

# Edward B Thorp

## List of Publications by Year in descending order

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98  
papers

5,520  
citations

94433  
37  
h-index

88630  
70  
g-index

99  
all docs

99  
docs citations

99  
times ranked

7761  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced Apoptosis and Plaque Necrosis in Advanced Atherosclerotic Lesions of Apoe <sup>-/-</sup> and Ldlr <sup>-/-</sup> Mice Lacking CHOP. <i>Cell Metabolism</i> , 2009, 9, 474-481.	16.2	303
2	Mertk Receptor Mutation Reduces Efferocytosis Efficiency and Promotes Apoptotic Cell Accumulation and Plaque Necrosis in Atherosclerotic Lesions of Apoe <sup>-/-</sup> Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 1421-1428.	2.4	300
3	Therapeutic Inflammatory Monocyte Modulation Using Immune-Modifying Microparticles. <i>Science Translational Medicine</i> , 2014, 6, 219ra7.	12.4	284
4	Enhanced Efferocytosis of Apoptotic Cardiomyocytes Through Myeloid-Epithelial-Reproductive Tyrosine Kinase Links Acute Inflammation Resolution to Cardiac Repair After Infarction. <i>Circulation Research</i> , 2013, 113, 1004-1012.	4.5	268
5	Efferocytosis Fuels Requirements of Fatty Acid Oxidation and the Electron Transport Chain to Polarize Macrophages for Tissue Repair. <i>Cell Metabolism</i> , 2019, 29, 443-456.e5.	16.2	233
6	Shedding of the Mer Tyrosine Kinase Receptor Is Mediated by ADAM17 Protein through a Pathway Involving Reactive Oxygen Species, Protein Kinase C $\delta$ , and p38 Mitogen-activated Protein Kinase (MAPK). <i>Journal of Biological Chemistry</i> , 2011, 286, 33335-33344.	3.4	228
7	Mechanisms and consequences of efferocytosis in advanced atherosclerosis. <i>Journal of Leukocyte Biology</i> , 2009, 86, 1089-1095.	3.3	177
8	Toll-like receptor-mediated IRE1 $\alpha$ activation as a therapeutic target for inflammatory arthritis. <i>EMBO Journal</i> , 2013, 32, 2477-2490.	7.8	175
9	MerTK cleavage limits proresolving mediator biosynthesis and exacerbates tissue inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6526-6531.	7.1	167
10	ABCA1 and ABCG1 Protect Against Oxidative Stress-Induced Macrophage Apoptosis During Efferocytosis. <i>Circulation Research</i> , 2010, 106, 1861-1869.	4.5	160
11	MerTK receptor cleavage promotes plaque necrosis and defective resolution in atherosclerosis. <i>Journal of Clinical Investigation</i> , 2017, 127, 564-568.	8.2	158
12	MerTK Cleavage on Resident Cardiac Macrophages Compromises Repair After Myocardial Ischemia Reperfusion Injury. <i>Circulation Research</i> , 2017, 121, 930-940.	4.5	144
13	Treg-mediated suppression of atherosclerosis requires MYD88 signaling in DCs. <i>Journal of Clinical Investigation</i> , 2013, 123, 179-188.	8.2	134
14	Defective Phagocytosis of Apoptotic Cells by Macrophages in Atherosclerotic Lesions of ob/ob Mice and Reversal by a Fish Oil Diet. <i>Circulation Research</i> , 2009, 105, 1072-1082.	4.5	128
15	Cytomegalovirus Latency and Reactivation: An Intricate Interplay With the Host Immune Response. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 130.	3.9	121
16	Lymphoangiocrine signals promote cardiac growth and repair. <i>Nature</i> , 2020, 588, 705-711.	27.8	103
17	Requirements for CEACAMs and Cholesterol during Murine Coronavirus Cell Entry. <i>Journal of Virology</i> , 2004, 78, 2682-2692.	3.4	99
18	Disruption of Glut1 in Hematopoietic Stem Cells Prevents Myelopoiesis and Enhanced Glucose Flux in Atheromatous Plaques of ApoE <sup>-/-</sup> Mice. <i>Circulation Research</i> , 2016, 118, 1062-1077.	4.5	93

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19	An AXL/LRP-1/RANBP9 complex mediates DC efferocytosis and antigen cross-presentation in vivo. <i>Journal of Clinical Investigation</i> , 2014, 124, 1296-1308.	8.2	91
20	Lysosomal Cholesterol Hydrolysis Couples Efferocytosis to Anti-Inflammatory Oxysterol Production. <i>Circulation Research</i> , 2018, 122, 1369-1384.	4.5	88
21	Brief Report: Increased Apoptosis in Advanced Atherosclerotic Lesions of <i>Apoe</i> <sup>+/+</sup> Mice Lacking Macrophage Bcl-2. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 169-172.	2.4	86
22	The role of macrophages and dendritic cells in the clearance of apoptotic cells in advanced atherosclerosis. <i>European Journal of Immunology</i> , 2011, 41, 2515-2518.	2.9	86
23	Palmitoylations on Murine Coronavirus Spike Proteins Are Essential for Virion Assembly and Infectivity. <i>Journal of Virology</i> , 2006, 80, 1280-1289.	3.4	82
24	Cholesterol-induced Apoptotic Macrophages Elicit an Inflammatory Response in Phagocytes, Which Is Partially Attenuated by the Mer Receptor. <i>Journal of Biological Chemistry</i> , 2006, 281, 6707-6717.	3.4	79
25	Identification of a Non-Growth Factor Role for GM-CSF in Advanced Atherosclerosis. <i>Circulation Research</i> , 2015, 116, e13-24.	4.5	73
26	Pivotal Advance: Macrophages become resistant to cholesterol-induced death after phagocytosis of apoptotic cells. <i>Journal of Leukocyte Biology</i> , 2007, 82, 1040-1050.	3.3	63
27	Mechanisms of failed apoptotic cell clearance by phagocyte subsets in cardiovascular disease. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2010, 15, 1124-1136.	4.9	63
28	Guidelines for in vivo mouse models of myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 321, H1056-H1073.	3.2	53
29	Macrophages in Heart Failure with Reduced versus Preserved Ejection Fraction. <i>Trends in Molecular Medicine</i> , 2019, 25, 328-340.	6.7	51
30	Macrophage-produced VEGFC is induced by efferocytosis to ameliorate cardiac injury and inflammation. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	51
31	Pioglitazone Increases Macrophage Apoptosis and Plaque Necrosis in Advanced Atherosclerotic Lesions of Nondiabetic Low-Density Lipoprotein Receptor <sup>-/-</sup> Null Mice. <i>Circulation</i> , 2007, 116, 2182-2190.	1.6	50
32	Deposition of microparticles by neutrophils onto inflamed epithelium: a new mechanism to disrupt epithelial intercellular adhesions and promote transepithelial migration. <i>FASEB Journal</i> , 2016, 30, 4007-4020.	0.5	50
33	Mechanism of Enhanced MerTK-Dependent Macrophage Efferocytosis by Extracellular Vesicles. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2082-2096.	2.4	49
34	Single-cell RNA sequencing uncovers heterogenous transcriptional signatures in macrophages during efferocytosis. <i>Scientific Reports</i> , 2020, 10, 14333.	3.3	48
35	Surface Engineered Polymersomes for Enhanced Modulation of Dendritic Cells During Cardiovascular Immunotherapy. <i>Advanced Functional Materials</i> , 2019, 29, 1904399.	14.9	47
36	Myeloid receptor CD36 is required for early phagocytosis of myocardial infarcts and induction of Nr4a1-dependent mechanisms of cardiac repair. <i>FASEB Journal</i> , 2018, 32, 254-264.	0.5	45

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37	Intercellular Adhesion Molecule 1 Functions as an Efferocytosis Receptor in Inflammatory Macrophages. American Journal of Pathology, 2020, 190, 874-885.	3.8	45
38	Wireless, implantable catheter-type oximeter designed for cardiac oxygen saturation. Science Advances, 2021, 7, .	10.3	45
39	Constitutive Expression of a Dominant-Negative TGF- $\beta$ 2 Type II Receptor in the Posterior Left Atrium Leads to Beneficial Remodeling of Atrial Fibrillation Substrate. Circulation Research, 2016, 119, 69-82.	4.5	44
40	Macrophage AXL receptor tyrosine kinase inflames the heart after reperfused myocardial infarction. Journal of Clinical Investigation, 2021, 131, .	8.2	42
41	Acute CD47 Blockade During Ischemic Myocardial Reperfusion Enhances Phagocytosis-Associated Cardiac Repair. JACC Basic To Translational Science, 2017, 2, 386-397.	4.1	40
42	Endoplasmic reticulum-resident E3 ubiquitin ligase Hrd1 controls B-cell immunity through degradation of the death receptor CD95/Fas. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10394-10399.	7.1	38
43	ACAT Inhibition Reduces the Progression of Preexisting, Advanced Atherosclerotic Mouse Lesions Without Plaque or Systemic Toxicity. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 4-12.	2.4	34
44	T-cell exhaustion in allograft rejection and tolerance. Current Opinion in Organ Transplantation, 2015, 20, 37-42.	1.6	34
45	Cardiomyocyte-Specific Ablation of Med1 Subunit of the Mediator Complex Causes Lethal Dilated Cardiomyopathy in Mice. PLoS ONE, 2016, 11, e0160755.	2.5	31
46	Non-canonical glutamine transamination sustains efferocytosis by coupling redox buffering to oxidative phosphorylation. Nature Metabolism, 2021, 3, 1313-1326.	11.9	31
47	Immunometabolism of Phagocytes and Relationships to Cardiac Repair. Frontiers in Cardiovascular Medicine, 2019, 6, 42.	2.4	30
48	Single cell transcriptomics of mouse kidney transplants reveals a myeloid cell pathway for transplant rejection. JCI Insight, 2020, 5, .	5.0	30
49	Genome-wide differential expression profiling of lncRNAs and mRNAs associated with early diabetic cardiomyopathy. Scientific Reports, 2019, 9, 15345.	3.3	29
50	A clinically relevant murine model unmasks a "two-hit" mechanism for reactivation and dissemination of cytomegalovirus after kidney transplant. American Journal of Transplantation, 2019, 19, 2421-2433.	4.7	28
51	Nanoparticle Platforms for Antigen-Specific Immune Tolerance. Frontiers in Immunology, 2020, 11, 945.	4.8	28
52	Cardiomyocytes induce macrophage receptor shedding to suppress phagocytosis. Journal of Molecular and Cellular Cardiology, 2015, 87, 171-179.	1.9	27
53	Hypoxia-inducible factors individually facilitate inflammatory myeloid metabolism and inefficient cardiac repair. Journal of Experimental Medicine, 2021, 218, .	8.5	27
54	Immunometabolic mechanisms of heart failure with preserved ejection fraction. , 2022, 1, 211-222.		27

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55	Contrasting Inflammation Resolution during Atherosclerosis and Post Myocardial Infarction at the Level of Monocyte/Macrophage Phagocytic Clearance. <i>Frontiers in Immunology</i> , 2012, 3, 39.	4.8	26
56	Extracellular signal-regulated kinase activation during cardiac hypertrophy reduces sarcoplasmic/endoplasmic reticulum calcium ATPase 2 (SERCA2) transcription. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 75, 58-63.	1.9	25
57	Efferocytosis and Outside-In Signaling by Cardiac Phagocytes. Links to Repair, Cellular Programming, and Intercellular Crosstalk in Heart. <i>Frontiers in Immunology</i> , 2017, 8, 1428.	4.8	25
58	The endoplasmic reticulumâ€resident E3 ubiquitin ligase Hrd1 controls a critical checkpoint in B cell development in mice. <i>Journal of Biological Chemistry</i> , 2018, 293, 12934-12944.	3.4	25
59	A reporter for tracking the UPR in vivo reveals patterns of temporal and cellular stress during atherosclerotic progression. <i>Journal of Lipid Research</i> , 2011, 52, 1033-1038.	4.2	24
60	Receptor tyrosine kinase MerTK suppresses an allogenic type I IFN response to promote transplant tolerance. <i>American Journal of Transplantation</i> , 2019, 19, 674-685.	4.7	24
61	Depletion of regulatory T cells decreases cardiac parasitosis and inflammation in experimental Chagas disease. <i>Parasitology Research</i> , 2015, 114, 1167-1178.	1.6	22
62	Shedding of TNF receptor 2 by effector CD8+ T cells by ADAM17 is important for regulating TNF-Î± availability during influenza infection. <i>Journal of Leukocyte Biology</i> , 2015, 98, 423-434.	3.3	22
63	HIF-2Î± in Resting Macrophages Tempers Mitochondrial Reactive Oxygen Species To Selectively Repress MARCO-Dependent Phagocytosis. <i>Journal of Immunology</i> , 2016, 197, 3639-3649.	0.8	21
64	Dietary Saturated Fat Promotes Arrhythmia by Activating NOX2 (NADPH Oxidase 2). <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019, 12, e007573.	4.8	21
65	Quantitation of Acute Necrosis After Experimental Myocardial Infarction. <i>Methods in Molecular Biology</i> , 2013, 1004, 115-133.	0.9	17
66	Differential Role of B Cells and IL-17 Versus IFN-Î³ During Early and Late Rejection of Pig Islet Xenografts in Mice. <i>Transplantation</i> , 2017, 101, 1801-1810.	1.0	17
67	Shedding Light on Impaired Efferocytosis and Nonresolving Inflammation. <i>Circulation Research</i> , 2013, 113, 9-12.	4.5	16
68	Allograft Inflammatory Factor-1 Links T-Cell Activation, Interferon Response, and Macrophage Activation in Chronic Kawasaki Disease Arteritis. <i>Journal of the Pediatric Infectious Diseases Society</i> , 2017, 6, e94-e102.	1.3	16
69	The Myocardial Unfolded Protein Response during Ischemic Cardiovascular Disease. <i>Biochemistry Research International</i> , 2012, 2012, 1-7.	3.3	15
70	Monocytes prime autoreactive T cells after myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H116-H123.	3.2	15
71	Phagocyteâ€myocyte interactions and consequences during hypoxic wound healing. <i>Cellular Immunology</i> , 2014, 291, 65-73.	3.0	14
72	Kidney-intrinsic factors determine the severity of ischemia/reperfusion injury in a mouse model of delayed graft function. <i>Kidney International</i> , 2020, 98, 1489-1501.	5.2	13

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73	New Insights Into the Molecular Mechanisms and Immune Control of Cytomegalovirus Reactivation. Transplantation, 2020, 104, e118-e124.	1.0	12
74	Identification and analysis of circulating long non-coding RNAs with high significance in diabetic cardiomyopathy. Scientific Reports, 2021, 11, 2571.	3.3	10
75	Macrophage Metabolic Signaling during Ischemic Injury and Cardiac Repair. Immunometabolism, 2021, 3, .	1.6	9
76	PIMT/NCOA6IP Deletion in the Mouse Heart Causes Delayed Cardiomyopathy Attributable to Perturbation in Energy Metabolism. International Journal of Molecular Sciences, 2018, 19, 1485.	4.1	8
77	Murine cytomegalovirus dissemination but not reactivation in donor-positive/recipient-negative allogeneic kidney transplantation can be effectively prevented by transplant immune tolerance. Kidney International, 2020, 98, 147-158.	5.2	8
78	Can polarization of macrophage metabolism enhance cardiac regeneration?. Journal of Molecular and Cellular Cardiology, 2021, 160, 87-96.	1.9	7
79	Functional implications of neutrophil metabolism during ischemic tissue repair. Current Opinion in Pharmacology, 2022, 63, 102191.	3.5	7
80	Innate Functions of Dendritic Cell Subsets in Cardiac Allograft Tolerance. Frontiers in Immunology, 2020, 11, 869.	4.8	6
81	Cardiopulmonary Bypass-Induced Inflammation and Myocardial Ischemia and Reperfusion Injury Stimulates Accumulation of Soluble MER*. Pediatric Critical Care Medicine, 2021, 22, 822-831.	0.5	6
82	Long-Term Trajectories of Left Ventricular Ejection Fraction in Patients With Chronic Inflammatory Diseases and Heart Failure: An Analysis of Electronic Health Records. Circulation: Heart Failure, 2021, 14, e008478.	3.9	6
83	Resolving inflammatory links between myocardial infarction and vascular dementia. Seminars in Immunology, 2022, 59, 101600.	5.6	6
84	Proresolving Lipid Mediators Restore Balance to the Vulnerable Plaque. Circulation Research, 2016, 119, 972-974.	4.5	5
85	Methods and Models for Monitoring UPR-Associated Macrophage Death During Advanced Atherosclerosis. Methods in Enzymology, 2011, 489, 277-296.	1.0	4
86	Mitochondrial Indigestion After Lipid Scavenging. Circulation Research, 2019, 125, 1103-1105.	4.5	4
87	MCMV Dissemination from Latently-Infected Allografts Following Transplantation into Pre-Tolerized Recipients. Pathogens, 2020, 9, 607.	2.8	4
88	Acute murine cytomegalovirus disrupts established transplantation tolerance and causes recipient allo-sensitization. American Journal of Transplantation, 2021, 21, 515-524.	4.7	4
89	Bone marrow-derived AXL tyrosine kinase promotes mitogenic crosstalk and cardiac allograft vasculopathy. Journal of Heart and Lung Transplantation, 2021, 40, 435-446.	0.6	4
90	Comparative Risk of Incident Coronary Heart Disease Across Chronic Inflammatory Diseases. Frontiers in Cardiovascular Medicine, 2021, 8, 757738.	2.4	3

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91	Differential Effects of Pioglitazone on Advanced Atherosclerotic Lesions. American Journal of Pathology, 2009, 175, 1348.	3.8	2
92	Acute and chronic phagocyte determinants of cardiac allograft vasculopathy. Seminars in Immunopathology, 2018, 40, 593-603.	6.1	2
93	Cardio-omentopexy Reduces Cardiac Fibrosis and Heart Failure After Experimental Pressure Overload. Annals of Thoracic Surgery, 2019, 107, 1448-1455.	1.3	2
94	Doxorubicin-Induced Ascension of Resident Cardiac Macrophages. Circulation Research, 2020, 127, 628-630.	4.5	1
95	<i>ADAMTS7</i> Knockdown in Context: Emerging Therapeutic Targets in Atherothrombosis. Circulation Research, 2021, 129, 471-473.	4.5	1
96	Select Macrophage Noncoding RNAs of Interest in Cardiovascular Disease. Journal of Lipid and Atherosclerosis, 2020, 9, 153.	3.5	1
97	Diversity of Coronavirus Spikes: Relationship to Pathogen Entry and Dissemination. , 2005, , 49-63.		0
98	Cardio-omentopexy requires a cardioprotective innate immune response to promote myocardial angiogenesis in mice. JTCVS Open, 2022, , .	0.5	0