

# Morgan Craig

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,020  
citations

623734

14  
h-index

501196

28  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. <i>Nature Communications</i> , 2018, 9, 2.	12.8	180
2	Increased stem cell proliferation in atherosclerosis accelerates clonal hematopoiesis. <i>Cell</i> , 2021, 184, 1348-1361.e22.	28.9	149
3	A Mathematical Model of Granulopoiesis Incorporating the Negative Feedback Dynamics and Kinetics of G-CSF/Neutrophil Binding and Internalization. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 2304-2357.	1.9	64
4	COVID-19 virtual patient cohort suggests immune mechanisms driving disease outcomes. <i>PLoS Pathogens</i> , 2021, 17, e1009753.	4.7	61
5	Determinants of combination GM-CSF immunotherapy and oncolytic virotherapy success identified through in silico treatment personalization. <i>PLoS Computational Biology</i> , 2019, 15, e1007495.	3.2	44
6	Engineering in Medicine To Address the Challenge of Cancer Drug Resistance: From Micro- and Nanotechnologies to Computational and Mathematical Modeling. <i>Chemical Reviews</i> , 2021, 121, 3352-3389.	47.7	41
7	Neutrophil dynamics during concurrent chemotherapy and G-CSF administration: Mathematical modelling guides dose optimisation to minimise neutropenia. <i>Journal of Theoretical Biology</i> , 2015, 385, 77-89.	1.7	37
8	Towards Quantitative Systems Pharmacology Models of Chemotherapy-Induced Neutropenia. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2017, 6, 293-304.	2.5	33
9	Transit and lifespan in neutrophil production: implications for drug intervention. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2018, 45, 59-77.	1.8	29
10	Normal and pathological dynamics of platelets in humans. <i>Journal of Mathematical Biology</i> , 2017, 75, 1411-1462.	1.9	27
11	In silico trials predict that combination strategies for enhancing vesicular stomatitis oncolytic virus are determined by tumor aggressivity. , 2021, 9, e001387.		26
12	Analysis of Host Immunological Response of Adenovirus-Based COVID-19 Vaccines. <i>Vaccines</i> , 2021, 9, 861.	4.4	26
13	Cooperative adaptation to therapy (CAT) confers resistance in heterogeneous non-small cell lung cancer. <i>PLoS Computational Biology</i> , 2019, 15, e1007278.	3.2	23
14	Agent-based computational modeling of glioblastoma predicts that stromal density is central to oncolytic virus efficacy. <i>IScience</i> , 2022, 25, 104395.	4.1	23
15	Translational approaches to treating dynamical diseases through <i>in silico</i> clinical trials. <i>Chaos</i> , 2020, 30, 123128.	2.5	21
16	Leveraging Computational Modeling to Understand Infectious Diseases. <i>Current Pathobiology Reports</i> , 2020, 8, 149-161.	3.4	19
17	Equivalences between age structured models and state dependent distributed delay differential equations. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 5419-5450.	1.9	15
18	The timing of cyclic cytotoxic chemotherapy can worsen neutropenia and neutrophilia. <i>British Journal of Clinical Pharmacology</i> , 2021, 87, 687-693.	2.4	14

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19	Procaspase-Activating Compound-1 Synergizes with TRAIL to Induce Apoptosis in Established Granulosa Cell Tumor Cell Line (KGN) and Explanted Patient Granulosa Cell Tumor Cells In Vitro. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4699.	4.1	12
20	A randomized controlled trial of renin-angiotensin-aldosterone system inhibitor management in patients admitted in hospital with COVID-19. <i>American Heart Journal</i> , 2022, 247, 76-89.	2.7	12
21	The role of memory in non-genetic inheritance and its impact on cancer treatment resistance. <i>PLoS Computational Biology</i> , 2021, 17, e1009348.	3.2	11
22	A Blueprint for Identifying Phenotypes and Drug Targets in Complex Disorders with Empirical Dynamics. <i>Patterns</i> , 2020, 1, 100138.	5.9	9
23	Characterizing Chemotherapy-Induced Neutropenia and Monocytopenia Through Mathematical Modelling. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 104.	1.9	8
24	Multiscale Model of Antiviral Timing, Potency, and Heterogeneity Effects on an Epithelial Tissue Patch Infected by SARS-CoV-2. <i>Viruses</i> , 2022, 14, 605.	3.3	8
25	An upper bound for the half-removal time of neutrophils from circulation. <i>Blood</i> , 2016, 128, 1989-1991.	1.4	6
26	Understanding Normal and Pathological Hematopoietic Stem Cell Biology Using Mathematical Modelling. <i>Current Stem Cell Reports</i> , 2021, 7, 109-120.	1.6	6
27	Algorithmic reconstruction of glioblastoma network complexity. <i>IScience</i> , 2022, 25, 104179.	4.1	6
28	Establishing combination PACâ€1 and TRAIL regimens for treating ovarian cancer based on patientâ€specific pharmacokinetic profiles using <i>in silico</i> clinical trials. <i>Computational and Systems Oncology</i> , 2022, 2, .	1.5	6
29	Chaos synchronization and Nelder-Mead search for parameter estimation in nonlinear pharmacological systems: Estimating tumor antigenicity in a model of immunotherapy. <i>Progress in Biophysics and Molecular Biology</i> , 2018, 139, 23-30.	2.9	5
30	A Quantitative Systems Pharmacology Framework for Optimal Doxorubicin Granulocyte Colony-Stimulating Factor Regimens in Triple-Negative Breast Cancer. <i>Pharmacology</i> , 2021, 106, 542-550.	2.2	5
31	Management of Renin-Angiotensin-Aldosterone System blockade in patients admitted to hospital with confirmed coronavirus disease (COVID-19) infection (The McGill RAAS-COVID- 19): A structured summary of a study protocol for a randomized controlled trial. <i>Trials</i> , 2021, 22, 115.	1.6	5
32	Impact of Pharmacokinetic Variability on a Mechanistic Physiological Pharmacokinetic/Pharmacodynamic Model: A Case Study of Neutrophil Development, PM00104, and Filgrastim. <i>Springer Proceedings in Mathematics and Statistics</i> , 2016, , 91-112.	0.2	5
33	Longitudinal study of 2 patients with cyclic thrombocytopenia, <i>STAT3</i> and <i>MPL</i> mutations. <i>Blood Advances</i> , 2023, 7, 190-194.	5.2	5
34	Impact of estrogen population pharmacokinetics on a QSP model of mammary stem cell differentiation into myoepithelial cells. <i>AIMS Mathematics</i> , 2021, 6, 10861-10880.	1.6	4
35	A machine learning approach to differentiate between COVID-19 and influenza infection using synthetic infection and immune response data. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 5813-5831.	1.9	4
36	Approaching Pharmacometrics as a Paleontologist Would: Recovering the Links Between Drugs and the Body Through Reconstruction. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2016, 5, 158-160.	2.5	3

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37	Physiologically-Based Mathematical Modelling of Neutrophil Dynamics during Concurrent Chemotherapy and Filgrastim Support. Blood, 2014, 124, 5134-5134.	1.4	0
38	How Platelet Regulation Varies In Humans With Cyclic Thrombocytopenia. , 2018, , .		0