

# Gregory D Sempowski

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

5,631  
citations

136950

32  
h-index

88630

70  
g-index

87  
all docs

87  
docs citations

87  
times ranked

8959  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zika virus protection by a single low-dose nucleoside-modified mRNA vaccination. <i>Nature</i> , 2017, 543, 248-251.	27.8	699
2	The Role of the Thymus in Immune Reconstitution in Aging, Bone Marrow Transplantation, and HIV-1 Infection. <i>Annual Review of Immunology</i> , 2000, 18, 529-560.	21.8	430
3	Inactivation of Irg-47 and Irg-47 Reveals a Family of Interferon $\beta$ -Inducible Genes with Essential, Pathogen-Specific Roles in Resistance to Infection. <i>Journal of Experimental Medicine</i> , 2001, 194, 181-188.	8.5	311
4	SARS-CoV-2 mRNA Vaccines Foster Potent Antigen-Specific Germinal Center Responses Associated with Neutralizing Antibody Generation. <i>Immunity</i> , 2020, 53, 1281-1295.e5.	14.3	285
5	A Single Immunization with Nucleoside-Modified mRNA Vaccines Elicits Strong Cellular and Humoral Immune Responses against SARS-CoV-2 in Mice. <i>Immunity</i> , 2020, 53, 724-732.e7.	14.3	267
6	Multi-omics analyses of radiation survivors identify radioprotective microbes and metabolites. <i>Science</i> , 2020, 370, .	12.6	260
7	Changes in primary lymphoid organs with aging. <i>Seminars in Immunology</i> , 2012, 24, 309-320.	5.6	238
8	In vitro and in vivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. <i>Cell</i> , 2021, 184, 4203-4219.e32.	28.9	228
9	Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. <i>Nature</i> , 2021, 594, 553-559.	27.8	199
10	T cell receptor excision circle assessment of thymopoiesis in aging mice. <i>Molecular Immunology</i> , 2002, 38, 841-848.	2.2	189
11	Antibodies to a Conserved Influenza Head Interface Epitope Protect by an IgG Subtype-Dependent Mechanism. <i>Cell</i> , 2019, 177, 1124-1135.e16.	28.9	141
12	Decontamination and Reuse of N95 Respirators with Hydrogen Peroxide Vapor to Address Worldwide Personal Protective Equipment Shortages During the SARS-CoV-2 (COVID-19) Pandemic. <i>Applied Biosafety</i> , 2020, 25, 67-70.	0.5	137
13	The Human Thymus During Aging. <i>Immunologic Research</i> , 2000, 22, 253-262.	2.9	133
14	NLRX1 Sequesters STING to Negatively Regulate the Interferon Response, Thereby Facilitating the Replication of HIV-1 and DNA Viruses. <i>Cell Host and Microbe</i> , 2016, 19, 515-528.	11.0	130
15	Influenza Antigen Engineering Focuses Immune Responses to a Subdominant but Broadly Protective Viral Epitope. <i>Cell Host and Microbe</i> , 2019, 25, 827-835.e6.	11.0	127
16	Structural diversity of the SARS-CoV-2 Omicron spike. <i>Molecular Cell</i> , 2022, 82, 2050-2068.e6.	9.7	125
17	Memory B Cells that Cross-React with Group 1 and Group 2 Influenza A Viruses Are Abundant in Adult Human Repertoires. <i>Immunity</i> , 2018, 48, 174-184.e9.	14.3	124
18	A robust microparticle platform for a STING-targeted adjuvant that enhances both humoral and cellular immunity during vaccination. <i>Journal of Controlled Release</i> , 2018, 270, 1-13.	9.9	119

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19	A broadly cross-reactive antibody neutralizes and protects against sarbecovirus challenge in mice. <i>Science Translational Medicine</i> , 2022, 14, eabj7125.	12.4	93
20	Pandemic Preparedness: Developing Vaccines and Therapeutic Antibodies For COVID-19. <i>Cell</i> , 2020, 181, 1458-1463.	28.9	92
21	SARS-CoV-2 Neutralizing Antibodies for COVID-19 Prevention and Treatment. <i>Annual Review of Medicine</i> , 2022, 73, 1-16.	12.2	91
22	Posttransplant Autoimmune Hemolytic Anemia and Other Autoimmune Cytopenias are Increased in Very Young Infants Undergoing Unrelated Donor Umbilical Cord Blood Transplantation. <i>Biology of Blood and Marrow Transplantation</i> , 2008, 14, 1108-1117.	2.0	75
23	Cold sensitivity of the SARS-CoV-2 spike ectodomain. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 128-131.	8.2	65
24	Acetalated Dextran Microparticles for Codelivery of STING and TLR7/8 Agonists. <i>Molecular Pharmaceutics</i> , 2018, 15, 4933-4946.	4.6	64
25	Fab-dimerized glycan-reactive antibodies are a structural category of natural antibodies. <i>Cell</i> , 2021, 184, 2955-2972.e25.	28.9	57
26	The serogroup B meningococcal outer membrane vesicle-based vaccine 4CMenB induces cross-species protection against <i>Neisseria gonorrhoeae</i> . <i>PLoS Pathogens</i> , 2020, 16, e1008602.	4.7	49
27	Immune Reconstitution in Patients with HIV Infection. <i>Annual Review of Medicine</i> , 2002, 53, 269-284.	12.2	47
28	Thymopoiesis in HIV-Infected Adults after Highly Active Antiretroviral Therapy. <i>AIDS Research and Human Retroviruses</i> , 2001, 17, 1635-1643.	1.1	45
29	<i>Neisseria gonorrhoeae</i> Suppresses Dendritic Cell-Induced, Antigen-Dependent CD4 T Cell Proliferation. <i>PLoS ONE</i> , 2012, 7, e41260.	2.5	43
30	Multiplexed, quantitative serological profiling of COVID-19 from blood by a point-of-care test. <i>Science Advances</i> , 2021, 7, .	10.3	42
31	Development of mRNA manufacturing for vaccines and therapeutics: mRNA platform requirements and development of a scalable production process to support early phase clinical trials. <i>Translational Research</i> , 2022, 242, 38-55.	5.0	41
32	CD7 and CD28 Are Required for Murine CD4+CD25+ Regulatory T Cell Homeostasis and Prevention of Thyroiditis. <i>Journal of Immunology</i> , 2004, 172, 787-794.	0.8	39
33	Surface plasmon resonance measurements of plasma antibody avidity during primary and secondary responses to anthrax protective antigen. <i>Journal of Immunological Methods</i> , 2014, 404, 1-12.	1.4	35
34	Development and implementation of a proficiency testing program for Luminex bead-based cytokine assays. <i>Journal of Immunological Methods</i> , 2014, 409, 62-71.	1.4	34
35	Sublethal Total Body Irradiation Causes Long-Term Deficits in Thymus Function by Reducing Lymphoid Progenitors. <i>Journal of Immunology</i> , 2017, 199, 2701-2712.	0.8	32
36	Leukemia inhibitory factor is a mediator of <i>Escherichia coli</i> lipopolysaccharide-induced acute thymic atrophy. <i>European Journal of Immunology</i> , 2002, 32, 3066-3070.	2.9	30

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37	IL-27 signaling activates skin cells to induce innate antiviral proteins and protects against Zika virus infection. <i>Science Advances</i> , 2020, 6, eaay3245.	10.3	29
38	Histone Deacetylation Critically Determines T Cell Subset Radiosensitivity. <i>Journal of Immunology</i> , 2014, 193, 1451-1458.	0.8	27
39	The Toll-Like Receptor 2/6 Agonist, FSL-1 Lipopeptide, Therapeutically Mitigates Acute Radiation Syndrome. <i>Scientific Reports</i> , 2017, 7, 17355.	3.3	24
40	Mucosal-associated invariant T cell responses differ by sex in COVID-19. <i>Med</i> , 2021, 2, 755-772.e5.	4.4	24
41	An interlaboratory comparison of dosimetry for a multi-institutional radiobiological research project: Observations, problems, solutions and lessons learned. <i>International Journal of Radiation Biology</i> , 2016, 92, 59-70.	1.8	22
42	Properly folded and functional PorB from <i>Neisseria gonorrhoeae</i> inhibits dendritic cell stimulation of CD4+ T cell proliferation. <i>Journal of Biological Chemistry</i> , 2018, 293, 11218-11229.	3.4	22
43	Rapid test to assess the escape of SARS-CoV-2 variants of concern. <i>Science Advances</i> , 2021, 7, eabl7682.	10.3	21
44	Regulation of T cell function by microRNA-720. <i>Scientific Reports</i> , 2015, 5, 12159.	3.3	20
45	Late effects of total body irradiation on hematopoietic recovery and immune function in rhesus macaques. <i>PLoS ONE</i> , 2019, 14, e0210663.	2.5	20
46	Radiation Combined With Thermal Injury Induces Immature Myeloid Cells. <i>Shock</i> , 2012, 38, 532-542.	2.1	18
47	Innate Immune Cell Recovery Is Positively Regulated by NLRP12 during Emergency Hematopoiesis. <i>Journal of Immunology</i> , 2017, 198, 2426-2433.	0.8	18
48	Late Effects of Exposure to Ionizing Radiation and Age on Human Thymus Morphology and Function. <i>Radiation Research</i> , 2017, 187, 589.	1.5	18
49	Naïve T Cells Are Maintained in the Periphery During the First 3 Months of Acute HIV-1 Infection: Implications for Analysis of Thymus Function. <i>Journal of Clinical Immunology</i> , 2005, 25, 462-472.	3.8	17
50	Differential immune imprinting by influenza virus vaccination and infection in nonhuman primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
51	Meningococcal Detoxified Outer Membrane Vesicle Vaccines Enhance Gonococcal Clearance in a Murine Infection Model. <i>Journal of Infectious Diseases</i> , 2022, 225, 650-660.	4.0	15
52	STING agonist-containing microparticles improve seasonal influenza vaccine efficacy and durability in ferrets over standard adjuvant. <i>Journal of Controlled Release</i> , 2022, 347, 356-368.	9.9	13
53	Tolerance and immunity after sequential lung and bone marrow transplantation from an unrelated cadaveric donor. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 567-570.e3.	2.9	12
54	Analysis of human innate immune responses to PRINT fabricated nanoparticles with cross validation using a humanized mouse model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 589-599.	3.3	12

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55	Immunization with the Haemophilus ducreyi trimeric autotransporter adhesin DsrA with alum, CpG or imiquimod generates a persistent humoral immune response that recognizes the bacterial surface. <i>Vaccine</i> , 2016, 34, 1193-1200.	3.8	12
56	Nasal peanut+ CpG immunotherapy enhances peanut-specific IFN $\gamma$ in Th2 cells and IL-10 in non-Th2 cells in mice. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 2220-2223.	5.7	12
57	Monocyte Polarization is Altered by Total-Body Irradiation in Male Rhesus Macaques: Implications for Delayed Effects of Acute Radiation Exposure. <i>Radiation Research</i> , 2019, 192, 121.	1.5	11
58	Altering the Immunogenicity of Hemagglutinin Immunogens by Hyperglycosylation and Disulfide Stabilization. <i>Frontiers in Immunology</i> , 2021, 12, 737973.	4.8	11
59	The Haemophilus ducreyi trimeric autotransporter adhesin DsrA protects against an experimental infection in the swine model of chancroid. <i>Vaccine</i> , 2014, 32, 3752-3758.	3.8	9
60	Long-Term Recovery of the Adaptive Immune System in Rhesus Macaques After Total Body Irradiation. <i>Advances in Radiation Oncology</i> , 2021, 6, 100677.	1.2	9
61	Preclinical Testing of Vaccines and Therapeutics for Gonorrhea in Female Mouse Models of Lower and Upper Reproductive Tract Infection. <i>Journal of Infectious Diseases</i> , 2021, 224, S152-S160.	4.0	8
62	Impact of early life exposure to ionizing radiation on influenza vaccine response in an elderly Japanese cohort. <i>Vaccine</i> , 2018, 36, 6650-6659.	3.8	7
63	Identification of Novel Mast Cell Activators Using Cell-Based High-Throughput Screening. <i>SLAS Discovery</i> , 2019, 24, 628-640.	2.7	7
64	Early age-related atrophy of cutaneous lymph nodes precipitates an early functional decline in skin immunity in mice with aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121028119.	7.1	7
65	A Virion-Based Combination Vaccine Protects against Influenza and SARS-CoV-2 Disease in Mice. <i>Journal of Virology</i> , 2022, 96, .	3.4	7
66	Population Distributions of Thymic Function in Adults: Variation by Sociodemographic Characteristics and Health Status. <i>Biodemography and Social Biology</i> , 2016, 62, 208-221.	1.0	6
67	Radiation- and Age-Associated Changes in Peripheral Blood Dendritic Cell Populations among Aging Atomic Bomb Survivors in Japan. <i>Radiation Research</i> , 2017, 189, 84.	1.5	6
68	Modified Vaccinia Ankara Virus Vaccination Provides Long-Term Protection against Nasal Rabbitpox Virus Challenge. <i>Vaccine Journal</i> , 2016, 23, 648-651.	3.1	4
69	Transcriptional Profiling of Non-Human Primate Lymphoid Organ Responses to Total-Body Irradiation. <i>Radiation Research</i> , 2019, 192, 40.	1.5	4
70	Cervicovaginal Microbiota Predicts Neisseria gonorrhoeae Clinical Presentation. <i>Frontiers in Microbiology</i> , 2021, 12, 790531.	3.5	4
71	T cell-depleted cultured pediatric thymus tissue as a model for some aspects of human age-related thymus involution. <i>GeroScience</i> , 2021, 43, 1369-1382.	4.6	2
72	Can the thymus win the battle against drug-resistant HIV?. <i>Nature Medicine</i> , 2001, 7, 661-662.	30.7	1

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73	OO1.6â€¦Meningococcal vesicle vaccines deleted for major outer membrane proteins enhance gonococcal clearance in a murine model. , 2019, , .		0
74	Intrathymic Role for Leptin in the Prevention of Thymic Atrophy. FASEB Journal, 2008, 22, 845.4.	0.5	0
75	Radiation- and Age-Associated Changes in Peripheral Blood Dendritic Cell Populations among Aging Atomic Bomb Survivors in Japan. Radiation Research, 2017, , .	1.5	0
76	-Deficient Mice Exhibit Cytokine-Related Transcriptomic Signatures. ImmunoHorizons, 2020, 4, 713-728.	1.8	0
77	Title is missing!. , 2020, 16, e1008602.		0
78	Title is missing!. , 2020, 16, e1008602.		0
79	Title is missing!. , 2020, 16, e1008602.		0
80	Title is missing!. , 2020, 16, e1008602.		0