Dirk Roos

List of Publications by Year
in descending order

131 papers	7,967 citations	50276 46 h-index	51608 86 g-index
134 all docs	134 docs citations	134 times ranked	9255 citing authors

#	Article	IF	Citations
1	Chronic Granulomatous Disease: The European Experience. PLoS ONE, 2009, 4, e5234.	2.5	567
2	Neutrophils: Between Host Defence, Immune Modulation, and Tissue Injury. PLoS Pathogens, 2015, 11, e1004651.	4.7	532
3	The Pi-linked receptor FcRIII is released on stimulation of neutrophils. Nature, 1988, 333, 667-669.	27.8	395
4	Oxidative killing of microbes by neutrophils. Microbes and Infection, 2003, 5, 1307-1315.	1.9	293
5	Single-cell Raman and fluorescence microscopy reveal the association of lipid bodies with phagosomes in leukocytes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10159-10164.	7.1	290
6	Neutrophils Kill Antibody-Opsonized Cancer Cells by Trogoptosis. Cell Reports, 2018, 23, 3946-3959.e6.	6.4	245
7	LAD-1/variant syndrome is caused by mutations in FERMT3. Blood, 2009, 113, 4740-4746.	1.4	217
8	Chronic granulomatous disease. British Medical Bulletin, 2016, 118, 50-63.	6.9	193
9	Hematologically important mutations: X-linked chronic granulomatous disease (third update). Blood Cells, Molecules, and Diseases, 2010, 45, 246-265.	1.4	179
10	Human Neutrophils Use Different Mechanisms To Kill Aspergillus fumigatus Conidia and Hyphae: Evidence from Phagocyte Defects. Journal of Immunology, 2016, 196, 1272-1283.	0.8	162
11	IMMUNOLOGY: Enhanced: Lethal Weapons. Science, 2002, 296, 669-671.	12.6	155
12	Two independent killing mechanisms of Candida albicans by human neutrophils: evidence from innate immunity defects. Blood, 2014, 124, 590-597.	1.4	152
13	Clinical, functional, and genetic characterization of chronic granulomatous disease in 89 Turkish patients. Journal of Allergy and Clinical Immunology, 2013, 132, 1156-1163.e5.	2.9	149
14	[8] Purification and cryopreservation of phagocytes from human blood. Methods in Enzymology, 1986, 132, 225-243.	1.0	147
15	Hematologically important mutations: Leukocyte adhesion deficiency (first update). Blood Cells, Molecules, and Diseases, 2012, 48, 53-61.	1.4	147
16	Hematologically important mutations: The autosomal recessive forms of chronic granulomatous disease (second update). Blood Cells, Molecules, and Diseases, 2010, 44, 291-299.	1.4	143
17	The Genetic Basis of Chronic Granulomatous Disease. Immunological Reviews, 1994, 138, 121-157.	6.0	137
18	How neutrophils kill fungi. Immunological Reviews, 2016, 273, 299-311.	6.0	136

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19	TFc?RIIIA-158F allele is a risk factor for systemic lupus erythematosus. Arthritis and Rheumatism, 1998, 41, 1813-1818.	6.7	133
20	Mitochondrial Membrane Potential in Human Neutrophils Is Maintained by Complex III Activity in the Absence of Supercomplex Organisation. PLoS ONE, 2008, 3, e2013.	2.5	127
21	Deficient alternative complement pathway activation due to factor D deficiency by 2 novel mutations in the complement factor D gene in a family with meningococcal infections. Blood, 2006, 107, 4865-4870.	1.4	117
22	Current Concepts of Hyperinflammation in Chronic Granulomatous Disease. Clinical and Developmental Immunology, 2012, 2012, 1-6.	3.3	116
23	Evidence Consistent with Human L1 Retrotransposition in Maternal Meiosis I. American Journal of Human Genetics, 2002, 71, 327-336.	6.2	109
24	Dynamics of Transcription Regulation in Human Bone Marrow Myeloid Differentiation to Mature Blood Neutrophils. Cell Reports, 2018, 24, 2784-2794.	6.4	104
25	Mannose-Binding Lectin (MBL) Facilitates Opsonophagocytosis of Yeasts but Not of Bacteria despite MBL Binding. Journal of Immunology, 2008, 180, 4124-4132.	0.8	103
26	Repression ofrac2mRNA Expression byAnaplasma phagocytophilaIs Essential to the Inhibition of Superoxide Production and Bacterial Proliferation. Journal of Immunology, 2002, 169, 7009-7018.	0.8	101
27	Inherited p40phox deficiency differs from classic chronic granulomatous disease. Journal of Clinical Investigation, 2018, 128, 3957-3975.	8.2	99
28	A new exon created by intronic insertion of a rearranged LINE-1 element as the cause of chronic granulomatous disease. European Journal of Human Genetics, 2000, 8, 697-703.	2.8	97
29	Chronic granulomatous disease: Clinical, functional, molecular, and genetic studies. The Israeli experience with 84 patients. American Journal of Hematology, 2017, 92, 28-36.	4.1	93
30	A family with complement factor D deficiency. Journal of Clinical Investigation, 2001, 108, 233-240.	8.2	87
31	Chronic granulomatous disease in Israel: Clinical, functional and molecular studies of 38 patients. Clinical Immunology, 2008, 129, 103-114.	3.2	82
32	Unusual late presentation of X-linked chronic granulomatous disease in an adult female with a somatic mosaic for a novel mutation in CYBB. Blood, 2005, 105, 61-66.	1.4	81
33	Hematologically Important Mutations: X-Linked Chronic Granulomatous Disease (Second Update). Blood Cells, Molecules, and Diseases, 2001, 27, 16-26.	1.4	79
34	The molecular basis of chronic granulomatous disease. Seminars in Immunopathology, 1998, 19, 417-434.	4.0	77
35	Complementation in monocyte hybrids revealing genetic heterogeneity in chronic granulomatous disease. Nature, 1984, 307, 553-555.	27.8	76
36	Differential activation of human basophils by anti-IgE and formyl-methionyl-leucylphenylalanine. Indications for protein kinase C-dependent and -independent activation pathways. European Journal of Immunology, 1991, 21, 881-885.	2.9	74

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37	C-reactive protein enhances IgG-mediated phagocyte responses and thrombocytopenia. Blood, 2015, 125, 1793-1802.	1.4	74
38	4 Primary immunodeficiency mutation databases. Advances in Genetics, 2001, 43, 103-188.	1.8	70
39	Dysregulation of innate immune receptors on neutrophils in chronic granulomatous disease. Journal of Allergy and Clinical Immunology, 2008, 121, 375-382.e9.	2.9	70
40	Location of the Epitope for 7D5, a Monoclonal Antibody Raised against Human Flavocytochrome b₅₅₈, to the Extracellular Peptide Portion of Primate gp91^{phox}. Microbiology and Immunology, 2001, 45, 249-257.	1.4	67
41	Î²1 integrin activation on human neutrophils promotes Î²2 integrin-mediated adhesion to fibronectin. European Journal of Immunology, 2001, 31, 276-284.	2.9	59
42	Clinical differences in chronic granulomatous disease in patients with cytochrome b-negative or cytochrome b-positive neutrophils. Journal of Pediatrics, 1985, 107, 102-104.	1.8	55
43	Gene-scan method for the recognition of carriers and patients with p47phox-deficient autosomal recessive chronic granulomatous disease. Experimental Hematology, 2001, 29, 1319-1325.	0.4	53
44	Chronic granulomatous disease with partial deficiency of cytochrome b 558 and incomplete respiratory burst: variants of the X-linked, cytochrome b 558 -negative form of the disease. Journal of Leukocyte Biology, 1992, 51, 164-171.	3.3	51
45	Continuous cell activation is necessary for stable interaction of complement receptor type 3 with its counter-structure in the aggregation response of human neutrophils. European Journal of Immunology, 1990, 20, 501-508.	2.9	49
46	Chronic granulomatous disease caused by mutations other than the common GT deletion inNCF1, the gene encoding the p47phoxcomponent of the phagocyte NADPH oxidase. Human Mutation, 2006, 27, 1218-1229.	2.5	48
47	Mannan-binding lectin (MBL)-mediated opsonization is enhanced by the alternative pathway amplification loop. Molecular Immunology, 2006, 43, 2051-2060.	2.2	47
48	Tyrosine phosphorylation-dependent activation of phosphatidylinositide 3-kinase occurs upstream of Ca2+-signalling induced by FcÎ³ receptor cross-linking in human neutrophils. Biochemical Journal, 1997, 323, 87-94.	3.7	46
49	Expression of myeloperoxidase (MPO) by neutrophils is necessary for their activation by anti-neutrophil cytoplasm autoantibodies (ANCA) against MPO. Journal of Leukocyte Biology, 2003, 73, 841-849.	3.3	46
50	Mediumâ€Chain, Triglycerideâ€Containing Lipid Emulsions Increase Human Neutrophil Î² 2 Integrin Expression, Adhesion, and Degranulation. Journal of Parenteral and Enteral Nutrition, 2000, 24, 228-233.	2.6	44
51	Heterogeneity in Chronic Granulomatous Disease Detected With an Improved Nitroblue Tetrazolium Slide Test. Journal of Leukocyte Biology, 1986, 39, 699-711.	3.3	42
52	Genetic analysis of patients with leukocyte adhesion deficiency. Experimental Hematology, 2002, 30, 252-261.	0.4	41
53	Deletion of leucine 61 in glucose-6-phosphate dehydrogenase leads to chronic nonspherocytic anemia, granulocyte dysfunction, and increased susceptibility to infections. Blood, 2002, 100, 1026-1030.	1.4	39
54	Impaired killing of Candida albicans by granulocytes mobilized for transfusion purposes: a role for granule components. Haematologica, 2016, 101, 587-596.	3.5	39

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55	Primary Immunodeficiency Caused by an Exonized Retroposed Gene Copy Inserted in theCYBBGene. Human Mutation, 2014, 35, 486-496.	2.5	38
56	Mannose-Binding Lectin (MBL) Substitution: Recovery of Opsonic Function In Vivo Lags behind MBL Serum Levels. Journal of Immunology, 2009, 183, 3496-3504.	0.8	36
57	Neutrophil responsiveness to IgG, as determined by fixed ratios of mRNA levels for activating and inhibitory FcÎ³RII (CD32), is stable over time and unaffected by cytokines. Blood, 2006, 108, 584-590.	1.4	35
58	NA-phenotype-dependent differences in neutrophil Fc?RIIIb expression cause differences in plasma levels of soluble Fc?RIII. British Journal of Haematology, 1996, 93, 235-241.	2.5	33
59	Chronic Granulomatous Disease: A 25-Year Patient Registry Based on a Multistep Diagnostic Procedure, from the Referral Center for Primary Immunodeficiencies in Greece. Journal of Clinical Immunology, 2013, 33, 1302-1309.	3.8	30
60	1,2-Diacylglycerol accumulation in human neutrophils does not correlate with respiratory burst activation. FEBS Letters, 1989, 243, 399-403.	2.8	29
61	Functional analysis of two-amino acid substitutions in gp91phox in a patient with X-linked flavocytochrome b558-positive chronic granulomatous disease by means of transgenic PLB-985 cells. Human Genetics, 2004, 115, 418-427.	3.8	29
62	SIRPÎ± Controls the Activity of the Phagocyte NADPH Oxidase by Restricting the Expression of gp91phox. Cell Reports, 2012, 2, 748-755.	6.4	29
63	Detection of gp91-phox precursor protein in B-cell lines from patients with X-linked chronic granulomatous disease as an indicator for mutations impairing cytochrome b558 biosynthesis. Biochemical Journal, 1996, 315, 571-575.	3.7	28
64	Chronic Granulomatous Disease. Methods in Molecular Biology, 2019, 1982, 531-542.	0.9	25
65	NADPH:O2oxidoreductase of human eosinophils in the cell-free system. FEBS Letters, 1990, 268, 269-273.	2.8	23
66	Complement fragments C3b and iC3b coupled to latex induce a respiratory burst in human neutrophils. Molecular Immunology, 1990, 27, 159-167.	2.2	23
67	Acute lymphoblastic leukemia in a patient with chronic granulomatous disease and a novel mutation inCYBB: First report. American Journal of Hematology, 2005, 80, 50-54.	4.1	23
68	Rapid Genetic Analysis of X-Linked Chronic Granulomatous Disease by High-Resolution Melting. Journal of Molecular Diagnostics, 2010, 12, 368-376.	2.8	23
69	Hematologically important mutations: X-linked chronic granulomatous disease (fourth update). Blood Cells, Molecules, and Diseases, 2021, 90, 102587.	1.4	22
70	Hematologically important mutations: The autosomal forms of chronic granulomatous disease (third) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	22
71	Subpopulations of T lymphocytes from human blood differing in density and stage of maturation. European Journal of Immunology, 1980, 10, 70-73.	2.9	21
72	Phagocytosis and degradation of DNA-anti-DNA complexes by human phagocytes I. Assay conditions, quantitative aspects and differences between human blood monocytes and neutrophils. European Journal of Immunology, 1981, 11, 757-764.	2.9	21

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73	Prenatal diagnosis in a family with X-linked chronic granulomatous disease with the use of the polymerase chain reaction. Prenatal Diagnosis, 1992, 12, 773-777.	2.3	21
74	Hermansky-Pudlak syndrome type 2: Aberrant pre-mRNA splicing and mislocalization of granule proteins in neutrophils. Human Mutation, 2017, 38, 1402-1411.	2.5	21
75	Prenatal diagnosis in two families with autosomal, p47phox-deficient chronic granulomatous disease due to a novel point mutation inNCF1. Prenatal Diagnosis, 2002, 22, 235-240.	2.3	20
76	Different unequal cross-over events between NCF1 and its pseudogenes in autosomal p47phox-deficient chronic granulomatous disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 1662-1672.	3.8	20
77	Epitope identification for human neutrophil flavocytochrome b monoclonals 48 and 449. European Journal of Haematology, 2000, 65, 407-413.	2.2	19
78	Celiac disease and pulmonary hemosiderosis in a patient with chronic granulomatous disease. Pediatric Pulmonology, 2004, 38, 344-348.	2.0	19
79	Alu-repeat-induced deletions within theNCF2gene causing p67-phox-deficient chronic granulomatous disease (CGD). Human Mutation, 2010, 31, 151-158.	2.5	19
80	Molecular Basis of Autosomal Recessive Chronic Granulomatous Disease in Iran. Journal of Clinical Immunology, 2010, 30, 587-592.	3.8	18
81	Functional and genetic characterization of two extremely rare cases of Williamsâ€“Beuren Syndrome associated with chronic granulomatous disease. European Journal of Human Genetics, 2013, 21, 1079-1084.	2.8	17
82	Phospholipase D-derived phosphatidic acid is involved in the activation of the CD11b/CD18 integrin in human eosinophils. Biochemical Journal, 1999, 340, 95-101.	3.7	16
83	Single-Cell Optical Imaging of the Phagocyte NADPH Oxidase. Antioxidants and Redox Signaling, 2006, 8, 1509-1522.	5.4	16
84	Identification of allele-specific p22-phox mutations in a compound heterozygous patient with chronic granulomatous disease by mismatch PCR and restriction enzyme analysis. Human Genetics, 1994, 93, 437-442.	3.8	15
85	Lymphadenopathy After BCG Vaccination in a Child with Chronic Granulomatous Disease. Pediatric Dermatology, 2004, 21, 646-651.	0.9	15
86	Mutations in cis that affect mRNA synthesis, processing and translation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2021, 1867, 166166.	3.8	15
87	Activation of Human Granulocytes by Intravenous Immunoglobulin Preparations Is Mediated by FcÎ³RII and FcÎ³RIII Receptors. Pediatric Research, 2000, 47, 357-361.	2.3	15
88	A 40â€baseâ€pair duplication in the gp91â€phox gene leading to Xâ€linked chronic granulomatous disease. European Journal of Haematology, 1993, 51, 218-222.	2.2	13
89	Gene mutations responsible for primary immunodeficiency disorders: A report from the first primary immunodeficiency biobank in Iran. Allergy, Asthma and Clinical Immunology, 2016, 12, 62.	2.0	13
90	Mutation in an exonic splicing enhancer site causing chronic granulomatous disease. Blood Cells, Molecules, and Diseases, 2017, 66, 50-57.	1.4	13

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91	Genetic Analysis of 13 Iranian Families With Leukocyte Adhesion Deficiency Type 1. Journal of Pediatric Hematology/Oncology, 2019, 41, e3-e6.	0.6	13
92	A founder effect for p47phox Trp193Ter chronic granulomatous disease in Kavkazi Jews. Blood Cells, Molecules, and Diseases, 2015, 55, 320-327.	1.4	12
93	Somatic Triple Mosaicism in a Carrier of X-Linked Chronic Granulomatous Disease. Blood, 1998, 91, 252-257.	1.4	11
94	Effect of interferon-Î³, in vitro and in vivo, on mRNA levels of phagocyte oxidase components. Journal of Leukocyte Biology, 1996, 60, 716-720.	3.3	10
95	Very early onset inflammatory bowel disease: Investigation of the IL-10 signaling pathway in Iranian children. European Journal of Medical Genetics, 2017, 60, 643-649.	1.3	10
96	Genetic Characteristics, Infectious, and Noninfectious Manifestations of 32 Patients with Chronic Granulomatous Disease. International Archives of Allergy and Immunology, 2020, 181, 540-550.	2.1	10
97	Clinical and laboratory findings in patients with leukocyte adhesion deficiency type I: A multicenter study in Turkey. Clinical and Experimental Immunology, 2021, 206, 47-55.	2.6	10
98	A novel polymorphism in the coding region of CYBB, the human gp91-phox gene. Human Genetics, 1996, 97, 611-613.	3.8	9
99	A novel mutation in NCF1 in an adult CGD patient with a liver abscess as first presentation. Journal of Human Genetics, 2009, 54, 313-316.	2.3	9
100	Two X-Linked Chronic Granulomatous Disease Patients with Unusual NADPH Oxidase Properties. Journal of Clinical Immunology, 2011, 31, 560-566.	3.8	9
101	Adherence of human neutrophils changes Ca2+signaling during activation with opsonized particles. FEBS Letters, 1990, 270, 49-52.	2.8	8
102	A donor splice site mutation in intron 1 of CYBA, leading to chronic granulomatous disease. Blood Cells, Molecules, and Diseases, 2005, 35, 365-369.	1.4	8
103	Proinflammatory cytokine response toward fungi but not bacteria in chronic granulomatous disease. Journal of Allergy and Clinical Immunology, 2016, 138, 928-930.e4.	2.9	8
104	Activation of cryptic splice sites in three patients with chronic granulomatous disease. Molecular Genetics & Genomic Medicine, 2019, 7, e854.	1.2	8
105	Clinical and Immunological Characteristics of 63 Patients with Chronic Granulomatous Disease: Hacettepe Experience. Journal of Clinical Immunology, 2021, 41, 992-1003.	3.8	8
106	Membrane Dynamics and Organization of the Phagocyte NADPH Oxidase in PLB-985 Cells. Frontiers in Cell and Developmental Biology, 2020, 8, 608600.	3.7	7
107	Phagocytosis and degradation of DNA-anti-DNA complexes by human phagocytes. II. Influence of the size of the complexes. European Journal of Immunology, 1981, 11, 764-768.	2.9	6
108	Rare Duplication or Deletion of Exons 6, 7 and 8 in CYBB Leading to X-Linked Chronic Granulomatous Disease in Two Patients from Different Families. Journal of Clinical Immunology, 2012, 32, 653-662.	3.8	6

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109	Biochemical consequences of 2â€²-deoxycoformycin treatment in a patient with T-cell lymphoma. Some unusual findings. Cancer, 1987, 60, 750-755.	4.1	5
110	Aberrant ribonucleotide pattern in lymphoid cells from patients with chronic lymphocytic leukaemia or non-Hodgkin lymphoma. International Journal of Cancer, 1987, 40, 192-197.	5.1	5
111	Successful Treatment With Percutaneous Transhepatic Alcoholization of a Liver Abscess in a Child With Chronic Granulomatous Disease. Pediatric Infectious Disease Journal, 2011, 30, 819-820.	2.0	5
112	Mutation characterization and heterodimer analysis of patients with leukocyte adhesion deficiency: Including one novel mutation. Immunology Letters, 2017, 187, 7-13.	2.5	5
113	A false-carrier state for the c.579G>A mutation in the NCF1 gene in Ashkenazi Jews. Journal of Medical Genetics, 2018, 55, 166-172.	3.2	5
114	An adult autosomal recessive chronic granulomatous disease patient with pulmonary Aspergillus terreus infection. BMC Infectious Diseases, 2018, 18, 552.	2.9	5
115	Neutrophil Antigens, from Bench to Bedside. Immunological Investigations, 1995, 24, 245-272.	2.0	4
116	Alu repeat-induced deletions in chronic granulomatous disease: a cause not only for p67-phox, but also for p47-phox deficiency. Annals of Hematology, 2013, 92, 1003-1004.	1.8	4
117	Analysis of Chronic Granulomatous Disease in the Kavkazi Population in Israel Reveals Phenotypic Heterogeneity in Patients with the Same NCF1 mutation (c.579G>A). Journal of Clinical Immunology, 2018, 38, 193-203.	3.8	4
118	Characterization of 4 New Mutations in the CYBB Gene in 10 Iranian Families With X-linked Chronic Granulomatous Disease. Journal of Pediatric Hematology/Oncology, 2018, 40, e268-e272.	0.6	4
119	T FcRIIIA158F allele is a risk factor for systemic lupus erythematosus. Arthritis and Rheumatism, 1998, 41, 1813-1818.	6.7	4
120	Two CGD Families with a Hypomorphic Mutation in the Activation Domain of p67. Journal of Clinical & Cellular Immunology, 2014, 5, .	1.5	4
121	The search for a genetic defect in Polish patients with chronic granulomatous disease. Archivum Immunologiae Et Therapiae Experimentalis, 2004, 52, 441-6.	2.3	4
122	Î²â€‰1 integrin activation on human neutrophils promotes Î²â€‰2 integrin-mediated adhesion to fibronectin. European Journal of Immunology, 2001, 31, 276-284.	2.9	3
123	Neutrophils Forever â€¦ , 0, , 1-26.		3
124	Complement and phagocytes â€“ A complicated interaction. Molecular Immunology, 2015, 68, 31-34.	2.2	2
125	Male X-chromosome mosaicism leading to carrier phenotype and inheritance of chronic granulomatous disease. Journal of Allergy and Clinical Immunology: in Practice, 2018, 6, 1775-1777.e1.	3.8	2
126	Retrotransposable genetic elements causing neutrophil defects. European Journal of Clinical Investigation, 2018, 48, e12953.	3.4	2

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127	Characterization of two novel mutations in IL-12R signaling in MSMD patients. Pathogens and Disease, 2019, 77, .	2.0	2
128	Resonance Raman Microspectroscopy and Imaging of Hemoproteins in Single Leukocytes. , 0, , 153-179.		1
129	Neutrophils: the Power Within. , 2014, , 45-70.		1
130	Recurrent skin abscesses in a female Xâ€linked chronic granulomatous disease carrier. Journal of Cosmetic Dermatology, 2020, 19, 1810-1812.	1.6	1
131	Somatic Triple Mosaicism in a Carrier of X-Linked Chronic Granulomatous Disease. Blood, 1998, 91, 252-257.	1.4	0