Erika L Pearce

List of Publications by Year
in descending order

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88 papers	26,306 citations	31976 53 h-index	49909 87 g-index
93 all docs	93 docs citations	93 times ranked	30471 citing authors

#	Article	IF	Citations
1	Metabolic Competition in the Tumor Microenvironment Is a Driver of Cancer Progression. Cell, 2015, 162, 1229-1241.	28.9	2,158
2	Posttranscriptional Control of T Cell Effector Function by Aerobic Glycolysis. Cell, 2013, 153, 1239-1251.	28.9	1,715
3	Checkpoint blockade cancer immunotherapy targets tumour-specific mutant antigens. Nature, 2014, 515, 577-581.	27.8	1,705
4	Enhancing CD8 T-cell memory by modulating fatty acid metabolism. Nature, 2009, 460, 103-107.	27.8	1,316
5	Metabolic Pathways in Immune Cell Activation and Quiescence. Immunity, 2013, 38, 633-643.	14.3	1,271
6	Mitochondrial Respiratory Capacity Is a Critical Regulator of CD8+ T Cell Memory Development. Immunity, 2012, 36, 68-78.	14.3	1,208
7	Fueling Immunity: Insights into Metabolism and Lymphocyte Function. Science, 2013, 342, 1242454.	12.6	1,070
8	Mitochondrial Dynamics Controls T Cell Fate through Metabolic Programming. Cell, 2016, 166, 63-76.	28.9	1,025
9	T cell metabolism drives immunity. Journal of Experimental Medicine, 2015, 212, 1345-1360.	8.5	937
10	Control of Effector CD8+ T Cell Function by the Transcription Factor Eomesodermin. Science, 2003, 302, 1041-1043.	12.6	896
11	Metabolic Instruction of Immunity. Cell, 2017, 169, 570-586.	28.9	871
12	TLR-driven early glycolytic reprogramming via the kinases TBK1-IKKÉ› supports the anabolic demands of dendritic cell activation. Nature Immunology, 2014, 15, 323-332.	14.5	861
13	Cell-intrinsic lysosomal lipolysis is essential for alternative activation of macrophages. Nature Immunology, 2014, 15, 846-855.	14.5	856
14	Memory CD8+ T Cells Use Cell-Intrinsic Lipolysis to Support the Metabolic Programming Necessary for Development. Immunity, 2014, 41, 75-88.	14.3	650
15	Unraveling the Complex Interplay Between T Cell Metabolism and Function. Annual Review of Immunology, 2018, 36, 461-488.	21.8	537
16	The Energy Sensor AMPK Regulates T Cell Metabolic Adaptation and Effector Responses InÂVivo. Immunity, 2015, 42, 41-54.	14.3	505
17	The Colonic Crypt Protects Stem Cells from Microbiota-Derived Metabolites. Cell, 2016, 165, 1708-1720.	28.9	484
18	Commitment to glycolysis sustains survival of NO-producing inflammatory dendritic cells. Blood, 2012, 120, 1422-1431.	1.4	476

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19	Metabolic Reprogramming Mediated by the mTORC2-IRF4 Signaling Axis Is Essential for Macrophage Alternative Activation. Immunity, 2016, 45, 817-830.	14.3	453
20	Metabolic switching and fuel choice during Tâ€cell differentiation and memory development. Immunological Reviews, 2012, 249, 27-42.	6.0	429
21	CD8 memory T cells have a bioenergetic advantage that underlies their rapid recall ability. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14336-14341.	7.1	428
22	Autophagy is essential for effector CD8+ T cell survival and memory formation. Nature Immunology, 2014, 15, 1152-1161.	14.5	367
23	Emerging concepts of T cell metabolism as a target of immunotherapy. Nature Immunology, 2016, 17, 364-368.	14.5	289
24	Amino Assets: How Amino Acids Support Immunity. Cell Metabolism, 2020, 32, 154-175.	16.2	256
25	Type 1 Interferons Induce Changes in Core Metabolism that Are Critical for Immune Function. Immunity, 2016, 44, 1325-1336.	14.3	248
26	Mitochondrial Dynamics at the Interface of Immune Cell Metabolism and Function. Trends in Immunology, 2018, 39, 6-18.	6.8	248
27	Metabolism in T cell activation and differentiation. Current Opinion in Immunology, 2010, 22, 314-320.	5.5	244
28	Polyamines and eIF5A Hypusination Modulate Mitochondrial Respiration and Macrophage Activation. Cell Metabolism, 2019, 30, 352-363.e8.	16.2	223
29	Sorafenib promotes graft-versus-leukemia activity in mice and humans through IL-15 production in FLT3-ITD-mutant leukemia cells. Nature Medicine, 2018, 24, 282-291.	30.7	216
30	Arginase 1 is an innate lymphoid-cell-intrinsic metabolic checkpoint controlling type 2 inflammation. Nature Immunology, 2016, 17, 656-665.	14.5	215
31	Mitochondrial Integrity Regulated by Lipid Metabolism Is a Cell-Intrinsic Checkpoint for Treg Suppressive Function. Cell Metabolism, 2020, 31, 422-437.e5.	16.2	215
32	Mitochondrial Pyruvate Import Promotes Long-Term Survival of Antibody-Secreting Plasma Cells. Immunity, 2016, 45, 60-73.	14.3	212
33	Mitochondrial Priming by CD28. Cell, 2017, 171, 385-397.e11.	28.9	212
34	Acetate Promotes T Cell Effector Function during Glucose Restriction. Cell Reports, 2019, 27, 2063-2074.e5.	6.4	205
35	Targeting T cell metabolism for therapy. Trends in Immunology, 2015, 36, 71-80.	6.8	204
36	Metabolic modeling of single Th17 cells reveals regulators of autoimmunity. Cell, 2021, 184, 4168-4185.e21.	28.9	203

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37	Generation of CD8 T Cell Memory Is Regulated by IL-12. Journal of Immunology, 2007, 179, 2074-2081.	0.8	192
38	Metabolic interventions in the immune response to cancer. Nature Reviews Immunology, 2019, 19, 324-335.	22.7	190
39	Inflammatory macrophage dependence on NAD+ salvage is a consequence of reactive oxygen speciesâ€"mediated DNA damage. Nature Immunology, 2019, 20, 420-432.	14.5	169
40	Oncogenic JAK2 ^{V617F} causes PD-L1 expression, mediating immune escape in myeloproliferative neoplasms. Science Translational Medicine, 2018, 10, .	12.4	166
41	Pharmacological Activation of Pyruvate Kinase M2 Inhibits CD4+ T Cell Pathogenicity and Suppresses Autoimmunity. Cell Metabolism, 2020, 31, 391-405.e8.	16.2	164
42	Inhibition of Mechanistic Target of Rapamycin Promotes Dendritic Cell Activation and Enhances Therapeutic Autologous Vaccination in Mice. Journal of Immunology, 2012, 189, 2151-2158.	0.8	159
43	Triacylglycerol synthesis enhances macrophage inflammatory function. Nature Communications, 2020, 11, 4107.	12.8	127
44	Measuring Bioenergetics in T Cells Using a Seahorse Extracellular Flux Analyzer. Current Protocols in Immunology, 2016, 113, 3.16B.1-3.16B.14.	3.6	123
45	Polyamine metabolism is a central determinant of helper TÂcell lineage fidelity. Cell, 2021, 184, 4186-4202.e20.	28.9	121
46	Mechanistic Target of Rapamycin Inhibition Extends Cellular Lifespan in Dendritic Cells by Preserving Mitochondrial Function. Journal of Immunology, 2014, 193, 2821-2830.	0.8	116
47	Ancillary Activity: Beyond Core Metabolism in Immune Cells. Cell Metabolism, 2017, 26, 131-141.	16.2	95
48	c-Myc-induced transcription factor AP4 is required for host protection mediated by CD8+ T cells. Nature Immunology, 2014, 15, 884-893.	14.5	85
49	Metabolic conditioning of CD8+ effector T cells for adoptive cell therapy. Nature Metabolism, 2020, 2, 703-716.	11.9	83
50	Mitochondrial Membrane Potential Regulates Nuclear Gene Expression in Macrophages Exposed to Prostaglandin E2. Immunity, 2018, 49, 1021-1033.e6.	14.3	75
51	Driving immunity: all roads lead to metabolism. Nature Reviews Immunology, 2018, 18, 81-82.	22.7	71
52	Metabolic reprogramming of donor T cells enhances graft-versus-leukemia effects in mice and humans. Science Translational Medicine, 2020, 12, .	12.4	70
53	Targeting memory T cell metabolism to improve immunity. Journal of Clinical Investigation, 2022, 132, .	8.2	61
54	A common framework of monocyte-derived macrophage activation. Science Immunology, 2022, 7, eabl7482.	11.9	58

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55	TRAF6 inhibits Th17 differentiation and TGF-Î²â€"mediated suppression of IL-2. Blood, 2010, 115, 4750-4757.	1.4	56
56	Making sense of inflammation, epigenetics, and memory CD8 + Tâ€cell differentiation in the context of infection. Immunological Reviews, 2006, 211, 197-202.	6.0	50
57	Th1 and Th2 Cells Help CD8 T-Cell Responses. Infection and Immunity, 2007, 75, 2291-2296.	2.2	49
58	Fatty Acid Oxidation Is Essential for Egg Production by the Parasitic Flatworm Schistosoma mansoni. PLoS Pathogens, 2012, 8, e1002996.	4.7	46
59	Functional Characterization of MHC Class II-Restricted CD8+CD4â^' and CD8â^'CD4â^' T Cell Responses to Infection in CD4â^'/â^' Mice. Journal of Immunology, 2004, 173, 2494-2499.	0.8	45
60	IL-33 expression in response to SARS-CoV-2 correlates with seropositivity in COVID-19 convalescent individuals. Nature Communications, 2021, 12, 2133.	12.8	44
61	Cutting Edge: Requirement for TRAF6 in the Induction of T Cell Anergy. Journal of Immunology, 2008, 180, 34-38.	0.8	40
62	Dynamic Cardiolipin Synthesis Is Required for CD8+ T Cell Immunity. Cell Metabolism, 2020, 32, 981-995.e7.	16.2	32
63	Fever supports CD8 ⁺ effector T cell responses by promoting mitochondrial translation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	28
64	The importance of methionine metabolism. ELife, 2019, 8, .	6.0	28
65	Plasmacytoid dendritic cell activation is dependent on coordinated expression of distinct amino acid transporters. Immunity, 2021, 54, 2514-2530.e7.	14.3	28
66	Bile acids regulate intestinal antigen presentation and reduce graft-versus-host disease without impairing the graft-versus-leukemia effect. Haematologica, 2021, 106, 2131-2146.	3.5	26
67	Sulfur sequestration promotes multicellularity during nutrient limitation. Nature, 2021, 591, 471-476.	27.8	24
68	Caught in the cROSsfire: GSH Controls T Cell Metabolic Reprogramming. Immunity, 2017, 46, 525-527.	14.3	23
69	IL-18 Synergizes with IL-7 To Drive Slow Proliferation of Naive CD8 T Cells by Costimulating Self-Peptideâ€"Mediated TCR Signals. Journal of Immunology, 2014, 193, 3992-4001.	0.8	21
70	Expanding the role of metabolism in T cells. Science, 2015, 348, 976-977.	12.6	21
71	Intracellular infection and immune system cues rewire adipocytes to acquire immune function. Cell Metabolism, 2022, 34, 747-760.e6.	16.2	21
72	Potassium shapes antitumor immunity. Science, 2019, 363, 1395-1396.	12.6	19

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73	Deletion of the mitochondria-shaping protein Opa1 during early thymocyte maturation impacts mature memory T cell metabolism. Cell Death and Differentiation, 2021, 28, 2194-2206.	11.2	18
74	Metabolic Dynamics of In Vitro CD8+ T Cell Activation. Metabolites, 2021, 11, 12.	2.9	18
75	EBF1 and Pax5 safeguard leukemic transformation by limiting IL-7 signaling, Myc expression, and folate metabolism. Genes and Development, 2020, 34, 1503-1519.	5.9	15
76	Host dysbiosis negatively impacts IL-9-producing T-cell differentiation and antitumour immunity. British Journal of Cancer, 2020, 123, 534-541.	6.4	14
77	Tonic TCR Signaling Inversely Regulates the Basal Metabolism of CD4+ T Cells. ImmunoHorizons, 2020, 4, 485-497.	1.8	14
78	Fatty acid synthesis tips the TH17-Treg cell balance. Nature Medicine, 2014, 20, 1235-1236.	30.7	13
79	Metabolism as a driver of immunity. Nature Reviews Immunology, 2021, 21, 618-619.	22.7	12
80	Glucose makes Treg lose their temper. Cancer Cell, 2021, 39, 460-462.	16.8	8
81	Helper T Cell Differentiation and the Problem of Cellular Inheritance. Immunologic Research, 2003, 27, 463-468.	2.9	4
82	A Sweet Deal for Diabetes. Trends in Endocrinology and Metabolism, 2018, 29, 1-2.	7.1	4
83	Appetite for Arginine: Metabolic Control of Macrophage Hunger. Cell Metabolism, 2020, 31, 441-442.	16.2	4
84	T cell metabolism drives immunity. Journal of Cell Biology, 2015, 210, 2104OIA169.	5.2	4
85	When Hexokinase Gets that NAG-ing Feelingâ€¦. Cell Metabolism, 2016, 24, 198-200.	16.2	3
86	Tofacitinib suppresses IL-10/IL-10R signaling and modulates host defense responses in human macrophages. Journal of Investigative Dermatology, 2021, , .	0.7	3
87	How to make a better TÂcell: inÂvivo CRISPR screens have some answers. Cell, 2021, 184, 1135-1136.	28.9	0
88	Research Techniques Made Simple: Profiling Cellular Energy Metabolism. Journal of Investigative Dermatology, 2021, 141, 2767-2774.e2.	0.7	0