

Tobias Cantz

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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	Lentiviral vector design and imaging approaches to visualize the early stages of cellular reprogramming. <i>Molecular Therapy</i> , 2011 , 19, 782-9	11.7	187
89	Direct Reprogramming of Hepatic Myofibroblasts into Hepatocytes In Vivo Attenuates Liver Fibrosis. <i>Cell Stem Cell</i> , 2016 , 18, 797-808	18	134
88	Protein transduction from retroviral Gag precursors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 7805-10	11.5	110
87	MicroRNA-221 overexpression accelerates hepatocyte proliferation during liver regeneration. <i>Hepatology</i> , 2013 , 57, 299-310	11.2	108
86	Absence of OCT4 expression in somatic tumor cell lines. <i>Stem Cells</i> , 2008 , 26, 692-7	5.8	102
85	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. <i>American Journal of Pathology</i> , 2009 , 175, 1483-92	5.8	96
84	Genome-wide tracking of dCas9-methyltransferase footprints. <i>Nature Communications</i> , 2018 , 9, 597	17.4	85
83	Outcome and quality of life in patients with polycystic liver disease after liver or combined liver-kidney transplantation. <i>Liver Transplantation</i> , 2006 , 12, 1268-77	4.5	83
82	Expression of the apical conjugate export pump, Mrp2, in the polarized hepatoma cell line, WIF-B. <i>Hepatology</i> , 1998 , 28, 1332-40	11.2	80
81	Stem cells in liver regeneration and therapy. <i>Cell and Tissue Research</i> , 2008 , 331, 271-82	4.2	79
80	miRNA screening reveals a new miRNA family stimulating iPS cell generation via regulation of Meox2. <i>EMBO Reports</i> , 2011 , 12, 1153-9	6.5	78
79	Reevaluation of bone marrow-derived cells as a source for hepatocyte regeneration. <i>Cell Transplantation</i> , 2004 , 13, 659-66	4	75
78	Human cord blood stem cells generate human cytokeratin 18-negative hepatocyte-like cells in injured mouse liver. <i>American Journal of Pathology</i> , 2005 , 167, 555-64	5.8	73
77	Gene correction of human induced pluripotent stem cells repairs the cellular phenotype in pulmonary alveolar proteinosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014 , 189, 167-82	10.2	68
76	Sleeping Beauty transposon-based system for cellular reprogramming and targeted gene insertion in induced pluripotent stem cells. <i>Nucleic Acids Research</i> , 2013 , 41, 1829-47	20.1	67
75	Quantitative gene expression analysis reveals transition of fetal liver progenitor cells to mature hepatocytes after transplantation in uPA/RAG-2 mice. <i>American Journal of Pathology</i> , 2003 , 162, 37-45	5.8	60
74	A ubiquitous chromatin opening element prevents transgene silencing in pluripotent stem cells and their differentiated progeny. <i>Stem Cells</i> , 2013 , 31, 488-99	5.8	59

73	MicroRNA-221 regulates FAS-induced fulminant liver failure. <i>Hepatology</i> , 2011 , 53, 1651-61	11.2	55
72	MRP2, a human conjugate export pump, is present and transports fluo 3 into apical vacuoles of Hep G2 cells. <i>American Journal of Physiology - Renal Physiology</i> , 2000 , 278, G522-31	5.1	52
71	Induction of pluripotency in human cord blood unrestricted somatic stem cells. <i>Experimental Hematology</i> , 2010 , 38, 809-18, 818.e1-2	3.1	51
70	Small Molecules Facilitate Single Factor-Mediated Hepatic Reprogramming. <i>Cell Reports</i> , 2016 , 15, 814-829	29.6	51
69	Murine embryonic stem cell-derived hepatic progenitor cells engraft in recipient livers with limited capacity of liver tissue formation. <i>Cell Transplantation</i> , 2008 , 17, 313-23	4	50
68	Optimal reprogramming factor stoichiometry increases colony numbers and affects molecular characteristics of murine induced pluripotent stem cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2011 , 79, 426-35	4.6	49
67	Generation of healthy mice from gene-corrected disease-specific induced pluripotent stem cells. <i>PLoS Biology</i> , 2011 , 9, e1001099	9.7	43
66	Increased reprogramming capacity of mouse liver progenitor cells, compared with differentiated liver cells, requires the BAF complex. <i>Gastroenterology</i> , 2012 , 142, 907-17	13.3	42
65	Promoter and lineage independent anti-silencing activity of the A2 ubiquitous chromatin opening element for optimized human pluripotent stem cell-based gene therapy. <i>Biomaterials</i> , 2014 , 35, 1531-42	15.6	38
64	Multi-stage analysis of differential gene expression in BALB/C mouse liver development by high-density microarrays. <i>Differentiation</i> , 2003 , 71, 62-72	3.5	37
63	Neuroinflammatory and behavioural changes in the Atp7B mutant mouse model of Wilson's disease. <i>Journal of Neurochemistry</i> , 2011 , 118, 105-12	6	34
62	A new side effect of immunosuppression: high incidence of hearing impairment after liver transplantation. <i>Liver Transplantation</i> , 2006 , 12, 411-5	4.5	34
61	MicroRNA-125b-5p mimic inhibits acute liver failure. <i>Nature Communications</i> , 2016 , 7, 11916	17.4	34
60	MicroRNA-199a-5p inhibition enhances the liver repopulation ability of human embryonic stem cell-derived hepatic cells. <i>Journal of Hepatology</i> , 2015 , 62, 101-10	13.4	32
59	Concise review: cell therapies for hereditary metabolic liver diseases-concepts, clinical results, and future developments. <i>Stem Cells</i> , 2015 , 33, 1055-62	5.8	32
58	Sustained knockdown of a disease-causing gene in patient-specific induced pluripotent stem cells using lentiviral vector-based gene therapy. <i>Stem Cells Translational Medicine</i> , 2013 , 2, 641-54	6.9	31
57	Glycomic Characterization of Induced Pluripotent Stem Cells Derived from a Patient Suffering from Phosphomannomutase 2 Congenital Disorder of Glycosylation (PMM2-CDG). <i>Molecular and Cellular Proteomics</i> , 2016 , 15, 1435-52	7.6	29
56	A Scalable Approach for the Generation of Human Pluripotent Stem Cell-Derived Hepatic Organoids with Sensitive Hepatotoxicity Features. <i>Stem Cells and Development</i> , 2017 , 26, 1490-1504	4.4	28

55	Efficient hematopoietic redifferentiation of induced pluripotent stem cells derived from primitive murine bone marrow cells. <i>Stem Cells and Development</i> , 2012 , 21, 689-701	4.4	27
54	Preparation of bioactive soluble human leukemia inhibitory factor from recombinant <i>Escherichia coli</i> using thioredoxin as fusion partner. <i>Protein Expression and Purification</i> , 2010 , 73, 51-7	2	27
53	Modified lentiviral LTRs allow Flp recombinase-mediated cassette exchange and in vivo tracing of "factor-free" induced pluripotent stem cells. <i>Molecular Therapy</i> , 2014 , 22, 919-28	11.7	22
52	Growth differentiation factor 11 attenuates liver fibrosis via expansion of liver progenitor cells. <i>Gut</i> , 2020 , 69, 1104-1115	19.2	22
51	Improved bi-allelic modification of a transcriptionally silent locus in patient-derived iPSC by Cas9 nickase. <i>Scientific Reports</i> , 2016 , 6, 38198	4.9	22
50	Generation of integration-free induced hepatocyte-like cells from mouse fibroblasts. <i>Scientific Reports</i> , 2015 , 5, 15706	4.9	21
49	In vitro differentiation of reprogrammed murine somatic cells into hepatic precursor cells. <i>Biological Chemistry</i> , 2008 , 389, 889-96	4.5	21
48	Altered calcium dynamics and glutamate receptor properties in iPSC-derived motor neurons from ALS patients with C9orf72, FUS, SOD1 or TDP43 mutations. <i>Human Molecular Genetics</i> , 2019 , 28, 2835-2850	5.6	20
47	Selection-independent generation of gene knockout mouse embryonic stem cells using zinc-finger nucleases. <i>PLoS ONE</i> , 2011 , 6, e28911	3.7	20
46	Keratinocyte growth factor and dexamethasone plus elevated cAMP levels synergistically support pluripotent stem cell differentiation into alveolar epithelial type II cells. <i>Tissue Engineering - Part A</i> , 2013 , 19, 938-51	3.9	19
45	miRNAs involved in the generation, maintenance, and differentiation of pluripotent cells. <i>Journal of Molecular Medicine</i> , 2012 , 90, 747-52	5.5	19
44	Generation and genetic modification of induced pluripotent stem cells. <i>Expert Opinion on Biological Therapy</i> , 2010 , 10, 1089-103	5.4	19
43	Hepatic differentiation of pluripotent stem cells. <i>Biological Chemistry</i> , 2009 , 390, 1047-55	4.5	19
42	Inhibition of miRNA-212/132 improves the reprogramming of fibroblasts into induced pluripotent stem cells by de-repressing important epigenetic remodelling factors. <i>Stem Cell Research</i> , 2017 , 20, 70-75	1.6	17
41	Mesenchymal Stem/Stromal Cells Derived From Induced Pluripotent Stem Cells Support CD34(pos) Hematopoietic Stem Cell Propagation and Suppress Inflammatory Reaction. <i>Stem Cells International</i> , 2015 , 2015, 843058	5	16
40	Gene correction of reversed Kostmann disease phenotype in patient-specific induced pluripotent stem cells. <i>Blood Advances</i> , 2017 , 1, 903-914	7.8	15
39	MicroRNA-29 impairs the early phase of reprogramming process by targeting active DNA demethylation enzymes and Wnt signaling. <i>Stem Cell Research</i> , 2017 , 19, 21-30	1.6	14
38	Chemically-Defined, Xeno-Free, Scalable Production of hPSC-Derived Definitive Endoderm Aggregates with Multi-Lineage Differentiation Potential. <i>Cells</i> , 2019 , 8,	7.9	14

37	Rescue of DNA-PK Signaling and T-Cell Differentiation by Targeted Genome Editing in a prkdc Deficient iPSC Disease Model. <i>PLoS Genetics</i> , 2015 , 11, e1005239	6	11
36	Induced pluripotent stem cells generated without viral integration. <i>Hepatology</i> , 2009 , 49, 1048-9	11.2	11
35	Biphasic modulation of Wnt signaling supports efficient foregut endoderm formation from human pluripotent stem cells. <i>Cell Biology International</i> , 2016 , 40, 534-48	4.5	10
34	PCR-based quantification of amplified RNA from laser microdissected mouse liver samples. <i>Experimental and Molecular Pathology</i> , 2003 , 75, 53-7	4.4	9
33	Kindlin-2 Modulates the Survival, Differentiation, and Migration of Induced Pluripotent Cell-Derived Mesenchymal Stromal Cells. <i>Stem Cells International</i> , 2017 , 2017, 7316354	5	8
32	Engineered MSCs from Patient-Specific iPS Cells. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013 , 130, 1-17	1.7	8
31	The Role of microRNAs in Embryonic and Induced Pluripotency. <i>Journal of Stem Cells and Regenerative Medicine</i> , 2018 , 14, 3-9	0.8	8
30	Bronchoalveolar sublineage specification of pluripotent stem cells: effect of dexamethasone plus cAMP-elevating agents and keratinocyte growth factor. <i>Tissue Engineering - Part A</i> , 2015 , 21, 669-82	3.9	7
29	Induced pluripotent stem cells: characteristics and perspectives. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2010 , 123, 107-26	1.7	7
28	Improved lentiviral gene transfer into human embryonic stem cells grown in co-culture with murine feeder and stroma cells. <i>Biological Chemistry</i> , 2011 , 392, 887-95	4.5	7
27	Efficient derivation of pluripotent stem cells from siRNA-mediated Cdx2-deficient mouse embryos. <i>Stem Cells and Development</i> , 2011 , 20, 485-93	4.4	7
26	Human germline editing in the era of CRISPR-Cas: risk and uncertainty, inter-generational responsibility, therapeutic legitimacy. <i>BMC Medical Ethics</i> , 2020 , 21, 87	2.9	7
25	Framing the ethical and legal issues of human artificial gametes in research, therapy, and assisted reproduction: A German perspective. <i>Bioethics</i> , 2018 , 32, 314-326	2	6
24	Small but significant: inter- and inpatient variations in iPS cell-based disease modeling. <i>Molecular Therapy</i> , 2013 , 21, 5-7	11.7	6
23	Hepatic differentiation of murine disease-specific induced pluripotent stem cells allows disease modelling in vitro. <i>Stem Cells International</i> , 2011 , 2011, 924782	5	6
22	Therapeutic HNF4A mRNA attenuates liver fibrosis in a preclinical model. <i>Journal of Hepatology</i> , 2021 , 75, 1420-1433	13.4	5
21	Rapid establishment of stable retroviral packaging cells and recombinant susceptible target cell lines employing novel transposon vectors derived from Sleeping Beauty. <i>Virology</i> , 2019 , 531, 40-47	3.6	4
20	From skin to blood: a new member joins the iClub. <i>Cell Stem Cell</i> , 2013 , 13, 131-3	18	4

19	Prospects and challenges of reprogrammed cells in hematology and oncology. <i>Pediatric Hematology and Oncology</i> , 2012 , 29, 507-28	1.7	4
18	MicroRNA-125b-5p Regulates Hepatocyte Proliferation During the Termination Phase of Liver Regeneration. <i>Hepatology Communications</i> , 2020 , 4, 1851-1863	6	3
17	Regulatory and intellectual property conundrums surrounding xenotransplantation. <i>Nature Biotechnology</i> , 2021 , 39, 796-798	44.5	3
16	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. <i>Biological Chemistry</i> , 2017 , 398, 939-954	4.5	2
15	A combined in silico and in vitro study on mouse Serpina1a antitrypsin-deficiency mutants. <i>Scientific Reports</i> , 2019 , 9, 7486	4.9	1
14	Functional characterization of the mouse Serpina1 paralog DOM-7. <i>Biological Chemistry</i> , 2018 , 399, 577-582	4.9	1
13	The role of stem cells in physiology, pathophysiology, and therapy of the liver 2006 , 2, 51		1
12	A selectable all-in-one CRISPR prime editing piggyBac transposon allows for highly efficient gene editing in human cell lines. <i>Scientific Reports</i> , 2021 , 11, 22154	4.9	1
11	KIF12 Variants and Disturbed Hepatocyte Polarity in Children with a Phenotypic Spectrum of Cholestatic Liver Disease. <i>Journal of Pediatrics</i> , 2021 ,	3.6	1
10	Generation of hiPSC-derived low threshold mechanoreceptors containing axonal termini resembling bulbous sensory nerve endings and expressing Piezo1 and Piezo2. <i>Stem Cell Research</i> , 2021 , 56, 102535	1.6	1
9	Direct conversion of porcine primary fibroblasts into hepatocyte-like cells. <i>Scientific Reports</i> , 2021 , 11, 9334	4.9	0
8	Regenerative Therapies for Liver Diseases 2013 , 203-231		
7	Comparison of the activity and pluripotency maintaining potential of human leukemia inhibitory factor (LIF) produced in E.coli and CHO cells. <i>BMC Proceedings</i> , 2011 , 5 Suppl 8, P109	2.3	
6	Reply to TClarifying US regulations on xenotransplantationTand Tinternational standards and guidelines for xenotransplantationT <i>Nature Biotechnology</i> , 2021 ,	44.5	
5	Organoids in Developmental Biology Research and Application. <i>Learning Materials in Biosciences</i> , 2020 , 209-218	0.3	
4	Stem Cell Biology: New Applications for Studying Metabolic Diseases 2012 , 189-203		
3	iPS Cells: New Applications for Metabolic Liver Diseases 2012 , 85-95		
2	Editierung induzierter pluripotenter Stammzellen mittels CRISPR/Cas9. <i>BioSpektrum</i> , 2018 , 24, 707-708	0.1	

- 1 Introduction to Genome Editing in Induced Pluripotent Stem Cells, Gametes, and Embryos **2022**, 15-28