Dominik Hartl

List of Publications by Year
in descending order

95 papers	6,710 citations	71061 41 h-index	64755 79 g-index
96 all docs	96 docs citations	96 times ranked	10965 citing authors

#	Article	IF	Citations
1	Neutrophils: Between Host Defence, Immune Modulation, and Tissue Injury. PLoS Pathogens, 2015, 11, e1004651.	2.1	532
2	Role of breast regression protein 39 (BRP-39)/chitinase 3-like-1 in Th2 and IL-13â€“induced tissue responses and apoptosis. Journal of Experimental Medicine, 2009, 206, 1149-1166.	4.2	376
3	Inflammation in cystic fibrosis lung disease: Pathogenesis and therapy. Journal of Cystic Fibrosis, 2015, 14, 419-430.	0.3	371
4	Quantitative and functional impairment of pulmonary CD4+CD25hi regulatory T cells inÂpediatric asthma. Journal of Allergy and Clinical Immunology, 2007, 119, 1258-1266.	1.5	366
5	Chitin regulation of immune responses: an old molecule with new roles. Current Opinion in Immunology, 2008, 20, 684-689.	2.4	315
6	Cleavage of CXCR1 on neutrophils disables bacterial killing in cystic fibrosis lung disease. Nature Medicine, 2007, 13, 1423-1430.	15.2	291
7	Immune Mechanisms in Pulmonary Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2016, 55, 309-322.	1.4	245
8	CFTR: cystic fibrosis and beyond. European Respiratory Journal, 2014, 44, 1042-1054.	3.1	207
9	Infiltrated Neutrophils Acquire Novel Chemokine Receptor Expression and Chemokine Responsiveness in Chronic Inflammatory Lung Diseases. Journal of Immunology, 2008, 181, 8053-8067.	0.4	199
10	Ultrastructural characterization of cystic fibrosis sputum using atomic force and scanning electron microscopy. Journal of Cystic Fibrosis, 2012, 11, 84-92.	0.3	199
11	Pulmonary TH2 response in Pseudomonas aeruginosaâ€“infected patients with cystic fibrosis. Journal of Allergy and Clinical Immunology, 2006, 117, 204-211.	1.5	172
12	Neutrophil extracellular trap-associated RNA and LL37 enable self-amplifying inflammation in psoriasis. Nature Communications, 2020, 11, 105.	5.8	146
13	Extrapulmonary Aspergillus infection in patients with CARD9 deficiency. JCI Insight, 2016, 1, e89890.	2.3	141
14	Flagellin Induces Myeloid-Derived Suppressor Cells: Implications for <i>Pseudomonas aeruginosa</i> Infection in Cystic Fibrosis Lung Disease. Journal of Immunology, 2013, 190, 1276-1284.	0.4	118
15	In vivo genome editing using nuclease-encoding mRNA corrects SP-B deficiency. Nature Biotechnology, 2015, 33, 584-586.	9.4	113
16	Innate Immunity of the Lung: From Basic Mechanisms to Translational Medicine. Journal of Innate Immunity, 2018, 10, 487-501.	1.8	101
17	Free DNA in Cystic Fibrosis Airway Fluids Correlates with Airflow Obstruction. Mediators of Inflammation, 2015, 2015, 1-11.	1.4	100
18	Pathogenic Fungi Regulate Immunity by Inducing Neutrophilic Myeloid-Derived Suppressor Cells. Cell Host and Microbe, 2015, 17, 507-514.	5.1	99

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19	Myeloid-Derived Suppressor Cells in Bacterial Infections. Frontiers in Cellular and Infection Microbiology, 2016, 6, 37.	1.8	99
20	Granulocytic Myeloid-Derived Suppressor Cells Accumulate in Human Placenta and Polarize toward a Th2 Phenotype. Journal of Immunology, 2016, 196, 1132-1145.	0.4	88
21	TLR Expression on Neutrophils at the Pulmonary Site of Infection: TLR1/TLR2-Mediated Up-Regulation of TLR5 Expression in Cystic Fibrosis Lung Disease. Journal of Immunology, 2008, 181, 2753-2763.	0.4	86
22	Chemokines Indicate Allergic Bronchopulmonary Aspergillosis in Patients with Cystic Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2006, 173, 1370-1376.	2.5	83
23	Expression of checkpoint molecules on myeloid-derived suppressor cells. Immunology Letters, 2017, 192, 1-6.	1.1	82
24	Regulatory T-Cell Impairment in Cystic Fibrosis Patients with Chronic <i>Pseudomonas</i> Infection. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 914-923.	2.5	77
25	Airway Mucus Obstruction Triggers Macrophage Activation and Matrix Metalloproteinase 12â€"Dependent Emphysema. American Journal of Respiratory Cell and Molecular Biology, 2014, 51, 709-720.	1.4	76
26	Myeloid-Derived Suppressor Cells in Infection: A General Overview. Journal of Innate Immunity, 2018, 10, 407-413.	1.8	76
27	The fungal ligand chitin directly binds <scp>TLR</scp> 2 and triggers inflammation dependent on oligomer size. EMBO Reports, 2018, 19, .	2.0	75
28	Inhalation Treatment with Glutathione in Patients with Cystic Fibrosis. A Randomized Clinical Trial. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 83-89.	2.5	73
29	Pulmonary chemokines and their receptors differentiate children with asthma and chronic cough. Journal of Allergy and Clinical Immunology, 2005, 115, 728-736.	1.5	70
30	Role of Breast Regression Proteinâ€"39 in the Pathogenesis of Cigarette Smokeâ€"Induced Inflammation and Emphysema. American Journal of Respiratory Cell and Molecular Biology, 2011, 44, 777-786.	1.4	67
31	Neutrophils in cystic fibrosis. Biological Chemistry, 2016, 397, 485-496.	1.2	64
32	Microbial colonization and lung function in adolescents with cystic fibrosis. Journal of Cystic Fibrosis, 2016, 15, 340-349.	0.3	63
33	Myeloid-derived suppressor cells modulate B-cell responses. Immunology Letters, 2017, 188, 108-115.	1.1	59
34	Current concepts: host-pathogen interactions in cystic fibrosis airways disease. European Respiratory Review, 2014, 23, 320-332.	3.0	55
35	Peripheral blood myeloid-derived suppressor cells reflect disease status in idiopathic pulmonary fibrosis. European Respiratory Journal, 2016, 48, 1171-1183.	3.1	55
36	Novel biomarkers in asthma: chemokines and chitinase-like proteins. Current Opinion in Allergy and Clinical Immunology, 2009, 9, 60-66.	1.1	54

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37	The role of chitin, chitinases, and chitinase-like proteins in pediatric lung diseases. Molecular and Cellular Pediatrics, 2015, 2, 3.	1.0	52
38	Prospective multicenter German study on pulmonary colonization with Scedosporium /Lomentospora species in cystic fibrosis: Epidemiology and new association factors. PLoS ONE, 2017, 12, e0171485.	1.1	47
39	The emerging role of myeloid-derived suppressor cells in lung diseases. European Respiratory Journal, 2016, 47, 967-977.	3.1	46
40	A role for MCP-1/CCR2 in interstitial lung disease in children. Respiratory Research, 2005, 6, 93.	1.4	44
41	The Chitinase-Like Protein YKL-40 Modulates Cystic Fibrosis Lung Disease. PLoS ONE, 2011, 6, e24399.	1.1	44
42	Acidic Mammalian Chitinase Regulates Epithelial Cell Apoptosis via a Chitinolytic-Independent Mechanism. Journal of Immunology, 2009, 182, 5098-5106.	0.4	43
43	Progress in Definition, Prevention and Treatment of Fungal Infections in Cystic Fibrosis. Mycopathologia, 2018, 183, 21-32.	1.3	43
44	Pathogenesis, imaging and clinical characteristics of CF and non-CF bronchiectasis. BMC Pulmonary Medicine, 2018, 18, 79.	0.8	43
45	Differential neutrophil activation in viral infections: Enhanced <scp>TLR</scp>â€7/8â€mediated <scp>CXCL</scp>8 release in asthma. Respirology, 2016, 21, 172-179.	1.3	42
46	RNA and Imidazoquinolines Are Sensed by Distinct TLR7/8 Ectodomain Sites Resulting in Functionally Disparate Signaling Events. Journal of Immunology, 2014, 192, 5963-5973.	0.4	38
47	Acidic Mammalian Chitinase Is Secreted via an ADAM17/Epidermal Growth Factor Receptor-dependent Pathway and Stimulates Chemokine Production by Pulmonary Epithelial Cells. Journal of Biological Chemistry, 2008, 283, 33472-33482.	1.6	37
48	Chemokines in Allergic Aspergillosis - From Animal Models to Human Lung Diseases. Inflammation and Allergy: Drug Targets, 2006, 5, 219-228.	1.8	36
49	Mechanisms and disease relevance of neutrophil extracellular trap formation. European Journal of Clinical Investigation, 2018, 48, e12919.	1.7	36
50	Oxidative stress in cystic fibrosis lung disease: an early event, but worth targeting?. European Respiratory Journal, 2014, 44, 17-19.	3.1	35
51	Regulatory Immune Cells in Idiopathic Pulmonary Fibrosis: Friends or Foes?. Frontiers in Immunology, 2021, 12, 663203.	2.2	33
52	A functional inflammasome activation assay differentiates patients with pathogenic NLRP3 mutations and symptomatic patients with low penetrance variants. Clinical Immunology, 2015, 157, 56-64.	1.4	32
53	Visualization and quantification of <i>in vivo</i> homing kinetics of myeloid-derived suppressor cells in primary and metastatic cancer. Theranostics, 2019, 9, 5869-5885.	4.6	31
54	Immunological mechanisms behind the cystic fibrosis-ABPA link. Medical Mycology, 2009, 47, S183-S191.	0.3	28

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55	Chitinase activation in patients with fungus-associated cystic fibrosis lung disease. Journal of Allergy and Clinical Immunology, 2016, 138, 1183-1189.e4.	1.5	28
56	<i>CXCR1</i>and<i>CXCR2</i>haplotypes synergistically modulate cystic fibrosis lung disease. European Respiratory Journal, 2012, 39, 1385-1390.	3.1	27
57	Human monocytic myeloidâ€derived suppressor cells impair Bâ€cell phenotype and function in vitro. European Journal of Immunology, 2020, 50, 33-47.	1.6	26
58	Influenza A(H1N1)pdm09 and Cystic Fibrosis Lung Disease: A Systematic Meta-Analysis. PLoS ONE, 2014, 9, e78583.	1.1	25
59	Airway, but not serum or urinary, levels of YKL-40 reflect inflammation in early cystic fibrosis lung disease. BMC Pulmonary Medicine, 2014, 14, 28.	0.8	25
60	Differential Regulation of Myeloid-Derived Suppressor Cells by Candida Species. Frontiers in Microbiology, 2016, 7, 1624.	1.5	25
61	The Initial Inflammatory Response to Bioactive Implants Is Characterized by NETosis. PLoS ONE, 2015, 10, e0121359.	1.1	25
62	Janus-Faced Neutrophil Extracellular Traps in Periodontitis. Frontiers in Immunology, 2017, 8, 1404.	2.2	24
63	Surfactant proteins in pediatric interstitial lung disease. Pediatric Research, 2016, 79, 34-41.	1.1	23
64	Transcriptomic profile of cystic fibrosis patients identifies type I interferon response and ribosomal stalk proteins as potential modifiers of disease severity. PLoS ONE, 2017, 12, e0183526.	1.1	23
65	Pseudomonas aeruginosa Airway Infection Recruits and Modulates Neutrophilic Myeloid-Derived Suppressor Cells. Frontiers in Cellular and Infection Microbiology, 2016, 6, 167.	1.8	22
66	mRNA-Mediated Gene Supplementation of Toll-Like Receptors as Treatment Strategy for Asthma In Vivo. PLoS ONE, 2016, 11, e0154001.	1.1	20
67	Immune Response, Diagnosis and Treatment of Allergic Bronchopulmonary Aspergillosis in Cystic Fibrosis Lung Disease. Current Pharmaceutical Design, 2013, 19, 3669-3678.	0.9	20
68	In Vivo Hypoxia PET Imaging Quantifies the Severity of Arthritic Joint Inflammation in Line with Overexpression of Hypoxia-Inducible Factor and Enhanced Reactive Oxygen Species Generation. Journal of Nuclear Medicine, 2017, 58, 853-860.	2.8	19
69	Recurrent pericarditis in children: elevated cardiac autoantibodies. Clinical Research in Cardiology, 2007, 96, 168-175.	1.5	18
70	Characterization of rapid neutrophil extracellular trap formation and its cooperation with phagocytosis in human neutrophils. Discoveries, 2014, 2, e19.	1.5	18
71	Staphylococcal Enterotoxins Dose-Dependently Modulate the Generation of Myeloid-Derived Suppressor Cells. Frontiers in Cellular and Infection Microbiology, 2018, 8, 321.	1.8	17
72	The chemokine CCL18 characterises<i>Pseudomonas</i>infections in cystic fibrosis lung disease. European Respiratory Journal, 2014, 44, 1608-1615.	3.1	16

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73	Increased CCL17 serum levels are associated with improved survival in advanced melanoma. Cancer Immunology, Immunotherapy, 2015, 64, 1075-1082.	2.0	16
74	A semiquantitative MRI-Score can predict loss of lung function in patients with cystic fibrosis: Preliminary results. European Radiology, 2018, 28, 74-84.	2.3	16
75	Allergic bronchopulmonary aspergillosis: the hunt for a diagnostic serological marker in cystic fibrosis patients. Expert Review of Molecular Diagnostics, 2009, 9, 157-164.	1.5	14
76	Induction of Myeloid-Derived Suppressor Cells in Cryopyrin-Associated Periodic Syndromes. Journal of Innate Immunity, 2016, 8, 493-506.	1.8	14
77	Myeloid-Derived Suppressor Cells Dampen Airway Inflammation Through Prostaglandin E2 Receptor 4. Frontiers in Immunology, 2021, 12, 695933.	2.2	13
78	Expression and Regulation of Interferon-Related Development Regulatorâ€“1 in Cystic Fibrosis Neutrophils. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 71-77.	1.4	12
79	Update on host-pathogen interactions in cystic fibrosis lung disease. Molecular and Cellular Pediatrics, 2016, 3, 12.	1.0	12
80	Cystic fibrosis in Europe: patients live longer but are we ready?. European Respiratory Journal, 2015, 46, 11-12.	3.1	11
81	CXCR4⁺ granulocytes reflect fungal cystic fibrosis lung disease. European Respiratory Journal, 2015, 46, 395-404.	3.1	10
82	CHI3L1 polymorphisms, cord blood YKL-40 levels and later asthma development. BMC Pulmonary Medicine, 2016, 16, 81.	0.8	10
83	Suspicion of respiratory tract infection with multidrug-resistant Enterobacteriaceae: epidemiology and risk factors from a Paediatric Intensive Care Unit. BMC Infectious Diseases, 2017, 17, 163.	1.3	10
84	Anti-inflammatory role of CD11b+Ly6G+ neutrophilic cells in allergic airway inflammation in mice. Immunology Letters, 2018, 204, 67-74.	1.1	10
85	Fungi in Cystic Fibrosis: Recent Findings and Unresolved Questions. Current Fungal Infection Reports, 2015, 9, 1-5.	0.9	8
86	An informative intragenic microsatellite marker suggests the IL-1 receptor as a genetic modifier in cystic fibrosis. European Respiratory Journal, 2017, 50, 1700426.	3.1	8
87	Human T cells modulate myeloid-derived suppressor cells through a TNF-Î±-mediated mechanism. Immunology Letters, 2018, 202, 31-37.	1.1	8
88	Temporal Dynamics of Reactive Oxygen and Nitrogen Species and NF-ÎºB Activation During Acute and Chronic T Cellâ€“Driven Inflammation. Molecular Imaging and Biology, 2020, 22, 504-514.	1.3	8
89	Is osseointegration inflammation-triggered?. Medical Hypotheses, 2016, 93, 1-4.	0.8	7
90	Cystic fibrosis â€” From basic science to clinical benefit: A review series. Journal of Cystic Fibrosis, 2015, 14, 415-416.	0.3	5

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91	Enhanced IgG 1 â€mediated antibody response towards thymusâ€dependent immunization in CXCR1â€deficient mice. Immunity, Inflammation and Disease, 2021, 9, 210-222.	1.3	4
92	Arginase 1⁺ ILâ€10⁺ polymorphonuclear myeloidâ€derived suppressor cells are elevated in patients with active pemphigus and correlate with an increased Th2/Th1 response. Experimental Dermatology, 2021, 30, 782-791.	1.4	4
93	Developmental control of CFTR: from bioinformatics to novel therapeutic approaches. European Respiratory Journal, 2015, 45, 18-20.	3.1	3
94	Macrophages and platelets join forces to release kidney-damaging DNA traps. Nature Medicine, 2018, 24, 128-129.	15.2	2
95	JCF â€" 2014 and beyond. Journal of Cystic Fibrosis, 2014, 13, 610-611.	0.3	0