

# David A Zaharoff

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

1,884  
citations

279798

23  
h-index

254184

43  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2396  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intranasal Delivery of Thermostable Subunit Vaccine for Cross-Reactive Mucosal and Systemic Antibody Responses Against SARS-CoV-2. <i>Frontiers in Immunology</i> , 2022, 13, 858904.	4.8	5
2	Construction of heparan sulfate microarray for investigating the binding of specific saccharide sequences to proteins. <i>Glycobiology</i> , 2021, 31, 188-199.	2.5	16
3	Safety and Pharmacokinetics of Intravesical Chitosan/Interleukin-12 Immunotherapy in Murine Bladders. <i>Bladder Cancer</i> , 2021, , 1-11.	0.4	2
4	Localized Interleukin-12 for Cancer Immunotherapy. <i>Frontiers in Immunology</i> , 2020, 11, 575597.	4.8	210
5	Flow-Encoded Oxygen Control to Track the Time-Dependence of Molecular Changes Induced by Static or Cycling Hypoxia. <i>Analytical Chemistry</i> , 2019, 91, 15032-15039.	6.5	4
6	Design of a thrombin resistant human acidic fibroblast growth factor (hFGF1) variant that exhibits enhanced cell proliferation activity. <i>Biochemical and Biophysical Research Communications</i> , 2019, 518, 191-196.	2.1	8
7	Molecular mechanisms of heparin-induced modulation of human interleukin 12 bioactivity. <i>Journal of Biological Chemistry</i> , 2019, 294, 4412-4424.	3.4	23
8	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.	1.5	17
9	Analyzing the effects of instillation volume on intravesical delivery using biphasic solute transport in a deformable geometry. <i>Mathematical Medicine and Biology</i> , 2019, 36, 139-156.	1.2	3
10	Effect of extension of the heparin binding pocket on the structure, stability, and cell proliferation activity of the human acidic fibroblast growth factor. <i>Biochemistry and Biophysics Reports</i> , 2018, 13, 45-57.	1.3	7
11	Tumor-derived granulocyte colony-stimulating factor diminishes efficacy of breast tumor cell vaccines. <i>Breast Cancer Research</i> , 2018, 20, 126.	5.0	25
12	Probing the role of proline $\hat{\sim}$ 135 on the structure, stability, and cell proliferation activity of human acidic fibroblast growth factor. <i>Archives of Biochemistry and Biophysics</i> , 2018, 654, 115-125.	3.0	7
13	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.	0.3	8
14	Strategic Directions in Immuno-responsive Biomaterials in Tissue Engineering<sup />. <i>Tissue Engineering - Part A</i> , 2017, 23, 1042-1043.	3.1	1
15	Modulation of Interleukin-12 activity in the presence of heparin. <i>Scientific Reports</i> , 2017, 7, 5360.	3.3	23
16	Immunological mechanisms of intravesical chitosan/interleukin-12 immunotherapy against murine bladder cancer. <i>OncImmunology</i> , 2017, 6, e1259050.	4.6	29
17	Effect of Chitosan Properties on Immunoreactivity. <i>Marine Drugs</i> , 2016, 14, 91.	4.6	42
18	Future directions in bladder cancer immunotherapy: towards adaptive immunity. <i>Immunotherapy</i> , 2016, 8, 351-365.	2.0	21

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19	Intravesical chitosan/interleukin-12 immunotherapy induces tumor-specific systemic immunity against murine bladder cancer. <i>Cancer Immunology, Immunotherapy</i> , 2015, 64, 689-696.	4.2	37
20	Current status of autologous breast tumor cell-based vaccines. <i>Expert Review of Vaccines</i> , 2014, 13, 1439-1445.	4.4	19
21	Neoadjuvant immunotherapy with chitosan and interleukin-12 to control breast cancer metastasis. <i>Oncolmmunology</i> , 2014, 3, e968001.	4.6	32
22	Controlling chitosan-based encapsulation for protein and vaccine delivery. <i>Biomaterials</i> , 2014, 35, 4382-4389.	11.4	130
23	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.	1.3	19
24	583 INTRAVESICAL IMMUNOTHERAPY WITH CHITOSAN AND INTERLEUKIN-12 INDUCES SYSTEMIC TUMOR-SPECIFIC IMMUNITY. <i>Journal of Urology</i> , 2013, 189, .	0.4	0
25	Nanotheranostics of Circulating Tumor Cells, Infections and Other Pathological Features <i>in Vivo</i>. <i>Molecular Pharmaceutics</i> , 2013, 10, 813-830.	4.6	59
26	Role of chitosan co-formulation in enhancing interleukin-12 delivery and antitumor activity. <i>Biomaterials</i> , 2013, 34, 3828-3836.	11.4	23
27	The effect of antigen encapsulation in chitosan particles on uptake, activation and presentation by antigen presenting cells. <i>Biomaterials</i> , 2013, 34, 2359-2369.	11.4	110
28	Abstract 1224: Intratumoral chitosan/IL-12 neoadjuvant to tumor resection is safe and generates tumor specific immunity.. , 2013, , .		0
29	In vivo efficacy of a chitosan/IL-12 adjuvant system for protein-based vaccines. <i>Biomaterials</i> , 2011, 32, 926-932.	11.4	51
30	Intratumoral Immunotherapy of Established Solid Tumors With Chitosan/IL-12. <i>Journal of Immunotherapy</i> , 2010, 33, 697-705.	2.4	79
31	Intravesical Immunotherapy of Superficial Bladder Cancer with Chitosan/Interleukin-12. <i>Cancer Research</i> , 2009, 69, 6192-6199.	0.9	97
32	The Antitumor and Immunoadjuvant Effects of IFN- $\gamma$ in Combination with Recombinant Poxvirus Vaccines. <i>Clinical Cancer Research</i> , 2009, 15, 2387-2396.	7.0	29
33	Exercise enhances vaccine-induced antigen-specific T cell responses. <i>Vaccine</i> , 2008, 26, 5407-5415.	3.8	33
34	Mechanistic Analysis of Electroporation-Induced Cellular Uptake of Macromolecules. <i>Experimental Biology and Medicine</i> , 2008, 233, 94-105.	2.4	48
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.	1.2	13
36	Energy Restriction and Exercise Differentially Enhance Components of Systemic and Mucosal Immunity in Mice. <i>Journal of Nutrition</i> , 2008, 138, 115-122.	2.9	40

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37	Abstract B144: Obesity-induced impairments in innate and adaptive immune responses are differentially altered by exercise and dietary restriction.. , 2008, , .		0
38	Chitosan solution enhances both humoral and cell-mediated immune responses to subcutaneous vaccination. <i>Vaccine</i> , 2007, 25, 2085-2094.	3.8	289
39	Chitosan solution enhances the immunoadjuvant properties of GM-CSF. <i>Vaccine</i> , 2007, 25, 8673-8686.	3.8	53
40	Electric field-mediated transport of plasmid DNA in tumor interstitium in vivo. <i>Bioelectrochemistry</i> , 2007, 71, 233-242.	4.6	24
41	A single molecule detection method for understanding mechanisms of electric field-mediated interstitial transport of genes. <i>Bioelectrochemistry</i> , 2006, 69, 248-253.	4.6	13
42	Nonlinear Dependence of Hydraulic Conductivity on Tissue Deformation During Intratumoral Infusion. <i>Annals of Biomedical Engineering</i> , 2006, 34, 1173-1181.	2.5	48
43	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.	2.5	26
44	Effects of pulse strength and pulse duration on in vitro DNA electromobility. <i>Bioelectrochemistry</i> , 2004, 62, 37-45.	4.6	27
45	Electric Fields Within Cells as a Function of Membrane Resistivity—A Model Study. <i>IEEE Transactions on Nanobioscience</i> , 2004, 3, 225-231.	3.3	21
46	Accelerated Immune Response to DNA Vaccines. <i>DNA and Cell Biology</i> , 2003, 22, 815-822.	1.9	26
47	Electromobility of plasmid DNA in tumor tissues during electric field-mediated gene delivery. <i>Gene Therapy</i> , 2002, 9, 1286-1290.	4.5	84
48	Interstitial transport of macromolecules. , 0, , 434-454.		3