Nico Lachmann

List of Publications by Year
in descending order

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76	2,068	331259	264894
papers	citations	21	42
		h-index	g-index

79	79	79	2711
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pulmonary macrophage transplantation therapy. Nature, 2014, 514, 450-454.	13.7	249
2	Large-Scale Hematopoietic Differentiation of Human Induced Pluripotent Stem Cells Provides Granulocytes or Macrophages for Cell Replacement Therapies. Stem Cell Reports, 2015, 4, 282-296.	2.3	173
3	Pulmonary transplantation of macrophage progenitors as effective and long-lasting therapy for hereditary pulmonary alveolar proteinosis. Science Translational Medicine, 2014, 6, 250ra113.	5.8	106
4	Bioreactor-based mass production of human iPSC-derived macrophages enables immunotherapies against bacterial airway infections. Nature Communications, 2018, 9, 5088.	5.8	105
5	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, 167-182.	2.5	85
6	Lost in translation: pluripotent stem cellâ€derived hematopoiesis. EMBO Molecular Medicine, 2015, 7, 1388-1402.	3.3	76
7	TALEN-mediated functional correction of X-linked chronic granulomatous disease in patient-derived induced pluripotent stem cells. Biomaterials, 2015, 69, 191-200.	5.7	76
8	Generation of HLA-Universal iPSC-Derived Megakaryocytes and Platelets for Survival Under Refractoriness Conditions. Molecular Medicine, 2016, 22, 274-285.	1.9	74
9	A ubiquitous chromatin opening element prevents transgene silencing in pluripotent stem cells and their differentiated progeny. Stem Cells, 2013, 31, 488-499.	1.4	70
10	A minimal ubiquitous chromatin opening element (UCOE) effectively prevents silencing of juxtaposed heterologous promoters by epigenetic remodeling in multipotent and pluripotent stem cells. Nucleic Acids Research, 2015, 43, 1577-1592.	6.5	70
11	Pulmonary Transplantation of Human Induced Pluripotent Stem Cellâ€“derived Macrophages Ameliorates Pulmonary Alveolar Proteinosis. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 350-360.	2.5	57
12	Lung surfactant metabolism: early in life, early in disease and target in cell therapy. Cell and Tissue Research, 2017, 367, 721-735.	1.5	50
13	MicroRNA-Based Therapy of GATA2-Deficient Vascular Disease. Circulation, 2016, 134, 1973-1990.	1.6	46
14	Enhanced Ex Vivo Generation of Erythroid Cells from Human Induced Pluripotent Stem Cells in a Simplified Cell Culture System with Low Cytokine Support. Stem Cells and Development, 2019, 28, 1540-1551.	1.1	45
15	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, 1531-1542.	5.7	42
16	iPSC-Derived Macrophages Effectively Treat Pulmonary Alveolar Proteinosis in Csf2rb-Deficient Mice. Stem Cell Reports, 2018, 11, 696-710.	2.3	40
17	Concise Review: Towards the Clinical Translation of Induced Pluripotent Stem Cell-Derived Blood Cellsâ€”Ready for Take-Off. Stem Cells Translational Medicine, 2019, 8, 332-339.	1.6	31
18	Efficient Hematopoietic Redifferentiation of Induced Pluripotent Stem Cells Derived from Primitive Murine Bone Marrow Cells. Stem Cells and Development, 2012, 21, 689-701.	1.1	28

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19	Continuous human iPSC-macrophage mass production by suspension culture in stirred tank bioreactors. Nature Protocols, 2022, 17, 513-539.	5.5	28
20	Impaired IFNÎ³-Signaling and Mycobacterial Clearance in IFNÎ³R1-Deficient Human iPSC-Derived Macrophages. Stem Cell Reports, 2018, 10, 7-16.	2.3	25
21	Murine iPSC-Derived Macrophages as a Tool for Disease Modeling of Hereditary Pulmonary Alveolar Proteinosis due to Csf2rb Deficiency. Stem Cell Reports, 2016, 7, 292-305.	2.3	23
22	Impaired respiratory burst contributes to infections in PKCÎ´-deficient patients. Journal of Experimental Medicine, 2021, 218, .	4.2	23
23	TALEN-mediated functional correction of human iPSC-derived macrophages in context of hereditary pulmonary alveolar proteinosis. Scientific Reports, 2017, 7, 15195.	1.6	22
24	Long-Term Safety and Efficacy of Gene-Pulmonary Macrophage Transplantation Therapy of PAP in Csf2raâ^'/â^' Mice. Molecular Therapy, 2019, 27, 1597-1611.	3.7	21
25	Beyond â€œBig Eatersâ€• The Versatile Role of Alveolar Macrophages in Health and Disease. International Journal of Molecular Sciences, 2021, 22, 3308.	1.8	21
26	ISG15 deficiency features a complex cellular phenotype that responds to treatment with itaconate and derivatives. Clinical and Translational Medicine, 2022, 12, .	1.7	20
27	Hematopoietic stem cell gene therapy for IFNÎ³R1 deficiency protects mice from mycobacterial infections. Blood, 2018, 131, 533-545.	0.6	19
28	Gene correction of HAX1 reversed Kostmann disease phenotype in patient-specific induced pluripotent stem cells. Blood Advances, 2017, 1, 903-914.	2.5	18
29	CARs and beyond: tailoring macrophage-based cell therapeutics to combat solid malignancies. , 2021, 9, e002741.		18
30	Ex Vivo Generation of CAR Macrophages from Hematopoietic Stem and Progenitor Cells for Use in Cancer Therapy. Cells, 2022, 11, 994.	1.8	18
31	Clonal Inventory Screens Uncover Monoclonality Following Serial Transplantation ofMGMTP140K-Transduced Stem Cells and Dose-Intense Chemotherapy. Human Gene Therapy, 2011, 22, 697-710.	1.4	17
32	MicroRNA-150-regulated vectors allow lymphocyte-sparing transgene expression in hematopoietic gene therapy. Gene Therapy, 2012, 19, 915-924.	2.3	17
33	Efficient in vivo regulation of cytidine deaminase expression in the haematopoietic system using a doxycycline-inducible lentiviral vector system. Gene Therapy, 2013, 20, 298-307.	2.3	17
34	Monocyte/macrophage lineage commitment and distribution are affected by the lack of regulatory TÂcells in scurfy mice. European Journal of Immunology, 2016, 46, 1656-1668.	1.6	17
35	Function and Safety of Lentivirus-Mediated Gene Transfer forCSF2RA-Deficiency. Human Gene Therapy Methods, 2017, 28, 318-329.	2.1	16
36	Human iPSC-based model of severe congenital neutropenia reveals elevated UPR and DNA damage in CD34+ cells preceding leukemic transformation. Experimental Hematology, 2019, 71, 51-60.	0.2	16

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37	Patient iPSC-Derived Macrophages to Study Inborn Errors of the IFN-Î³ Responsive Pathway. Cells, 2020, 9, 483.	1.8	16
38	A 3D iPSC-differentiation model identifies interleukin-3 as a regulator of early human hematopoietic specification. Haematologica, 2021, 106, 1354-1367.	1.7	16
39	Ex vivo Generation of Genetically Modified Macrophages from Human Induced Pluripotent Stem Cells. Transfusion Medicine and Hemotherapy, 2017, 44, 135-142.	0.7	15
40	iPSC modeling of stage-specific leukemogenesis reveals BAALC as a key oncogene in severe congenital neutropenia. Cell Stem Cell, 2021, 28, 906-922.e6.	5.2	13
41	Myeloid cellâ€based delivery of IFNâ€Î³ reprograms the leukemia microenvironment and induces antiâ€tumoral immune responses. EMBO Molecular Medicine, 2021, 13, e13598.	3.3	13
42	Lentiviral MGMTP140K-mediated inÂvivo selection employing a ubiquitous chromatin opening element (A2UCOE) linked to a cellular promoter. Biomaterials, 2014, 35, 7204-7213.	5.7	12
43	Targeted Integration of Inducible Caspase-9 in Human iPSCs Allows Efficient in vitro Clearance of iPSCs and iPSC-Macrophages. International Journal of Molecular Sciences, 2020, 21, 2481.	1.8	12
44	From macrophage biology to macrophage-based cellular immunotherapies. Gene Therapy, 2021, 28, 473-476.	2.3	12
45	The Immune-Modulatory Properties of iPSC-Derived Antigen-Presenting Cells. Transfusion Medicine and Hemotherapy, 2020, 47, 444-453.	0.7	11
46	Efficient Genetic Safety Switches for Future Application of iPSC-Derived Cell Transplants. Journal of Personalized Medicine, 2021, 11, 565.	1.1	11
47	In vivo enrichment of cytidine deaminase gene-modified hematopoietic cells by prolonged cytosine-arabinoside application. Cytotherapy, 2012, 14, 451-460.	0.3	10
48	Myeloprotection by Cytidine Deaminase Gene Transfer in Antileukemic Therapy. Neoplasia, 2013, 15, 239-248.	2.3	10
49	Human Lentiviral Gene Therapy Restores the Cellular Phenotype of Autosomal Recessive Complete IFN-Î³R1 Deficiency. Molecular Therapy - Methods and Clinical Development, 2020, 17, 785-795.	1.8	10
50	Restored Macrophage Function Ameliorates Disease Pathophysiology in a Mouse Model for IL10 Receptor-deficient Very Early Onset Inflammatory Bowel Disease. Journal of Crohn's and Colitis, 2021, 15, 1588-1595.	0.6	10
51	Tightly regulated â€˜all-in-oneâ€™ lentiviral vectors for protection of human hematopoietic cells from anticancer chemotherapy. Gene Therapy, 2015, 22, 883-892.	2.3	9
52	Human STAT1 gain-of-function iPSC line from a patient suffering from chronic mucocutaneous candidiasis. Stem Cell Research, 2020, 43, 101713.	0.3	9
53	The CpG-sites of the CBX3 ubiquitous chromatin opening element are critical structural determinants for the anti-silencing function. Scientific Reports, 2017, 7, 7919.	1.6	8
54	Lentiviral gene therapy and vitamin B3 treatment enable granulocytic differentiation of G6PC3-deficient induced pluripotent stem cells. Gene Therapy, 2020, 27, 297-306.	2.3	8

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55	Human iPSC-derived macrophages for efficient Staphylococcus aureus clearance in a murine pulmonary infection model. Blood Advances, 2021, 5, 5190-5201.	2.5	8
56	Deoxycytidine-kinase knockdown as a novel myeloprotective strategy in the context of fludarabine, cytarabine or cladribine therapy. Leukemia, 2015, 29, 2266-2269.	3.3	7
57	An immune cell spray (ICS) formulation allows for the delivery of functional monocyte/macrophages. Scientific Reports, 2018, 8, 16281.	1.6	7
58	Effective hematopoietic stem cell-based gene therapy in a murine model of hereditary pulmonary alveolar proteinosis. Haematologica, 2020, 105, 1147-1157.	1.7	7
59	Rescue from Pseudomonas aeruginosa Airway Infection via Stem Cell Transplantation. Molecular Therapy, 2021, 29, 1324-1334.	3.7	6
60	Targeted biallelic integration of an inducible Caspase 9 suicide gene in iPSCs for safer therapies. Molecular Therapy - Methods and Clinical Development, 2022, 26, 84-94.	1.8	6
61	Chemoprotection of murine hematopoietic cells by combined gene transfer of cytidine deaminase (CDD) and multidrug resistance 1 gene (MDR1). Journal of Experimental and Clinical Cancer Research, 2015, 34, 148.	3.5	5
62	Generation of an induced pluripotent stem cell line (MHHi018-A) from a patient with Cystic Fibrosis carrying p.Asn1303Lys (N1303K) mutation. Stem Cell Research, 2020, 44, 101744.	0.3	5
63	Genetic Correction of IL-10RB Deficiency Reconstitutes Anti-Inflammatory Regulation in iPSC-Derived Macrophages. Journal of Personalized Medicine, 2021, 11, 221.	1.1	5
64	Pulmonary transplantation of alpha-1 antitrypsin (AAT)-transgenic macrophages provides a source of functional human AAT in vivo. Gene Therapy, 2021, 28, 477-493.	2.3	5
65	Modeling MyD88 Deficiency In Vitro Provides New Insights in Its Function. Frontiers in Immunology, 2020, 11, 608802.	2.2	4
66	Generation of two hiPSC lines (MHHi016-A, MHHi016-B) from a primary ciliary dyskinesia patient carrying a homozygous 5Âbp duplication (c.248_252dup (p.Gly85Cysfs*11)) in exon 1 of the CCNO gene. Stem Cell Research, 2020, 46, 101850.	0.3	4
67	Generation of two human induced pluripotent stem cell lines (MHHi017-A, MHHi017-B) from a patient with primary ciliary dyskinesia carrying a homozygous mutation (c.7915CÂ>ÂT [p.Arg2639*]) in the DNAH5 gene. Stem Cell Research, 2020, 46, 101848.	0.3	4
68	Generation of three induced pluripotent stem cell lines (MHHi012-A, MHHi013-A, MHHi014-A) from a family with Loeys-Dietz syndrome carrying a heterozygous p.M253I (c.759G>A) mutation in the TGFBR1 gene. Stem Cell Research, 2020, 43, 101707.	0.3	4
69	In Vivo Lentiviral Gene Delivery of HLA-DR and Vaccination of Humanized Mice for Improving the Human T and B Cell Immune Reconstitution. Biomedicines, 2021, 9, 961.	1.4	3
70	The Ubiquitous Chromatin Opening Element (UCOE) Enhances Lentiviral Cytidine Deaminase (CDD) Expression and Drug Resistance During Hematopoietic Differentiation of Murine Induced Pluripotent Stem Cells (iPSCs),. Blood, 2011, 118, 4179-4179.	0.6	3
71	New Drugs for an Old Foe: Mycobacterium tuberculosis Meets PSC-Derived Macrophages. Stem Cell Reports, 2019, 13, 957-959.	2.3	1
72	Cytidine Deaminase in Myeloprotective Gene Therapy. , 2014, , 423-440.		0

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73	Doxycycline Regulatable Expression of Cytidine Deaminase Mediates Myeloprotection and Avoids Lymphotoxicity in a Murine Transplant Model. Blood, 2011, 118, 2054-2054.	0.6	0
74	IL-3 Specifies Early Hematopoietic Development from Human iPSCs and Synergizes with M-CSF and G-CSF on Myeloid Differentiation. Blood, 2014, 124, 4308-4308.	0.6	0
75	Generation of Human iPSC from Small Volume Peripheral Blood Samples. Methods in Molecular Biology, 2022, 2429, 27-39.	0.4	0
76	Polarization of human iPSC-derived macrophages directs their immunological response to secondary pro-inflammatory stimuli. Journal of Immunology and Regenerative Medicine, 2022, , 100061.	0.2	0