

# David A Zaharoff

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,884  
citations

279701

23  
h-index

265120

42  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2396  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chitosan solution enhances both humoral and cell-mediated immune responses to subcutaneous vaccination. <i>Vaccine</i> , 2007, 25, 2085-2094.	1.7	289
2	Localized Interleukin-12 for Cancer Immunotherapy. <i>Frontiers in Immunology</i> , 2020, 11, 575597.	2.2	210
3	Controlling chitosan-based encapsulation for protein and vaccine delivery. <i>Biomaterials</i> , 2014, 35, 4382-4389.	5.7	130
4	The effect of antigen encapsulation in chitosan particles on uptake, activation and presentation by antigen presenting cells. <i>Biomaterials</i> , 2013, 34, 2359-2369.	5.7	110
5	Intravesical Immunotherapy of Superficial Bladder Cancer with Chitosan/Interleukin-12. <i>Cancer Research</i> , 2009, 69, 6192-6199.	0.4	97
6	Electromobility of plasmid DNA in tumor tissues during electric field-mediated gene delivery. <i>Gene Therapy</i> , 2002, 9, 1286-1290.	2.3	84
7	Intratumoral Immunotherapy of Established Solid Tumors With Chitosan/IL-12. <i>Journal of Immunotherapy</i> , 2010, 33, 697-705.	1.2	79
8	Nanotheranostics of Circulating Tumor Cells, Infections and Other Pathological Features <i>in Vivo</i> . <i>Molecular Pharmaceutics</i> , 2013, 10, 813-830.	2.3	59
9	Chitosan solution enhances the immunoadjuvant properties of GM-CSF. <i>Vaccine</i> , 2007, 25, 8673-8686.	1.7	53
10	In vivo efficacy of a chitosan/IL-12 adjuvant system for protein-based vaccines. <i>Biomaterials</i> , 2011, 32, 926-932.	5.7	51
11	Nonlinear Dependence of Hydraulic Conductivity on Tissue Deformation During Intratumoral Infusion. <i>Annals of Biomedical Engineering</i> , 2006, 34, 1173-1181.	1.3	48
12	Mechanistic Analysis of Electroporation-Induced Cellular Uptake of Macromolecules. <i>Experimental Biology and Medicine</i> , 2008, 233, 94-105.	1.1	48
13	Effect of Chitosan Properties on Immunoreactivity. <i>Marine Drugs</i> , 2016, 14, 91.	2.2	42
14	Energy Restriction and Exercise Differentially Enhance Components of Systemic and Mucosal Immunity in Mice. <i>Journal of Nutrition</i> , 2008, 138, 115-122.	1.3	40
15	Intravesical chitosan/interleukin-12 immunotherapy induces tumor-specific systemic immunity against murine bladder cancer. <i>Cancer Immunology, Immunotherapy</i> , 2015, 64, 689-696.	2.0	37
16	Exercise enhances vaccine-induced antigen-specific T cell responses. <i>Vaccine</i> , 2008, 26, 5407-5415.	1.7	33
17	Neoadjuvant immunotherapy with chitosan and interleukin-12 to control breast cancer metastasis. <i>Oncolimmunology</i> , 2014, 3, e968001.	2.1	32
18	The Antitumor and Immunoadjuvant Effects of IFN- $\beta$ in Combination with Recombinant Poxvirus Vaccines. <i>Clinical Cancer Research</i> , 2009, 15, 2387-2396.	3.2	29

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19	Immunological mechanisms of intravesical chitosan/interleukin-12 immunotherapy against murine bladder cancer. <i>Oncimmunology</i> , 2017, 6, e1259050.	2.1	29
20	Effects of pulse strength and pulse duration on in vitro DNA electromobility. <i>Bioelectrochemistry</i> , 2004, 62, 37-45.	2.4	27
21	Accelerated Immune Response to DNA Vaccines. <i>DNA and Cell Biology</i> , 2003, 22, 815-822.	0.9	26
22	Electric Fields in Tumors Exposed to External Voltage Sources: Implication for Electric Field-Mediated Drug and Gene Delivery. <i>Annals of Biomedical Engineering</i> , 2006, 34, 1564-1572.	1.3	26
23	Tumor-derived granulocyte colony-stimulating factor diminishes efficacy of breast tumor cell vaccines. <i>Breast Cancer Research</i> , 2018, 20, 126.	2.2	25
24	Electric field-mediated transport of plasmid DNA in tumor interstitium in vivo. <i>Bioelectrochemistry</i> , 2007, 71, 233-242.	2.4	24
25	Role of chitosan co-formulation in enhancing interleukin-12 delivery and antitumor activity. <i>Biomaterials</i> , 2013, 34, 3828-3836.	5.7	23
26	Modulation of Interleukin-12 activity in the presence of heparin. <i>Scientific Reports</i> , 2017, 7, 5360.	1.6	23
27	Molecular mechanisms of heparin-induced modulation of human interleukin 12 bioactivity. <i>Journal of Biological Chemistry</i> , 2019, 294, 4412-4424.	1.6	23
28	Electric Fields Within Cells as a Function of Membrane Resistivity—A Model Study. <i>IEEE Transactions on Nanobioscience</i> , 2004, 3, 225-231.	2.2	21
29	Future directions in bladder cancer immunotherapy: towards adaptive immunity. <i>Immunotherapy</i> , 2016, 8, 351-365.	1.0	21
30	Current status of autologous breast tumor cell-based vaccines. <i>Expert Review of Vaccines</i> , 2014, 13, 1439-1445.	2.0	19
31	Efficient production and purification of recombinant human interleukin-12 (IL-12) overexpressed in mammalian cells without affinity tag. <i>Protein Expression and Purification</i> , 2014, 102, 76-84.	0.6	19
32	Ultrasound-Stimulated Phase-Change Contrast Agents for Transepithelial Delivery of Macromolecules, Toward Gastrointestinal Drug Delivery. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 1762-1776.	0.7	17
33	Construction of heparan sulfate microarray for investigating the binding of specific saccharide sequences to proteins. <i>Glycobiology</i> , 2021, 31, 188-199.	1.3	16
34	A single molecule detection method for understanding mechanisms of electric field-mediated interstitial transport of genes. <i>Bioelectrochemistry</i> , 2006, 69, 248-253.	2.4	13
35	Targeted Delivery of Murine IFN- $\gamma$ Using a Recombinant Fowlpox Virus: NK Cell Recruitment to Regional Lymph Nodes and Priming of Tumor-Specific Host Immunity. <i>Journal of Interferon and Cytokine Research</i> , 2008, 28, 73-87.	0.5	13
36	Engineering Opportunities in Cancer Immunotherapy: After Decades of Missteps and Delays, a Growing Immune-Oncology Market and Improved Cancer Treatment Outcomes Open New Prospects for Biomedical Engineers and Data Scientists. <i>IEEE Pulse</i> , 2018, 9, 8-11.	0.1	8

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37	Design of a thrombin resistant human acidic fibroblast growth factor (hFGF1) variant that exhibits enhanced cell proliferation activity. Biochemical and Biophysical Research Communications, 2019, 518, 191-196.	1.0	8
38	Effect of extension of the heparin binding pocket on the structure, stability, and cell proliferation activity of the human acidic fibroblast growth factor. Biochemistry and Biophysics Reports, 2018, 13, 45-57.	0.7	7
39	Probing the role of proline $\hat{\sim}$ 135 on the structure, stability, and cell proliferation activity of human acidic fibroblast growth factor. Archives of Biochemistry and Biophysics, 2018, 654, 115-125.	1.4	7
40	Intranasal Delivery of Thermostable Subunit Vaccine for Cross-Reactive Mucosal and Systemic Antibody Responses Against SARS-CoV-2. Frontiers in Immunology, 2022, 13, 858904.	2.2	5
41	Flow-Encoded Oxygen Control to Track the Time-Dependence of Molecular Changes Induced by Static or Cycling Hypoxia. Analytical Chemistry, 2019, 91, 15032-15039.	3.2	4
42	Analyzing the effects of instillation volume on intravesical delivery using biphasic solute transport in a deformable geometry. Mathematical Medicine and Biology, 2019, 36, 139-156.	0.8	3
43	Interstitial transport of macromolecules. , 0, , 434-454.		3
44	Safety and Pharmacokinetics of Intravesical Chitosan/Interleukin-12 Immunotherapy in Murine Bladders. Bladder Cancer, 2021, , 1-11.	0.2	2
45	Strategic Directions in Immunoresponsive Biomaterials in Tissue Engineering<sup />. Tissue Engineering - Part A, 2017, 23, 1042-1043.	1.6	1
46	583 INTRAVESICAL IMMUNOTHERAPY WITH CHITOSAN AND INTERLEUKIN-12 INDUCES SYSTEMIC TUMOR-SPECIFIC IMMUNITY. Journal of Urology, 2013, 189, .	0.2	0
47	Abstract B144: Obesity-induced impairments in innate and adaptive immune responses are differentially altered by exercise and dietary restriction.. , 2008, , .		0
48	Abstract 1224: Intratumoral chitosan/IL-12 neoadjuvant to tumor resection is safe and generates tumor specific immunity.. , 2013, , .		0