

# Morgan Craig

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,020  
citations

706676

14  
h-index

563245

28  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Longitudinal study of 2 patients with cyclic thrombocytopenia, <i>STAT3</i> and <i>MPL</i> mutations. <i>Blood Advances</i> , 2023, 7, 190-194.	2.5	5
2	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.	1.2	12
3	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.	1.0	4
4	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.	1.5	8
5	Algorithmic reconstruction of glioblastoma network complexity. <i>IScience</i> , 2022, 25, 104179.	1.9	6
6	Agent-based computational modeling of glioblastoma predicts that stromal density is central to oncolytic virus efficacy. <i>IScience</i> , 2022, 25, 104395.	1.9	23
7	Establishing combination <i>PAC1</i> and TRAIL regimens for treating ovarian cancer based on patient-specific pharmacokinetic profiles using <i>in silico</i> clinical trials. <i>Computational and Systems Oncology</i> , 2022, 2, .	1.1	6
8	The timing of cyclic cytotoxic chemotherapy can worsen neutropenia and neutrophilia. <i>British Journal of Clinical Pharmacology</i> , 2021, 87, 687-693.	1.1	14
9	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.	23.0	41
10	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.	0.7	4
11	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.	0.9	5
12	<i>In silico</i> trials predict that combination strategies for enhancing vesicular stomatitis oncolytic virus are determined by tumor aggressivity. , 2021, 9, e001387.		26
13	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.	0.7	5
14	Increased stem cell proliferation in atherosclerosis accelerates clonal hematopoiesis. <i>Cell</i> , 2021, 184, 1348-1361.e22.	13.5	149
15	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.	1.8	12
16	Understanding Normal and Pathological Hematopoietic Stem Cell Biology Using Mathematical Modelling. <i>Current Stem Cell Reports</i> , 2021, 7, 109-120.	0.7	6
17	COVID-19 virtual patient cohort suggests immune mechanisms driving disease outcomes. <i>PLoS Pathogens</i> , 2021, 17, e1009753.	2.1	61
18	The role of memory in non-genetic inheritance and its impact on cancer treatment resistance. <i>PLoS Computational Biology</i> , 2021, 17, e1009348.	1.5	11

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19	Analysis of Host Immunological Response of Adenovirus-Based COVID-19 Vaccines. <i>Vaccines</i> , 2021, 9, 861.	2.1	26
20	A Blueprint for Identifying Phenotypes and Drug Targets in Complex Disorders with Empirical Dynamics. <i>Patterns</i> , 2020, 1, 100138.	3.1	9
21	Leveraging Computational Modeling to Understand Infectious Diseases. <i>Current Pathobiology Reports</i> , 2020, 8, 149-161.	1.6	19
22	Characterizing Chemotherapy-Induced Neutropenia and Monocytopenia Through Mathematical Modelling. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 104.	0.9	8
23	Translational approaches to treating dynamical diseases through <i>in silico</i> clinical trials. <i>Chaos</i> , 2020, 30, 123128.	1.0	21
24	Cooperative adaptation to therapy (CAT) confers resistance in heterogeneous non-small cell lung cancer. <i>PLoS Computational Biology</i> , 2019, 15, e1007278.	1.5	23
25	Determinants of combination GM-CSF immunotherapy and oncolytic virotherapy success identified through <i>in silico</i> treatment personalization. <i>PLoS Computational Biology</i> , 2019, 15, e1007495.	1.5	44
26	Equivalences between age structured models and state dependent distributed delay differential equations. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 5419-5450.	1.0	15
27	Transit and lifespan in neutrophil production: implications for drug intervention. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2018, 45, 59-77.	0.8	29
28	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. <i>Nature Communications</i> , 2018, 9, 2.	5.8	180
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.	1.4	5
30	How Platelet Regulation Varies In Humans With Cyclic Thrombocytopenia. , 2018, , .		0
31	Normal and pathological dynamics of platelets in humans. <i>Journal of Mathematical Biology</i> , 2017, 75, 1411-1462.	0.8	27
32	Towards Quantitative Systems Pharmacology Models of Chemotherapy-Induced Neutropenia. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2017, 6, 293-304.	1.3	33
33	An upper bound for the half-removal time of neutrophils from circulation. <i>Blood</i> , 2016, 128, 1989-1991.	0.6	6
34	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.	1.3	3
35	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.	0.9	64
36	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.	0.1	5

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37	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.	0.8	37
38	Physiologically-Based Mathematical Modelling of Neutrophil Dynamics during Concurrent Chemotherapy and Filgrastim Support. <i>Blood</i> , 2014, 124, 5134-5134.	0.6	0