Martin J Hoogduijn

List of Publications by Year
in descending order

95 papers	5,633 citations	61984 43 h-index	82547 72 g-index
99 all docs	99 docs citations	99 times ranked	7274 citing authors

#	Article	IF	Citations
1	Immunomodulation By Therapeutic Mesenchymal Stromal Cells (MSC) Is Triggered Through Phagocytosis of MSC By Monocytic Cells. Stem Cells, 2018, 36, 602-615.	3.2	384
2	The Life and Fate of Mesenchymal Stem Cells. Frontiers in Immunology, 2014, 5, 148.	4.8	358
3	Multipotent stromal cells induce human regulatory T cells through a novel pathway involving skewing of monocytes toward anti-inflammatory macrophages. Stem Cells, 2013, 31, 1980-1991.	3.2	352
4	The immunomodulatory properties of mesenchymal stem cells and their use for immunotherapy. International Immunopharmacology, 2010, 10, 1496-1500.	3.8	212
5	Mesenchymal Stem Cell-Derived Interleukin 1 Receptor Antagonist Promotes Macrophage Polarization and Inhibits B Cell Differentiation. Stem Cells, 2016, 34, 483-492.	3.2	209
6	Mesenchymal stem cell-educated macrophages. Transplantation Research, 2012, 1, 12.	1.5	144
7	Comparative Characterization of Hair Follicle Dermal Stem Cells and Bone Marrow Mesenchymal Stem Cells. Stem Cells and Development, 2006, 15, 49-60.	2.1	142
8	Cryopreserved or Fresh Mesenchymal Stromal Cells: Only a Matter of Taste or Key to Unleash the Full Clinical Potential of MSC Therapy?. Advances in Experimental Medicine and Biology, 2016, 951, 77-98.	1.6	141
9	Long-Term Expansion, Enhanced Chondrogenic Potential, and Suppression of Endochondral Ossification of Adult Human MSCs via WNT Signaling Modulation. Stem Cell Reports, 2015, 4, 459-472.	4.8	122
10	Mesenchymal Stem Cells Induce an Inflammatory Response After Intravenous Infusion. Stem Cells and Development, 2013, 22, 2825-2835.	2.1	114
11	Mesenchymal Stromal Cells Anno 2019: Dawn of the Therapeutic Era? Concise Review. Stem Cells Translational Medicine, 2019, 8, 1126-1134.	3.3	114
12	Multiparameter Analysis of Human Bone Marrow Stromal Cells Identifies Distinct Immunomodulatory and Differentiation-Competent Subtypes. Stem Cell Reports, 2015, 4, 1004-1015.	4.8	111
13	Effects of Hypoxia on the Immunomodulatory Properties of Adipose Tissue-Derived Mesenchymal Stem cells. Frontiers in Immunology, 2013, 4, 203.	4.8	110
14	Inactivated Mesenchymal Stem Cells Maintain Immunomodulatory Capacity. Stem Cells and Development, 2016, 25, 1342-1354.	2.1	110
15	Inflammatory Conditions Dictate the Effect of Mesenchymal Stem or Stromal Cells on B Cell Function. Frontiers in Immunology, 2017, 8, 1042.	4.8	106
16	Human Mesenchymal Stem Cells Are Susceptible to Lysis by CD8⁺ T Cells and NK Cells. Cell Transplantation, 2011, 20, 1547-1559.	2.5	101
17	Susceptibility of Human Mesenchymal Stem Cells to Tacrolimus, Mycophenolic Acid, and Rapamycin. Transplantation, 2008, 86, 1283-1291.	1.0	92
18	Human Adipose Tissue-Derived Mesenchymal Stem Cells Induce Explosive T-Cell Proliferation. Stem Cells and Development, 2010, 19, 1843-1853.	2.1	89

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19	Features of synergism between mesenchymal stem cells and immunosuppressive drugs in a murine heart transplantation model. Transplant Immunology, 2011, 25, 141-147.	1.2	86
20	Cytokine treatment optimises the immunotherapeutic effects of umbilical cord-derived MSC for treatment of inflammatory liver disease. Stem Cell Research and Therapy, 2017, 8, 140.	5.5	84
21	Toward Development of iMesenchymal Stem Cells for Immunomodulatory Therapy. Frontiers in Immunology, 2015, 6, 648.	4.8	82
22	Potential of mesenchymal stem cells as immune therapy in solid-organ transplantation. Transplant International, 2009, 22, 365-376.	1.6	77
23	Membrane particles generated from mesenchymal stromal cells modulate immune responses by selective targeting of pro-inflammatory monocytes. Scientific Reports, 2017, 7, 12100.	3.3	74
24	Editorial: Safety, Efficacy and Mechanisms of Action of Mesenchymal Stem Cell Therapies. Frontiers in Immunology, 2020, 11, 243.	4.8	71
25	Update on Controls for Isolation and Quantification Methodology of Extracellular Vesicles Derived from Adipose Tissue Mesenchymal Stem Cells. Frontiers in Immunology, 2014, 5, 525.	4.8	69
26	Functional Nicotinic and Muscarinic Receptors on Mesenchymal Stem Cells. Stem Cells and Development, 2009, 18, 103-112.	2.1	67
27	On the interactions between mesenchymal stem cells and regulatory T cells for immunomodulation in transplantation. Frontiers in Immunology, 2012, 3, 126.	4.8	67
28	Advancement of Mesenchymal Stem Cell Therapy in Solid Organ Transplantation (MISOT). Transplantation, 2010, 90, 124-126.	1.0	66
29	Mesenchymal stromal cells for organ transplantation. Current Opinion in Organ Transplantation, 2014, 19, 41-46.	1.6	66
30	Aging of bone marrowâ€“ and umbilical cordâ€“derived mesenchymal stromal cells during expansion. Cytotherapy, 2017, 19, 798-807.	0.7	65
31	Toward MSC in Solid Organ Transplantation: 2008 Position Paper of the MISOT Study Group. Transplantation, 2009, 88, 614-619.	1.0	64
32	No Evidence for Circulating Mesenchymal Stem Cells in Patients with Organ Injury. Stem Cells and Development, 2014, 23, 2328-2335.	2.1	61
33	Effects of Freezeâ€“Thawing and Intravenous Infusion on Mesenchymal Stromal Cell Gene Expression. Stem Cells and Development, 2016, 25, 586-597.	2.1	60
34	Interaction between Adipose Tissue-Derived Mesenchymal Stem Cells and Regulatory T-Cells. Cell Transplantation, 2013, 22, 41-54.	2.5	58
35	Immunological Aspects of Allogeneic and Autologous Mesenchymal Stem Cell Therapies. Human Gene Therapy, 2011, 22, 1587-1591.	2.7	54
36	Mesenchymal stem cells derived from adipose tissue are not affected by renal disease. Kidney International, 2012, 82, 748-758.	5.2	54

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37	Are mesenchymal stromal cells immune cells?. Arthritis Research and Therapy, 2015, 17, 88.	3.5	54
38	Safety and feasibility of third-party multipotent adult progenitor cells for immunomodulation therapy after liver transplantation--a phase I study (MISOT-I). Journal of Translational Medicine, 2011, 9, 124.	4.4	51
39	Cell contact interaction between adiposeâ€derived stromal cells and alloâ€activated T lymphocytes. European Journal of Immunology, 2009, 39, 3436-3446.	2.9	50
40	Heart Grafts Tolerized Through Third-Party Multipotent Adult Progenitor Cells Can Be Retransplanted to Secondary Hosts With No Immunosuppression. Stem Cells Translational Medicine, 2013, 2, 595-606.	3.3	50
41	Women have more potential to induce browning of perirenal adipose tissue than men. Obesity, 2015, 23, 1671-1679.	3.0	49
42	Infusing Mesenchymal Stromal Cells into Porcine Kidneys during Normothermic Machine Perfusion: Intact MSCs Can Be Traced and Localised to Glomeruli. International Journal of Molecular Sciences, 2019, 20, 3607.	4.1	48
43	Mesenchymal stem cells. Current Opinion in Organ Transplantation, 2012, 17, 55-62.	1.6	47
44	Effect of Arthritic Synovial Fluids on the Expression of Immunomodulatory Factors by Mesenchymal Stem Cells: An Explorative in vitro Study. Frontiers in Immunology, 2012, 3, 231.	4.8	44
45	Bone marrow-derived mesenchymal stromal cells from patients with end-stage renal disease are suitable for autologous therapy. Cytotherapy, 2013, 15, 663-672.	0.7	43
46	Human Bone Marrow- and Adipose Tissue-derived Mesenchymal Stromal Cells are Immunosuppressive In vitro and in a Humanized Allograft Rejection Model. Journal of Stem Cell Research & Therapy, 2013, Suppl 6, 20780.	0.3	42
47	Mesenchymal stem cells control alloreactive CD8+CD28â^'T cells. Clinical and Experimental Immunology, 2013, 174, 449-458.	2.6	41
48	Culture expansion induces non-tumorigenic aneuploidy in adipose tissue-derived mesenchymal stromal cells. Cytotherapy, 2013, 15, 1352-1361.	0.7	40
49	Mesenchymal Stromal Cells as Anti-Inflammatory and Regenerative Mediators for Donor Kidneys During Normothermic Machine Perfusion. Stem Cells and Development, 2017, 26, 1162-1170.	2.1	39
50	Donor-Derived Mesenchymal Stem Cells Remain Present and Functional in the Transplanted Human Heart. American Journal of Transplantation, 2009, 9, 222-230.	4.7	37
51	NK Cells and MSCs: Possible Implications for MSC Therapy in Renal Transplantation. Journal of Stem Cell Research & Therapy, 2014, 04, 1000166.	0.3	36
52	Adipose Tissue-Derived Mesenchymal Stem Cells Have a Heterogenic Cytokine Secretion Profile. Stem Cells International, 2017, 2017, 1-7.	2.5	36
53	Human kidney organoids produce functional renin. Kidney International, 2021, 99, 134-147.	5.2	36
54	The Effects of Anticholinergic Insecticides on Human Mesenchymal Stem Cells. Toxicological Sciences, 2006, 94, 342-350.	3.1	35

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55	Effects of Normothermic Machine Perfusion Conditions on Mesenchymal Stromal Cells. Frontiers in Immunology, 2019, 10, 765.	4.8	32
56	The impact of mesenchymal stem cell therapy in transplant rejection and tolerance. Current Opinion in Organ Transplantation, 2012, 17, 355-361.	1.6	31
57	First Report on Ex Vivo Delivery of Paracrine Active Human Mesenchymal Stromal Cells to Liver Grafts During Machine Perfusion. Transplantation, 2020, 104, e5-e7.	1.0	30
58	The Biological Effects of IL-21 Signaling on B-Cell-Mediated Responses in Organ Transplantation. Frontiers in Immunology, 2016, 7, 319.	4.8	29
59	Treating Ischemically Damaged Porcine Kidneys with Human Bone Marrow- and Adipose Tissue-Derived Mesenchymal Stromal Cells During Ex Vivo Normothermic Machine Perfusion. Stem Cells and Development, 2020, 29, 1320-1330.	2.1	27
60	Mesenchymal stromal cell treatment of donor kidneys during ex vivo normothermic machine perfusion: A porcine renal autotransplantation study. American Journal of Transplantation, 2021, 21, 2348-2359.	4.7	26
61	Efficacy of immunotherapy with mesenchymal stem cells in man: a systematic review. Expert Review of Clinical Immunology, 2015, 11, 617-636.	3.0	25
62	Differential effects of heat-inactivated, secretome-deficient MSC and metabolically active MSC in sepsis and allogenic heart transplantation. Stem Cells, 2020, 38, 797-807.	3.2	23
63	T Lymphocyte Prestimulation Impairs in a Time-Dependent Manner the Capacity of Adipose Mesenchymal Stem Cells to Inhibit Proliferation: Role of Interferon Î³, Poly I:C, and Tryptophan Metabolism in Restoring Adipose Mesenchymal Stem Cell Inhibitory Effect. Stem Cells and Development, 2015, 24, 2158-2170.	2.1	22
64	Mesenchymal Stromal Cells Are Retained in the Porcine Renal Cortex Independently of Their Metabolic State After Renal Intra-Arterial Infusion. Stem Cells and Development, 2019, 28, 1224-1235.	2.1	22
65	Epigenetic changes in umbilical cord mesenchymal stromal cells upon stimulation and culture expansion. Cytotherapy, 2018, 20, 919-929.	0.7	19
66	Human Allogeneic Bone Marrow and Adipose Tissue Derived Mesenchymal Stromal Cells Induce CD8+ Cytotoxic T Cell Reactivity. Journal of Stem Cell Research & Therapy, 2013, 3, 004.	0.3	19
67	Allogeneic chondrogenically differentiated human mesenchymal stromal cells do not induce immunogenic responses from T lymphocytes in vitro. Cytotherapy, 2016, 18, 957-969.	0.7	16
68	Pre-Treatment of Human Mesenchymal Stem Cells With Inflammatory Factors or Hypoxia Does Not Influence Migration to Osteoarthritic Cartilage and Synovium. American Journal of Sports Medicine, 2017, 45, 1151-1161.	4.2	16
69	Reparative effect of mesenchymal stromal cells on endothelial cells after hypoxic and inflammatory injury. Stem Cell Research and Therapy, 2020, 11, 352.	5.5	16
70	Administration of Human MSC-Derived Extracellular Vesicles for the Treatment of Primary Sclerosing Cholangitis: Preclinical Data in MDR2 Knockout Mice. International Journal of Molecular Sciences, 2020, 21, 8874.	4.1	15
71	The emergence of regenerative medicine in organ transplantation: 1st European Cell Therapy and Organ Regeneration Section meeting. Transplant International, 2020, 33, 833-840.	1.6	15
72	Nanoparticle Release by Extended Criteria Donor Kidneys During Normothermic Machine Perfusion. Transplantation, 2019, 103, e110-e111.	1.0	14

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73	Morphology and size of stem cells from mouse and whale: observational study. BMJ, The, 2013, 347, f6833-f6833.	6.0	12
74	Ex Vivo Administration of Mesenchymal Stromal Cells in Kidney Grafts Against Ischemia-reperfusion Injuryâ€"Effective Delivery Without Kidney Function Improvement Posttransplant. Transplantation, 2021, 105, 517-528.	1.0	12
75	The Effects of an IL-21 Receptor Antagonist on the Alloimmune Response in a Humanized Mouse Skin Transplant Model. Transplantation, 2019, 103, 2065-2074.	1.0	11
76	The Importance of Dosing, Timing, and (in)Activation of Adipose Tissue-Derived Mesenchymal Stromal Cells on Their Immunomodulatory Effects. Stem Cells and Development, 2020, 29, 38-48.	2.1	11
77	Cellular therapies in organ transplantation. Transplant International, 2021, 34, 233-244.	1.6	11
78	Organ transplants of the future: planning for innovations including xenotransplantation. Transplant International, 2021, 34, 2006-2018.	1.6	11
79	Adipose Mesenchymal Stromal Cell Function Is Not Affected by Methotrexate and Azathioprine. BioResearch Open Access, 2013, 2, 431-439.	2.6	10
80	Mesenchymal stem cells in transplantation and tissue regeneration. Frontiers in Immunology, 2011, 2, 84.	4.8	9
81	Mesenchymal Stromal Cell Derived Membrane Particles Are Internalized by Macrophages and Endothelial Cells Through Receptor-Mediated Endocytosis and Phagocytosis. Frontiers in Immunology, 2021, 12, 651109.	4.8	9
82	Membrane Particles Derived From Adipose Tissue Mesenchymal Stromal Cells Improve Endothelial Cell Barrier Integrity. Frontiers in Immunology, 2021, 12, 650522.	4.8	8
83	Additional Normothermic Machine Perfusion Versus Hypothermic Machine Perfusion in Suboptimal Donor Kidney Transplantation: Protocol of a Randomized, Controlled, Open-Label Trial. International Journal of Surgery Protocols, 2021, 25, 227-237.	1.1	8
84	Vitamin D metabolism in human kidney organoids. Nephrology Dialysis Transplantation, 2021, , .	0.7	7
85	The effect of rabbit antithymocyte globulin on human mesenchymal stem cells. Transplant International, 2013, 26, 651-658.	1.6	6
86	Immunomodulation by Mesenchymal Stem Cells. Transplantation, 2017, 101, 30-31.	1.0	6
87	Proteomic Analysis of Mesenchymal Stromal Cell-Derived Extracellular Vesicles and Reconstructed Membrane Particles. International Journal of Molecular Sciences, 2021, 22, 12935.	4.1	5
88	How to Make Sense out of 75,000 Mesenchymal Stromal Cell Publications?. Cells, 2022, 11, 1419.	4.1	5
89	Kidney Organoids Are Capable of Forming Tumors, but Not Teratomas. Stem Cells, 2022, 40, 577-591.	3.2	3
90	Indoleamine 2,3-Dioxygenase Does It. Transplantation, 2015, 99, 1751-1752.	1.0	2

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91	Advanced in vitro Research Models to Study the Role of Endothelial Cells in Solid Organ Transplantation. Frontiers in Immunology, 2021, 12, 607953.	4.8	2
92	Identification of predictive markers for the generation of well-differentiated human induced pluripotent stem cell-derived kidney organoids. Stem Cells and Development, 2021, 30, 1103-1114.	2.1	2
93	Membrane particles from mesenchymal stromal cells reduce the expression of fibrotic markers on pulmonary cells. PLoS ONE, 2021, 16, e0248415.	2.5	1
94	Chondrogenically Primed Human Mesenchymal Stem Cells Persist and Undergo Early Stages of Endochondral Ossification in an Immunocompetent Xenogeneic Model. Frontiers in Immunology, 2021, 12, 715267.	4.8	1
95	The Authorsâ€™ Reply: Mesenchymal Stem Cells and Immunosuppressive Drug Interactions. Transplantation, 2009, 87, 1900-1901.	1.0	0