Katharina Schallmoser

List of Publications by Citations

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98 papers	7,369 citations	30 h-index	85 g-index
100 ext. papers	9,028 ext. citations	6 avg, IF	5.34 L-index

#	Paper	IF	Citations
98	Biological properties of extracellular vesicles and their physiological functions. *Journal of Extracellular Vesicles*, **2015**, 4, 27066	16.4	2611
97	Applying extracellular vesicles based therapeutics in clinical trials - an ISEV position paper. *Journal of Extracellular Vesicles*, **2015**, 4, 30087	16.4	722
96	Human platelet lysate can replace fetal bovine serum for clinical-scale expansion of functional mesenchymal stromal cells. *Transfusion*, **2007**, 47, 1436-46	2.9	383
95	Human alternatives to fetal bovine serum for the expansion of mesenchymal stromal cells from bone marrow. *Stem Cells*, **2009**, 27, 2331-41	5.8	362
94	Human platelet lysate: Replacing fetal bovine serum as a gold standard for human cell propagation?. *Biomaterials*, **2016**, 76, 371-87	15.6	279
93	Identification of the Human Skeletal Stem Cell. *Cell*, **2018**, 175, 43-56.e21	56.2	257
92	Humanized large-scale expanded endothelial colony-forming cells function in vitro and in vivo. *Blood*, **2009**, 113, 6716-25	2.2	179
91	Reciprocal leukemia-stroma VCAM-1/VLA-4-dependent activation of NF-B mediates chemoresistance. *Blood*, **2014**, 123, 2691-702	2.2	178
90	Epigenetic and in vivo comparison of diverse MSC sources reveals an endochondral signature for human hematopoietic niche formation. *Blood*, **2015**, 125, 249-60	2.2	167
89	Rapid large-scale expansion of functional mesenchymal stem cells from unmanipulated bone marrow without animal serum. *Tissue Engineering - Part C: Methods*, **2008**, 14, 185-96	2.9	153
88	A humanized bone marrow ossicle xenotransplantation model enables improved engraftment of healthy and leukemic human hematopoietic cells. *Nature Medicine*, **2016**, 22, 812-21	50.5	148
87	Manufacturing of Human Extracellular Vesicle-Based Therapeutics for Clinical Use. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	142
86	Humanized system to propagate cord blood-derived multipotent mesenchymal stromal cells for clinical application. *Regenerative Medicine*, **2007**, 2, 371-82	2.5	133
85	Immune cells mimic the morphology of endothelial progenitor colonies in vitro. *Stem Cells*, **2007**, 25, 1746-52	5.8	132
84	DNA methylation heterogeneity defines a disease spectrum in Ewing sarcoma. *Nature Medicine*, **2017**, 23, 386-395	50.5	128
83	Replicative senescence-associated gene expression changes in mesenchymal stromal cells are similar under different culture conditions. *Haematologica*, **2010**, 95, 867-74	6.6	103
82	Two steps to functional mesenchymal stromal cells for clinical application. *Transfusion*, **2007**, 47, 1426-35	2.9	103

81	A Good Manufacturing Practice-grade standard protocol for exclusively human mesenchymal stromal cell-derived extracellular vesicles. *Cytotherapy*, **2017**, 19, 458-472	4.8	99
80	Preparation of pooled human platelet lysate (pHPL) as an efficient supplement for animal serum-free human stem cell cultures. *Journal of Visualized Experiments*, **2009**,	1.6	79
79	Generation of a pool of human platelet lysate and efficient use in cell culture. *Methods in Molecular Biology*, **2013**, 946, 349-62	1.4	61
78	Clinical Protocols for the Isolation and Expansion of Mesenchymal Stromal Cells. *Transfusion Medicine and Hemotherapy*, **2008**, 35, 286-294	4.2	61
77	A robust potency assay highlights significant donor variation of human mesenchymal stem/progenitor cell immune modulatory capacity and extended radio-resistance. *Stem Cell Research and Therapy*, **2015**, 6, 236	8.3	60
76	Immunomodulative efficacy of bone marrow-derived mesenchymal stem cells cultured in human platelet lysate. *Journal of Clinical Immunology*, **2011**, 31, 1143-56	5.7	56
75	Prothrombin G20210A, factor V Leiden, and factor XIII Val34Leu: common mutations of blood coagulation factors and deep vein thrombosis in Austria. *Thrombosis Research*, **2000**, 99, 35-9	8.2	47
74	Generation and use of a humanized bone-marrow-ossicle niche for hematopoietic xenotransplantation into mice. *Nature Protocols*, **2017**, 12, 2169-2188	18.8	45
73	Production and Quality Requirements of Human Platelet Lysate: A Position Statement from the Working Party on Cellular Therapies of the International Society of Blood Transfusion. *Trends in Biotechnology*, **2020**, 38, 13-23	15.1	42
72	Human platelet lysate current standards and future developments. *Transfusion*, **2019**, 59, 1407-1413	2.9	38
71	Oxygen sensing mesenchymal progenitors promote neo-vasculogenesis in a humanized mouse model in vivo. *PLoS ONE*, **2012**, 7, e44468	3.7	37
70	A clinically-feasible protocol for using human platelet lysate and mesenchymal stem cells in regenerative therapies. *Journal of Cranio-Maxillo-Facial Surgery*, **2013**, 41, 153-61	3.6	37
69	International Forum on GMP-grade human platelet lysate for cell propagation: summary. *Vox Sanguinis*, **2018**, 113, 80-87	3.1	30
68	Mechanical fibrinogen-depletion supports heparin-free mesenchymal stem cell propagation in human platelet lysate. *Journal of Translational Medicine*, **2015**, 13, 354	8.5	30
67	Reticulocyte hemoglobin content allows early and reliable detection of functional iron deficiency in blood donors. *Clinica Chimica Acta*, **2012**, 413, 678-82	6.2	28
66	Selection of Tissue Factor-Deficient Cell Transplants as a Novel Strategy for Improving Hemocompatibility of Human Bone Marrow Stromal Cells. *Theranostics*, **2018**, 8, 1421-1434	12.1	26
65	Lack of association of the Glu298Asp polymorphism of endothelial nitric oxide synthase with manifest coronary artery disease, carotid atherosclerosis and forearm vascular reactivity in two Austrian populations. *European Journal of Clinical Investigation*, **2003**, 33, 191-8	4.6	26
64	Function and activation state of platelets in vitro depend on apheresis modality. *Vox Sanguinis*, **2010**, 99, 332-40	3.1	25

63	Factor II G20210A and Factor V G1691A Gene Mutations and Peripheral Arterial Occlusive Disease. *Thrombosis and Haemostasis*, **2000**, 83, 20-22	7	25
62	Lesion-induced accumulation of platelets promotes survival of adult neural stem / progenitor cells. *Experimental Neurology*, **2015**, 269, 75-89	5.7	24
61	Stromal Cells Act as Guardians for Endothelial Progenitors by Reducing Their Immunogenicity After Co-Transplantation. *Stem Cells*, **2017**, 35, 1233-1245	5.8	21
60	Platelet-derived growth factors for GMP-compliant propagation of mesenchymal stromal cells. *Bio-Medical Materials and Engineering*, **2009**, 19, 271-6	1	21
59	C242T polymorphism of the p22 phox gene is not associated with peripheral arterial occlusive disease. *Atherosclerosis*, **2000**, 152, 175-9	3.1	20
58	Delayed detectability of anti-HPA-3a by the MAIPA assay in a severe neonatal alloimmune thrombocytopenia, but successful transfusion of incompatible donor platelets: a case report. *Vox Sanguinis*, **2006**, 91, 181-3	3.1	14
57	Identification of an effective early signaling signature during neo-vasculogenesis in vivo by ex vivo proteomic profiling. *PLoS ONE*, **2013**, 8, e66909	3.7	14
56	Extracellular vesicles from human multipotent stromal cells protect against hearing loss after noise trauma in vivo. *Clinical and Translational Medicine*, **2020**, 10, e262	5.7	13
55	T-cell death, phosphatidylserine exposure and reduced proliferation rate to validate extracorporeal photochemotherapy. *Vox Sanguinis*, **2015**, 108, 82-8	3.1	12
54	The particle gel immunoassay as a rapid test to rule out heparin-induced thrombocytopenia?. *Journal of Thoracic and Cardiovascular Surgery*, **2009**, 137, 781-3	1.5	12
53	Human Platelet Lysate for Good Manufacturing Practice-Compliant Cell Production. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	12
52	A functional corona around extracellular vesicles enhances angiogenesis, skin regeneration and immunomodulation.. *Journal of Extracellular Vesicles*, **2022**, 11, e12207	16.4	11
51	Heparin Differentially Impacts Gene Expression of Stromal Cells from Various Tissues. *Scientific Reports*, **2019**, 9, 7258	4.9	10
50	Specificities of platelet autoantibodies and platelet activation in lupus anticoagulant patients: a relation to their history of thromboembolic disease. *Lupus*, **2006**, 15, 507-14	2.6	10
49	Tri-lineage potential of intraoral tissue-derived mesenchymal stromal cells. *Journal of Cranio-Maxillo-Facial Surgery*, **2013**, 41, 110-8	3.6	9
48	Pro-angiogenic induction of myeloid cells for therapeutic angiogenesis can induce mitogen-activated protein kinase p38-dependent foam cell formation. *Cytotherapy*, **2011**, 13, 503-12	4.8	9
47	The Fc gammaRIIa polymorphism R/H131, autoantibodies against the platelet receptors GPIb alpha and Fc gammaRIIa and a risk for thromboembolism in lupus anticoagulant patients. *Thrombosis and Haemostasis*, **2005**, 93, 544-8	7	9
46	Acoustophoresis Enables the Label-Free Separation of Functionally Different Subsets of Cultured Bone Marrow Stromal Cells. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2021**, 99, 476-487	4.6	9

45	International Forum on GMP-grade human platelet lysate for cell propagation. *Vox Sanguinis*, **2018**, 113, e1-e25	3.1	8
44	Donor selection and release criteria of cellular therapy products. *Vox Sanguinis*, **2013**, 104, 67-91	3.1	8
43	Self-assembly of differentiated progenitor cells facilitates spheroid human skin organoid formation and planar skin regeneration. *Theranostics*, **2021**, 11, 8430-8447	12.1	8
42	Bone marrow stromal cells from MDS and AML patients show increased adipogenic potential with reduced Delta-like-1 expression. *Scientific Reports*, **2021**, 11, 5944	4.9	7
41	Upregulation of mitotic bookmarking factors during enhanced proliferation of human stromal cells in human platelet lysate. *Journal of Translational Medicine*, **2019**, 17, 432	8.5	7
40	Influence of multicomponent apheresis on donorsThaematological and coagulation parameters, iron storage and platelet function. *Vox Sanguinis*, **2012**, 103, 194-200	3.1	6
39	Severe thrombocytopenia due to host-derived anti-HPA-1a after non-myeloablative allogeneic haematopoietic stem cell transplantation for multiple myeloma: a case report. *Vox Sanguinis*, **2005**, 89, 257-60	3.1	6
38	Hypoxic Conditions Promote the Angiogenic Potential of Human Induced Pluripotent Stem Cell-Derived Extracellular Vesicles. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	6
37	Iron depletion with a novel apheresis system in patients with hemochromatosis. *Transfusion*, **2015**, 55, 996-1000	2.9	5
36	Thrombin generation before and after multicomponent blood collection. *Transfusion*, **2008**, 48, 1584-90	2.9	5
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34	Platelet-derived factors impair placental chorionic gonadotropin beta-subunit synthesis. *Journal of Molecular Medicine*, **2020**, 98, 193-207	5.5	5
33	A novel splice-site mutation in intron 7 causes more severe hypercholesterolemia than a combined FH-FDB defect. *Atherosclerosis*, **2001**, 157, 524-5	3.1	4
32	A functional corona around extracellular vesicles enhances angiogenesis during skin regeneration and signals in immune cells		4
31	An alternative mini buffy coat preparation method for adult patients with extracorporeal photopheresis contraindications. *Journal of Clinical Apheresis*, **2017**, 32, 12-15	3.2	3
30	Third-party mesenchymal stromal cell infusion is associated with a decrease in thrombotic microangiopathy symptoms observed post-hematopoietic stem cell transplantation. *Pediatric Transplantation*, **2012**, 16, 131-6	1.8	3
29	Therapeutic red blood cell exchange in a child with sickle cell anaemia using the Spectra Optia apheresis system. *Transfusion Medicine*, **2014**, 24, 184-6	1.3	3
28	GMP-Compliant Propagation of Human Multipotent Mesenchymal Stromal Cells97-115		3

27	Heparin and Derivatives for Advanced Cell Therapies. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
26	Scalable Enrichment of Immunomodulatory Human Acute Myeloid Leukemia Cell Line-Derived Extracellular Vesicles.. *Cells*, **2021**, 10,	7.9	2
25	GMP-Compliant Propagation of Human Multipotent Mesenchymal Stromal Cells1		2
24	Platelet antibody analysis by three different tests. *Journal of Clinical Laboratory Analysis*, **2015**, 29, 198-202		1
23	Animal Protein‐free Expansion of Human Mesenchymal Stem/Progenitor Cells **2012**, 53-69		1
22	Extra-hematopoietic immunomodulatory role of the SCID-susceptibility gene DOCK-2 identified by stepwise maturation of human iPSCs into clonogenic mesodermal stromal progenitors		1
21	Self-assembly of progenitor cells under the aegis of platelet factors facilitates human skin organoid formation and vascularized wound healing		1
20	A Novel Role for Mesenchymal Stem/Progenitor Cells As Hypoxia Sensors During Initiation of Neo-Vasculogenesis in Vivo. *Blood*, **2012**, 120, 613-613	2.2	0
19	Immune Cells Mimic Endothelial Progenitor Colonies.. *Blood*, **2006**, 108, 1811-1811	2.2	
18	Human Mesenchymal Stem Cell Therapy: Platelet Lysate Supports Efficient Preclinical Expansion.. *Blood*, **2006**, 108, 3649-3649	2.2	
17	Human Platelet-Derived Factors Regulate Mesenchymal Stem Cell Gene Expression.. *Blood*, **2006**, 108, 4255-4255	2.2	
16	Excluding HIT Diagnosis by a Particle Gel Immunoassay.. *Blood*, **2008**, 112, 3405-3405	2.2	
15	Combined Action of Endothelial and Mesenchymal Niche Cells to Amplify Hematopoietic Progenitor Expansion in a Humanized System. *Blood*, **2008**, 112, 2410-2410	2.2	
14	Making Functional Endothelial Progenitors: Humanized Large-Scale Animal Serum-Free Propagated Adult Blood-Derived Endothelial Colony-Forming Cells Assemble Stable Perfused Vessels in Vivo.. *Blood*, **2008**, 112, 1882-1882	2.2	
13	Genomic Stability and Safety of MSCs after Animal Serum-Free Humanized Clinical Scale Propagation.. *Blood*, **2008**, 112, 2307-2307	2.2	
12	Pro‐angiogenic Induction of Myeloid Cells for Therapeutic Angiogenesis Can Favor MAPK p38‐dependent Foam Cell Formation. *Blood*, **2010**, 116, 4442-4442	2.2	
11	Human Vascular Progenitor Cells Can Guide Mesodermal Lineage Choice of Mesenchymal Stem and Progenitor Cells After Co-Transplantation In Vivo.. *Blood*, **2010**, 116, 939-939	2.2	
10	Replicative Senescence-Associated Gene Expression Changes In Human MSPCs Independent of Genomic Variations. *Blood*, **2010**, 116, 4775-4775	2.2	

9	Oxygen Sensing of Mesenchymal Stem and Progenitor Cells Facilitates Neo-Vasculogenesis In Vivo. *Blood*, **2010**, 116, 4313-4313	2.2
8	Dissociation of In Vivo and in Vitro Differentiation Capacity of Human Mesenchymal Stem Cells Is Reflected by a Tissue Specific Epigenetic Memory. *Blood*, **2011**, 118, 2386-2386	2.2
7	Platelet-Derived Factors Allow Human Mesenchymal Stem Cells to Spontaneously Undergo Endochondral Bone Differentiation and Provide Bone Marrow Support in a Xenogenic In Vivo Model. *Blood*, **2011**, 118, 1322-1322	2.2
6	Neo-Vasculogenesis In Vivo Is Facilitated by Oxygen Sensing Mesenchymal Stem and Pogenitor Cells. *Blood*, **2011**, 118, 699-699	2.2
5	Collagen Receptor-Mediated Mechanochemical Signaling Contributes to Human Pro-Angiogenic Mesenchymal Stem/Progenitor Cell-Induced Neo-Vasculogenesis. *Blood*, **2012**, 120, 5196-5196	2.2
4	Single Center Experience with the Nanoparticle-Based Flow Immunoassay for Diagnosis of Heparin-Induced Thrombocytopenia (HIT).. *Blood*, **2012**, 120, 2189-2189	2.2
3	Organotypic Epigenetic Signature Predicts Bone and Marrow Niche Forming Capacity of Stromal Progenitors in a Novel Mouse Model in Vivo.. *Blood*, **2012**, 120, 2987-2987	2.2
2	Therapeutic Red Blood Cell Exchange in Sickle Cell Anaemia Using the Spectra Optia Apheresis System. *Blood*, **2012**, 120, 4383-4383	2.2
1	Maintenance of Osteogenic Differentiation Capacity of MSPC Despite Amplified Proliferation Under Elevated Oxgen Conditions. *Blood*, **2012**, 120, 1916-1916	2.2