	Inhibition of miRNA-212/132 improves the reprogramming of fibroblasts into induced pluripotent stem cells by de-repressing important epigenetic remodelling factors. *Stem Cell Research*, **2017**, 20, 70-75	1.6	17
67	MicroRNA-29 impairs the early phase of reprogramming process by targeting active DNA demethylation enzymes and Wnt signaling. *Stem Cell Research*, **2017**, 19, 21-30	1.6	14
66	A Scalable Approach for the Generation of Human Pluripotent Stem Cell-Derived Hepatic Organoids with Sensitive Hepatotoxicity Features. *Stem Cells and Development*, **2017**, 26, 1490-1504	4.4	28
65	Gene correction of reversed Kostmann disease phenotype in patient-specific induced pluripotent stem cells. *Blood Advances*, **2017**, 1, 903-914	7.8	15
64	Kindlin-2 Modulates the Survival, Differentiation, and Migration of Induced Pluripotent Cell-Derived Mesenchymal Stromal Cells. *Stem Cells International*, **2017**, 2017, 7316354	5	8
63	Glycomic Characterization of Induced Pluripotent Stem Cells Derived from a Patient Suffering from Phosphomannomutase 2 Congenital Disorder of Glycosylation (PMM2-CDG). *Molecular and Cellular Proteomics*, **2016**, 15, 1435-52	7.6	29
62	Biphasic modulation of Wnt signaling supports efficient foregut endoderm formation from human pluripotent stem cells. *Cell Biology International*, **2016**, 40, 534-48	4.5	10
61	Improved bi-allelic modification of a transcriptionally silent locus in patient-derived iPSC by Cas9 nickase. *Scientific Reports*, **2016**, 6, 38198	4.9	22
60	MicroRNA-125b-5p mimic inhibits acute liver failure. *Nature Communications*, **2016**, 7, 11916	17.4	34
59	Direct Reprogramming of Hepatic Myofibroblasts into Hepatocytes In Vivo Attenuates Liver Fibrosis. *Cell Stem Cell*, **2016**, 18, 797-808	18	134
58	Small Molecules Facilitate Single Factor-Mediated Hepatic Reprogramming. *Cell Reports*, **2016**, 15, 814-829	8.6	51
57	Rescue of DNA-PK Signaling and T-Cell Differentiation by Targeted Genome Editing in a prkdc Deficient iPSC Disease Model. *PLoS Genetics*, **2015**, 11, e1005239	6	11
56	MicroRNA-199a-5p inhibition enhances the liver repopulation ability of human embryonic stem cell-derived hepatic cells. *Journal of Hepatology*, **2015**, 62, 101-10	13.4	32

55	Bronchoalveolar sublineage specification of pluripotent stem cells: effect of dexamethasone plus cAMP-elevating agents and keratinocyte growth factor. *Tissue Engineering - Part A*, **2015**, 21, 669-82	3.9	7
54	Generation of integration-free induced hepatocyte-like cells from mouse fibroblasts. *Scientific Reports*, **2015**, 5, 15706	4.9	21
53	Mesenchymal Stem/Stromal Cells Derived from Induced Pluripotent Stem Cells Support CD34(pos) Hematopoietic Stem Cell Propagation and Suppress Inflammatory Reaction. *Stem Cells International*, **2015**, 2015, 843058	5	16
52	Concise review: cell therapies for hereditary metabolic liver diseases-concepts, clinical results, and future developments. *Stem Cells*, **2015**, 33, 1055-62	5.8	32
51	Modified lentiviral LTRs allow Flp recombinase-mediated cassette exchange and in vivo tracing of "factor-free" induced pluripotent stem cells. *Molecular Therapy*, **2014**, 22, 919-28	11.7	22
50	Promoter and lineage independent anti-silencing activity of the A2 ubiquitous chromatin opening element for optimized human pluripotent stem cell-based gene therapy. *Biomaterials*, **2014**, 35, 1531-42	15.6	38
49	Gene correction of human induced pluripotent stem cells repairs the cellular phenotype in pulmonary alveolar proteinosis. *American Journal of Respiratory and Critical Care Medicine*, **2014**, 189, 167-82	10.2	68
48	From skin to blood: a new member joins the iClub. *Cell Stem Cell*, **2013**, 13, 131-3	18	4
47	Keratinocyte growth factor and dexamethasone plus elevated cAMP levels synergistically support pluripotent stem cell differentiation into alveolar epithelial type II cells. *Tissue Engineering - Part A*, **2013**, 19, 938-51	3.9	19
46	MicroRNA-221 overexpression accelerates hepatocyte proliferation during liver regeneration. *Hepatology*, **2013**, 57, 299-310	11.2	108
45	A ubiquitous chromatin opening element prevents transgene silencing in pluripotent stem cells and their differentiated progeny. *Stem Cells*, **2013**, 31, 488-99	5.8	59
44	Regenerative Therapies for Liver Diseases **2013**, 203-231		
43	Small but significant: inter- and intrapatient variations in iPS cell-based disease modeling. *Molecular Therapy*, **2013**, 21, 5-7	11.7	6
42	Sleeping Beauty transposon-based system for cellular reprogramming and targeted gene insertion in induced pluripotent stem cells. *Nucleic Acids Research*, **2013**, 41, 1829-47	20.1	67
41	Sustained knockdown of a disease-causing gene in patient-specific induced pluripotent stem cells using lentiviral vector-based gene therapy. *Stem Cells Translational Medicine*, **2013**, 2, 641-54	6.9	31
40	Engineered MSCs from Patient-Specific iPS Cells. *Advances in Biochemical Engineering/Biotechnology*, **2013**, 130, 1-17	1.7	8
39	Efficient hematopoietic redifferentiation of induced pluripotent stem cells derived from primitive murine bone marrow cells. *Stem Cells and Development*, **2012**, 21, 689-701	4.4	27
38	Increased reprogramming capacity of mouse liver progenitor cells, compared with differentiated liver cells, requires the BAF complex. *Gastroenterology*, **2012**, 142, 907-17	13.3	42

37	miRNAs involved in the generation, maintenance, and differentiation of pluripotent cells. *Journal of Molecular Medicine*, **2012**, 90, 747-52	5.5	19
36	Prospects and challenges of reprogrammed cells in hematology and oncology. *Pediatric Hematology and Oncology*, **2012**, 29, 507-28	1.7	4
35	Stem Cell Biology: New Applications for Studying Metabolic Diseases **2012**, 189-203		
34	iPS Cells: New Applications for Metabolic Liver Diseases **2012**, 85-95		
33	Hepatic differentiation of murine disease-specific induced pluripotent stem cells allows disease modelling in vitro. *Stem Cells International*, **2011**, 2011, 924782	5	6
32	miRNA screening reveals a new miRNA family stimulating iPS cell generation via regulation of Meox2. *EMBO Reports*, **2011**, 12, 1153-9	6.5	78
31	Neuroinflammatory and behavioural changes in the Atp7B mutant mouse model of Wilson's disease. *Journal of Neurochemistry*, **2011**, 118, 105-12	6	34
30	Comparison of the activity and pluripotency maintaining potential of human leukemia inhibitory factor (LIF) produced in E.coli and CHO cells. *BMC Proceedings*, **2011**, 5 Suppl 8, P109	2.3	
29	MicroRNA-221 regulates FAS-induced fulminant liver failure. *Hepatology*, **2011**, 53, 1651-61	11.2	55
28	Optimal reprogramming factor stoichiometry increases colony numbers and affects molecular characteristics of murine induced pluripotent stem cells. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2011**, 79, 426-35	4.6	49
27	Lentiviral vector design and imaging approaches to visualize the early stages of cellular reprogramming. *Molecular Therapy*, **2011**, 19, 782-9	11.7	187
26	Improved lentiviral gene transfer into human embryonic stem cells grown in co-culture with murine feeder and stroma cells. *Biological Chemistry*, **2011**, 392, 887-95	4.5	7
25	Efficient derivation of pluripotent stem cells from siRNA-mediated Cdx2-deficient mouse embryos. *Stem Cells and Development*, **2011**, 20, 485-93	4.4	7
24	Generation of healthy mice from gene-corrected disease-specific induced pluripotent stem cells. *PLoS Biology*, **2011**, 9, e1001099	9.7	43
23	Selection-independent generation of gene knockout mouse embryonic stem cells using zinc-finger nucleases. *PLoS ONE*, **2011**, 6, e28911	3.7	20
22	Generation and genetic modification of induced pluripotent stem cells. *Expert Opinion on Biological Therapy*, **2010**, 10, 1089-103	5.4	19
21	Preparation of bioactive soluble human leukemia inhibitory factor from recombinant Escherichia coli using thioredoxin as fusion partner. *Protein Expression and Purification*, **2010**, 73, 51-7	2	27
20	Induced pluripotent stem cells: characteristics and perspectives. *Advances in Biochemical Engineering/Biotechnology*, **2010**, 123, 107-26	1.7	7

19	Protein transduction from retroviral Gag precursors. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 7805-10	11.5	110
18	Induction of pluripotency in human cord blood unrestricted somatic stem cells. *Experimental Hematology*, **2010**, 38, 809-18, 818.e1-2	3.1	51
17	Hepatic differentiation of pluripotent stem cells. *Biological Chemistry*, **2009**, 390, 1047-55	4.5	19
16	Induced pluripotent stem cells generated without viral integration. *Hepatology*, **2009**, 49, 1048-9	11.2	11
15	Repopulation efficiencies of adult hepatocytes, fetal liver progenitor cells, and embryonic stem cell-derived hepatic cells in albumin-promoter-enhancer urokinase-type plasminogen activator mice. *American Journal of Pathology*, **2009**, 175, 1483-92	5.8	96
14	In vitro differentiation of reprogrammed murine somatic cells into hepatic precursor cells. *Biological Chemistry*, **2008**, 389, 889-96	4.5	21
13	Murine embryonic stem cell-derived hepatic progenitor cells engraft in recipient livers with limited capacity of liver tissue formation. *Cell Transplantation*, **2008**, 17, 313-23	4	50
12	Stem cells in liver regeneration and therapy. *Cell and Tissue Research*, **2008**, 331, 271-82	4.2	79
11	Absence of OCT4 expression in somatic tumor cell lines. *Stem Cells*, **2008**, 26, 692-7	5.8	102
10	A new side effect of immunosuppression: high incidence of hearing impairment after liver transplantation. *Liver Transplantation*, **2006**, 12, 411-5	4.5	34
9	Outcome and quality of life in patients with polycystic liver disease after liver or combined liver-kidney transplantation. *Liver Transplantation*, **2006**, 12, 1268-77	4.5	83
8	The role of stem cells in physiology, pathophysiology, and therapy of the liver **2006**, 2, 51		1
7	Human cord blood stem cells generate human cytokeratin 18-negative hepatocyte-like cells in injured mouse liver. *American Journal of Pathology*, **2005**, 167, 555-64	5.8	73
6	Reevaluation of bone marrow-derived cells as a source for hepatocyte regeneration. *Cell Transplantation*, **2004**, 13, 659-66	4	75
5	Multi-stage analysis of differential gene expression in BALB/C mouse liver development by high-density microarrays. *Differentiation*, **2003**, 71, 62-72	3.5	37
4	PCR-based quantification of amplified RNA from laser microdissected mouse liver samples. *Experimental and Molecular Pathology*, **2003**, 75, 53-7	4.4	9
3	Quantitative gene expression analysis reveals transition of fetal liver progenitor cells to mature hepatocytes after transplantation in uPA/RAG-2 mice. *American Journal of Pathology*, **2003**, 162, 37-45	5.8	60
2	MRP2, a human conjugate export pump, is present and transports fluo 3 into apical vacuoles of Hep G2 cells. *American Journal of Physiology - Renal Physiology*, **2000**, 278, G522-31	5.1	52

1	Expression of the apical conjugate export pump, Mrp2, in the polarized hepatoma cell line, WIF-B. *Hepatology*, **1998**, 28, 1332-40	11.2	80