Nathalie Cools

List of Publications by Year
in descending order

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75 papers	2,925 citations	159573 30 h-index	175241 52 g-index
75 all docs	75 docs citations	75 times ranked	4602 citing authors

#	Article	IF	Citations
1	Induction of complete and molecular remissions in acute myeloid leukemia by Wilmsâ€™ tumor 1 antigen-targeted dendritic cell vaccination. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13824-13829.	7.1	341
2	Balancing between immunity and tolerance: an interplay between dendritic cells, regulatory T cells, and effector T cells. Journal of Leukocyte Biology, 2007, 82, 1365-1374.	3.3	192
3	Dendritic cell vaccination as postremission treatment to prevent or delay relapse in acute myeloid leukemia. Blood, 2017, 130, 1713-1721.	1.4	170
4	Regulatory T Cells and Human Disease. Clinical and Developmental Immunology, 2007, 2007, 1-10.	3.3	139
5	Hurdles in therapy with regulatory T cells. Science Translational Medicine, 2015, 7, 304ps18.	12.4	136
6	Cytomegalovirus-associated accumulation of late-differentiated CD4 T-cells correlates with poor humoral response to influenza vaccination. Vaccine, 2013, 31, 685-690.	3.8	115
7	The DFNA5 gene, responsible for hearing loss and involved in cancer, encodes a novel apoptosis-inducing protein. European Journal of Human Genetics, 2011, 19, 965-973.	2.8	99
8	mRNA-based dendritic cell vaccination induces potent antiviral T-cell responses in HIV-1-infected patients. Aids, 2012, 26, F1-F12.	2.2	88
9	Tolerogenic dendritic cell vaccines to treat autoimmune diseases: Can the unattainable dream turn into reality?. Autoimmunity Reviews, 2014, 13, 138-150.	5.8	87
10	The response of soil solution chemistry in European forests to decreasing acid deposition. Global Change Biology, 2018, 24, 3603-3619.	9.5	77
11	Immunosuppression induced by immature dendritic cells is mediated by TGFâ€Î²/ILâ€10 doubleâ€positive CD4⁺ regulatory T cells. Journal of Cellular and Molecular Medicine, 2008, 12, 690-700.	3.6	75
12	Short-term cultured, interleukin-15 differentiated dendritic cells have potent immunostimulatory properties. Journal of Translational Medicine, 2009, 7, 109.	4.4	74
13	Dendritic Cell-Based Cancer Gene Therapy. Human Gene Therapy, 2009, 20, 1106-1118.	2.7	68
14	Tolerogenic dendritic cell-based treatment for multiple sclerosis (MS): a harmonised study protocol for two phase I clinical trials comparing intradermal and intranodal cell administration. BMJ Open, 2019, 9, e030309.	1.9	63
15	Clinical Use of Tolerogenic Dendritic Cells-Harmonization Approach in European Collaborative Effort. Mediators of Inflammation, 2015, 2015, 1-8.	3.0	57
16	Messenger RNA Electroporation of Human Monocytes, Followed by Rapid In Vitro Differentiation, Leads to Highly Stimulatory Antigen-Loaded Mature Dendritic Cells. Journal of Immunology, 2002, 169, 1669-1675.	0.8	56
17	Dendritic Cells: Cellular Mediators for Immunological Tolerance. Clinical and Developmental Immunology, 2013, 2013, 1-8.	3.3	56
18	Minimum information about tolerogenic antigen-presenting cells (MITAP): a first step towards reproducibility and standardisation of cellular therapies. PeerJ, 2016, 4, e2300.	2.0	55

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19	The Toll-like receptor 7/8 agonist resiquimod greatly increases the immunostimulatory capacity of human acute myeloid leukemia cells. Cancer Immunology, Immunotherapy, 2010, 59, 35-46.	4.2	51
20	Neuroendocrine Immunoregulation in Multiple Sclerosis. Clinical and Developmental Immunology, 2013, 2013, 1-23.	3.3	46
21	12 Weeks of Combined Endurance and Resistance Training Reduces Innate Markers of Inflammation in a Randomized Controlled Clinical Trial in Patients with Multiple Sclerosis. Mediators of Inflammation, 2016, 2016, 1-13.	3.0	46
22	Minimum Information about T Regulatory Cells: A Step toward Reproducibility and Standardization. Frontiers in Immunology, 2017, 8, 1844.	4.8	43
23	Optimizing Dendritic Cell-Based Immunotherapy: Tackling the Complexity of Different Arms of the Immune System. Mediators of Inflammation, 2012, 2012, 1-14.	3.0	42
24	Cryopreserved vitamin D3-tolerogenic dendritic cells pulsed with autoantigens as a potential therapy for multiple sclerosis patients. Journal of Neuroinflammation, 2016, 13, 113.	7.2	42
25	To the Brain and Back: Migratory Paths of Dendritic Cells in Multiple Sclerosis. Journal of Neuropathology and Experimental Neurology, 2018, 77, 178-192.	1.7	42
26	Ways Forward for Tolerance-Inducing Cellular Therapies- an AFACTT Perspective. Frontiers in Immunology, 2019, 10, 181.	4.8	37
27	Towards comparable assessment of the soil nutrient status across scalesâ€"Review and development of nutrient metrics. Global Change Biology, 2020, 26, 392-409.	9.5	37
28	Induction of Cytomegalovirus-Specific T Cell Responses in Healthy Volunteers and Allogeneic Stem Cell Recipients Using Vaccination With Messenger RNAâ€"Transfected Dendritic Cells. Transplantation, 2015, 99, 120-127.	1.0	36
29	Dendritic cells in the pathogenesis and treatment of human diseases: a Janus Bifrons?. Immunotherapy, 2011, 3, 1203-1222.	2.0	34
30	Human Tears Reveal Insights into Corneal Neovascularization. PLoS ONE, 2012, 7, e36451.	2.5	34
31	Circulating dendritic cells of multiple sclerosis patients are proinflammatory and their frequency is correlated with MS-associated genetic risk factors. Multiple Sclerosis Journal, 2014, 20, 548-557.	3.0	31
32	Influence of Frequent Infectious Exposures on General and Varicella-Zoster Virus-Specific Immune Responses in Pediatricians. Vaccine Journal, 2014, 21, 417-426.	3.1	26
33	Impact of 24 Weeks of Resistance and Endurance Exercise on Glucose Tolerance in Persons with Multiple Sclerosis. American Journal of Physical Medicine and Rehabilitation, 2015, 94, 838-847.	1.4	25
34	Beyond the Magic Bullet: Current Progress of Therapeutic Vaccination in Multiple Sclerosis. CNS Drugs, 2018, 32, 401-410.	5.9	25
35	Regulating the regulators: Is introduction of an antigen-specific approach in regulatory T cells the next step to treat autoimmunity?. Cellular Immunology, 2020, 358, 104236.	3.0	21
36	Clinical and immunological control of experimental autoimmune encephalomyelitis by tolerogenic dendritic cells loaded with MOG-encoding mRNA. Journal of Neuroinflammation, 2019, 16, 167.	7.2	20

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37	Linking CD11b⁺Dendritic Cells and Natural Killer T Cells to Plaque Inflammation in Atherosclerosis. Mediators of Inflammation, 2016, 2016, 1-12.	3.0	18
38	Immunomodulatory Effects of 1,25-Dihydroxyvitamin D3on Dendritic Cells Promote Induction of T Cell Hyporesponsiveness to Myelin-Derived Antigens. Journal of Immunology Research, 2016, 2016, 1-16.	2.2	18
39	Fluorescent activated cell sorting: An effective approach to study dendritic cell subsets in human atherosclerotic plaques. Journal of Immunological Methods, 2015, 417, 76-85.	1.4	17
40	HPV vaccine stimulates cytotoxic activity of killer dendritic cells and natural killer cells against HPV â€positive tumour cells. Journal of Cellular and Molecular Medicine, 2014, 18, 1372-1380.	3.6	16
41	Increased Transendothelial Transport of CCL3 Is Insufficient to Drive Immune Cell Transmigration through the Bloodâ€“Brain Barrier under Inflammatory Conditions In Vitro. Mediators of Inflammation, 2017, 2017, 1-11.	3.0	16
42	A novel serine protease inhibitor as potential treatment for dry eye syndrome and ocular inflammation. Scientific Reports, 2020, 10, 17268.	3.3	16
43	Are Cell-Based Therapies Safe and Effective in the Treatment of Neurodegenerative Diseases? A Systematic Review with Meta-Analysis. Biomolecules, 2022, 12, 340.	4.0	16
44	Optimization and validation of an existing, surgical and robust dry eye rat model for the evaluation of therapeutic compounds. Experimental Eye Research, 2016, 146, 172-178.	2.6	15
45	Antigen-Specific Treatment Modalities in MS: The Past, the Present, and the Future. Frontiers in Immunology, 2021, 12, 624685.	4.8	15
46	GMP-Grade mRNA Electroporation of Dendritic Cells for Clinical Use. Methods in Molecular Biology, 2016, 1428, 139-150.	0.9	12
47	Phase 1 Randomized, Placebo-Controlled, Dose-Escalating Study to Evaluate OVX836, a Nucleoprotein-Based Influenza Vaccine: Intramuscular Results. Journal of Infectious Diseases, 2022, 226, 119-127.	4.0	12
48	FACS-Based Proteomics Enables Profiling of Proteins in Rare Cell Populations. International Journal of Molecular Sciences, 2020, 21, 6557.	4.1	11
49	Altered molecular expression of TLR-signaling pathways affects the steady-state release of IL-12p70 and IFN-Î± in patients with relapsing-remitting multiple sclerosis. Innate Immunity, 2016, 22, 266-273.	2.4	9
50	Long-Term Depletion of Conventional Dendritic Cells Cannot Be Maintained in an Atherosclerotic Zbtb46-DTR Mouse Model. PLoS ONE, 2017, 12, e0169608.	2.5	9
51	Cell Deathâ€“Mediated Cleavage of the Attraction Signal p43 in Human Atherosclerosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1415-1422.	2.4	8
52	Except for C-C chemokine receptor 7 expression, monocyte-derived dendritic cells from patients with multiple sclerosis are functionally comparable to those of healthy controls. Cytotherapy, 2014, 16, 1024-1030.	0.7	8
53	Rapid Exercise-Induced Mobilization of Dendritic Cells Is Potentially Mediated by a Flt3L- and MMP-9-Dependent Process in Multiple Sclerosis. Mediators of Inflammation, 2015, 2015, 1-10.	3.0	8
54	Bone Marrow-Derived Progenitor Cells Are Functionally Impaired in Ischemic Heart Disease. Journal of Cardiovascular Translational Research, 2016, 9, 266-278.	2.4	8

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55	Frequencies of peripheral immune cells in older adults following seasonal influenza vaccination with an adjuvanted vaccine. Vaccine, 2017, 35, 4330-4338.	3.8	8
56	Shuttling Tolerogenic Dendritic Cells across the Bloodâ€“Brain Barrier In Vitro via the Introduction of De Novo Câ€“C Chemokine Receptor 5 Expression Using Messenger RNA Electroporation. Frontiers in Immunology, 2018, 8, 1964.	4.8	8
57	Into the Moment: Does Mindfulness Affect Biological Pathways in Multiple Sclerosis?. Frontiers in Behavioral Neuroscience, 2018, 12, 103.	2.0	8
58	Immunogenicity and Antileukemic Activity of Dendritic Cells Electroporated with Wilmsâ€™ Tumor WT1 mRNA: A Phase I/II Trial in Acute Myeloid Leukemia. Blood, 2008, 112, 830-830.	1.4	8
59	Cellular Interferon Gamma and Granzyme B Responses to Cytomegalovirus-pp65 and Influenza N1 Are Positively Associated in Elderly. Viral Immunology, 2016, 29, 169-175.	1.3	7
60	On the road to new treatments for multiple sclerosis: targeting dendritic cell migration into the central nervous system. Neural Regeneration Research, 2019, 14, 2088.	3.0	7
61	A Standardized Morpho-Functional Classification of the Planetâ€™s Humipedons. Soil Systems, 2022, 6, 59.	2.6	7
62	In situ proximity of CX3CR1-positive mononuclear phagocytes and VIP-ergic nerve fibers suggests VIP-ergic immunomodulation in the mouse ileum. Cell and Tissue Research, 2017, 368, 459-467.	2.9	6
63	Made to Measure: Patient-Tailored Treatment of Multiple Sclerosis Using Cell-Based Therapies. International Journal of Molecular Sciences, 2021, 22, 7536.	4.1	6
64	Transmigration across a Steady-State Bloodâ€“Brain Barrier Induces Activation of Circulating Dendritic Cells Partly Mediated by Actin Cytoskeletal Reorganization. Membranes, 2021, 11, 700.	3.0	6
65	WT1-Targeted Dendritic Cell Vaccination as A Post-Remission Treatment to Prevent Full Relapse In Acute Myeloid Leukemia. Blood, 2010, 116, 16-16.	1.4	6
66	Interleukin-12p70 Expression by Dendritic Cells of HIV-1-Infected Patients Fails to Stimulategag-Specific Immune Responses. Clinical and Developmental Immunology, 2012, 2012, 1-11.	3.3	5
67	mRNA Electroporation as a Tool for Immunomonitoring. Methods in Molecular Biology, 2013, 969, 293-303.	0.9	5
68	Safety and immunological proof-of-concept following treatment with tolerance-inducing cell products in patients with autoimmune diseases or receiving organ transplantation: A systematic review and meta-analysis of clinical trials. Autoimmunity Reviews, 2021, 20, 102873.	5.8	5
69	Sensitive detection of human papillomavirus type 16 E7-specific T cells by ELISPOT after multiple in vitro stimulations of CD8+ T cells with peptide-pulsed autologous dendritic cells. Molecular Cancer, 2006, 5, 49.	19.2	4
70	Cells to the Rescue: Emerging Cell-Based Treatment Approaches for NMOSD and MOGAD. International Journal of Molecular Sciences, 2021, 22, 7925.	4.1	4
71	Engineering of regulatory T cells by means of mRNA electroporation in a GMP-compliant manner. Cytotherapy, 2022, , .	0.7	4
72	Accurate Measurements of Forest Soil Water Content Using FDR Sensors Require Empirical In Situ (Re)Calibration. Applied Sciences (Switzerland), 2021, 11, 11620.	2.5	3

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73	HLA Class II Genotype Does Not Affect the Myelin Responsiveness of Multiple Sclerosis Patients. Cells, 2020, 9, 2703.	4.1	0
74	Double-Stranded RNA Acts as a Strong Danger Signal in Human Myeloid Leukemia Cells Leading to Increased Immunogenicity.. Blood, 2006, 108, 5203-5203.	1.4	0
75	Does patient-tailored immunotherapy pave the way for new renal cell carcinoma treatment perspectives?. Translational Andrology and Urology, 2013, 2, 85-8.	1.4	0