Bart Vandekerckhove

List of Publications by Year
in descending order

95 papers	4,140 citations	126858 33 h-index	118793 62 g-index
97 all docs	97 docs citations	97 times ranked	5438 citing authors

#	Article	IF	Citations
1	Endothelial progenitor cells: identity defined?. Journal of Cellular and Molecular Medicine, 2009, 13, 87-102.	1.6	439
2	Intracoronary Injection of CD133-Positive Enriched Bone Marrow Progenitor Cells Promotes Cardiac Recovery After Recent Myocardial Infarction. Circulation, 2005, 112, I178-83.	1.6	427
3	Endothelial Outgrowth Cells Are Not Derived From CD133+Cells or CD45+Hematopoietic Precursors. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 1572-1579.	1.1	331
4	Photothermal nanofibres enable safe engineering of therapeutic cells. Nature Nanotechnology, 2021, 16, 1281-1291.	15.6	192
5	Generation of T Cells from Human Embryonic Stem Cell-Derived Hematopoietic Zones. Journal of Immunology, 2009, 182, 6879-6888.	0.4	186
6	Synovial intracellular citrullinated proteins colocalizing with peptidyl arginine deiminase as pathophysiologically relevant antigenic determinants of rheumatoid arthritis-specific humoral autoimmunity. Arthritis and Rheumatism, 2005, 52, 2323-2330.	6.7	122
7	Active Form of Notch Imposes T Cell Fate in Human Progenitor Cells. Journal of Immunology, 2002, 169, 3021-3029.	0.4	100
8	An early decrease in Notch activation is required for human TCR-Î±Î² lineage differentiation at the expense of TCR-Î³Î´ T cells. Blood, 2009, 113, 2988-2998.	0.6	97
9	Specific Notch receptorâ€“ligand interactions control human TCR-Î±Î²/Î³Î´ development by inducing differential Notch signal strength. Journal of Experimental Medicine, 2013, 210, 683-697.	4.2	95
10	Jagged2 acts as a Delta-like Notch ligand during early hematopoietic cell fate decisions. Blood, 2011, 117, 4449-4459.	0.6	89
11	Nanobody Based Dual Specific CARs. International Journal of Molecular Sciences, 2018, 19, 403.	1.8	88
12	Integrated scRNA-Seq Identifies Human Postnatal Thymus Seeding Progenitors and Regulatory Dynamics of Differentiating Immature Thymocytes. Immunity, 2020, 52, 1088-1104.e6.	6.6	79
13	Intracoronary Delivery of Hematopoietic Bone Marrow Stem Cells and Luminal Loss of the Infarct-Related Artery in Patients With Recent Myocardial Infarction. Journal of the American College of Cardiology, 2006, 47, 1727-1730.	1.2	78
14	Human hematopoietic cells and thymic epithelial cells induce tolerance via different mechanisms in the SCID-hu mouse thymus.. Journal of Experimental Medicine, 1992, 175, 1033-1043.	4.2	74
15	Notch signaling is required for proliferation but not for differentiation at a well-defined Î²-selection checkpoint during human T-cell development. Blood, 2009, 113, 3254-3263.	0.6	70
16	Delivering Type I Interferon to Dendritic Cells Empowers Tumor Eradication and Immune Combination Treatments. Cancer Research, 2018, 78, 463-474.	0.4	70
17	Thymic selection of the human T cell receptor V beta repertoire in SCID-hu mice.. Journal of Experimental Medicine, 1992, 176, 1619-1624.	4.2	69
18	Adapted NOD/SCID model supports development of phenotypically and functionally mature T cells from human umbilical cord blood CD34+ cells. Blood, 2002, 99, 1620-1626.	0.6	66

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19	Both CD34+38+and CD34+38â˜Cells Home Specifically to the Bone Marrow of NOD/LtSZscid/scidMice but Show Different Kinetics in Expansion. Journal of Immunology, 2001, 167, 3692-3698.	0.4	63
20	GATA3 induces human T-cell commitment by restraining Notch activity and repressing NK-cell fate. Nature Communications, 2016, 7, 11171.	5.8	57
21	The human fetal thymus generates invariant effector Î³Î´ T cells. Journal of Experimental Medicine, 2020, 217, .	4.2	57
22	Analysis of cytotoxic T cell precursor frequencies directed against individual HLA-A and -B alloantigens. Journal of Immunological Methods, 1989, 121, 39-45.	0.6	51
23	TCR Sequencing Reveals the Distinct Development of Fetal and Adult Human VÎ³9VÎ´2 T Cells. Journal of Immunology, 2019, 203, 1468-1479.	0.4	48
24	Functionally Mature CD4 and CD8 TCRÎ±Î² Cells Are Generated in OP9-DL1 Cultures from Human CD34+ Hematopoietic Cells. Journal of Immunology, 2009, 183, 4859-4870.	0.4	46
25	Gene Correction of iPSCs from a Wiskott-Aldrich Syndrome Patient Normalizes the Lymphoid Developmental and Functional Defects. Stem Cell Reports, 2016, 7, 139-148.	2.3	43
26	Distinct and temporary-restricted epigenetic mechanisms regulate human Î±Î² and Î³Î´ T cell development. Nature Immunology, 2020, 21, 1280-1292.	7.0	43
27	Intracellular Delivery of mRNA in Adherent and Suspension Cells by Vapor Nanobubble Photoporation. Nano-Micro Letters, 2020, 12, 185.	14.4	42
28	Differentiation assays of bone marrow-derived Multipotent Adult Progenitor Cell (MAPC)-like cells towards neural cells cannot depend on morphology and a limited set of neural markers. Experimental Neurology, 2007, 203, 542-554.	2.0	40
29	In vitro human embryonic stem cell hematopoiesis mimics MYB-independent yolk sac hematopoiesis. Haematologica, 2015, 100, 157-166.	1.7	40
30	The checkpoint for agonist selection precedes conventional selection in human thymus. Science Immunology, 2017, 2, .	5.6	40
31	Human T Lymphopoiesis: In Vitro and In Vivo Study Models. Annals of the New York Academy of Sciences, 2000, 917, 724-731.	1.8	39
32	Chimerism and tolerance to host and donor in severe combined immunodeficiencies transplanted with fetal liver stem cells.. Journal of Clinical Investigation, 1993, 91, 1067-1078.	3.9	39
33	Bacterial superantigens mediate T cell deletions in the mouse severe combined immunodeficiency-human liver/thymus model.. Journal of Experimental Medicine, 1993, 177, 1481-1485.	4.2	35
34	Time-Dependent Effects on Coronary Remodeling and Epicardial Conductance after Intracoronary Injection of Enriched Hematopoietic Bone Marrow Stem Cells in Patients with Previous Myocardial Infarction. Cell Transplantation, 2007, 16, 919-925.	1.2	35
35	T-lymphoid differentiation potential measured in vitro is higher in CD34+CD38-/lo hematopoietic stem cells from umbilical cord blood than from bone marrow and is an intrinsic property of the cells. Haematologica, 2011, 96, 646-654.	1.7	33
36	The transcription factor ETS1 is an important regulator of human NK cell development and terminal differentiation. Blood, 2020, 136, 288-298.	0.6	33

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37	Safe eradication of large established tumors using neovasculatureâ€targeted tumor necrosis factorâ€based therapies. EMBO Molecular Medicine, 2020, 12, e11223.	3.3	33
38	RHAMM/HMMR (CD168) is not an ideal target antigen for immunotherapy of acute myeloid leukemia. Haematologica, 2012, 97, 1539-1547.	1.7	32
39	Distinct Notch1 and BCL11B requirements mediate human Î³Î´/Î±Î² T cell development. EMBO Reports, 2020, 21, e49006.	2.0	31
40	Dendritic Cell-Based Immunotherapy in Lung Cancer. Frontiers in Immunology, 2020, 11, 620374.	2.2	31
41	Photoporation with Biodegradable Polydopamine Nanosensitizers Enables Safe and Efficient Delivery of mRNA in Human T Cells. Advanced Functional Materials, 2021, 31, 2102472.	7.8	31
42	Viable CD34+ stem cell content of a cord blood graft: which measurement performed before transplantation is most representative?. Transfusion, 2004, 44, 547-554.	0.8	28
43	CD27â€deficient mice show normal NKâ€cell differentiation but impaired function upon stimulation. Immunology and Cell Biology, 2011, 89, 803-811.	1.0	26
44	Notch induces human T-cell receptor Î³Î´+ thymocytes to differentiate along a parallel, highly proliferative and bipotent CD4 CD8 double-positive pathway. Leukemia, 2012, 26, 127-138.	3.3	26
45	A Murine Intestinal Intraepithelial NKp46-Negative Innate Lymphoid Cell Population Characterized by Group 1 Properties. Cell Reports, 2017, 19, 1431-1443.	2.9	24
46	Rapid and Effective Generation of Nanobody Based CARs using PCR and Gibson Assembly. International Journal of Molecular Sciences, 2020, 21, 883.	1.8	24
47	T-BET and EOMES Accelerate and Enhance Functional Differentiation of Human Natural Killer Cells. Frontiers in Immunology, 2021, 12, 732511.	2.2	24
48	Continuous CD27 triggering in vivo strongly reduces NK cell numbers. European Journal of Immunology, 2010, 40, 1107-1117.	1.6	23
49	Antigen receptor-redirected T cells derived from hematopoietic precursor cells lack expression of the endogenous TCR/CD3 receptor and exhibit specific antitumor capacities. OncoImmunology, 2017, 6, e1283460.	2.1	22
50	Thymic Repopulation by CD34+ Human Cord Blood Cells After Expansion in Stroma-Free Culture. Blood, 1999, 94, 3644-3652.	0.6	20
51	Ly49E-dependent inhibition of natural killer cells by urokinase plasminogen activator. Blood, 2008, 112, 5046-5051.	0.6	20
52	Can immunotherapy specifically target acute myeloid leukemic stem cells?. OncoImmunology, 2013, 2, e22943.	2.1	20
53	HES1 and HES4 have non-redundant roles downstream of Notch during early human T-cell development. Haematologica, 2020, 106, 130-141.	1.7	20
54	Abundant stage-dependent Ly49E expression by liver NK cells is not essential for their differentiation and function. Journal of Leukocyte Biology, 2013, 93, 699-711.	1.5	18

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55	iPSC-Based Modeling of RAG2 Severe Combined Immunodeficiency Reveals Multiple T Cell Developmental Arrests. Stem Cell Reports, 2020, 14, 300-311.	2.3	18
56	Notch3 Activation Is Sufficient but Not Required for Inducing Human T-Lineage Specification. Journal of Immunology, 2014, 193, 5997-6004.	0.4	17
57	Cas9 RNP transfection by vapor nanobubble photoporation for exÂvivo cell engineering. Molecular Therapy - Nucleic Acids, 2021, 25, 696-707.	2.3	17
58	Inhibitory receptors specific for MHC class I educate murine NK cells but not CD8Î±Î± intestinal intraepithelial T lymphocytes. Blood, 2011, 118, 339-347.	0.6	15
59	Pluripotent stem cell based gene therapy for hematological diseases. Critical Reviews in Oncology/Hematology, 2016, 97, 238-246.	2.0	15
60	AN INCREASE OF DONOR-SPECIFIC T HELPER PRECURSORS RESULTING FROM BLOOD TRANSFUSIONS. Transplantation, 1990, 49, 987-990.	0.5	12
61	DifferentialLy49eExpression Pathways in Resting versus TCR-Activated Intraepithelial Î³Î´ T Cells. Journal of Immunology, 2013, 190, 1982-1990.	0.4	12
62	In Vitro Expanded Cells Contributing to Rapid Severe Combined Immunodeficient Repopulation Activity Are CD34+38â˜'33+90+45RAâ˜'. Stem Cells, 2007, 25, 107-114.	1.4	11
63	Langerhans cells are not required for epidermal VÎ³3 T cell homeostasis and function. Journal of Leukocyte Biology, 2011, 90, 61-68.	1.5	10
64	Ly49E Expression on CD8Î±Î±-Expressing Intestinal Intraepithelial Lymphocytes Plays No Detectable Role in the Development and Progression of Experimentally Induced Inflammatory Bowel Diseases. PLoS ONE, 2014, 9, e110015.	1.1	9
65	TARP is an immunotherapeutic target in acute myeloid leukemia expressed in the leukemic stem cell compartment. Haematologica, 2020, 105, 1306-1316.	1.7	9
66	Selecting cord blood units for storage by CD34+ cell counts. Transfusion, 2005, 45, 455-457.	0.8	8
67	In vitro generation of immune cells from pluripotent stem cells. Frontiers in Bioscience - Landmark, 2011, 16, 1488.	3.0	8
68	Small-scale manufacturing of neoantigen-encoding messenger RNA for early-phase clinical trials. Cytotherapy, 2022, 24, 213-222.	0.3	8
69	Expression of the inhibitory Ly49E receptor is not critically involved in the immune response against cutaneous, pulmonary or liver tumours. Scientific Reports, 2016, 6, 30564.	1.6	7
70	Human Thymic CD10+ PD-1+ Intraepithelial Lymphocyte Precursors Acquire Interleukin-15 Responsiveness at the CD1aâ€“ CD95+ CD28â€“ CCR7â€“ Developmental Stage. International Journal of Molecular Sciences, 2020, 21, 8785.	1.8	7
71	Human Fetal Liver Cells Differentiate Into Thymocytes in Chimeric Mouse Fetal Thymus Organ Culture. Advances in Experimental Medicine and Biology, 1994, 355, 27-31.	0.8	6
72	The Ly49E Receptor Inhibits the Immune Control of Acute Trypanosoma cruzi Infection. Frontiers in Immunology, 2016, 7, 472.	2.2	5

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73	Cytotoxic T Lymphocytes are the Prime Mediators of Suppression of the Mixed Lymphocyte Reaction by Alloactivated Cells. Scandinavian Journal of Immunology, 1989, 30, 659-664.	1.3	4
74	Specific suppression of mixed lymphocyte reactions by alloactivated cells is correlated with cytotoxicity. Human Immunology, 1989, 24, 183-194.	1.2	4
75	Contribution of the Ly49E Natural Killer Receptor in the Immune Response to Plasmodium berghei Infection and Control of Hepatic Parasite Development. PLoS ONE, 2014, 9, e87463.	1.1	4
76	The role of Ly49E receptor expression on murine intraepithelial lymphocytes in intestinal cancer development and progression. Cancer Immunology, Immunotherapy, 2016, 65, 1365-1375.	2.0	4
77	T-cells with a single tumor antigen-specific T-cell receptor can be generated in vitro from clinically relevant stem cell sources. OncoImmunology, 2020, 9, 1727078.	2.1	4
78	Conventional and Computational Flow Cytometry Analyses Reveal Sustained Human Intrathymic T Cell Development From Birth Until Puberty. Frontiers in Immunology, 2020, 11, 1659.	2.2	3
79	Clinical Significance of TARP Expression in Pediatric Acute Myeloid Leukemia. HemaSphere, 2020, 4, e346.	1.2	3
80	In vitro OP9-DL1 co-culture and subsequent maturation in the presence of IL-21 generates tumor antigen-specific T cells with a favorable less-differentiated phenotype and enhanced functionality. OncoImmunology, 2021, 10, 1954800.	2.1	3
81	Humanized Mice to Study Human T Cell Development. Methods in Molecular Biology, 2016, 1323, 253-272.	0.4	2
82	Recommendations in the event of a suspected transfusion-related acute lung injury (TRALI). Acta Clinica Belgica, 2012, 67, 201-8.	0.5	2
83	Treatment of a patient with severe cytomegalovirus (CMV) infection after haploidentical stem cell transplantation with donor-derived CMV-specific T cells. Acta Clinica Belgica, 2020, 76, 1-5.	0.5	1
84	Safety and Efficacy of Pathogen-Inactivated Platelets Transfused in Routine Use to Pediatric Patients: An Interim Report.. Blood, 2004, 104, 3639-3639.	0.6	1
85	CD4 and CD8 TCRÎ±Î² Cells Are selected On MHC Expressed On Thymocyte Precursors in OP9-DL1 Cultures.. Blood, 2009, 114, 3670-3670.	0.6	1
86	Passive Particle Agglutination Test for Screening Of Treponema Pallidum Antibodies in Blood Bank Routine.. Acta Clinica Belgica, 1998, 53, 319-321.	0.5	0
87	A new transcript in the TCRB locus unveils the human ortholog of the mouse preâ€DÃŸ1 promoter. Immunity, Inflammation and Disease, 2017, 5, 346-354.	1.3	0
88	Endothelial Cells Are Not Derived from Hematopoietic Precursor Cells.. Blood, 2006, 108, 1815-1815.	0.6	0
89	OP9-DL1 Cell Line Supports the Development of Phenotypically and Functionally Mature TcrÎ±Î² And TcrÎ³Î´ T Cells, through Both Conventional and Aberrant Developmental Pathways. Blood, 2008, 112, 2902-2902.	0.6	0
90	Generation of T Cells from Human Embryonic Stem Cells.. Blood, 2008, 112, 1527-1527.	0.6	0

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91	Human T Cell Differentiation: New Techniques, Old Challenges. , 2010, , 351-371.		0
92	Specific Notch receptorâ€“ligand interactions control human TCR-ab/gd development by inducing differential Notch signal strength. Journal of Cell Biology, 2013, 201, i2-i2.	2.3	0
93	The Checkpoint for Agonist Selection Precedes Conventional Selection in Human Thymus. Blood, 2016, 128, 860-860.	0.6	0
94	Immunopathology and Immunotherapy of Myeloid Leukemia. , 2020, , 103-117.		0
95	T-BET and EOMES Accelerate and Enhance Functional Differentiation of Human Natural Killer Cells. Frontiers in Immunology, 2021, 12, 732511.	2.2	0