

Jennifer J Linderman

List of Publications by Year in descending order

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55
papers

2,563
citations

172207

29
h-index

214527

47
g-index

57
all docs

57
docs citations

57
times ranked

3176
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic balance of pro- and anti-inflammatory signals controls disease and limits pathology. <i>Immunological Reviews</i> , 2018, 285, 147-167.	2.8	175
2	Nanoscale Adhesion Ligand Organization Regulates Osteoblast Proliferation and Differentiation. <i>Nano Letters</i> , 2004, 4, 1501-1506.	4.5	164
3	Multiscale Computational Modeling Reveals a Critical Role for TNF- α Receptor 1 Dynamics in Tuberculosis Granuloma Formation. <i>Journal of Immunology</i> , 2011, 186, 3472-3483.	0.4	158
4	Macrophage Polarization Drives Granuloma Outcome during <i>Mycobacterium tuberculosis</i> Infection. <i>Infection and Immunity</i> , 2015, 83, 324-338.	1.0	149
5	NF- κ B Signaling Dynamics Play a Key Role in Infection Control in Tuberculosis. <i>Frontiers in Physiology</i> , 2012, 3, 170.	1.3	112
6	Multi-Scale Modeling Predicts a Balance of Tumor Necrosis Factor- α and Interleukin-10 Controls the Granuloma Environment during <i>Mycobacterium tuberculosis</i> Infection. <i>PLoS ONE</i> , 2013, 8, e68680.	1.1	109
7	Strategies for Efficient Numerical Implementation of Hybrid Multi-scale Agent-Based Models to Describe Biological Systems. <i>Cellular and Molecular Bioengineering</i> , 2015, 8, 119-136.	1.0	87
8	Differential Risk of Tuberculosis Reactivation among Anti-TNF Therapies Is Due to Drug Binding Kinetics and Permeability. <i>Journal of Immunology</i> , 2012, 188, 3169-3178.	0.4	86
9	Lipid Raft-Mediated Regulation of G-Protein Coupled Receptor Signaling by Ligands which Influence Receptor Dimerization: A Computational Study. <i>PLoS ONE</i> , 2009, 4, e6604.	1.1	79
10	Improved Tumor Penetration and Single-Cell Targeting of Antibody-Drug Conjugates Increases Anticancer Efficacy and Host Survival. <i>Cancer Research</i> , 2018, 78, 758-768.	0.4	77
11	A computational tool integrating host immunity with antibiotic dynamics to study tuberculosis treatment. <i>Journal of Theoretical Biology</i> , 2015, 367, 166-179.	0.8	68
12	Computational Modeling Predicts IL-10 Control of Lesion Sterilization by Balancing Early Host Immunity-Mediated Antimicrobial Responses with Caseation during <i>Mycobacterium tuberculosis</i> Infection. <i>Journal of Immunology</i> , 2015, 194, 664-677.	0.4	63
13	A review of computational and mathematical modeling contributions to our understanding of <i>Mycobacterium tuberculosis</i> within-host infection and treatment. <i>Current Opinion in Systems Biology</i> , 2017, 3, 170-185.	1.3	61
14	Identification of Key Processes that Control Tumor Necrosis Factor Availability in a Tuberculosis Granuloma. <i>PLoS Computational Biology</i> , 2010, 6, e1000778.	1.5	57
15	Comparing efficacies of moxifloxacin, levofloxacin and gatifloxacin in tuberculosis granulomas using a multi-scale systems pharmacology approach. <i>PLoS Computational Biology</i> , 2017, 13, e1005650.	1.5	57
16	Characterizing the Dynamics of CD4+ T Cell Priming within a Lymph Node. <i>Journal of Immunology</i> , 2010, 184, 2873-2885.	0.4	54
17	Tuneable resolution as a systems biology approach for multi-scale, multi-compartment computational models. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2014, 6, 289-309.	6.6	53
18	Identifying mechanisms driving formation of granuloma-associated fibrosis during <i>Mycobacterium tuberculosis</i> infection. <i>Journal of Theoretical Biology</i> , 2017, 429, 1-17.	0.8	49

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19	Mathematical and computational approaches can complement experimental studies of host-pathogen interactions. <i>Cellular Microbiology</i> , 2009, 11, 531-539.	1.1	48
20	Multiscale Model of Mycobacterium tuberculosis Infection Maps Metabolite and Gene Perturbations to Granuloma Sterilization Predictions. <i>Infection and Immunity</i> , 2016, 84, 1650-1669.	1.0	48
21	CXCR7 Controls Competition for Recruitment of β -Arrestin 2 in Cells Expressing Both CXCR4 and CXCR7. <i>PLoS ONE</i> , 2014, 9, e98328.	1.1	45
22	Modeling of G-protein-coupled Receptor Signaling Pathways. <i>Journal of Biological Chemistry</i> , 2009, 284, 5427-5431.	1.6	44
23	Fluoroquinolone Efficacy against Tuberculosis Is Driven by Penetration into Lesions and Activity against Resident Bacterial Populations. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	1.4	42
24	In silico evaluation and exploration of antibiotic tuberculosis treatment regimens. <i>BMC Systems Biology</i> , 2015, 9, 79.	3.0	41
25	Harnessing the Heterogeneity of T Cell Differentiation Fate to Fine-Tune Generation of Effector and Memory T Cells. <i>Frontiers in Immunology</i> , 2014, 5, 57.	2.2	39
26	Deletion of TGF- β 1 Increases Bacterial Clearance by Cytotoxic T Cells in a Tuberculosis Granuloma Model. <i>Frontiers in Immunology</i> , 2017, 8, 1843.	2.2	39
27	Computational and Empirical Studies Predict Mycobacterium tuberculosis-Specific T Cells as a Biomarker for Infection Outcome. <i>PLoS Computational Biology</i> , 2016, 12, e1004804.	1.5	38
28	Computational Modeling Predicts Simultaneous Targeting of Fibroblasts and Epithelial Cells Is Necessary for Treatment of Pulmonary Fibrosis. <i>Frontiers in Pharmacology</i> , 2016, 7, 183.	1.6	35
29	Global sensitivity analysis of biological multiscale models. <i>Current Opinion in Biomedical Engineering</i> , 2019, 11, 109-116.	1.8	35
30	A Comprehensive Analysis of CXCL12 Isoforms in Breast Cancer ^{1,2} . <i>Translational Oncology</i> , 2014, 7, 429-438.	1.7	33
31	Applying Optimization Algorithms to Tuberculosis Antibiotic Treatment Regimens. <i>Cellular and Molecular Bioengineering</i> , 2017, 10, 523-535.	1.0	26
32	Short-term cellular memory tunes the signaling responses of the chemokine receptor CXCR4. <i>Science Signaling</i> , 2019, 12, .	1.6	26
33	Both Pharmacokinetic Variability and Granuloma Heterogeneity Impact the Ability of the First-Line Antibiotics to Sterilize Tuberculosis Granulomas. <i>Frontiers in Pharmacology</i> , 2020, 11, 333.	1.6	26
34	Cell, Isoform, and Environment Factors Shape Gradients and Modulate Chemotaxis. <i>PLoS ONE</i> , 2015, 10, e0123450.	1.1	25
35	A multi-scale approach to designing therapeutics for tuberculosis. <i>Integrative Biology (United Tj ETQq1 1 0.784314 rgBT /Overlock 101</i>	0.6	24
36	Validation of flow cytometric competitive binding protocols and characterization of fluorescently labeled ligands. <i>Cytometry</i> , 2001, 45, 102-114.	1.8	23

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37	Neutrophil Dynamics Affect Mycobacterium tuberculosis Granuloma Outcomes and Dissemination. <i>Frontiers in Immunology</i> , 2021, 12, 712457.	2.2	22
38	A computational model tracks whole-lung Mycobacterium tuberculosis infection and predicts factors that inhibit dissemination. <i>PLoS Computational Biology</i> , 2020, 16, e1007280.	1.5	21
39	Emergence and selection of isoniazid and rifampin resistance in tuberculosis granulomas. <i>PLoS ONE</i> , 2018, 13, e0196322.	1.1	20
40	An Agent-Based Systems Pharmacology Model of the Antibody-Drug Conjugate Kadcyca to Predict Efficacy of Different Dosing Regimens. <i>AAPS Journal</i> , 2020, 22, 29.	2.2	19
41	CaliPro: A Calibration Protocol That Utilizes Parameter Density Estimation to Explore Parameter Space and Calibrate Complex Biological Models. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 31-47.	1.0	19
42	Identifying Mechanisms of Homeostatic Signaling in Fibroblast Differentiation. <i>Bulletin of Mathematical Biology</i> , 2015, 77, 1556-1582.	0.9	18
43	A virtual host model of Mycobacterium tuberculosis infection identifies early immune events as predictive of infection outcomes. <i>Journal of Theoretical Biology</i> , 2022, 539, 111042.	0.8	17
44	Strategic Priming with Multiple Antigens can Yield Memory Cell Phenotypes Optimized for Infection with Mycobacterium tuberculosis: A Computational Study. <i>Frontiers in Microbiology</i> , 2016, 6, 1477.	1.5	16
45	Spatial Organization and Recruitment of Non-Specific T Cells May Limit T Cell-Macrophage Interactions Within Mycobacterium tuberculosis Granulomas. <i>Frontiers in Immunology</i> , 2020, 11, 613638.	2.2	16
46	A multi-scale pipeline linking drug transcriptomics with pharmacokinetics predicts in vivo interactions of tuberculosis drugs. <i>Scientific Reports</i> , 2021, 11, 5643.	1.6	15
47	In silico models of M. tuberculosis infection provide a route to new therapies. <i>Drug Discovery Today: Disease Models</i> , 2015, 15, 37-41.	1.2	12
48	Integrating Non-human Primate, Human, and Mathematical Studies to Determine the Influence of BCG Timing on H56 Vaccine Outcomes. <i>Frontiers in Microbiology</i> , 2018, 9, 1734.	1.5	12
49	The Role of Dimensionality in Understanding Granuloma Formation. <i>Computation</i> , 2018, 6, 58.	1.0	11
50	A Two-Pulse Cellular Stimulation Test Elucidates Variability and Mechanisms in Signaling Pathways. <i>Biophysical Journal</i> , 2019, 116, 962-973.	0.2	11
51	The CXCL12/CXCR7 signaling axis, isoforms, circadian rhythms, and tumor cellular composition dictate gradients in tissue. <i>PLoS ONE</i> , 2017, 12, e0187357.	1.1	10
52	Data-Driven Model Validation Across Dimensions. <i>Bulletin of Mathematical Biology</i> , 2019, 81, 1853-1866.	0.9	7
53	Simulating the Selection of Resistant Cells with Bystander Killing and Antibody Coadministration in Heterogeneous Human Epidermal Growth Factor Receptor 2-Positive Tumors. <i>Drug Metabolism and Disposition</i> , 2022, 50, 8-16.	1.7	7
54	Pre-existing Cell States Control Heterogeneity of Both EGFR and CXCR4 Signaling. <i>Cellular and Molecular Bioengineering</i> , 2021, 14, 49-64.	1.0	6

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55	Computational methods for characterizing and learning from heterogeneous cell signaling data. Current Opinion in Systems Biology, 2021, 26, 98-108.	1.3	6