

# Kristy M. Ainslie

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84  
papers

2,593  
citations

31  
h-index

48  
g-index

92  
ext. papers

3,075  
ext. citations

7.3  
avg, IF

5.17  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 84 | Nano/microparticle Formulations for Universal Influenza Vaccines.. <i>AAPS Journal</i> , <b>2022</b> , 24, 24  | 3.7  | 0         |
| 83 | Delivery strategies for cancer vaccines and immunoadjuvants <b>2022</b> , 359-408  |      | 1         |
| 82 | Multiplexed electrospray enables high throughput production of cGAMP microparticles to serve as an adjuvant for a broadly acting influenza vaccine. <i>International Journal of Pharmaceutics</i> , <b>2022</b> , 622, 121839              | 6.5  | 0         |
| 81 | STING Agonist Mitigates Experimental Autoimmune Encephalomyelitis by Stimulating Type I IFN-Dependent and -Independent Immune-Regulatory Pathways. <i>Journal of Immunology</i> , <b>2021</b> , 206, 2015-2028 <sup>5</sup>                | 5.3  | 5         |
| 80 | Historical Perspective of Clinical Nano and Microparticle Formulations for Delivery of Therapeutics. <i>Trends in Molecular Medicine</i> , <b>2021</b> , 27, 516-519   | 11.5 | 6         |
| 79 | Dexamethasone and Fumaric Acid Ester Conjugate Synergistically Inhibits Inflammation and NF- $\kappa$ B in Macrophages. <i>Bioconjugate Chemistry</i> , <b>2021</b> , 32, 1629-1640  | 6.3  | 2         |
| 78 | Nano- and Microformulations to Advance Therapies for Visceral Leishmaniasis. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 1725-1741  | 5.5  | 4         |
| 77 | Vaccine formulations in clinical development for the prevention of severe acute respiratory syndrome coronavirus 2 infection. <i>Advanced Drug Delivery Reviews</i> , <b>2021</b> , 169, 168-189   | 18.5 | 35        |
| 76 | Merozoite surface protein 2 adsorbed onto acetalated dextran microparticles for malaria vaccination. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 593, 120168   | 6.5  | 6         |
| 75 | Considerations for Size, Surface Charge, Polymer Degradation, Co-Delivery, and Manufacturability in the Development of Polymeric Particle Vaccines for Infectious Diseases. <i>Advanced NanoBiomed Research</i> , <b>2021</b> , 1, 2000041 | 0    | 9         |
| 74 | Polymeric Biomaterial Scaffolds for Tumorcidal Stem Cell Glioblastoma Therapy. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 3762-3777  | 5.5  | 6         |
| 73 | Glycolipid-mediated basophil activation in alpha-gal allergy. <i>Journal of Allergy and Clinical Immunology</i> , <b>2020</b> , 146, 450-452   | 11.5 | 17        |
| 72 | Formulation of host-targeted therapeutics against bacterial infections. <i>Translational Research</i> , <b>2020</b> , 220, 98-113  | 11   | 6         |
| 71 | Synergistic drug combinations for a precision medicine approach to interstitial glioblastoma therapy. <i>Journal of Controlled Release</i> , <b>2020</b> , 323, 282-292  | 11.7 | 11        |
| 70 | Injectable, Ribbon-Like Microconfetti Biopolymer Platform for Vaccine Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 38950-38961  | 9.5  | 5         |
| 69 | Impact of composite scaffold degradation rate on neural stem cell persistence in the glioblastoma surgical resection cavity. <i>Materials Science and Engineering C</i> , <b>2020</b> , 111, 110846  | 8.3  | 4         |
| 68 | Tumor Responsive and Tunable Polymeric Platform for Optimized Delivery of Paclitaxel to Treat Glioblastoma. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 19345-19356  | 9.5  | 17        |

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| 67 | Evaluation of synergy between host and pathogen-directed therapies against intracellular <i>Leishmania donovani</i> . <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , <b>2019</b> , 10, 125-132         |      | 5   |
| 66 | A microparticle platform for STING-targeted immunotherapy enhances natural killer cell- and CD8 T cell-mediated anti-tumor immunity. <i>Biomaterials</i> , <b>2019</b> , 205, 94-105   | 15.6 | 42  |
| 65 | Oxidation-Sensitive Dextran-Based Polymer with Improved Processability through Stable Boronic Ester Groups.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 3755-3762   | 4.1  | 4   |
| 64 | Electrospray for generation of drug delivery and vaccine particles applied in vitro and in vivo. <i>Materials Science and Engineering C</i> , <b>2019</b> , 105, 110070  | 8.3  | 33  |
| 63 | Flexible, microstructured surfaces using chitin-derived biopolymers. <i>Journal of Materials Chemistry B</i> , <b>2019</b> , 7, 5328-5335  | 7.3  | 4   |
| 62 | Drug Delivery Strategies for Tolerogenic Therapy for Autoimmune Diseases in an Antigen-Specific Manner <b>2019</b> , 112-140   |      |     |
| 61 | Drug Delivery for Cancer Immunotherapy and Vaccines. <i>Pharmaceutical Nanotechnology</i> , <b>2018</b> , 6, 232-244   |      | 13  |
| 60 | Tunable degradation of acetalated dextran microparticles enables controlled vaccine adjuvant and antigen delivery to modulate adaptive immune responses. <i>Journal of Controlled Release</i> , <b>2018</b> , 273, 147-159         | 11.7 | 47  |
| 59 | Sustained Delivery of Doxorubicin via Acetalated Dextran Scaffold Prevents Glioblastoma Recurrence after Surgical Resection. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 1309-1318  | 5.6  | 26  |
| 58 | Prevention of Type 1 Diabetes with Acetalated Dextran Microparticles Containing Rapamycin and Pancreatic Peptide P31. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800341   | 10.1 | 15  |
| 57 | Identification of the effector domain of biglycan that facilitates BMP-2 osteogenic function. <i>Scientific Reports</i> , <b>2018</b> , 8, 7022  | 4.9  | 15  |
| 56 | A robust microparticle platform for a STING-targeted adjuvant that enhances both humoral and cellular immunity during vaccination. <i>Journal of Controlled Release</i> , <b>2018</b> , 270, 1-13                                  | 11.7 | 81  |
| 55 | A nanoparticle-incorporated STING activator enhances antitumor immunity in PD-L1-insensitive models of triple-negative breast cancer. <i>JCI Insight</i> , <b>2018</b> , 3,  | 9.9  | 109 |
| 54 | Investigation of tunable acetalated dextran microparticle platform to optimize M2e-based influenza vaccine efficacy. <i>Journal of Controlled Release</i> , <b>2018</b> , 289, 114-124   | 11.7 | 33  |
| 53 | Acetalated Dextran Microparticles for Codelivery of STING and TLR7/8 Agonists. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 4933-4946  | 5.6  | 42  |
| 52 | Injectable long-acting human immunodeficiency virus antiretroviral prodrugs with improved pharmacokinetic profiles. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 552, 371-377                                     | 6.5  | 5   |
| 51 | In Vivo and Cellular Trafficking of Acetalated Dextran Microparticles for Delivery of a Host-Directed Therapy for <i>Salmonella enterica</i> Serovar Typhi Infection. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 5336-5348 | 5.6  | 14  |
| 50 | PRMT5-Selective Inhibitors Suppress Inflammatory T Cell Responses and Experimental Autoimmune Encephalomyelitis. <i>Journal of Immunology</i> , <b>2017</b> , 198, 1439-1451   | 5.3  | 38  |

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|----|---|------|----|
| 49 | Co-Delivery of Disease Associated Peptide and Rapamycin via Acetalated Dextran Microparticles for Treatment of Multiple Sclerosis. <i>Advanced Biology</i> , <b>2017</b> , 1, 1700022   | 3.5  | 10 |
| 48 | Electrosprayed Myocet-like Liposomes: An Alternative to Traditional Liposome Production. <i>Pharmaceutical Research</i> , <b>2017</b> , 34, 419-426   | 4.5  | 17 |
| 47 | Acetalated Dextran: A Tunable and Acid-Labile Biopolymer with Facile Synthesis and a Range of Applications. <i>Chemical Reviews</i> , <b>2017</b> , 117, 1915-1926  | 68.1 | 77 |
| 46 | Vaccines for the Prevention of Melioidosis and Glanders. <i>Current Tropical Medicine Reports</i> , <b>2017</b> , 4, 136-145  | 3.45 | 7  |
| 45 | Host-mediated Leishmania donovani treatment using AR-12 encapsulated in acetalated dextran microparticles. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 499, 186-194   | 6.5  | 20 |
| 44 | Needle-Free Delivery of Acetalated Dextran-Encapsulated AR-12 Protects Mice from Francisella tularensis Lethal Challenge. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 2052-62  | 5.9  | 13 |
| 43 | One Step Encapsulation of Small Molecule Drugs in Liposomes via Electrospray-Remote Loading. <i>Molecular Pharmaceutics</i> , <b>2016</b> , 13, 92-9  | 5.6  | 22 |
| 42 | Chemically modified inulin microparticles serving dual function as a protein antigen delivery vehicle and immunostimulatory adjuvant. <i>Biomaterials Science</i> , <b>2016</b> , 4, 483-93   | 7.4  | 17 |
| 41 | Microparticles formulated from a family of novel silylated polysaccharides demonstrate inherent immunostimulatory properties and tunable hydrolytic degradability. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 4302-4312                           | 7.3  | 3  |
| 40 | Saquinavir Loaded Acetalated Dextran Microconfetti - a Long Acting Protease Inhibitor Injectable. <i>Pharmaceutical Research</i> , <b>2016</b> , 33, 1998-2009  | 4.5  | 11 |
| 39 | Acetalated Dextran Microparticulate Vaccine Formulated via Coaxial Electrospray Preserves Toxin Neutralization and Enhances Murine Survival Following Inhalational Bacillus Anthracis Exposure. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 2617-2627 | 10.1 | 30 |
| 38 | Degradation of acetalated dextran can be broadly tuned based on cyclic acetal coverage and molecular weight. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 512, 147-157   | 6.5  | 25 |
| 37 | Evaluation of a biodegradable microparticulate polymer as a carrier for Burkholderia pseudomallei subunit vaccines in a mouse model of melioidosis. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 495, 849-61                                     | 6.5  | 19 |
| 36 | A Novel Sterol Isolated from a Plant Used by Mayan Traditional Healers Is Effective in Treatment of Visceral Leishmaniasis Caused by Leishmania donovani. <i>ACS Infectious Diseases</i> , <b>2015</b> , 1, 497-506   | 5.5  | 12 |
| 35 | Micro- and Nano-particulate Strategies for Antigen Specific Immune Tolerance to Treat Autoimmune Diseases. <i>Pharmaceutical Nanotechnology</i> , <b>2015</b> , 3, 85-100   | 4    | 3  |
| 34 | Acetalated dextran encapsulated AR-12 as a host-directed therapy to control Salmonella infection. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 477, 334-43   | 6.5  | 24 |
| 33 | Liposomal resiquimod for the treatment of Leishmania donovani infection. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2014</b> , 69, 168-75  | 5.1  | 27 |
| 32 | Treatment of experimental autoimmune encephalomyelitis by codelivery of disease associated Peptide and dexamethasone in acetalated dextran microparticles. <i>Molecular Pharmaceutics</i> , <b>2014</b> , 11, 828-35  | 5.6  | 49 |

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|----|---|------|-----|
| 31 | Electrospray encapsulation of toll-like receptor agonist resiquimod in polymer microparticles for the treatment of visceral leishmaniasis. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 1045-55               | 5.6  | 62  |
| 30 | Delivery of host cell-directed therapeutics for intracellular pathogen clearance. <i>Expert Review of Anti-Infective Therapy</i> , <b>2013</b> , 11, 1225-35  | 5.5  | 16  |
| 29 | Rapid vaccination using an acetalated dextran microparticulate subunit vaccine confers protection against triplicate challenge by bacillus anthracis. <i>Pharmaceutical Research</i> , <b>2013</b> , 30, 1349-61    | 4.5  | 26  |
| 28 | Electrospun acetalated dextran scaffolds for temporal release of therapeutics. <i>Langmuir</i> , <b>2013</b> , 29, 7957-65  | 4.65 | 25  |
| 27 | Efficient delivery of the toll-like receptor agonists polyinosinic:polycytidylic acid and CpG to macrophages by acetalated dextran microparticles. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 2849-57       | 5.6  | 42  |
| 26 | Optimization of rapamycin-loaded acetalated dextran microparticles for immunosuppression. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 422, 356-63   | 6.5  | 49  |
| 25 | Enhanced stability of horseradish peroxidase encapsulated in acetalated dextran microparticles stored outside cold chain conditions. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 431, 101-10      | 6.5  | 45  |
| 24 | Synthesis and characterization of acetalated dextran polymer and microparticles with ethanol as a degradation product. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 4149-55                     | 9.5  | 58  |
| 23 | Synthesis, optimization, and characterization of camptothecin-loaded acetalated dextran porous microparticles for pulmonary delivery. <i>Molecular Pharmaceutics</i> , <b>2012</b> , 9, 290-8                       | 5.6  | 53  |
| 22 | Microtechnologies for Drug Delivery <b>2012</b> , 359-381   |      | 3   |
| 21 | Micrometer-sized iron oxide particle labeling of mesenchymal stem cells for magnetic resonance imaging-based monitoring of cartilage tissue engineering. <i>Magnetic Resonance Imaging</i> , <b>2011</b> , 29, 40-9 | 3.3  | 35  |
| 20 | In vitro analysis of acetalated dextran microparticles as a potent delivery platform for vaccine adjuvants. <i>Molecular Pharmaceutics</i> , <b>2010</b> , 7, 826-35  | 5.6  | 111 |
| 19 | In vitro inflammatory response of nanostructured titania, silicon oxide, and polycaprolactone. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 91, 647-55                                  | 5.4  | 79  |
| 18 | Microfabricated devices for enhanced bioadhesive drug delivery: attachment to and small-molecule release through a cell monolayer under flow. <i>Small</i> , <b>2009</b> , 5, 2857-63                               | 11   | 55  |
| 17 | Inflammatory Response to Implanted Nanostructured Materials <b>2009</b> , 355-371   |      | 7   |
| 16 | Microfabrication of an asymmetric, multi-layered microdevice for controlled release of orally delivered therapeutics. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1042-7  | 7.2  | 46  |
| 15 | Microfabricated implants for applications in therapeutic delivery, tissue engineering, and biosensing. <i>Lab on A Chip</i> , <b>2008</b> , 8, 1864-78  | 7.2  | 93  |
| 14 | In vitro immunogenicity of silicon-based micro- and nanostructured surfaces. <i>ACS Nano</i> , <b>2008</b> , 2, 1076-84   | 6.7  | 49  |

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|----|---|------|-----|
| 13 | Macrophage cell adhesion and inflammation cytokines on magnetostrictive nanowires. <i>Nanotoxicology</i> , <b>2007</b> , 1, 279-290   | 5-3  | 7   |
| 12 | Cell adhesion on nanofibrous polytetrafluoroethylene (nPTFE). <i>Langmuir</i> , <b>2007</b> , 23, 747-54  | 4    | 32  |
| 11 | Formation of primary amines on silicon nitride surfaces: a direct, plasma-based pathway to functionalization. <i>Langmuir</i> , <b>2007</b> , 23, 4400-4                                  | 4    | 36  |
| 10 | Protein adhesion on silicon-supported hyperbranched poly(ethylene glycol) and poly(allylamine) thin films. <i>Langmuir</i> , <b>2007</b> , 23, 7018-23                                    | 4    | 35  |
| 9  | Attenuation of protein adsorption on static and oscillating magnetostrictive nanowires. <i>Nano Letters</i> , <b>2005</b> , 5, 1852-6   | 11.5 | 39  |
| 8  | Vascular smooth muscle cell glycocalyx influences shear stress-mediated contractile response. <i>Journal of Applied Physiology</i> , <b>2005</b> , 98, 242-9                              | 3-7  | 54  |
| 7  | Attenuation of Protein Adsorption on Static and Vibrating Magnetic Nanowires. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 877, 1                               |      | 1   |
| 6  | Utilizing a Quartz Crystal Microbalance for Quantifying CD4+ T Cell Counts. <i>Sensor Letters</i> , <b>2005</b> , 3, 211-215  |      | 11  |
| 5  | Rat aortic smooth muscle cells contract in response to serum and its components in a calcium independent manner. <i>Annals of Biomedical Engineering</i> , <b>2004</b> , 32, 1667-75      | 4-7  | 5   |
| 4  | Heparan sulfate proteoglycan is a mechanosensor on endothelial cells. <i>Circulation Research</i> , <b>2003</b> , 93, e136-42   | 15-7 | 405 |
| 3  | Intracellular calcium changes in rat aortic smooth muscle cells in response to fluid flow. <i>Annals of Biomedical Engineering</i> , <b>2002</b> , 30, 371-8                              | 4-7  | 22  |
| 2  | Smooth muscle cells contract in response to fluid flow via a Ca <sup>2+</sup> -independent signaling mechanism. <i>Journal of Applied Physiology</i> , <b>2002</b> , 93, 1907-17          | 3-7  | 37  |
| 1  | Drug Delivery Strategies for Tolerogenic Therapy for Autoimmune Diseases in an Antigen-Specific Manner. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 23-51 | 0.3  |     |