Alexander A R A Anderson

List of Publications by Citations

183 papers	9,032 citations	48 h-index	92 g-index
229 ext. papers	10,904 ext. citations	7.3 avg, IF	6.46 L-index

#	Paper	IF	Citations
183	Continuous and discrete mathematical models of tumor-induced angiogenesis. *Bulletin of Mathematical Biology*, **1998**, 60, 857-99	2.1	756
182	Tumor morphology and phenotypic evolution driven by selective pressure from the microenvironment. *Cell*, **2006**, 127, 905-15	56.2	573
181	PTEN loss confers BRAF inhibitor resistance to melanoma cells through the suppression of BIM expression. *Cancer Research*, **2011**, 71, 2750-60	10.1	419
180	A hybrid mathematical model of solid tumour invasion: the importance of cell adhesion. *Mathematical Medicine and Biology*, **2005**, 22, 163-86	1.3	398
179	Integrative mathematical oncology. *Nature Reviews Cancer*, **2008**, 8, 227-34	31.3	317
178	Mathematical modelling of dynamic adaptive tumour-induced angiogenesis: clinical implications and therapeutic targeting strategies. *Journal of Theoretical Biology*, **2006**, 241, 564-89	2.3	293
177	Multiscale modelling and nonlinear simulation of vascular tumour growth. *Journal of Mathematical Biology*, **2009**, 58, 765-98	2	270
176	Mathematical modelling of flow through vascular networks: implications for tumour-induced angiogenesis and chemotherapy strategies. *Bulletin of Mathematical Biology*, **2002**, 64, 673-702	2.1	234
175	Classifying the evolutionary and ecological features of neoplasms. *Nature Reviews Cancer*, **2017**, 17, 605-619	31.3	208
174	Mathematical modeling of tumor-induced angiogenesis. *Annual Review of Biomedical Engineering*, **2006**, 8, 233-57	12	200
173	Hybrid models of tumor growth. *Wiley Interdisciplinary Reviews: Systems Biology and Medicine*, **2011**, 3, 115-25	6.6	195
172	Modeling the influence of the E-cadherin-beta-catenin pathway in cancer cell invasion: a multiscale approach. *Biophysical Journal*, **2008**, 95, 155-65	2.9	184
171	Impact of metabolic heterogeneity on tumor growth, invasion, and treatment outcomes. *Cancer Research*, **2015**, 75, 1567-79	10.1	180
170	Quantifying the role of angiogenesis in malignant progression of gliomas: in silico modeling integrates imaging and histology. *Cancer Research*, **2011**, 71, 7366-75	10.1	174
169	An evolutionary hybrid cellular automaton model of solid tumour growth. *Journal of Theoretical Biology*, **2007**, 246, 583-603	2.3	156
168	Paradoxical dependencies of tumor dormancy and progression on basic cell kinetics. *Cancer Research*, **2009**, 69, 8814-21	10.1	144
167	A mathematical model of breast cancer development, local treatment and recurrence. *Journal of Theoretical Biology*, **2007**, 246, 245-59	2.3	143

166	Mathematical modelling of flow in 2D and 3D vascular networks: Applications to anti-angiogenic and chemotherapeutic drug strategies. *Mathematical and Computer Modelling*, **2005**, 41, 1137-1156		124
165	Multi-scale modelling of cancer cell intravasation: the role of cadherins in metastasis. *Physical Biology*, **2009**, 6, 016008	3	109
164	Spatial Heterogeneity and Evolutionary Dynamics Modulate Time to Recurrence in Continuous and Adaptive Cancer Therapies. *Cancer Research*, **2018**, 78, 2127-2139	10.1	105
163	Mathematical modelling of the influence of blood rheological properties upon adaptative tumour-induced angiogenesis. *Mathematical and Computer Modelling*, **2006**, 44, 96-123		105
162	A hybrid cellular automaton model of clonal evolution in cancer: the emergence of the glycolytic phenotype. *Journal of Theoretical Biology*, **2008**, 250, 705-22	2.3	99
161	Exploiting evolution to treat drug resistance: combination therapy and the double bind. *Molecular Pharmaceutics*, **2012**, 9, 914-21	5.6	96
160	Steering Evolution with Sequential Therapy to Prevent the Emergence of Bacterial Antibiotic Resistance. *PLoS Computational Biology*, **2015**, 11, e1004493	5	93
159	Fibroblasts contribute to melanoma tumor growth and drug resistance. *Molecular Pharmaceutics*, **2011**, 8, 2039-49	5.6	90
158	The biology underlying molecular imaging in oncology: from genome to anatome and back again. *Clinical Radiology*, **2010**, 65, 517-21	2.9	84
157	Mathematical modelling of cancer cell invasion of tissue. *Mathematical and Computer Modelling*, **2008**, 47, 533-545		81
156	Antibiotic collateral sensitivity is contingent on the repeatability of evolution. *Nature Communications*, **2019**, 10, 334	17.4	80
155	Mathematical modeling of cancer: the future of prognosis and treatment. *Clinica Chimica Acta*, **2005**, 357, 173-9	6.2	79
154	The 2019 mathematical oncology roadmap. *Physical Biology*, **2019**, 16, 041005	3	78
153	PM-04IN SILICO ANALYSIS OF AVAglio AND RTOG 0825 PHASE III CLINICAL TRIALS SUGGESTS SIGNATURES OF PATIENTS TO RECEIVE BENEFIT FROM COMBINED BEVACIZUMAB AND RADIATION THERAPIES. *Neuro-Oncology*, **2014**, 16, v169-v169	1	78
152	Eco-evolutionary causes and consequences of temporal changes in intratumoural blood flow. *Nature Reviews Cancer*, **2018**, 18, 576-585	31.3	77
151	Microenvironment driven invasion: a multiscale multimodel investigation. *Journal of Mathematical Biology*, **2009**, 58, 579-624	2	77
150	Defining Cancer Subpopulations by Adaptive Strategies Rather Than Molecular Properties Provides Novel Insights into Intratumoral Evolution. *Cancer Research*, **2017**, 77, 2242-2254	10.1	75
149	Mathematical modelling of radiotherapy strategies for early breast cancer. *Journal of Theoretical Biology*, **2006**, 241, 158-71	2.3	74

148	Investigating prostate cancer tumour-stroma interactions: clinical and biological insights from an evolutionary game. *British Journal of Cancer*, **2012**, 106, 174-81	8.7	70
147	Exploiting ecological principles to better understand cancer progression and treatment. *Interface Focus*, **2013**, 3, 20130020	3.9	66
146	Towards Multidrug Adaptive Therapy. *Cancer Research*, **2020**, 80, 1578-1589	10.1	60
145	Dependence of invadopodia function on collagen fiber spacing and cross-linking: computational modeling and experimental evidence. *Biophysical Journal*, **2008**, 95, 2203-18	2.9	59
144	A spatial model of tumor-host interaction: application of chemotherapy. *Mathematical Biosciences and Engineering*, **2009**, 6, 521-46	2.1	56
143	Invasion emerges from cancer cell adaptation to competitive microenvironments: quantitative predictions from multiscale mathematical models. *Seminars in Cancer Biology*, **2008**, 18, 338-48	12.7	54
142	The evolutionary landscape of colorectal tumorigenesis. *Nature Ecology and Evolution*, **2018**, 2, 1661-1672	12.3	52
141	The role of transforming growth factor-beta-mediated tumor-stroma interactions in prostate cancer progression: an integrative approach. *Cancer Research*, **2009**, 69, 7111-20	10.1	51
140	Evolution of cell motility in an individual-based model of tumour growth. *Journal of Theoretical Biology*, **2009**, 259, 67-83	2.3	51
139	Multidrug Cancer Therapy in Metastatic Castrate-Resistant Prostate Cancer: An Evolution-Based Strategy. *Clinical Cancer Research*, **2019**, 25, 4413-4421	12.9	50
138	Cellular modeling of cancer invasion: integration of in silico and in vitro approaches. *Journal of Cellular Physiology*, **2012**, 227, 431-8	7	50
137	The Cancer Stem Cell Fraction in Hierarchically Organized Tumors Can Be Estimated Using Mathematical Modeling and Patient-Specific Treatment Trajectories. *Cancer Research*, **2016**, 76, 1705-13	10.1	48
136	Modeling Tumor-Associated Edema in Gliomas during Anti-Angiogenic Therapy and Its Impact on Imageable Tumor. *Frontiers in Oncology*, **2013**, 3, 66	5.3	48
135	Microenvironmental independence associated with tumor progression. *Cancer Research*, **2009**, 69, 8797-806	10.1	48
134	Front instabilities and invasiveness of simulated avascular tumors. *Bulletin of Mathematical Biology*, **2009**, 71, 1189-227	2.1	44
133	Inhibition of autophagy enhances the effects of the AKT inhibitor MK-2206 when combined with paclitaxel and carboplatin in BRAF wild-type melanoma. *Pigment Cell and Melanoma Research*, **2014**, 27, 465-78	4.5	43
132	The role of IDH1 mutated tumour cells in secondary glioblastomas: an evolutionary game theoretical view. *Physical Biology*, **2011**, 8, 015016	3	43
131	A computational study of the development of epithelial acini: I. Sufficient conditions for the formation of a hollow structure. *Bulletin of Mathematical Biology*, **2008**, 70, 677-712	2.1	43

130	Computational Methods and Results for Structured Multiscale Models of Tumor Invasion. *Multiscale Modeling and Simulation*, **2006**, 5, 1-20	1.8	42
129	The impact of proliferation-migration tradeoffs on phenotypic evolution in cancer. *Scientific Reports*, **2019**, 9, 2425	4.9	40
128	Acidity promotes tumour progression by altering macrophage phenotype in prostate cancer. *British Journal of Cancer*, **2019**, 121, 556-566	8.7	40
127	Applying a patient-specific bio-mathematical model of glioma growth to develop virtual [18F]-FMISO-PET images. *Mathematical Medicine and Biology*, **2012**, 29, 31-48	1.3	39
126	Unifying metastasis--integrating intravasation, circulation and end-organ colonization. *Nature Reviews Cancer*, **2012**, 12, 445-6	31.3	38
125	Senescent fibroblasts in melanoma initiation and progression: an integrated theoretical, experimental, and clinical approach. *Cancer Research*, **2013**, 73, 6874-85	10.1	35
124	Linking changes in epithelial morphogenesis to cancer mutations using computational modeling. *PLoS Computational Biology*, **2010**, 6, e1000900	5	35
123	A mathematical model of tumour self-seeding reveals secondary metastatic deposits as drivers of primary tumour growth. *Journal of the Royal Society Interface*, **2013**, 10, 20130011	4.1	34
122	NeoPredPipe: high-throughput neoantigen prediction and recognition potential pipeline. *BMC Bioinformatics*, **2019**, 20, 264	3.6	33
121	Homeostasis Back and Forth: An Ecoevolutionary Perspective of Cancer. *Cold Spring Harbor Perspectives in Medicine*, **2017**, 7,	5.4	31
120	Modelling of Cancer Growth, Evolution and Invasion: Bridging Scales and Models. *Mathematical Modelling of Natural Phenomena*, **2007**, 2, 1-29	3	30
119	Mathematical Oncology. *Bulletin of Mathematical Biology*, **2018**, 80, 945-953	2.1	29
118	A computational study of the development of epithelial acini: II. Necessary conditions for structure and lumen stability. *Bulletin of Mathematical Biology*, **2008**, 70, 1450-79	2.1	29
117	Spatial Metrics of Tumour Vascular Organisation Predict Radiation Efficacy in a Computational Model. *PLoS Computational Biology*, **2016**, 12, e1004712	5	29
116	Leveraging transcriptional dynamics to improve BRAF inhibitor responses in melanoma. *EBioMedicine*, **2019**, 48, 178-190	8.8	28
115	Microenvironmental variables must influence intrinsic phenotypic parameters of cancer stem cells to affect tumourigenicity. *PLoS Computational Biology*, **2014**, 10, e1003433	5	28
114	Evolution of intratumoral phenotypic heterogeneity: the role of trait inheritance. *Interface Focus*, **2013**, 3, 20130016	3.9	28
113	Modelling the spatio-temporal dynamics of multi-species host-parasitoid interactions: heterogeneous patterns and ecological implications. *Journal of Theoretical Biology*, **2006**, 241, 876-86	2.3	28

112	Cell signaling heterogeneity is modulated by both cell-intrinsic and -extrinsic mechanisms: An integrated approach to understanding targeted therapy. *PLoS Biology*, **2018**, 16, e2002930	9.7	28
111	IgA transcytosis and antigen recognition govern ovarian cancer immunity. *Nature*, **2021**, 591, 464-470	50.4	28
110	Perspectives on tissue interactions in development and disease. *Current Molecular Medicine*, **2010**, 10, 95-112	2.5	27
109	Chemotaxis-induced spatio-temporal heterogeneity in multi-species host-parasitoid systems. *Journal of Mathematical Biology*, **2007**, 55, 365-88	2	27
108	A mathematical analysis of a model for capillary network formation in the absence of endothelial cell proliferation. *Applied Mathematics Letters*, **1999**, 12, 121-127	3.5	27
107	Stochasticity in the Genotype-Phenotype Map: Implications for the Robustness and Persistence of Bet-Hedging. *Genetics*, **2016**, 204, 1523-1539	4	26
106	Mathematical modelling of tumour-induced angiogenesis: network growth and structure. *Cancer Treatment and Research*, **2004**, 117, 51-75	3.5	26
105	Immune interconnectivity of anatomically distant tumors as a potential mediator of systemic responses to local therapy. *Scientific Reports*, **2018**, 8, 9474	4.9	25
104	Model-controlled hydrodynamic focusing to generate multiple overlapping gradients of surface-immobilized proteins in microfluidic devices. *Lab on A Chip*, **2008**, 8, 238-44	7.2	25
103	Phase i trials in melanoma: A framework to translate preclinical findings to the clinic. *European Journal of Cancer*, **2016**, 67, 213-222	7.5	23
102	Hybrid Automata Library: A flexible platform for hybrid modeling with real-time visualization. *PLoS Computational Biology*, **2020**, 16, e1007635	5	22
101	Integrating Models to Quantify Environment-Mediated Drug Resistance. *Cancer Research*, **2017**, 77, 5409-5418		21
100	Nest expansion assay: a cancer systems biology approach to in vitro invasion measurements. *BMC Research Notes*, **2009**, 2, 130	2.3	21
99	A novel SandwichSassay for quantifying chemo-regulated cell migration within 3-dimensional matrices: wound healing cytokines exhibit distinct motogenic activities compared to the transmembrane assay. *Cytoskeleton*, **2006**, 63, 287-300		21
98	Evolutionary dynamics of neoantigens in growing tumors. *Nature Genetics*, **2020**, 52, 1057-1066	36.3	21
97	A gradient-driven mathematical model of antiangiogenesis. *Mathematical and Computer Modelling*, **2000**, 32, 1141-1152		20
96	The evolution of carrying capacity in constrained and expanding tumour cell populations. *Physical Biology*, **2015**, 12, 056001	3	18
95	Modelling evolutionary cell behaviour using neural networks: application to tumour growth. *BioSystems*, **2009**, 95, 166-74	1.9	18

94	Turnover Modulates the Need for a Cost of Resistance in Adaptive Therapy. *Cancer Research*, **2021**, 81, 1135-1147	10.1	18
93	The harsh microenvironment in early breast cancer selects for a Warburg phenotype. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	18
92	Big Bang and context-driven collapse. *Nature Genetics*, **2015**, 47, 196-7	36.3	17
91	Simulating PDGF-Driven Glioma Growth and Invasion in an Anatomically Accurate Brain Domain. *Bulletin of Mathematical Biology*, **2018**, 80, 1292-1309	2.1	17
90	The Goldilocks Window of Personalized Chemotherapy: Getting the Immune Response Just Right. *Cancer Research*, **2019**, 79, 5302-5315	10.1	17
89	Stem Cell Plasticity and Niche Dynamics in Cancer Progression. *IEEE Transactions on Biomedical Engineering*, **2017**, 64, 528-537	5	17
88	Evolving homeostatic tissue using genetic algorithms. *Progress in Biophysics and Molecular Biology*, **2011**, 106, 414-25	4.7	16
87	Diffusion-limited tumour growth: simulations and analysis. *Mathematical Biosciences and Engineering*, **2010**, 7, 385-400	2.1	16
86	Mathematical Modeling of the Metastatic Process **2013**, 189-208		16
85	Evolutionary dynamics of competing phenotype-structured populations in periodically fluctuating environments. *Journal of Mathematical Biology*, **2020**, 80, 775-807	2	15
84	The Immune Checkpoint Kick Start: Optimization of Neoadjuvant Combination Therapy Using Game Theory. *JCO Clinical Cancer Informatics*, **2019**, 3, 1-12	5.2	15
83	A filter-flow perspective of haematogenous metastasis offers a non-genetic paradigm for personalised cancer therapy. *European Journal of Cancer*, **2014**, 50, 3068-75	7.5	14
82	A multiscale model of the bone marrow and hematopoiesis. *Mathematical Biosciences and Engineering*, **2011**, 8, 643-58	2.1	14
81	From cells to tissue: How cell scale heterogeneity impacts glioblastoma growth and treatment response. *PLoS Computational Biology*, **2020**, 16, e1007672	5	13
80	Bridging population and tissue scale tumor dynamics: a new paradigm for understanding differences in tumor growth and metastatic disease. *Cancer Research*, **2014**, 74, 426-435	10.1	13
79	Comparative dynamics of microglial and glioma cell motility at the infiltrative margin of brain tumours. *Journal of the Royal Society Interface*, **2018**, 15,	4.1	12
78	In silico analysis suggests differential response to bevacizumab and radiation combination therapy in newly diagnosed glioblastoma. *Journal of the Royal Society Interface*, **2015**, 12, 20150388	4.1	12
77	Computational investigation of intrinsic and extrinsic mechanisms underlying the formation of carcinoma. *Mathematical Medicine and Biology*, **2012**, 29, 67-84	1.3	12

76	Model genotype-phenotype mappings and the algorithmic structure of evolution. *Journal of the Royal Society Interface*, **2019**, 16, 20190332	4.1	12
75	A Hybrid Discrete-Continuum Model of Tumour Induced Angiogenesis **2012**, 105-133		12
74	Clonal hematopoiesis of indeterminate potential and its impact on patient trajectories after stem cell transplantation. *PLoS Computational Biology*, **2019**, 15, e1006913	5	11
73	Systematic Screening of Chemokines to Identify Candidates to Model and Create Ectopic Lymph Node Structures for Cancer Immunotherapy. *Scientific Reports*, **2017**, 7, 15996	4.9	11
72	Stromal reactivity differentially drives tumour cell evolution and prostate cancer progression. *Nature Ecology and Evolution*, **2020**, 4, 870-884	12.3	10
71	A Hybrid Multiscale Model of Solid Tumour Growth and Invasion: Evolution and the Microenvironment **2007**, 3-28		10
70	Visualisation of the numerical solution of partial differential equation systems in three space dimensions and its importance for mathematical models in biology. *Mathematical Biosciences and Engineering*, **2006**, 3, 571-82	2.1	10
69	Bridging scales in cancer progression: mapping genotype to phenotype using neural networks. *Seminars in Cancer Biology*, **2015**, 30, 30-41	12.7	9
68	A Mathematical Dissection of the Adaptation of Cell Populations to Fluctuating Oxygen Levels. *Bulletin of Mathematical Biology*, **2020**, 82, 81	2.1	9
67	EvoFreq: visualization of the Evolutionary Frequencies of sequence and model data. *BMC Bioinformatics*, **2019**, 20, 710	3.6	9
66	Adaptive Therapy for Metastatic Melanoma: Predictions from Patient Calibrated Mathematical Models. *Cancers*, **2021**, 13,	6.6	9
65	Mix and Match: Phenotypic Coexistence as a Key Facilitator of Cancer Invasion. *Bulletin of Mathematical Biology*, **2020**, 82, 15	2.1	8
64	How simple grazing rules can lead to persistent boundaries in vegetation communities. *Oikos*, **2001**, 95, 15-24	4	8
63	MultiCellDS: a community-developed standard for curating microenvironment-dependent multicellular data		8
62	Normal tissue architecture determines the evolutionary course of cancer. *Nature Communications*, **2021**, 12, 2060	17.4	8
61	Recasting the Cancer Stem Cell Hypothesis: Unification Using a Continuum Model of Microenvironmental Forces. *Current Stem Cell Reports*, **2019**, 5, 22-30	1.8	7
60	An individual based model of rippling movement in a myxobacteria population. *Journal of Theoretical Biology*, **2005**, 234, 341-9	2.3	7
59	MultiCellDS: a standard and a community for sharing multicellular data		7

58	Searching for Goldilocks: How Evolution and Ecology Can Help Uncover More Effective Patient-Specific Chemotherapies. *Cancer Research*, **2020**, 80, 5147-5154	10.1	7
57	Mathematics of the Integrative Cancer Biology Program. *Interface Focus*, **2013**, 3, 20130023	3.9	6
56	Modelling the Impact of Pericyte Migration and Coverage of Vessels on the Efficacy of Vascular Disrupting Agents. *Mathematical Modelling of Natural Phenomena*, **2010**, 5, 163-202	3	6
55	Production of 2-hydroxyglutarate by isocitrate dehydrogenase 1-mutated gliomas: an evolutionary alternative to the Warburg shift?. *Neuro-Oncology*, **2011**, 13, 1262-4	1	6
54	A model of breast carcinogenesis and recurrence after radiotherapy. *Proceedings in Applied Mathematics and Mechanics*, **2007**, 7, 1121701-1121702	0.2	6
53	Turnover modulates the need for a cost of resistance in adaptive therapy		6
52	Spatial heterogeneity and evolutionary dynamics modulate time to recurrence in continuous and adaptive cancer therapies		6
51	Towards multi-drug adaptive therapy		6
50	Inferring Tumor Proliferative Organization from Phylogenetic Tree Measures in a Computational Model. *Systematic Biology*, **2020**, 69, 623-637	8.4	6
49	Blood Flow and Tumour-Induced Angiogenesis: Dynamically Adapting Vascular Networks **2012**, 167-212		6
48	Spatial structure impacts adaptive therapy by shaping intra-tumoral competition. *Communications Medicine*, **2022**, 2,		6
47	A Hybrid Discrete-continuum Technique for Individual-based Migration Models **2003**, 251-259		5
46	Hybrid Automata Library: A modular platform for efficient hybrid modeling with real-time visualization		5
45	Evolutionary dynamics of neoantigens in growing tumours		5
44	Niche engineering drives early passage through an immune bottleneck in progression to colorectal cancer		5
43	Sex differences in health and disease: A review of biological sex differences relevant to cancer with a spotlight on glioma. *Cancer Letters*, **2021**, 498, 178-187	9.9	5
42	Comparative study between discrete and continuum models for the evolution of competing phenotype-structured cell populations in dynamical environments. *Physical Review E*, **2020**, 102, 042404	2.4	4
41	Non-linear tumor-immune interactions arising from spatial metabolic heterogeneity		4

40	Spatial structure impacts adaptive therapy by shaping intra-tumoral competition		4
39	The dynamic tumor ecosystem: how cell turnover and trade-offs affect cancer evolution		4
38	Acidity promotes tumor progression by altering macrophage phenotype in prostate cancer		4
37	Tissue structure accelerates evolution: premalignant sweeps precede neutral expansion		4
36	Molecular Determinants of Thyroid Nodules with Indeterminate Cytology and Mutations. *Thyroid*, **2021**, 31, 36-49	6.2	4
35	Lesion Dynamics Under Varying Paracrine PDGF Signaling in Brain Tissue. *Bulletin of Mathematical Biology*, **2019**, 81, 1645-1664	2.1	3
34	Gene divergence and pathway duplication in the metabolic network of yeast and digital organisms. *Journal of the Royal Society Interface*, **2009**, 6, 1233-45	4.1	3
33	Fluctuating methylation clocks for cell lineage tracing at high temporal resolution in human tissues.. *Nature Biotechnology*, **2022**,	44.5	3
32	Clonal Architecture of the Epidermis: Homeostasis Limits Keratinocyte Evolution		3
31	Macrophage-mediated immunoediting drives ductal carcinoma evolution: Space is the game changer		3
30	The Influence of Cellular Characteristics on the Evolution of Shape Homeostasis. *Artificial Life*, **2017** , 23, 424-448	1.4	2
29	Application of the Hybrid Discrete-continuum Technique **2003**, 261-279		2
28	Abstract 24: A genetic model of metastatic evolution: Driver and passenger mutations affect metastatic fitness **2011**,		2
27	Evolution, Regulation and Disruption of Homeostatis and Its Role in Carcinogenesis. *Chapman & Hall/CRC Mathematical and Computational Biology Series*, **2010**, 1-30		2
26	Stromal Reactivity Differentially Drives Tumor Cell Evolution and Prostate Cancer Progression		2
25	Hybrid approach for parameter estimation in agent-based models		2
24	Antibiotic collateral sensitivity is contingent on the repeatability of evolution		2
23	NeoPredPipe: High-Throughput Neoantigen Prediction and Recognition Potential Pipeline		2

22	Homeostasis Back and Forth: An Eco-Evolutionary Perspective of Cancer		2
21	High School Internship Program in Integrated Mathematical Oncology (HIP IMO): Five-Year Experience at Moffitt Cancer Center. *Bulletin of Mathematical Biology*, **2020**, 82, 91	2.1	2
20	Histoecology: Applying Ecological Principles and Approaches to Describe and Predict Tumor Ecosystem Dynamics Across Space and Time. *Cancer Control*, **2020**, 27, 1073274820946804	2.2	2
19	Education and Outreach in Physical Sciences in Oncology. *Trends in Cancer*, **2021**, 7, 3-9	12.5	2
18	Ovarian cancer immunogenicity is governed by a narrow subset of progenitor tissue-resident memory T□cells.. *Cancer Cell*, **2022**,	24.3	2
17	Investigating prostate cancer tumour-stroma interactions - clinical and biological insights from an evolutionary game. *Nature Precedings*, **2011**,		1
16	Understanding the potential benefits of adaptive therapy for metastatic melanoma		1
15	VALIS: Virtual Alignment of pathoLogy Image Series		1
14	A Hybrid Mathematical Model of Solid Tumour Growth: Bridging the Genotype to Phenotype Chasm. *FASEB Journal*, **2007**, 21, A97	0.9	1
13	Stem Cell Plasticity and Niche Dynamics in Cancer Progression		1
12	Using neural networks to bridge scales in cancer: Mapping signaling pathways to phenotypes		1
11	Inferring Tumour Proliferative Organisation from Phylogenetic Tree Measures in a Computational Model		1
10	EvoFreq: Visualization of the Evolutionary Frequencies of Sequence and Model Data		1
9	Mix & Match: Phenotypic coexistence as a key facilitator of solid tumour invasion		1
8	Recasting the cancer stem cell hypothesis: unification using a continuum model of microenvironmental forces		1
7	IgA-dominated humoral immune responses govern patientsSoutcome in endometrial cancer.. *Cancer Research*, **2021**,	10.1	1
6	In Silico Investigations of Multi-Drug Adaptive Therapy Protocols. *Cancers*, **2022**, 14, 2699	6.6	1
5	The role of memory in non-genetic inheritance and its impact on cancer treatment resistance. *PLoS Computational Biology*, **2021**, 17, e1009348	5	0

4	Immunosuppressive niche engineering at the onset of human colorectal cancer.. *Nature Communications*, **2022**, 13, 1798	17.4	0
3	Mistic: An open-source multiplexed image t-SNE viewer. *Patterns*, **2022**, 100523	5.1	0
2	M for Invasion Morphology Mutation and the Microenvironment **2008**, 1-22		
1	Cell kinetics underlying grading of gliomas. *FASEB Journal*, **2008**, 22, 706.9	0.9	