

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	SARS-CoV-2 Neutralizing Antibodies for COVID-19 Prevention and Treatment. Annual Review of Medicine, 2022, 73, 1-16.	12.2	91
2	Meningococcal Detoxified Outer Membrane Vesicle Vaccines Enhance Gonococcal Clearance in a Murine Infection Model. Journal of Infectious Diseases, 2022, 225, 650-660.	4.0	15
3	A broadly cross-reactive antibody neutralizes and protects against sarbecovirus challenge in mice. Science Translational Medicine, 2022, 14, eabj7125.	12.4	93
4	Development of mRNA manufacturing for vaccines and therapeutics: mRNA platform requirements and development of a scalable production process to support early phase clinical trials. Translational Research, 2022, 242, 38-55.	5.0	41
5	Structural diversity of the SARS-CoV-2 Omicron spike. Molecular Cell, 2022, 82, 2050-2068.e6.	9.7	125
6	Early age-related atrophy of cutaneous lymph nodes precipitates an early functional decline in skin immunity in mice with aging. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121028119.	7.1	7
7	STING agonist-containing microparticles improve seasonal influenza vaccine efficacy and durability in ferrets over standard adjuvant. Journal of Controlled Release, 2022, 347, 356-368.	9.9	13
8	A Virion-Based Combination Vaccine Protects against Influenza and SARS-CoV-2 Disease in Mice. Journal of Virology, 2022, 96, .	3.4	7
9	T cell-depleted cultured pediatric thymus tissue as a model for some aspects of human age-related thymus involution. GeroScience, 2021, 43, 1369-1382.	4.6	2
10	Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. Nature, 2021, 594, 553-559.	27.8	199
11	Fab-dimerized glycan-reactive antibodies are a structural category of natural antibodies. Cell, 2021, 184, 2955-2972.e25.	28.9	57
12	Differential immune imprinting by influenza virus vaccination and infection in nonhuman primates. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
13	Mucosal-associated invariant T cell responses differ by sex in COVID-19. Med, 2021, 2, 755-772.e5.	4.4	24
14	Multiplexed, quantitative serological profiling of COVID-19 from blood by a point-of-care test. Science Advances, 2021, 7, .	10.3	42
15	In vitro and in vivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. Cell, 2021, 184, 4203-4219.e32.	28.9	228
16	Preclinical Testing of Vaccines and Therapeutics for Gonorrhea in Female Mouse Models of Lower and Upper Reproductive Tract Infection. Journal of Infectious Diseases, 2021, 224, S152-S160.	4.0	8
17	Long-Term Recovery of the Adaptive Immune System in Rhesus Macaques After Total Body Irradiation. Advances in Radiation Oncology, 2021, 6, 100677.	1.2	9
18	Cold sensitivity of the SARS-CoV-2 spike ectodomain. Nature Structural and Molecular Biology, 2021, 28, 128-131.	8.2	65

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19	Altering the Immunogenicity of Hemagglutinin Immunogens by Hyperglycosylation and Disulfide Stabilization. <i>Frontiers in Immunology</i> , 2021, 12, 737973.	4.8	11
20	Rapid test to assess the escape of SARS-CoV-2 variants of concern. <i>Science Advances</i> , 2021, 7, eabl7682.	10.3	21
21	Cervicovaginal Microbiota Predicts <i>Neisseria gonorrhoeae</i> Clinical Presentation. <i>Frontiers in Microbiology</i> , 2021, 12, 790531.	3.5	4
22	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
23	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
24	Multi-omics analyses of radiation survivors identify radioprotective microbes and metabolites. <i>Science</i> , 2020, 370, .	12.6	260
25	Pandemic Preparedness: Developing Vaccines and Therapeutic Antibodies For COVID-19. <i>Cell</i> , 2020, 181, 1458-1463.	28.9	92
26	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
27	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
28	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
29	-Deficient Mice Exhibit Cytokine-Related Transcriptomic Signatures. <i>ImmunoHorizons</i> , 2020, 4, 713-728.	1.8	0
30	Title is missing!. , 2020, 16, e1008602.		0
31	Title is missing!. , 2020, 16, e1008602.		0
32	Title is missing!. , 2020, 16, e1008602.		0
33	Title is missing!. , 2020, 16, e1008602.		0
34	Transcriptional Profiling of Non-Human Primate Lymphoid Organ Responses to Total-Body Irradiation. <i>Radiation Research</i> , 2019, 192, 40.	1.5	4
35	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
36	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

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37	Identification of Novel Mast Cell Activators Using Cell-Based High-Throughput Screening. <i>SLAS Discovery</i> , 2019, 24, 628-640.	2.7	7
38	Nasal peanut+ CpG immunotherapy enhances peanut-specific $\text{IFN}\gamma$ 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
39	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
40	O01.6...Meningococcal vesicle vaccines deleted for major outer membrane proteins enhance gonococcal clearance in a murine model. , 2019, , .		0
41	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
42	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
43	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
44	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
45	Acetalated Dextran Microparticles for Codelivery of STING and TLR7/8 Agonists. <i>Molecular Pharmaceutics</i> , 2018, 15, 4933-4946.	4.6	64
46	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
47	Zika virus protection by a single low-dose nucleoside-modified mRNA vaccination. <i>Nature</i> , 2017, 543, 248-251.	27.8	699
48	Innate Immune Cell Recovery Is Positively Regulated by NLRP12 during Emergency Hematopoiesis. <i>Journal of Immunology</i> , 2017, 198, 2426-2433.	0.8	18
49	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
50	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
51	The Toll-Like Receptor 2/6 Agonist, FSL1 Lipopeptide, Therapeutically Mitigates Acute Radiation Syndrome. <i>Scientific Reports</i> , 2017, 7, 17355.	3.3	24
52	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
53	Radiation- and Age-Associated Changes in Peripheral Blood Dendritic Cell Populations among Aging Atomic Bomb Survivors in Japan. <i>Radiation Research</i> , 2017, , .	1.5	0
54	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

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55	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
56	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
57	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
58	Immunization with the <i>Haemophilus ducreyi</i> 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
59	Regulation of T cell function by microRNA-720. <i>Scientific Reports</i> , 2015, 5, 12159.	3.3	20
60	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
61	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
62	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
63	Histone Deacetylation Critically Determines T Cell Subset Radiosensitivity. <i>Journal of Immunology</i> , 2014, 193, 1451-1458.	0.8	27
64	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
65	The <i>Haemophilus ducreyi</i> 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
66	Radiation Combined With Thermal Injury Induces Immature Myeloid Cells. <i>Shock</i> , 2012, 38, 532-542.	2.1	18
67	Changes in primary lymphoid organs with aging. <i>Seminars in Immunology</i> , 2012, 24, 309-320.	5.6	238
68	<i>Neisseria gonorrhoeae</i> Suppresses Dendritic Cell-Induced, Antigen-Dependent CD4 T Cell Proliferation. <i>PLoS ONE</i> , 2012, 7, e41260.	2.5	43
69	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
70	Intrathymic Role for Leptin in the Prevention of Thymic Atrophy. <i>FASEB Journal</i> , 2008, 22, 845.4.	0.5	0
71	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
72	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

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73	Immune Reconstitution in Patients with HIV Infection. <i>Annual Review of Medicine</i> , 2002, 53, 269-284.	12.2	47
74	T cell receptor excision circle assessment of thymopoiesis in aging mice. <i>Molecular Immunology</i> , 2002, 38, 841-848.	2.2	189
75	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
76	Thymopoiesis in HIV-Infected Adults after Highly Active Antiretroviral Therapy. <i>AIDS Research and Human Retroviruses</i> , 2001, 17, 1635-1643.	1.1	45
77	Can the thymus win the battle against drug-resistant HIV?. <i>Nature Medicine</i> , 2001, 7, 661-662.	30.7	1
78	Inactivation of <i>Lrg-47</i> and <i>Irg-47</i> Reveals a Family of Interferon γ -Inducible Genes with Essential, Pathogen-Specific Roles in Resistance to Infection. <i>Journal of Experimental Medicine</i> , 2001, 194, 181-188.	8.5	311
79	The Human Thymus During Aging. <i>Immunologic Research</i> , 2000, 22, 253-262.	2.9	133
80	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