

David J Erle

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

12,382
citations

30070

54
h-index

27406

106
g-index

133
all docs

133
docs citations

133
times ranked

19419
citing authors

#	ARTICLE	IF	CITATIONS
1	Systemically dispersed innate IL-13 ^{hi} expressing cells in type 2 immunity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11489-11494.	7.1	990
2	Dissecting the Tumor Myeloid Compartment Reveals Rare Activating Antigen-Presenting Cells Critical for T Cell Immunity. Cancer Cell, 2014, 26, 638-652.	16.8	911
3	Direct effects of interleukin-13 on epithelial cells cause airway hyperreactivity and mucus overproduction in asthma. Nature Medicine, 2002, 8, 885-889.	30.7	856
4	Genome-wide profiling identifies epithelial cell genes associated with asthma and with treatment response to corticosteroids. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15858-15863.	7.1	743
5	Detection of Succinate by Intestinal Tuft Cells Triggers a Type 2 Innate Immune Circuit. Immunity, 2018, 49, 33-41.e7.	14.3	380
6	The protein disulfide isomerase AGR2 is essential for production of intestinal mucus. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6950-6955.	7.1	336
7	Tissue signals imprint ILC2 identity with anticipatory function. Nature Immunology, 2018, 19, 1093-1099.	14.5	329
8	Integrin β 2 Cytoplasmic Domains Differentially Bind to Cytoskeletal Proteins. Journal of Biological Chemistry, 1998, 273, 6104-6109.	3.4	258
9	IL-13 and Epidermal Growth Factor Receptor Have Critical but Distinct Roles in Epithelial Cell Mucin Production. American Journal of Respiratory Cell and Molecular Biology, 2007, 36, 244-253.	2.9	231
10	Airway Mucus and Asthma: The Role of MUC5AC and MUC5B. Journal of Clinical Medicine, 2017, 6, 112.	2.4	227
11	The cell biology of asthma. Journal of Cell Biology, 2014, 205, 621-631.	5.2	223
12	Airway Epithelial miRNA Expression Is Altered in Asthma. American Journal of Respiratory and Critical Care Medicine, 2012, 186, 965-974.	5.6	222
13	Squamous metaplasia amplifies pathologic epithelial-mesenchymal interactions in COPD patients. Journal of Clinical Investigation, 2007, 117, 3551-3562.	8.2	222
14	Thymic tuft cells promote an IL-4-enriched medulla and shape thymocyte development. Nature, 2018, 559, 627-631.	27.8	221
15	Dissecting asthma using focused transgenic modeling and functional genomics. Journal of Allergy and Clinical Immunology, 2005, 116, 305-311.	2.9	215
16	The Th2 Lymphocyte Products IL-4 and IL-13 Rapidly Induce Airway Hyperresponsiveness Through Direct Effects on Resident Airway Cells. American Journal of Respiratory Cell and Molecular Biology, 2002, 26, 202-208.	2.9	209
17	Global absence and targeting of protective immune states in severe COVID-19. Nature, 2021, 591, 124-130.	27.8	206
18	A Distinctive Alveolar Macrophage Activation State Induced by Cigarette Smoking. American Journal of Respiratory and Critical Care Medicine, 2005, 172, 1383-1392.	5.6	194

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19	A tissue checkpoint regulates type 2 immunity. <i>Nature Immunology</i> , 2016, 17, 1381-1387.	14.5	184
20	T cell activation induces proteasomal degradation of Argonaute and rapid remodeling of the microRNA repertoire. <i>Journal of Experimental Medicine</i> , 2013, 210, 417-432.	8.5	180
21	Androgen Signaling Regulates SARS-CoV-2 Receptor Levels and Is Associated with Severe COVID-19 Symptoms in Men. <i>Cell Stem Cell</i> , 2020, 27, 876-889.e12.	11.1	167
22	Large Differences in Small RNA Composition Between Human Biofluids. <i>Cell Reports</i> , 2018, 25, 1346-1358.	6.4	163
23	Interleukin-13 Induces Dramatically Different Transcriptional Programs in Three Human Airway Cell Types. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001, 25, 474-485.	2.9	161
24	Epithelial tethering of MUC5AC-rich mucus impairs mucociliary transport in asthma. <i>Journal of Clinical Investigation</i> , 2016, 126, 2367-2371.	8.2	156
25	Type I interferon autoantibodies are associated with systemic immune alterations in patients with COVID-19. <i>Science Translational Medicine</i> , 2021, 13, eabh2624.	12.4	155
26	Spotted Long Oligonucleotide Arrays for Human Gene Expression Analysis. <i>Genome Research</i> , 2003, 13, 1775-1785.	5.5	153
27	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. <i>Cell</i> , 2019, 177, 231-242.	28.9	152
28	Epithelial Interleukin-25 Is a Key Mediator in Th2-High, Corticosteroid-Responsive Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 190, 639-648.	5.6	149
29	Increased expression of neutrophil-related genes in patients with early sepsis-induced ARDS. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L1102-L1113.	2.9	137
30	Comprehensive multi-center assessment of small RNA-seq methods for quantitative miRNA profiling. <i>Nature Biotechnology</i> , 2018, 36, 746-757.	17.5	134
31	MicroRNAs 24 and 27 Suppress Allergic Inflammation and Target a Network of Regulators of T Helper 2 Cell-Associated Cytokine Production. <i>Immunity</i> , 2016, 44, 821-832.	14.3	119
32	CD11b+ Myeloid Cells Are the Key Mediators of Th2 Cell Homing into the Airway in Allergic Inflammation. <i>Journal of Immunology</i> , 2009, 182, 623-635.	0.8	116
33	miR-34 miRNAs Regulate Cellular Senescence in Type II Alveolar Epithelial Cells of Patients with Idiopathic Pulmonary Fibrosis. <i>PLoS ONE</i> , 2016, 11, e0158367.	2.5	106
34	The Epithelial Anion Transporter Pendrin Is Induced by Allergy and Rhinovirus Infection, Regulates Airway Surface Liquid, and Increases Airway Reactivity and Inflammation in an Asthma Model. <i>Journal of Immunology</i> , 2008, 181, 2203-2210.	0.8	102
35	AGR2 Is Induced in Asthma and Promotes Allergen-Induced Mucin Overproduction. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 47, 178-185.	2.9	102
36	The mammalian target of rapamycin regulates cholesterol biosynthetic gene expression and exhibits a rapamycin-resistant transcriptional profile. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15201-15206.	7.1	100

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37	Disease-Specific Gene Expression Profiling in Multiple Models of Lung Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 177, 376-387.	5.6	96
38	Massively parallel functional annotation of 3â€² untranslated regions. <i>Nature Biotechnology</i> , 2014, 32, 387-391.	17.5	93
39	IL-4 Receptor Signaling in Clara Cells Is Required for Allergen-Induced Mucus Production. <i>Journal of Immunology</i> , 2005, 175, 3746-3752.	0.8	89
40	Spontaneous Chitin Accumulation in Airways and Age-Related Fibrotic Lung Disease. <i>Cell</i> , 2017, 169, 497-509.e13.	28.9	87
41	IFN-stimulated Gene Expression, Type 2 Inflammation, and Endoplasmic Reticulum Stress in Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 313-324.	5.6	87
42	Molecular basis of selective atrial fibrosis due to overexpression of transforming growth factor-Î²1. <i>Cardiovascular Research</i> , 2013, 99, 769-779.	3.8	86
43	Presentation of Integrins on Leukocyte Microvilli: A Role for the Extracellular Domain in Determining Membrane Localization. <i>Journal of Cell Biology</i> , 1997, 139, 563-571.	5.2	85
44	Selective Targeting of TGF-Î²2 Activation to Treat Fibroinflammatory Airway Disease. <i>Science Translational Medicine</i> , 2014, 6, 241ra79.	12.4	79
45	The transcriptional regulator Aire coopts the repressive ATF7ip-MBD1 complex for the induction of immunotolerance. <i>Nature Immunology</i> , 2014, 15, 258-265.	14.5	78
46	An airway epithelial IL-17A response signature identifies a steroid-unresponsive COPD patient subgroup. <i>Journal of Clinical Investigation</i> , 2018, 129, 169-181.	8.2	77
47	Age-dependent hepatic lymphoid organization directs successful immunity to hepatitis B. <i>Journal of Clinical Investigation</i> , 2013, 123, 3728-3739.	8.2	75
48	Metabolomics analysis identifies sex-associated metabotypes of oxidative stress and the autotaxin-lysoPA axis in COPD. <i>European Respiratory Journal</i> , 2017, 49, 1602322.	6.7	74
49	Asthmatics with exacerbation during acute respiratory illness exhibit unique transcriptional signatures within the nasal mucosa. <i>Genome Medicine</i> , 2014, 6, 1.	8.2	73
50	Distinct Roles of FOXA2 and FOXA3 in Allergic Airway Disease and Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 180, 603-610.	5.6	70
51	Discovering dominant tumor immune archetypes in a pan-cancer census. <i>Cell</i> , 2022, 185, 184-203.e19.	28.9	70
52	Comparison of Reproducibility, Accuracy, Sensitivity, and Specificity of miRNA Quantification Platforms. <i>Cell Reports</i> , 2019, 29, 4212-4222.e5.	6.4	64
53	Influenza Virus Infection Causes Global Respiratory Tract B Cell Response Modulation via Innate Immune Signals. <i>Journal of Immunology</i> , 2007, 178, 1457-1467.	0.8	61
54	Linoleic acid-derived lipid mediators increase in a female-dominated subphenotype of COPD. <i>European Respiratory Journal</i> , 2016, 47, 1645-1656.	6.7	61

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55	Thymic OX40 Expression Discriminates Cells Undergoing Strong Responses to Selection Ligands. <i>Journal of Immunology</i> , 2009, 182, 4581-4589.	0.8	60
56	The $\alpha 2 \beta 6$ integrin modulates airway hyperresponsiveness in mice by regulating intraepithelial mast cells. <i>Journal of Clinical Investigation</i> , 2012, 122, 748-758.	8.2	55
57	Impact of the TCR Signal on Regulatory T Cell Homeostasis, Function, and Trafficking. <i>PLoS ONE</i> , 2009, 4, e6580.	2.5	52
58	Increased risk of severe clinical course of COVID-19 in carriers of HLA-C*04:01. <i>EClinicalMedicine</i> , 2021, 40, 101099.	7.1	52
59	Tracheal aspirate RNA sequencing identifies distinct immunological features of COVID-19 ARDS. <i>Nature Communications</i> , 2021, 12, 5152.	12.8	47
60	Intelectin is required for IL-13-induced monocyte chemotactic protein-1 and -3 expression in lung epithelial cells and promotes allergic airway inflammation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010, 298, L290-L296.	2.9	41
61	An Engineered Cardiac Reporter Cell Line Identifies Human Embryonic Stem Cell-Derived Myocardial Precursors. <i>PLoS ONE</i> , 2011, 6, e16004.	2.5	39
62	CRISPR-Cas9-mediated functional dissection of 3' UTRs. <i>Nucleic Acids Research</i> , 2017, 45, 10800-10810.	14.5	39
63	Novel Integrin $\alpha 2 \beta 6$ Subunit cDNAs Identified in Airway Epithelial Cells and Lung Leukocytes Using the Polymerase Chain Reaction. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1991, 5, 170-177.	2.9	36
64	Increased DNA microarray hybridization specificity using sscDNA targets. <i>BMC Genomics</i> , 2005, 6, 57.	2.8	36
65	Flow-Cytometric Analysis and Purification of Airway Epithelial-Cell Subsets. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021, 64, 308-317.	2.9	36
66	[20] Polymerase chain reaction cloning with degenerate primers: Homology-based identification of adhesion molecules. <i>Methods in Enzymology</i> , 1994, 245, 420-451.	1.0	35
67	Integrin $\alpha 2 \beta 6$ Mediates Phospholipid and Collectin Homeostasis by Activation of Latent TGF- $\beta 1$. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2007, 37, 651-659.	2.9	35
68	Vaccine breakthrough hypoxemic COVID-19 pneumonia in patients with auto-Abs neutralizing type I IFNs. <i>Science Immunology</i> , 2023, 8, .	11.9	35
69	<i>Aspergillus</i> antigen induces robust Th2 cytokine production, inflammation, airway hyperreactivity and fibrosis in the absence of MCP-1 or CCR2. <i>Respiratory Research</i> , 2004, 5, 12.	3.6	34
70	Tonic LAT-HDAC7 Signals Sustain Nur77 and Irf4 Expression to Tune Naive CD4 ⁺ T Cells. <i>Cell Reports</i> , 2017, 19, 1558-1571.	6.4	34
71	A massively parallel 3' UTR reporter assay reveals relationships between nucleotide content, sequence conservation, and mRNA destabilization. <i>Genome Research</i> , 2019, 29, 896-906.	5.5	34
72	The Type 2 Asthma Mediator IL-13 Inhibits Severe Acute Respiratory Syndrome Coronavirus 2 Infection of Bronchial Epithelium. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 66, 391-401.	2.9	34

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73	The airway epithelium in asthma. <i>Advances in Immunology</i> , 2019, 142, 1-34.	2.2	33
74	Integrative approach identifies corticosteroid response variant in diverse populations with asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 1791-1802.	2.9	33
75	An integrated nano-scale approach to profile miRNAs in limited clinical samples. <i>American Journal of Clinical and Experimental Immunology</i> , 2012, 1, 70-89.	0.2	33
76	Chitin-Induced Airway Epithelial Cell Innate Immune Responses Are Inhibited by Carvacrol/Thymol. <i>PLoS ONE</i> , 2016, 11, e0159459.	2.5	32
77	Efficient RNP-directed Human Gene Targeting Reveals SPDEF Is Required for IL-13-induced Mucostasis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 373-381.	2.9	30
78	COVID-19-associated Lung Microvascular Endotheliopathy: A From the Bench Perspective. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 206, 961-972.	5.6	30
79	Expression of IL-4 receptor β on smooth muscle cells is not necessary for development of experimental allergic asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2010, 126, 347-354.	2.9	29
80	Epithelial miR-141 regulates IL-13-induced airway mucus production. <i>JCI Insight</i> , 2021, 6, .	5.0	29
81	Differential gene expression by integrin beta 7+ and beta 7- memory T helper cells. <i>BMC Immunology</i> , 2004, 5, 13.	2.2	26
82	CD40 Mediates Maturation of Thymic Dendritic Cells Driven by Self-Reactive CD4+ Thymocytes and Supports Development of Natural Regulatory T Cells. <i>Journal of Immunology</i> , 2018, 200, 1399-1412.	0.8	22
83	Toward a Systematic Understanding of mRNA 3' Untranslated Regions. <i>Proceedings of the American Thoracic Society</i> , 2011, 8, 163-166.	3.5	21
84	Preferential production of interferon-gamma by CD4+ T cells expressing the homing receptor integrin alpha4/beta7. <i>Immunology</i> , 2001, 103, 155-163.	4.4	20
85	Network analysis identifies a putative role for the PPAR and type 1 interferon pathways in glucocorticoid actions in asthmatics. <i>BMC Medical Genomics</i> , 2012, 5, 27.	1.5	19
86	Intraepithelial Lymphocytes in the Lung. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2000, 22, 398-400.	2.9	18
87	The Endoplasmic Reticulum Resident Protein AGR3. Required for Regulation of Ciliary Beat Frequency in the Airway. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 53, 536-543.	2.9	18
88	Intraepithelial Lymphocytes: Scratching the surface. <i>Current Biology</i> , 1995, 5, 252-254.	3.9	17
89	Abnormal Alveolar Development Associated with Elevated Adenine Nucleosides. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2004, 30, 38-50.	2.9	17
90	Massively parallel analysis of human 3' UTRs reveals that AU-rich element length and registration predict mRNA destabilization. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	1.8	17

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91	Mapping the 17q12-21.1 Locus for Variants Associated with Early-Onset Asthma in African Americans. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 424-436.	5.6	16
92	Asthma and its relationship to mitochondrial copy number: Results from the Asthma Translational Genomics Collaborative (ATGC) of the Trans-Omics for Precision Medicine (TOPMed) program. <i>PLoS ONE</i> , 2020, 15, e0242364.	2.5	16
93	IL-17 and α TH2-high asthma: Adding fuel to the fire?. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 134, 1187-1188.	2.9	14
94	How Do Integrins Integrate? The Role of Cell Adhesion Receptors in Differentiation and Development. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1992, 6, 459-460.	2.9	13
95	Identification of MiR-205 As a MicroRNA That Is Highly Expressed in Medullary Thymic Epithelial Cells. <i>PLoS ONE</i> , 2015, 10, e0135440.	2.5	13
96	Hands-on Workshops as An Effective Means of Learning Advanced Technologies Including Genomics, Proteomics and Bioinformatics. <i>Genomics, Proteomics and Bioinformatics</i> , 2013, 11, 368-377.	6.9	12
97	Whole-Genome Sequencing Identifies Novel Functional Loci Associated with Lung Function in Puerto Rican Youth. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 202, 962-972.	5.6	11
98	Singling out Th2 cells in eosinophilic esophagitis. <i>Journal of Clinical Investigation</i> , 2019, 129, 1830-1832.	8.2	10
99	The Asthma Channel?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006, 173, 1181-1182.	5.6	9
100	Mass cytometry reveals a conserved immune trajectory of recovery in hospitalized COVID-19 patients. <i>Immunity</i> , 2022, , .	14.3	9
101	The epigenetic regulator ATF7ip inhibits <i>IL2</i> expression, regulating Th17 responses. <i>Journal of Experimental Medicine</i> , 2019, 216, 2024-2037.	8.5	7
102	Asthma investigators begin to reap the fruits of genomics. <i>Genome Biology</i> , 2003, 4, 232.	9.6	6
103	Widespread Effects of Chemokine 3' Untranslated Regions on mRNA Degradation and Protein Production in Human Cells. <i>Journal of Immunology</i> , 2018, 201, 1053-1061.	0.8	5
104	Activated α 4 Integrins are Preferentially Expressed on Immature Thymocytes and Activated T Cells. <i>Autoimmunity</i> , 2002, 9, 73-84.	0.6	4
105	Steps toward Cell Therapy for Cystic Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 275-276.	2.9	3
106	Putting Mucins on the Map. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 681-682.	5.6	2
107	T cell activation induces proteasomal degradation of Argonaute and rapid remodeling of the microRNA repertoire. <i>Journal of Cell Biology</i> , 2013, 200, i9-i9.	5.2	0
108	Massively Parallel Identification of Regulatory Variants in Asthma. <i>Annals of the American Thoracic Society</i> , 2016, 13 Suppl 1, S104.	3.2	0