## George N Pavlakis

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4323996/publications.pdf

Version: 2024-02-01

92 papers 5,487 citations

76196 40 h-index 71 g-index

95 all docs 95
docs citations

95 times ranked 6489 citing authors

#	Article	IF	CITATIONS
1	Improved DNA: liposome complexes for increased systemic delivery and gene expression. Nature Biotechnology, 1997, 15, 647-652.	9.4	737
2	Efficient production and enhanced tumor delivery of engineered extracellular vesicles. Biomaterials, 2016, 105, 195-205.	5 <b>.</b> 7	286
3	Labeling Extracellular Vesicles for Nanoscale Flow Cytometry. Scientific Reports, 2017, 7, 1878.	1.6	260
4	Mosaic vaccines elicit CD8+ T lymphocyte responses that confer enhanced immune coverage of diverse HIV strains in monkeys. Nature Medicine, 2010, 16, 324-328.	15.2	211
5	Effect of Plasmid DNA Vaccine Design and In Vivo Electroporation on the Resulting Vaccine-Specific Immune Responses in Rhesus Macaques. Journal of Virology, 2007, 81, 5257-5269.	1.5	187
6	Circulating IL-15 exists as heterodimeric complex with soluble IL-15Rα in human and mouse serum. Blood, 2012, 120, e1-e8.	0.6	156
7	Intracellular Interaction of Interleukin-15 with Its Receptor α during Production Leads to Mutual Stabilization and Increased Bioactivity. Journal of Biological Chemistry, 2008, 283, 4189-4199.	1.6	151
8	Containment of Simian Immunodeficiency Virus Infection in Vaccinated Macaques: Correlation with the Magnitude of Virus-Specific Pre- and Postchallenge CD4+and CD8+T Cell Responses. Journal of Immunology, 2002, 169, 4778-4787.	0.4	150
9	Systemic IL-15, IFN-γ, and IP-10/CXCL10 signature associated with effective immune response to SARS-CoV-2 in BNT162b2 mRNA vaccine recipients. Cell Reports, 2021, 36, 109504.	2.9	137
10	CTL Responses of High Functional Avidity and Broad Variant Cross-Reactivity Are Associated with HIV Control. PLoS ONE, 2012, 7, e29717.	1.1	117
11	Scalable, cGMPâ€compatible purification of extracellular vesicles carrying bioactive human heterodimeric ILâ€15/lactadherin complexes. Journal of Extracellular Vesicles, 2018, 7, 1442088.	5.5	106
12	DNA Vaccines Expressing Different Forms of Simian Immunodeficiency Virus Antigens Decrease Viremia upon SIVmac251 Challenge. Journal of Virology, 2005, 79, 8480-8492.	1.5	93
13	Potentiation of Simian Immunodeficiency Virus (SIV)-Specific CD4+ and CD8+ T Cell Responses by a DNA-SIV and NYVAC-SIV Prime/Boost Regimen. Journal of Immunology, 2001, 167, 7180-7191.	0.4	89
14	Comparative ability of plasmid IL-12 and IL-15 to enhance cellular and humoral immune responses elicited by a SIVgag plasmid DNA vaccine and alter disease progression following SHIV89.6P challenge in rhesus macaques. Vaccine, 2007, 25, 4967-4982.	1.7	89
15	Increased immune responses in rhesus macaques by DNA vaccination combined with electroporation. Vaccine, 2008, 26, 5223-5229.	1.7	88
16	Characterization and Favorable in Vivo Properties of Heterodimeric Soluble IL-15·IL-15Rα Cytokine Compared to IL-15 Monomer*. Journal of Biological Chemistry, 2013, 288, 18093-18103.	1.6	88
17	Protection against simian/human immunodeficiency virus (SHIV) 89.6P in macaques after coimmunization with SHIV antigen and IL-15 plasmid. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18648-18653.	3.3	86
18	A human immune data-informed vaccine concept elicits strong and broad T-cell specificities associated with HIV-1 control in mice and macaques. Journal of Translational Medicine, 2015, 13, 60.	1.8	84

#	Article	IF	Citations
19	Therapeutic Vaccination with Simian Immunodeficiency Virus (SIV)-DNA+IL-12 or IL-15 Induces Distinct CD8 Memory Subsets in SIV-Infected Macaques. Journal of Immunology, 2008, 180, 7969-7979.	0.4	74
20	DNA and virus particle vaccination protects against acquisition and confers control of viremia upon heterologous simian immunodeficiency virus challenge. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2975-2980.	3.3	71
21	A dose sparing effect by plasmid encoded IL-12 adjuvant on a SIVgag-plasmid DNA vaccine in rhesus macaques. Vaccine, 2006, 24, 4677-4687.	1.7	70
22	The p40 Subunit of Interleukin (IL)-12 Promotes Stabilization and Export of the p35 Subunit. Journal of Biological Chemistry, 2013, 288, 6763-6776.	1.6	70
23	Heterodimeric IL-15 delays tumor growth and promotes intratumoral CTL and dendritic cell accumulation by a cytokine network involving XCL1, IFN-γ, CXCL9 and CXCL10. , 2020, 8, e000599.		69
24	IL-12 DNA as molecular vaccine adjuvant increases the cytotoxic T cell responses and breadth of humoral immune responses in SIV DNA vaccinated macaques. Human Vaccines and Immunotherapeutics, 2012, 8, 1620-1629.	1.4	67
25	Enhanced Control of Pathogenic Simian Immunodeficiency Virus SIVmac239 Replication in Macaques Immunized with an Interleukin-12 Plasmid and a DNA Prime-Viral Vector Boost Vaccine Regimen. Journal of Virology, 2011, 85, 9578-9587.	1.5	63
26	Treatment with native heterodimeric IL-15 increases cytotoxic lymphocytes and reduces SHIV RNA in lymph nodes. PLoS Pathogens, 2018, 14, e1006902.	2.1	62
27	Improved Vaccine Protection from Simian AIDS by the Addition of Nonstructural Simian Immunodeficiency Virus Genes. Journal of Immunology, 2006, 176, 85-96.	0.4	61
28	DNA vaccination in rhesus macaques induces potent immune responses and decreases acute and chronic viremia after SIVmac251 challenge. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15831-15836.	3.3	61
29	HIV/SIV DNA vaccine combined with protein in a co-immunization protocol elicits highest humoral responses to envelope in mice and macaques. Vaccine, 2013, 31, 3747-3755.	1.7	61
30	SIVmac239 MVA vaccine with and without a DNA prime, similar prevention of infection by a repeated dose SIVsmE660 challenge despite different immune responses. Vaccine, 2012, 30, 1737-1745.	1.7	60
31	Long-lasting humoral and cellular immune responses and mucosal dissemination after intramuscular DNA immunization. Vaccine, 2010, 28, 4827-4836.	1.7	59
32	Potent, Persistent Induction and Modulation of Cellular Immune Responses in Rhesus Macaques Primed with Ad5hr-Simian Immunodeficiency Virus (SIV) env/rev , gag , and/or nef Vaccines and Boosted with SIV gp120. Journal of Virology, 2003, 77, 8607-8620.	1.5	57
33	Ability of herpes simplex virus vectors to boost immune responses to DNA vectors and to protect against challenge by simian immunodeficiency virus. Virology, 2007, 357, 199-214.	1.1	54
34	SARS-CoV-2 antibody kinetics eight months from COVID-19 onset: Persistence of spike antibodies but loss of neutralizing antibodies in 24% of convalescent plasma donors. European Journal of Internal Medicine, 2021, 89, 87-96.	1.0	53
35	Protection Afforded by an HIV Vaccine Candidate in Macaques Depends on the Dose of SIV <sub>mac251</sub> at Challenge Exposure. Journal of Virology, 2013, 87, 3538-3548.	1.5	52
36	Altered Response Hierarchy and Increased T-Cell Breadth upon HIV-1 Conserved Element DNA Vaccination in Macaques. PLoS ONE, 2014, 9, e86254.	1.1	47

3

#	Article	IF	Citations
37	Boosting of SIV-specific immune responses in rhesus macaques by repeated administration of Ad5hr–SIVenv/rev and Ad5hr–SIVgag recombinants. Vaccine, 2003, 21, 4022-4035.	1.7	45
38	Secretion and Biological Activity of Short Signal Peptide IL-15 Is Chaperoned by IL-15 Receptor Alpha In Vivo. Journal of Immunology, 2009, 183, 3064-3072.	0.4	44
39	HIV-1 p24gag Derived Conserved Element DNA Vaccine Increases the Breadth of Immune Response in Mice. PLoS ONE, 2013, 8, e60245.	1.1	44
40	Co-immunization of DNA and Protein in the Same Anatomical Sites Induces Superior Protective Immune Responses against SHIV Challenge. Cell Reports, 2020, 31, 107624.	2.9	43
41	Long-Lasting Decrease in Viremia in Macaques Chronically Infected with Simian Immunodeficiency Virus SIVmac251 after Therapeutic DNA Immunization. Journal of Virology, 2007, 81, 1972-1979.	1.5	42
42	DNA and Protein Co-Immunization Improves the Magnitude and Longevity of Humoral Immune Responses in Macaques. PLoS ONE, 2014, 9, e91550.	1.1	42
43	Vaccine-Induced Linear Epitope-Specific Antibodies to Simian Immunodeficiency Virus SIVmac239 Envelope Are Distinct from Those Induced to the Human Immunodeficiency Virus Type 1 Envelope in Nonhuman Primates. Journal of Virology, 2015, 89, 8643-8650.	1.5	42
44	The Emerging Role of Convalescent Plasma in the Treatment of COVIDâ€19. HemaSphere, 2020, 4, e409.	1.2	42
45	Control of Heterologous Simian Immunodeficiency Virus SIV <sub>smE660</sub> Infection by DNA and Protein Coimmunization Regimens Combined with Different Toll-Like-Receptor-4-Based Adjuvants in Macaques. Journal of Virology, 2018, 92, .	1.5	39
46	Anti–SARS-CoV-2 Antibody Responses in Convalescent Plasma Donors Are Increased in Hospitalized Patients; Subanalyses of a Phase 2 Clinical Study. Microorganisms, 2020, 8, 1885.	1.6	39
47	HIV DNA Vaccine: Stepwise Improvements Make a Difference. Vaccines, 2014, 2, 354-379.	2.1	37
48	HIV-1 Conserved Elements p24CE DNA Vaccine Induces Humoral Immune Responses with Broad Epitope Recognition in Macaques. PLoS ONE, 2014, 9, e111085.	1.1	37
49	Efficient Systemic Expression of Bioactive IL-15 in Mice upon Delivery of Optimized DNA Expression Plasmids. DNA and Cell Biology, 2007, 26, 827-840.	0.9	36
50	Repeated DNA therapeutic vaccination of chronically SIV-infected macaques provides additional virological benefit. Vaccine, 2010, 28, 1962-1974.	1.7	34
51	DNA Prime-Boost Vaccine Regimen To Increase Breadth, Magnitude, and Cytotoxicity of the Cellular Immune Responses to Subdominant Gag Epitopes of Simian Immunodeficiency Virus and HIV. Journal of Immunology, 2016, 197, 3999-4013.	0.4	33
52	Heterodimeric IL15 Treatment Enhances Tumor Infiltration, Persistence, and Effector Functions of Adoptively Transferred Tumor-specific T Cells in the Absence of Lymphodepletion. Clinical Cancer Research, 2017, 23, 2817-2830.	3.2	32
53	Comparison of immune responses generated by optimized DNA vaccination against SIV antigens in mice and macaques. Vaccine, 2011, 29, 6742-6754.	1.7	28
54	Comparison of intradermal and intramuscular delivery followed by in vivo electroporation of SIV Env DNA in macaques. Human Vaccines and Immunotherapeutics, 2013, 9, 2081-2094.	1.4	26

#	Article	IF	Citations
55	Therapeutic conserved elements (CE) DNA vaccine induces strong T-cell responses against highly conserved viral sequences during simian-human immunodeficiency virus infection. Human Vaccines and Immunotherapeutics, 2018, 14, 1820-1831.	1.4	25
56	Heterodimeric IL-15 in Cancer Immunotherapy. Cancers, 2021, 13, 837.	1.7	25
57	Sequential Analysis of Binding and Neutralizing Antibody in COVID-19 Convalescent Patients at 14 Months After SARS-CoV-2 Infection. Frontiers in Immunology, 2021, 12, 793953.	2.2	25
58	Preclinical evaluation of HIV-1 therapeutic ex vivo dendritic cell vaccines expressing consensus Gag antigens and conserved Gag epitopes. Vaccine, 2011, 29, 2110-2119.	1.7	24
59	Comparative analysis of SIV-specific cellular immune responses induced by different vaccine platforms in rhesus macaques. Clinical Immunology, 2014, 155, 91-107.	1.4	24
60	Posttranscriptional Control of HIV $\hat{a}\in \mathbb{I}$ and Other Retroviruses and Its Practical Applications. Advances in Pharmacology, 2007, 55, 161-197.	1.2	23
61	Optimized administration of hetIL-15 expands lymphocytes and minimizes toxicity in rhesus macaques. Cytokine, 2018, 108, 213-224.	1.4	23
62	Phase I study of single agent NIZ985, a recombinant heterodimeric IL-15 agonist, in adult patients with metastatic or unresectable solid tumors., 2021, 9, e003388.		23
63	Emergence of Simian Immunodeficiency Virus-Specific Cytotoxic CD4+T Cells and Increased Humoral Responses Correlate with Control of Rebounding Viremia in CD8-Depleted Macaques Infected with Rev-Independent Live-Attenuated Simian Immunodeficiency Virus. Journal of Immunology, 2010, 185, 3348-3358.	0.4	22
64	Immunogenicity Testing of a Novel Engineered HIV-1 Envelope Gp140 DNA Vaccine Construct. DNA and Cell Biology, 2006, 25, 383-392.	0.9	21
65	Gp96SIVIg immunization induces potent polyepitope specific, multifunctional memory responses in rectal and vaginal mucosa. Vaccine, 2011, 29, 2619-2625.	1.7	20
66	Humoral immunity induced by mucosal and/or systemic SIV-specific vaccine platforms suggests novel combinatorial approaches for enhancing responses. Clinical Immunology, 2014, 153, 308-322.	1.4	20
67	Comparison of DNA vaccines producing HIV-1 Gag and LAMP/Gag chimera in rhesus macaques reveals antigen-specific T-cell responses with distinct phenotypes. Vaccine, 2009, 27, 4840-4849.	1.7	19
68	Early T Follicular Helper Cell Responses and Germinal Center Reactions Are Associated with Viremia Control in Immunized Rhesus Macaques. Journal of Virology, 2019, 93, .	1.5	19
69	Interleukin-15 response signature predicts RhCMV/SIV vaccine efficacy. PLoS Pathogens, 2021, 17, e1009278.	2.1	18
70	Differential effects of IL-15 on the generation, maintenance and cytotoxic potential of adaptive cellular responses induced by DNA vaccination. Vaccine, 2015, 33, 1188-1196.	1.7	17
71	HIV Env conserved element DNA vaccine alters immunodominance in macaques. Human Vaccines and Immunotherapeutics, 2017, 13, 2859-2871.	1.4	17
72	Live attenuated rubella vectors expressing SIV and HIV vaccine antigens replicate and elicit durable immune responses in rhesus macaques. Retrovirology, 2013, 10, 99.	0.9	15

#	Article	IF	Citations
73	Gag and env conserved element CE DNA vaccines elicit broad cytotoxic T cell responses targeting subdominant epitopes of HIV and SIV Able to recognize virus-infected cells in macaques. Human Vaccines and Immunotherapeutics, 2018, 14, 2163-2177.	1.4	14
74	Vaccination with Vaxfectin $\langle \sup \rangle \hat{A}^{\otimes} \langle   \sup \rangle$ adjuvanted SIV DNA induces long-lasting humoral immune responses able to reduce SIVmac251 Viremia. Human Vaccines and Immunotherapeutics, 2013, 9, 2069-2080.	1.4	12
75	DNA is an efficient booster of dendritic cell-based vaccine. Human Vaccines and Immunotherapeutics, 2015, 11, 1927-1935.	1.4	12
76	DNA Vaccine–Induced Long-Lasting Cytotoxic T Cells Targeting Conserved Elements of Human Immunodeficiency Virus Gag Are Boosted Upon DNA or Recombinant Modified Vaccinia Ankara Vaccination. Human Gene Therapy, 2018, 29, 1029-1043.	1.4	12
77	A Phase II Study on the Use of Convalescent Plasma for the Treatment of Severe COVID-19- A Propensity Score-Matched Control Analysis. Microorganisms, 2021, 9, 806.	1.6	12
78	Control of SARS-CoV-2 infection after Spike DNA or Spike DNA+Protein co-immunization in rhesus macaques. PLoS Pathogens, 2021, 17, e1009701.	2.1	12
79	Distinct neutralization profile of spike variants by antibodies induced upon <scp>SARS oV</scp> â€2 infection or vaccination. American Journal of Hematology, 2022, 97, E3.	2.0	12
80	Dose-dependent inhibition of Gag cellular immunity by Env in SIV/HIV DNA vaccinated macaques. Human Vaccines and Immunotherapeutics, $2015$ , $11$ , $2005$ - $2011$ .	1.4	11
81	DNA vaccination by intradermal electroporation induces longâ€lasting immune responses in rhesus macaques. Journal of Medical Primatology, 2014, 43, 329-340.	0.3	10
82	Evaluation of chimeric antigen receptor T cell therapy in non-human primates infected with SHIV or SIV. PLoS ONE, 2021, 16, e0248973.	1.1	10
83	Improved flow-based method for HIV/SIV envelope-specific memory B-cell evaluation in rhesus macaques. Journal of Immunological Methods, 2014, 412, 78-84.	0.6	9
84	Recombinant rubella vectors elicit SIV Gag-specific T cell responses with cytotoxic potential in rhesus macaques. Vaccine, 2015, 33, 2167-2174.	1.7	9
85	A new step towards an HIV/AIDS vaccine. Lancet, The, 2018, 392, 192-194.	6.3	9
86	Long Lasting Control and Lack of Pathogenicity of the Attenuated Rev-Independent SIV in Rhesus Macaques. AIDS Research and Human Retroviruses, 2006, 22, 516-528.	0.5	8
87	Reduced Antibodies and Innate Cytokine Changes in SARS-CoV-2 BNT162b2 mRNA Vaccinated Transplant Patients With Hematological Malignancies. Frontiers in Immunology, 2022, 13, .	2.2	8
88	SIV antigen-specific effects on immune responses induced by vaccination with DNA electroporation and plasmid IL-12. Vaccine, 2013, 31, 4749-4758.	1.7	7
89	A Prime/Boost Vaccine Regimen Alters the Rectal Microbiome and Impacts Immune Responses and Viremia Control Post-Simian Immunodeficiency Virus Infection in Male and Female Rhesus Macaques. Journal of Virology, 2020, 94, .	1.5	7
90	Priming with DNA Expressing Trimeric HIV V1V2 Alters the Immune Hierarchy Favoring the Development of V2-Specific Antibodies in Rhesus Macaques. Journal of Virology, 2020, 95, .	1.5	5

#	Article	lF	CITATIONS
91	Kinetics of Nucleocapsid, Spike and Neutralizing Antibodies, and Viral Load in Patients with Severe COVID-19 Treated with Convalescent Plasma. Viruses, 2021, 13, 1844.	1.5	5
92	Evaluating the effects of second-dose vaccine-delay policies in European countries: A simulation study based on data from Greece. PLoS ONE, 2022, 17, e0263977.	1.1	5