

Bart Vandekerckhove

List of Publications by Year in descending order

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95
papers

4,140
citations

126907

33
h-index

118850

62
g-index

97
all docs

97
docs citations

97
times ranked

5438
citing authors

#	ARTICLE	IF	CITATIONS
1	Endothelial progenitor cells: identity defined?. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 87-102.	3.6	439
2	Intracoronary Injection of CD133-Positive Enriched Bone Marrow Progenitor Cells Promotes Cardiac Recovery After Recent Myocardial Infarction. <i>Circulation</i> , 2005, 112, 1178-83.	1.6	427
3	Endothelial Outgrowth Cells Are Not Derived From CD133+Cells or CD45+Hematopoietic Precursors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 1572-1579.	2.4	331
4	Photothermal nanofibres enable safe engineering of therapeutic cells. <i>Nature Nanotechnology</i> , 2021, 16, 1281-1291.	31.5	192
5	Generation of T Cells from Human Embryonic Stem Cell-Derived Hematopoietic Zones. <i>Journal of Immunology</i> , 2009, 182, 6879-6888.	0.8	186
6	Synovial intracellular citrullinated proteins colocalizing with peptidyl arginine deiminase as pathophysiologically relevant antigenic determinants of rheumatoid arthritis-specific humoral autoimmunity. <i>Arthritis and Rheumatism</i> , 2005, 52, 2323-2330.	6.7	122
7	Active Form of Notch Imposes T Cell Fate in Human Progenitor Cells. <i>Journal of Immunology</i> , 2002, 169, 3021-3029.	0.8	100
8	An early decrease in Notch activation is required for human TCR- $\alpha\beta$ lineage differentiation at the expense of TCR- $\alpha\gamma$ T cells. <i>Blood</i> , 2009, 113, 2988-2998.	1.4	97
9	Specific Notch receptor-ligand interactions control human TCR- $\alpha\beta$ development by inducing differential Notch signal strength. <i>Journal of Experimental Medicine</i> , 2013, 210, 683-697.	8.5	95
10	Jagged2 acts as a Delta-like Notch ligand during early hematopoietic cell fate decisions. <i>Blood</i> , 2011, 117, 4449-4459.	1.4	89
11	Nanobody Based Dual Specific CARs. <i>International Journal of Molecular Sciences</i> , 2018, 19, 403.	4.1	88
12	Integrated scRNA-Seq Identifies Human Postnatal Thymus Seeding Progenitors and Regulatory Dynamics of Differentiating Immature Thymocytes. <i>Immunity</i> , 2020, 52, 1088-1104.e6.	14.3	79
13	Intracoronary Delivery of Hematopoietic Bone Marrow Stem Cells and Luminal Loss of the Infarct-Related Artery in Patients With Recent Myocardial Infarction. <i>Journal of the American College of Cardiology</i> , 2006, 47, 1727-1730.	2.8	78
14	Human hematopoietic cells and thymic epithelial cells induce tolerance via different mechanisms in the SCID-hu mouse thymus.. <i>Journal of Experimental Medicine</i> , 1992, 175, 1033-1043.	8.5	74
15	Notch signaling is required for proliferation but not for differentiation at a well-defined β -selection checkpoint during human T-cell development. <i>Blood</i> , 2009, 113, 3254-3263.	1.4	70
16	Delivering Type I Interferon to Dendritic Cells Empowers Tumor Eradication and Immune Combination Treatments. <i>Cancer Research</i> , 2018, 78, 463-474.	0.9	70
17	Thymic selection of the human T cell receptor V beta repertoire in SCID-hu mice.. <i>Journal of Experimental Medicine</i> , 1992, 176, 1619-1624.	8.5	69
18	Adapted NOD/SCID model supports development of phenotypically and functionally mature T cells from human umbilical cord blood CD34+ cells. <i>Blood</i> , 2002, 99, 1620-1626.	1.4	66

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19	Both CD34 ⁺ CD38 ⁺ and CD34 ⁺ CD38 ⁺ Cells Home Specifically to the Bone Marrow of NOD/LtSzscid/scid Mice but Show Different Kinetics in Expansion. <i>Journal of Immunology</i> , 2001, 167, 3692-3698.	0.8	63
20	GATA3 induces human T-cell commitment by restraining Notch activity and repressing NK-cell fate. <i>Nature Communications</i> , 2016, 7, 11171.	12.8	57
21	The human fetal thymus generates invariant effector $\hat{I}^3\hat{I}^2$ T cells. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	57
22	Analysis of cytotoxic T cell precursor frequencies directed against individual HLA-A and -B alloantigens. <i>Journal of Immunological Methods</i> , 1989, 121, 39-45.	1.4	51
23	TCR Sequencing Reveals the Distinct Development of Fetal and Adult Human $\hat{V}1^3\hat{V}1^2$ T Cells. <i>Journal of Immunology</i> , 2019, 203, 1468-1479.	0.8	48
24	Functionally Mature CD4 and CD8 TCR $\hat{I}^3\hat{I}^2$ Cells Are Generated in OP9-DL1 Cultures from Human CD34 ⁺ Hematopoietic Cells. <i>Journal of Immunology</i> , 2009, 183, 4859-4870.	0.8	46
25	Gene Correction of iPSCs from a Wiskott-Aldrich Syndrome Patient Normalizes the Lymphoid Developmental and Functional Defects. <i>Stem Cell Reports</i> , 2016, 7, 139-148.	4.8	43
26	Distinct and temporary-restricted epigenetic mechanisms regulate human $\hat{I}^3\hat{I}^2$ and $\hat{I}^3\hat{I}^1$ T cell development. <i>Nature Immunology</i> , 2020, 21, 1280-1292.	14.5	43
27	Intracellular Delivery of mRNA in Adherent and Suspension Cells by Vapor Nanobubble Photoporation. <i>Nano-Micro Letters</i> , 2020, 12, 185.	27.0	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. <i>Experimental Neurology</i> , 2007, 203, 542-554.	4.1	40
29	In vitro human embryonic stem cell hematopoiesis mimics MYB-independent yolk sac hematopoiesis. <i>Haematologica</i> , 2015, 100, 157-166.	3.5	40
30	The checkpoint for agonist selection precedes conventional selection in human thymus. <i>Science Immunology</i> , 2017, 2, .	11.9	40
31	Human T Lymphopoiesis: <i>In Vitro</i> and <i>In Vivo</i> Study Models. <i>Annals of the New York Academy of Sciences</i> , 2000, 917, 724-731.	3.8	39
32	Chimerism and tolerance to host and donor in severe combined immunodeficiencies transplanted with fetal liver stem cells. <i>Journal of Clinical Investigation</i> , 1993, 91, 1067-1078.	8.2	39
33	Bacterial superantigens mediate T cell deletions in the mouse severe combined immunodeficiency-human liver/thymus model. <i>Journal of Experimental Medicine</i> , 1993, 177, 1481-1485.	8.5	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. <i>Cell Transplantation</i> , 2007, 16, 919-925.	2.5	35
35	T-lymphoid differentiation potential measured in vitro is higher in CD34 ⁺ CD38 ⁻ hematopoietic stem cells from umbilical cord blood than from bone marrow and is an intrinsic property of the cells. <i>Haematologica</i> , 2011, 96, 646-654.	3.5	33
36	The transcription factor ETS1 is an important regulator of human NK cell development and terminal differentiation. <i>Blood</i> , 2020, 136, 288-298.	1.4	33

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37	Safe eradication of large established tumors using neovasculature-targeted tumor necrosis factor-based therapies. <i>EMBO Molecular Medicine</i> , 2020, 12, e11223.	6.9	33
38	RHAMM/HMMR (CD168) is not an ideal target antigen for immunotherapy of acute myeloid leukemia. <i>Haematologica</i> , 2012, 97, 1539-1547.	3.5	32
39	Distinct Notch1 and <i>BCL11B</i> requirements mediate human $\beta\gamma$ T cell development. <i>EMBO Reports</i> , 2020, 21, e49006.	4.5	31
40	Dendritic Cell-Based Immunotherapy in Lung Cancer. <i>Frontiers in Immunology</i> , 2020, 11, 620374.	4.8	31
41	Photoporation with Biodegradable Polydopamine Nanosensitizers Enables Safe and Efficient Delivery of mRNA in Human T Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2102472.	14.9	31
42	Viable CD34+ stem cell content of a cord blood graft: which measurement performed before transplantation is most representative?. <i>Transfusion</i> , 2004, 44, 547-554.	1.6	28
43	CD27-deficient mice show normal NK cell differentiation but impaired function upon stimulation. <i>Immunology and Cell Biology</i> , 2011, 89, 803-811.	2.3	26
44	Notch induces human T-cell receptor $\beta\gamma$ + thymocytes to differentiate along a parallel, highly proliferative and bipotent CD4 CD8 double-positive pathway. <i>Leukemia</i> , 2012, 26, 127-138.	7.2	26
45	A Murine Intestinal Intraepithelial Nkp46-Negative Innate Lymphoid Cell Population Characterized by Group 1 Properties. <i>Cell Reports</i> , 2017, 19, 1431-1443.	6.4	24
46	Rapid and Effective Generation of Nanobody Based CARs using PCR and Gibson Assembly. <i>International Journal of Molecular Sciences</i> , 2020, 21, 883.	4.1	24
47	T-BET and EOMES Accelerate and Enhance Functional Differentiation of Human Natural Killer Cells. <i>Frontiers in Immunology</i> , 2021, 12, 732511.	4.8	24
48	Continuous CD27 triggering <i>in vivo</i> strongly reduces NK cell numbers. <i>European Journal of Immunology</i> , 2010, 40, 1107-1117.	2.9	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. <i>Oncolmmunology</i> , 2017, 6, e1283460.	4.6	22
50	Thymic Repopulation by CD34+ Human Cord Blood Cells After Expansion in Stroma-Free Culture. <i>Blood</i> , 1999, 94, 3644-3652.	1.4	20
51	Ly49E-dependent inhibition of natural killer cells by urokinase plasminogen activator. <i>Blood</i> , 2008, 112, 5046-5051.	1.4	20
52	Can immunotherapy specifically target acute myeloid leukemic stem cells?. <i>Oncolmmunology</i> , 2013, 2, e22943.	4.6	20
53	HES1 and HES4 have non-redundant roles downstream of Notch during early human T-cell development. <i>Haematologica</i> , 2020, 106, 130-141.	3.5	20
54	Abundant stage-dependent Ly49E expression by liver NK cells is not essential for their differentiation and function. <i>Journal of Leukocyte Biology</i> , 2013, 93, 699-711.	3.3	18

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55	iPSC-Based Modeling of RAG2 Severe Combined Immunodeficiency Reveals Multiple T Cell Developmental Arrests. <i>Stem Cell Reports</i> , 2020, 14, 300-311.	4.8	18
56	Notch3 Activation Is Sufficient but Not Required for Inducing Human T-Lineage Specification. <i>Journal of Immunology</i> , 2014, 193, 5997-6004.	0.8	17
57	Cas9 RNP transfection by vapor nanobubble photoporation for ex vivo cell engineering. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 25, 696-707.	5.1	17
58	Inhibitory receptors specific for MHC class I educate murine NK cells but not CD8 ⁺ intestinal intraepithelial T lymphocytes. <i>Blood</i> , 2011, 118, 339-347.	1.4	15
59	Pluripotent stem cell based gene therapy for hematological diseases. <i>Critical Reviews in Oncology/Hematology</i> , 2016, 97, 238-246.	4.4	15
60	AN INCREASE OF DONOR-SPECIFIC T HELPER PRECURSORS RESULTING FROM BLOOD TRANSFUSIONS. <i>Transplantation</i> , 1990, 49, 987-990.	1.0	12
61	Differential Ly49E Expression Pathways in Resting versus TCR-Activated Intraepithelial CD8 ⁺ T Cells. <i>Journal of Immunology</i> , 2013, 190, 1982-1990.	0.8	12
62	In Vitro Expanded Cells Contributing to Rapid Severe Combined Immunodeficient Repopulation Activity Are CD34 ⁺ CD38 ⁺ CD33 ⁺ CD90 ⁺ CD45RA ⁺ . <i>Stem Cells</i> , 2007, 25, 107-114.	3.2	11
63	Langerhans cells are not required for epidermal V β 3 T cell homeostasis and function. <i>Journal of Leukocyte Biology</i> , 2011, 90, 61-68.	3.3	10
64	Ly49E Expression on CD8 ⁺ -Expressing Intestinal Intraepithelial Lymphocytes Plays No Detectable Role in the Development and Progression of Experimentally Induced Inflammatory Bowel Diseases. <i>PLoS ONE</i> , 2014, 9, e110015.	2.5	9
65	TARP is an immunotherapeutic target in acute myeloid leukemia expressed in the leukemic stem cell compartment. <i>Haematologica</i> , 2020, 105, 1306-1316.	3.5	9
66	Selecting cord blood units for storage by CD34 ⁺ cell counts. <i>Transfusion</i> , 2005, 45, 455-457.	1.6	8
67	In vitro generation of immune cells from pluripotent stem cells. <i>Frontiers in Bioscience - Landmark</i> , 2011, 16, 1488.	3.0	8
68	Small-scale manufacturing of neoantigen-encoding messenger RNA for early-phase clinical trials. <i>Cytotherapy</i> , 2022, 24, 213-222.	0.7	8
69	Expression of the inhibitory Ly49E receptor is not critically involved in the immune response against cutaneous, pulmonary or liver tumours. <i>Scientific Reports</i> , 2016, 6, 30564.	3.3	7
70	Human Thymic CD10 ⁺ PD-1 ⁺ Intraepithelial Lymphocyte Precursors Acquire Interleukin-15 Responsiveness at the CD1a ⁺ CD95 ⁺ CD28 ⁺ CCR7 ⁺ Developmental Stage. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8785.	4.1	7
71	Human Fetal Liver Cells Differentiate Into Thymocytes in Chimeric Mouse Fetal Thymus Organ Culture. <i>Advances in Experimental Medicine and Biology</i> , 1994, 355, 27-31.	1.6	6
72	The Ly49E Receptor Inhibits the Immune Control of Acute <i>Trypanosoma cruzi</i> Infection. <i>Frontiers in Immunology</i> , 2016, 7, 472.	4.8	5

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73	Cytotoxic T Lymphocytes are the Prime Mediators of Suppression of the Mixed Lymphocyte Reaction by Alloactivated Cells. <i>Scandinavian Journal of Immunology</i> , 1989, 30, 659-664.	2.7	4
74	Specific suppression of mixed lymphocyte reactions by alloactivated cells is correlated with cytotoxicity. <i>Human Immunology</i> , 1989, 24, 183-194.	2.4	4
75	Contribution of the Ly49E Natural Killer Receptor in the Immune Response to <i>Plasmodium berghei</i> Infection and Control of Hepatic Parasite Development. <i>PLoS ONE</i> , 2014, 9, e87463.	2.5	4
76	The role of Ly49E receptor expression on murine intraepithelial lymphocytes in intestinal cancer development and progression. <i>Cancer Immunology, Immunotherapy</i> , 2016, 65, 1365-1375.	4.2	4
77	T-cells with a single tumor antigen-specific T-cell receptor can be generated <i>in vitro</i> from clinically relevant stem cell sources. <i>Oncolmmunology</i> , 2020, 9, 1727078.	4.6	4
78	Conventional and Computational Flow Cytometry Analyses Reveal Sustained Human Intrathymic T Cell Development From Birth Until Puberty. <i>Frontiers in Immunology</i> , 2020, 11, 1659.	4.8	3
79	Clinical Significance of <i>TARP</i> Expression in Pediatric Acute Myeloid Leukemia. <i>HemaSphere</i> , 2020, 4, e346.	2.7	3
80	<i>In vitro</i> 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. <i>Oncolmmunology</i> , 2021, 10, 1954800.	4.6	3
81	Humanized Mice to Study Human T Cell Development. <i>Methods in Molecular Biology</i> , 2016, 1323, 253-272.	0.9	2
82	Recommendations in the event of a suspected transfusion-related acute lung injury (TRALI). <i>Acta Clinica Belgica</i> , 2012, 67, 201-8.	1.2	2
83	Treatment of a patient with severe cytomegalovirus (CMV) infection after haploidentical stem cell transplantation with donor-derived CMV-specific T cells. <i>Acta Clinica Belgica</i> , 2020, 76, 1-5.	1.2	1
84	Safety and Efficacy of Pathogen-Inactivated Platelets Transfused in Routine Use to Pediatric Patients: An Interim Report.. <i>Blood</i> , 2004, 104, 3639-3639.	1.4	1
85	CD4 and CD8 TCR $\alpha\beta$ Cells Are selected On MHC Expressed On Thymocyte Precursors in OP9-DL1 Cultures.. <i>Blood</i> , 2009, 114, 3670-3670.	1.4	1
86	Passive Particle Agglutination Test for Screening Of <i>Treponema Pallidum</i> Antibodies in Blood Bank Routine.. <i>Acta Clinica Belgica</i> , 1998, 53, 319-321.	1.2	0
87	A new transcript in the <i>TCRB</i> locus unveils the human ortholog of the mouse <i>preαDβ1</i> promoter. <i>Immunity, Inflammation and Disease</i> , 2017, 5, 346-354.	2.7	0
88	Endothelial Cells Are Not Derived from Hematopoietic Precursor Cells.. <i>Blood</i> , 2006, 108, 1815-1815.	1.4	0
89	OP9-DL1 Cell Line Supports the Development of Phenotypically and Functionally Mature Tcr $\alpha\beta$ And Tcr β T Cells, through Both Conventional and Aberrant Developmental Pathways. <i>Blood</i> , 2008, 112, 2902-2902.	1.4	0
90	Generation of T Cells from Human Embryonic Stem Cells.. <i>Blood</i> , 2008, 112, 1527-1527.	1.4	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.	5.2	0
93	The Checkpoint for Agonist Selection Precedes Conventional Selection in Human Thymus. Blood, 2016, 128, 860-860.	1.4	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.	4.8	0