

# Daniel M Davis

## List of Publications by Year in descending order

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110  
papers

9,782  
citations

44042

48  
h-index

37183

96  
g-index

117  
all docs

117  
docs citations

117  
times ranked

11370  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recognition of haemagglutinins on virus-infected cells by NKp46 activates lysis by human NK cells. <i>Nature</i> , 2001, 409, 1055-1060.	13.7	844
2	The Selective Downregulation of Class I Major Histocompatibility Complex Proteins by HIV-1 Protects HIV-Infected Cells from NK Cells. <i>Immunity</i> , 1999, 10, 661-671.	6.6	791
3	Membrane nanotubes physically connect T cells over long distances presenting a novel route for HIV-1 transmission. <i>Nature Cell Biology</i> , 2008, 10, 211-219.	4.6	666
4	Structurally Distinct Membrane Nanotubes between Human Macrophages Support Long-Distance Vesicular Traffic or Surfing of Bacteria. <i>Journal of Immunology</i> , 2006, 177, 8476-8483.	0.4	422
5	Membrane nanotubes: dynamic long-distance connections between animal cells. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 431-436.	16.1	341
6	Cutting Edge: Membrane Nanotubes Connect Immune Cells. <i>Journal of Immunology</i> , 2004, 173, 1511-1513.	0.4	331
7	What is the importance of the immunological synapse?. <i>Trends in Immunology</i> , 2004, 25, 323-327.	2.9	256
8	Intercellular transfer of cell-surface proteins is common and can affect many stages of an immune response. <i>Nature Reviews Immunology</i> , 2007, 7, 238-243.	10.6	241
9	Reciprocal regulation of human natural killer cells and macrophages associated with distinct immune synapses. <i>Blood</i> , 2007, 109, 3776-3785.	0.6	227
10	MicroRNAs Transfer from Human Macrophages to Hepato-Carcinoma Cells and Inhibit Proliferation. <i>Journal of Immunology</i> , 2013, 191, 6250-6260.	0.4	211
11	Remodelling of Cortical Actin Where Lytic Granules Dock at Natural Killer Cell Immune Synapses Revealed by Super-Resolution Microscopy. <i>PLoS Biology</i> , 2011, 9, e1001152.	2.6	200
12	Activation of a Subset of Human NK Cells upon Contact with <i>Plasmodium falciparum</i> -Infected Erythrocytes. <i>Journal of Immunology</i> , 2003, 171, 5396-5405.	0.4	190
13	Membrane nanotubes facilitate long-distance interactions between natural killer cells and target cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 5545-5550.	3.3	190
14	Intercellular Transfer and Supramolecular Organization of Human Leukocyte Antigen C at Inhibitory Natural Killer Cell Immune Synapses. <i>Journal of Experimental Medicine</i> , 2001, 194, 1507-1517.	4.2	164
15	Peptide antagonism as a mechanism for NK cell activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10160-10165.	3.3	139
16	Antagonistic Inflammatory Phenotypes Dictate Tumor Fate and Response to Immune Checkpoint Blockade. <i>Immunity</i> , 2020, 53, 1215-1229.e8.	6.6	131
17	Diversity of peripheral blood human NK cells identified by single-cell RNA sequencing. <i>Blood Advances</i> , 2020, 4, 1388-1406.	2.5	125
18	Lenalidomide augments actin remodeling and lowers NK-cell activation thresholds. <i>Blood</i> , 2015, 126, 50-60.	0.6	123

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19	Assembly of the immunological synapse for T cells and NK cells. <i>Trends in Immunology</i> , 2002, 23, 356-363.	2.9	120
20	Dynamics of Subsynaptic Vesicles and Surface Microclusters at the Immunological Synapse. <i>Science Signaling</i> , 2010, 3, ra36.	1.6	120
21	Cross-Talk between T Cells and NK Cells Generates Rapid Effector Responses to <i>Plasmodium falciparum</i> -Infected Erythrocytes. <i>Journal of Immunology</i> , 2010, 184, 6043-6052.	0.4	120
22	Nanoscale Ligand Spacing Influences Receptor Triggering in T Cells and NK Cells. <i>Nano Letters</i> , 2013, 13, 5608-5614.	4.5	110
23	Shedding of CD16 disassembles the NK cell immune synapse and boosts serial engagement of target cells. <i>Journal of Cell Biology</i> , 2018, 217, 3267-3283.	2.3	108
24	The Size of the Synaptic Cleft and Distinct Distributions of Filamentous Actin, Ezrin, CD43, and CD45 at Activating and Inhibitory Human NK Cell Immune Synapses. <i>Journal of Immunology</i> , 2003, 170, 2862-2870.	0.4	106
25	Microclusters of inhibitory killer immunoglobulin-like receptor signaling at natural killer cell immunological synapses. <i>Journal of Cell Biology</i> , 2006, 174, 153-161.	2.3	103
26	Nanoscale Dynamism of Actin Enables Secretory Function in Cytolytic Cells. <i>Current Biology</i> , 2018, 28, 489-502.e9.	1.8	101
27	Heterogeneous Human NK Cell Responses to <i>Plasmodium falciparum</i> -Infected Erythrocytes. <i>Journal of Immunology</i> , 2005, 175, 7466-7473.	0.4	97
28	Cell Surface Organization of Stress-inducible Proteins ULBP and MICA That Stimulate Human NK Cells and T Cells via NKG2D. <i>Journal of Experimental Medicine</i> , 2004, 199, 1005-1010.	4.2	96
29	Priming Is Dispensable for NLRP3 Inflammasome Activation in Human Monocytes In Vitro. <i>Frontiers in Immunology</i> , 2020, 11, 565924.	2.2	92
30	Mechanisms and functions for the duration of intercellular contacts made by lymphocytes. <i>Nature Reviews Immunology</i> , 2009, 9, 543-555.	10.6	87
31	ADAP-SLP-76 Binding Differentially Regulates Supramolecular Activation Cluster (SMAC) Formation Relative to T Cell-APC Conjugation. <i>Journal of Experimental Medicine</i> , 2004, 200, 1063-1074.	4.2	84
32	Human and murine inhibitory natural killer cell receptors transfer from natural killer cells to target cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 16873-16878.	3.3	82
33	Natural Killer Cell Signal Integration Balances Synapse Symmetry and Migration. <i>PLoS Biology</i> , 2009, 7, e1000159.	2.6	81
34	A distinct subset of human NK cells expressing HLA-DR expand in response to IL-2 and can aid immune responses to BCG. <i>European Journal of Immunology</i> , 2011, 41, 1924-1933.	1.6	80
35	Type I interferon is required for T helper (Th) 2 induction by dendritic cells. <i>EMBO Journal</i> , 2017, 36, 2404-2418.	3.5	80
36	A novel adeno-associated virus capsid with enhanced neurotropism corrects a lysosomal transmembrane enzyme deficiency. <i>Brain</i> , 2018, 141, 2014-2031.	3.7	80

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37	Rituximab causes a polarization of B cells that augments its therapeutic function in NK-cell-mediated antibody-dependent cellular cytotoxicity. <i>Blood</i> , 2013, 121, 4694-4702.	0.6	79
38	Fluorescence Imaging of Two-Photon Linear Dichroism: Cholesterol Depletion Disrupts Molecular Orientation in Cell Membranes. <i>Biophysical Journal</i> , 2005, 88, 609-622.	0.2	77
39	High plasma membrane lipid order imaged at the immunological synapse periphery in live T cells. <i>Molecular Membrane Biology</i> , 2010, 27, 178-189.	2.0	73
40	3D stimulated emission depletion microscopy with programmable aberration correction. <i>Journal of Biophotonics</i> , 2014, 7, 29-36.	1.1	72
41	Multiple Mechanisms Downstream of TLR-4 Stimulation Allow Expression of NKG2D Ligands To Facilitate Macrophage/NK Cell Crosstalk. <i>Journal of Immunology</i> , 2010, 184, 6901-6909.	0.4	71
42	Superresolution Microscopy Reveals Nanometer-Scale Reorganization of Inhibitory Natural Killer Cell Receptors upon Activation of NKG2D. <i>Science Signaling</i> , 2013, 6, ra62.	1.6	69
43	The Activating NKG2D Ligand MHC Class I-Related Chain A Transfers from Target Cells to NK Cells in a Manner That Allows Functional Consequences. <i>Journal of Immunology</i> , 2007, 178, 3418-3426.	0.4	68
44	Segregation of HLA-C from ICAM-1 at NK Cell Immune Synapses Is Controlled by Its Cell Surface Density. <i>Journal of Immunology</i> , 2006, 177, 6904-6910.	0.4	65
45	High-Speed High-Resolution Imaging of Intercellular Immune Synapses Using Optical Tweezers. <i>Biophysical Journal</i> , 2008, 95, L66-L68.	0.2	64
46	Human mesenchymal stromal cells deliver systemic oncolytic measles virus to treat acute lymphoblastic leukemia in the presence of humoral immunity. <i>Blood</i> , 2014, 123, 1327-1335.	0.6	63
47	Tunneling nanotube-mediated intercellular vesicle and protein transfer in the stroma-provided imatinib resistance in chronic myeloid leukemia cells. <i>Cell Death and Disease</i> , 2019, 10, 817.	2.7	59
48	Title is missing!. <i>Journal of Fluorescence</i> , 2002, 12, 91-95.	1.3	55
49	Machine learning for cluster analysis of localization microscopy data. <i>Nature Communications</i> , 2020, 11, 1493.	5.8	55
50	The Size of Activating and Inhibitory Killer Ig-like Receptor Nanoclusters Is Controlled by the Transmembrane Sequence and Affects Signaling. <i>Cell Reports</i> , 2016, 15, 1957-1972.	2.9	54
51	The immune synapse clears and excludes molecules above a size threshold. <i>Nature Communications</i> , 2014, 5, 5479.	5.8	53
52	Super-resolution imaging of remodeled synaptic actin reveals different synergies between NK cell receptors and integrins. <i>Blood</i> , 2012, 120, 3729-3740.	0.6	52
53	Membrane nanoclusters of FcγRI segregate from inhibitory SIRPα upon activation of human macrophages. <i>Journal of Cell Biology</i> , 2017, 216, 1123-1141.	2.3	52
54	Inhibitory Receptor Signals Suppress Ligation-Induced Recruitment of NKG2D to GM1-Rich Membrane Domains at the Human NK Cell Immune Synapse. <i>Journal of Immunology</i> , 2007, 178, 5606-5611.	0.4	51

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55	Activation of Human Natural Killer Cells by Graphene Oxide-Templated Antibody Nanoclusters. <i>Nano Letters</i> , 2018, 18, 3282-3289.	4.5	51
56	Optimized methods for imaging membrane nanotubes between T cells and trafficking of HIV-1. <i>Methods</i> , 2011, 53, 27-33.	1.9	50
57	The central role of the cytoskeleton in mechanisms and functions of the <scp>NK</scp> cell immune synapse. <i>Immunological Reviews</i> , 2013, 256, 203-221.	2.8	50
58	Long-Distance Calls Between Cells Connected by Tunneling Nanotubules. <i>Science Signaling</i> , 2005, 2005, pe55-pe55.	1.6	45
59	Matched Sizes of Activating and Inhibitory Receptor/Ligand Pairs Are Required for Optimal Signal Integration by Human Natural Killer Cells. <i>PLoS ONE</i> , 2010, 5, e15374.	1.1	45
60	Membranous Structures Transfer Cell Surface Proteins Across NK Cell Immune Synapses. <i>Traffic</i> , 2007, 8, 1190-1204.	1.3	43
61	Super-resolution microscopy of the immunological synapse. <i>Current Opinion in Immunology</i> , 2013, 25, 307-312.	2.4	43
62	The Actin Cytoskeleton Controls the Efficiency of Killer Ig-Like Receptor Accumulation at Inhibitory NK Cell Immune Synapses. <i>Journal of Immunology</i> , 2004, 173, 5617-5625.	0.4	41
63	An actin cytoskeletal barrier inhibits lytic granule release from natural killer cells in patients with Chediak-Higashi syndrome. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 914-927.e6.	1.5	40
64	Quantifying the reduction in accessibility of the inhibitory NK cell receptor Ly49A caused by binding MHC class I proteins in cis. <i>European Journal of Immunology</i> , 2007, 37, 516-527.	1.6	39
65	Synaptic secretion from human natural killer cells is diverse and includes supramolecular attack particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23717-23720.	3.3	39
66	Control of Immune Responses by Trafficking Cell Surface Proteins, Vesicles and Lipid Rafts to and from the Immunological Synapse. <i>Traffic</i> , 2004, 5, 651-661.	1.3	35
67	Increased surveillance of cells in mitosis by human NK cells suggests a novel strategy for limiting tumor growth and viral replication. <i>Blood</i> , 2007, 109, 670-673.	0.6	33
68	Distinct Effects of Dexamethasone on Human Natural Killer Cell Responses Dependent on Cytokines. <i>Frontiers in Immunology</i> , 2017, 8, 432.	2.2	32
69	Secretion of IFN- $\gamma$ and not IL-2 by anergic human T cells correlates with assembly of an immature immune synapse. <i>Blood</i> , 2005, 106, 3874-3879.	0.6	29
70	Mechanisms for Size-Dependent Protein Segregation at Immune Synapses Assessed with Molecular Rulers. <i>Biophysical Journal</i> , 2011, 100, 2865-2874.	0.2	29
71	NK Cells Augment Oncolytic Adenovirus Cytotoxicity in Ovarian Cancer. <i>Molecular Therapy - Oncolytics</i> , 2020, 16, 289-301.	2.0	29
72	The Transmembrane Sequence of Human Histocompatibility Leukocyte Antigen (HLA)-C as a Determinant in Inhibition of a Subset of Natural Killer Cells. <i>Journal of Experimental Medicine</i> , 1999, 189, 1265-1274.	4.2	28

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73	An Allosteric Mechanism Controls Antigen Presentation by the H-2KbComplex. <i>Biochemistry</i> , 1999, 38, 12165-12173.	1.2	28
74	The protean immune cell synapse: a supramolecular structure with many functions. <i>Seminars in Immunology</i> , 2003, 15, 317-324.	2.7	28
75	Loss of kindlin-3 alters the threshold for NK cell activation in human leukocyte adhesion deficiency-III. <i>Blood</i> , 2012, 120, 3915-3924.	0.6	28
76	A nanoscale reorganization of the IL-15 receptor is triggered by NKG2D in a ligand-dependent manner. <i>Science Signaling</i> , 2018, 11, .	1.6	28
77	Live Cell Linear Dichroism Imaging Reveals Extensive Membrane Ruffling within the Docking Structure of Natural Killer Cell Immune Synapses. <i>Biophysical Journal</i> , 2009, 96, L13-L15.	0.2	27
78	Natural killer cell immune synapse formation and cytotoxicity are controlled by tension of the target interface. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	26
79	Cathepsin B Controls the Persistence of Memory CD8+ T Lymphocytes. <i>Journal of Immunology</i> , 2012, 189, 1133-1143.	0.4	25
80	A Peptide Antagonist Disrupts NK Cell Inhibitory Synapse Formation. <i>Journal of Immunology</i> , 2013, 190, 2924-2930.	0.4	25
81	Imaging immune surveillance by T cells and NK cells. <i>Immunological Reviews</i> , 2002, 189, 179-192.	2.8	24
82	Fluorescence-Lifetime Imaging of DNA-Dye Interactions within Continuous-Flow Microfluidic Systems. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2228-2231.	7.2	24
83	Boltzmann Energy-based Image Analysis Demonstrates that Extracellular Domain Size Differences Explain Protein Segregation at Immune Synapses. <i>PLoS Computational Biology</i> , 2011, 7, e1002076.	1.5	24
84	DHHC2 is a protein acyltransferase for Lck. <i>Molecular Membrane Biology</i> , 2011, 28, 473-486.	2.0	23
85	Escaping Death: How Cancer Cells and Infected Cells Resist Cell-Mediated Cytotoxicity. <i>Frontiers in Immunology</i> , 2022, 13, 867098.	2.2	23
86	Inhibitory and Regulatory Immune Synapses. <i>Current Topics in Microbiology and Immunology</i> , 2010, 340, 63-79.	0.7	22
87	Human NK Cells Differ More in Their KIR2DL1-Dependent Thresholds for HLA-Cw6-Mediated Inhibition than in Their Maximal Killing Capacity. <i>PLoS ONE</i> , 2011, 6, e24927.	1.1	21
88	Intrigue at the Immune Synapse. <i>Scientific American</i> , 2006, 294, 48-55.	1.0	20
89	Human NK Cells Lyse Th2-Polarizing Dendritic Cells via Nkp30 and DNAM-1. <i>Journal of Immunology</i> , 2018, 201, 2028-2041.	0.4	20
90	Heterogeneity in extracellular vesicle secretion by single human macrophages revealed by super-resolution microscopy. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12215.	5.5	20

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91	Intercellular Transfer of Carcinoembryonic Antigen from Tumor Cells to NK Cells. <i>Journal of Immunology</i> , 2007, 179, 4424-4434.	0.4	17
92	SH2 domain containing leukocyte phosphoprotein of 76-kDa (SLP-76) feedback regulation of ZAP-70 microclustering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10166-10171.	3.3	17
93	Simulations of the NK Cell Immune Synapse Reveal that Activation Thresholds Can Be Established by Inhibitory Receptors Acting Locally. <i>Journal of Immunology</i> , 2011, 187, 760-773.	0.4	16
94	Genetic diversity affects the nanoscale membrane organization and signaling of natural killer cell receptors. <i>Science Signaling</i> , 2019, 12, .	1.6	16
95	Radiotherapy transiently reduces the sensitivity of cancer cells to lymphocyte cytotoxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	16
96	Internalization of the Membrane Attack Complex Triggers NLRP3 Inflammasome Activation and IL-1 $\beta$ Secretion in Human Macrophages. <i>Frontiers in Immunology</i> , 2021, 12, 720655.	2.2	14
97	Antibody Afucosylation Augments CD16-Mediated Serial Killing and IFN $\gamma$ Secretion by Human Natural Killer Cells. <i>Frontiers in Immunology</i> , 2021, 12, 641521.	2.2	12
98	The effect of 1.5T cardiac magnetic resonance on human circulating leucocytes. <i>European Heart Journal</i> , 2018, 39, 305-312.	1.0	10
99	Brief Report: Serpin Spi2A as a Novel Modulator of Hematopoietic Progenitor Cell Formation. <i>Stem Cells</i> , 2014, 32, 2550-2556.	1.4	8
100	HLA-B and HLA-C Differ in Their Nanoscale Organization at Cell Surfaces. <i>Frontiers in Immunology</i> , 2019, 10, 61.	2.2	8
101	Presenting the marvels of immunity. <i>Nature Reviews Immunology</i> , 2014, 14, 351-353.	10.6	7
102	Dynamics of Natural Killer Cell Receptor Revealed by Quantitative Analysis of Photoswitchable Protein. <i>Biophysical Journal</i> , 2013, 105, 1987-1996.	0.2	6
103	Corrected Super-Resolution Microscopy Enables Nanoscale Imaging of Autofluorescent Lung Macrophages. <i>Biophysical Journal</i> , 2020, 119, 2403-2417.	0.2	6
104	Illuminating the dynamics of signal integration in Natural Killer cells. <i>Frontiers in Immunology</i> , 2012, 3, 308.	2.2	5
105	Multidimensional multiphoton fluorescence lifetime imaging of cells. , 2008, , .		2
106	Modeling the influence of molecule and cell surface micro-domain distribution on the formation of T cell immunological synapses. , 2007, , .		1
107	How studying the immune system leads us to new medicines. <i>Lancet, The</i> , 2018, 391, 2205-2206.	6.3	1
108	Budget cuts: funding needed for startling new discoveries too. <i>Nature</i> , 2010, 465, 547-547.	13.7	0

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109	Rituximab&nbsp;capping&nbsp;triggers intracellular reorganization of B cells. <i>Matters</i> , 0, , .	1.0	0
110	Immunology meets the masses <b>Immune: A Journey into the Mysterious System That Keeps You Alive</b> <i>Philipp Dettmer</i> Random House, 2021. 368 pp.. <i>Science</i> , 2021, 374, 697-697.	6.0	0