

# David A Zaharoff

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/902346/publications.pdf>

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  | Chitosan solution enhances both humoral and cell-mediated immune responses to subcutaneous vaccination. <i>Vaccine</i> , 2007, 25, 2085-2094.   | 3.8  | 289       |
| 2  | Localized Interleukin-12 for Cancer Immunotherapy. <i>Frontiers in Immunology</i> , 2020, 11, 575597.   | 4.8  | 210       |
| 3  | Controlling chitosan-based encapsulation for protein and vaccine delivery. <i>Biomaterials</i> , 2014, 35, 4382-4389.   | 11.4 | 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.                | 11.4 | 110       |
| 5  | Intravesical Immunotherapy of Superficial Bladder Cancer with Chitosan/Interleukin-12. <i>Cancer Research</i> , 2009, 69, 6192-6199.  | 0.9  | 97        |
| 6  | Electromobility of plasmid DNA in tumor tissues during electric field-mediated gene delivery. <i>Gene Therapy</i> , 2002, 9, 1286-1290.   | 4.5  | 84        |
| 7  | Intratumoral Immunotherapy of Established Solid Tumors With Chitosan/IL-12. <i>Journal of Immunotherapy</i> , 2010, 33, 697-705.  | 2.4  | 79        |
| 8  | 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        |
| 9  | Chitosan solution enhances the immunoadjuvant properties of GM-CSF. <i>Vaccine</i> , 2007, 25, 8673-8686.   | 3.8  | 53        |
| 10 | In vivo efficacy of a chitosan/IL-12 adjuvant system for protein-based vaccines. <i>Biomaterials</i> , 2011, 32, 926-932.   | 11.4 | 51        |
| 11 | Nonlinear Dependence of Hydraulic Conductivity on Tissue Deformation During Intratumoral Infusion. <i>Annals of Biomedical Engineering</i> , 2006, 34, 1173-1181.                       | 2.5  | 48        |
| 12 | Mechanistic Analysis of Electroporation-Induced Cellular Uptake of Macromolecules. <i>Experimental Biology and Medicine</i> , 2008, 233, 94-105.  | 2.4  | 48        |
| 13 | Effect of Chitosan Properties on Immunoreactivity. <i>Marine Drugs</i> , 2016, 14, 91.  | 4.6  | 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.                           | 2.9  | 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. | 4.2  | 37        |
| 16 | Exercise enhances vaccine-induced antigen-specific T cell responses. <i>Vaccine</i> , 2008, 26, 5407-5415.  | 3.8  | 33        |
| 17 | Neoadjuvant immunotherapy with chitosan and interleukin-12 to control breast cancer metastasis. <i>Oncolimmunology</i> , 2014, 3, e968001.  | 4.6  | 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.                      | 7.0  | 29        |

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|----|--|------|-----------|
| 19 | Immunological mechanisms of intravesical chitosan/interleukin-12 immunotherapy against murine bladder cancer. <i>Onc Immunology</i> , 2017, 6, e1259050.   | 4.6  | 29        |
| 20 | Effects of pulse strength and pulse duration on in vitro DNA electromobility. <i>Bioelectrochemistry</i> , 2004, 62, 37-45.  | 4.6  | 27        |
| 21 | Accelerated Immune Response to DNA Vaccines. <i>DNA and Cell Biology</i> , 2003, 22, 815-822.  | 1.9  | 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.  | 2.5  | 26        |
| 23 | Tumor-derived granulocyte colony-stimulating factor diminishes efficacy of breast tumor cell vaccines. <i>Breast Cancer Research</i> , 2018, 20, 126.  | 5.0  | 25        |
| 24 | Electric field-mediated transport of plasmid DNA in tumor interstitium in vivo. <i>Bioelectrochemistry</i> , 2007, 71, 233-242.  | 4.6  | 24        |
| 25 | Role of chitosan co-formulation in enhancing interleukin-12 delivery and antitumor activity. <i>Biomaterials</i> , 2013, 34, 3828-3836.  | 11.4 | 23        |
| 26 | Modulation of Interleukin-12 activity in the presence of heparin. <i>Scientific Reports</i> , 2017, 7, 5360.   | 3.3  | 23        |
| 27 | Molecular mechanisms of heparin-induced modulation of human interleukin 12 bioactivity. <i>Journal of Biological Chemistry</i> , 2019, 294, 4412-4424.   | 3.4  | 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.   | 3.3  | 21        |
| 29 | Future directions in bladder cancer immunotherapy: towards adaptive immunity. <i>Immunotherapy</i> , 2016, 8, 351-365.   | 2.0  | 21        |
| 30 | Current status of autologous breast tumor cell-based vaccines. <i>Expert Review of Vaccines</i> , 2014, 13, 1439-1445.   | 4.4  | 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.  | 1.3  | 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.   | 1.5  | 17        |
| 33 | 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        |
| 34 | 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        |
| 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 | 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         |

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|----|--|-----|-----------|
| 37 | 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         |
| 38 | 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         |
| 39 | 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         |
| 40 | 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         |
| 41 | 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         |
| 42 | 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         |
| 43 | Interstitial transport of macromolecules. , 0, , 434-454.  |     | 3         |
| 44 | Safety and Pharmacokinetics of Intravesical Chitosan/Interleukin-12 Immunotherapy in Murine Bladders. <i>Bladder Cancer</i> , 2021, , 1-11.  | 0.4 | 2         |
| 45 | Strategic Directions in Immunoresponsive Biomaterials in Tissue Engineering<sup />. <i>Tissue Engineering - Part A</i> , 2017, 23, 1042-1043.  | 3.1 | 1         |
| 46 | 583 INTRAVESICAL IMMUNOTHERAPY WITH CHITOSAN AND INTERLEUKIN-12 INDUCES SYSTEMIC TUMOR-SPECIFIC IMMUNITY. <i>Journal of Urology</i> , 2013, 189, .   | 0.4 | 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         |