

Non-genetic origins of cell-to-cell variability in TRAIL-i

Nature

459, 428-432

DOI: [10.1038/nature08012](https://doi.org/10.1038/nature08012)

Citation Report

#	ARTICLE	IF	CITATIONS
3	Kinematics Simulation and Structure Optimization of Tilting and Lifting Mechanism of ITER Tractor. Plasma Science and Technology, 2008, 10, 623-628.	0.7	0
4	Theoretical investigation of a backward wave oscillator. Chinese Physics C, 2008, 32, 290-293.	1.5	1
5	Non-genetic heterogeneity of cells in development: more than just noise. Development (Cambridge), 2009, 136, 3853-3862.	1.2	441
6	Genomic analysis reveals a tight link between transcription factor dynamics and regulatory network architecture. Molecular Systems Biology, 2009, 5, 294.	3.2	146
7	A simple tuning method for high-temperature superconductor microstrip filters by using two dielectric floating plates. Superconductor Science and Technology, 2009, 22, 025013.	1.8	2
8	Rapid and sustained nuclear cytoplasmic ERK oscillations induced by epidermal growth factor. Molecular Systems Biology, 2009, 5, 332.	3.2	216
9	Cell biologists expand their networks. Journal of Cell Biology, 2009, 186, 305-311.	2.3	7
10	Functional similarities and uniqueness of p27 and p57: Insight from a knock-in mouse model. Cell Cycle, 2009, 8, 2497-2501.	1.3	15
11	Quantification of Circadian Rhythms in Single Cells. PLoS Computational Biology, 2009, 5, e1000580.	1.5	88
12	Repeated Treatment with Subtoxic Doses of TRAIL Induces Resistance to Apoptosis through Its Death Receptors in MDA-MB-231 Breast Cancer Cells. Molecular Cancer Research, 2009, 7, 1835-1844.	1.5	48
14	When it is time to die. Nature, 2009, 459, 334-335.	13.7	22
15	Not all quiet on the noise front. Nature Chemical Biology, 2009, 5, 699-704.	3.9	17
16	Multi-parameter phenotypic profiling: using cellular effects to characterize small-molecule compounds. Nature Reviews Drug Discovery, 2009, 8, 567-578.	21.5	267
17	Systems genetics analysis of cancer susceptibility: from mouse models to humans. Nature Reviews Genetics, 2009, 10, 651-657.	7.7	50
18	Epigenetic gambling and epigenetic drift as an antagonistic pleiotropic mechanism of aging. Aging Cell, 2009, 8, 761-764.	3.0	55
19	Non-genetic cell-to-cell variability and the consequences for pharmacology. Current Opinion in Chemical Biology, 2009, 13, 556-561.	2.8	200
20	Of Elections and Cell-Death Decisions. Molecular Cell, 2009, 34, 257-258.	4.5	3
21	Dynamics and Variability of ERK2 Response to EGF in Individual Living Cells. Molecular Cell, 2009, 36, 885-893.	4.5	230

#	ARTICLE	IF	CITATIONS
22	Understanding apoptosis by systems biology approaches. <i>Molecular BioSystems</i> , 2009, 5, 1105.	2.9	45
23	Phosphoproteomics by mass spectrometry: insights, implications, applications and limitations. <i>Expert Review of Proteomics</i> , 2009, 6, 605-618.	1.3	39
24	Why Is Modern Medicine Stuck in a Rut?. <i>Perspectives in Biology and Medicine</i> , 2009, 52, 500-517.	0.3	21
25	Nuclear Origins of Cell-to-Cell Variability. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2010, 75, 87-94.	2.0	9
26	Downregulation of active caspase 8 as a mechanism of acquired TRAIL resistance in mismatch repair-proficient colon carcinoma cell lines. <i>International Journal of Oncology</i> , 2010, 37, 1031-41.	1.4	19
27	High-resolution mapping of prostaglandin E2-dependent signaling networks identifies a constitutively active PKA signaling node in CD8+CD45RO+ T cells. <i>Blood</i> , 2010, 116, 2253-2265.	0.6	39
28	Structure, evolution and dynamics of transcriptional regulatory networks. <i>Biochemical Society Transactions</i> , 2010, 38, 1155-1178.	1.6	21
29	Spatial and temporal information coding and noise in the NF- κ B system. <i>Biochemical Society Transactions</i> , 2010, 38, 1247-1250.	1.6	6
30	Diseases as network perturbations. <i>Current Opinion in Biotechnology</i> , 2010, 21, 566-571.	3.3	167
31	Bcl-2 inhibits apoptosis by increasing the time-to-death and intrinsic cell-to-cell variations in the mitochondrial pathway of cell death. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2010, 15, 1223-1233.	2.2	77
32	Small RNA Regulators of T Cell-Mediated Autoimmunity. <i>Journal of Clinical Immunology</i> , 2010, 30, 347-357.	2.0	25
33	Nanosystem drug targeting: Facing up to complex realities. <i>Journal of Controlled Release</i> , 2010, 141, 265-276.	4.8	243
34	Systems biology analysis of programmed cell death. <i>Trends in Biochemical Sciences</i> , 2010, 35, 556-564.	3.7	93
35	Systematic calibration of a cell signaling network model. <i>BMC Bioinformatics</i> , 2010, 11, 202.	1.2	37
36	Model-based extension of high-throughput to high-content data. <i>BMC Systems Biology</i> , 2010, 4, 106.	3.0	10
37	Stochastic Modeling of B Lymphocyte Terminal Differentiation and Its Suppression by Dioxin. <i>BMC Systems Biology</i> , 2010, 4, 40.	3.0	23
38	MicroRNAs: Oncogenes, tumor suppressors or master regulators of cancer heterogeneity?. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2010, 1805, 72-86.	3.3	49
39	Tumor heterogeneity: Causes and consequences. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2010, 1805, 105-117.	3.3	1,036

#	ARTICLE	IF	CITATIONS
40	Integrated single-cell analysis shows <i>Pichia pastoris</i> secretes protein stochastically. <i>Biotechnology and Bioengineering</i> , 2010, 106, 319-325.	1.7	41
41	TEA induces apoptosis of human breast cancer cells via activation of TRAIL/DR5 death receptor pathway. <i>Molecular Carcinogenesis</i> , 2010, 49, 964-973.	1.3	19
42	Systems biology of apoptosis signaling networks. <i>Current Opinion in Biotechnology</i> , 2010, 21, 551-555.	3.3	95
43	Trastuzumab Sensitizes Ovarian Cancer Cells to EGFR-targeted Therapeutics. <i>Journal of Ovarian Research</i> , 2010, 3, 7.	1.3	46
44	Network-based drugs and biomarkers. <i>Journal of Pathology</i> , 2010, 220, 290-296.	2.1	68
45	Review: On TRAIL for malignant glioma therapy?. <i>Neuropathology and Applied Neurobiology</i> , 2010, 36, 168-182.	1.8	54
46	New insights into apoptosis signaling by Apo2L/TRAIL. <i>Oncogene</i> , 2010, 29, 4752-4765.	2.6	314
47	Dissecting Variability in Responses to Cancer Chemotherapy Through Systems Pharmacology. <i>Clinical Pharmacology and Therapeutics</i> , 2010, 88, 34-38.	2.3	59
48	Single-cell NF- κ B dynamics reveal digital activation and analogue information processing. <i>Nature</i> , 2010, 466, 267-271.	13.7	736
49	Measurement of single-cell dynamics. <i>Nature</i> , 2010, 465, 736-745.	13.7	468
50	Functional roles for noise in genetic circuits. <i>Nature</i> , 2010, 467, 167-173.	13.7	1,320
51	Pannexin 1 channels mediate "find-me" signal release and membrane permeability during apoptosis. <i>Nature</i> , 2010, 467, 863-867.	13.7	929
52	Smac/DIABLO release from mitochondria and XIAP inhibition are essential to limit clonogenicity of Type I tumor cells after TRAIL receptor stimulation. <i>Cell Death and Differentiation</i> , 2010, 17, 1613-1623.	5.0	30
53	Pairing computation with experimentation: a powerful coupling for understanding T cell signalling. <i>Nature Reviews Immunology</i> , 2010, 10, 59-71.	10.6	55
54	Mapping the life histories of T cells. <i>Nature Reviews Immunology</i> , 2010, 10, 621-631.	10.6	50
55	Cytomorphic electronics: cell-inspired electronics for systems and synthetic biology. , 2010, , 753-786.		4
56	Stochastic Competition between Mechanistically Independent Slippage and Death Pathways Determines Cell Fate during Mitotic Arrest. <i>PLoS ONE</i> , 2010, 5, e15724.	1.1	56
57	Model-based dissection of CD95 signaling dynamics reveals both a pro- and antiapoptotic role of c-FLIPL. <i>Journal of Cell Biology</i> , 2010, 190, 377-389.	2.3	135

#	ARTICLE	IF	CITATIONS
58	A minimum of two distinct heritable factors are required to explain correlation structures in proliferating lymphocytes. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1049-1059.	1.5	27
59	Switchable genetic oscillator operating in quasi-stable mode. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1071-1082.	1.5	65
60	Knowledge-based data analysis comes of age. <i>Briefings in Bioinformatics</i> , 2010, 11, 30-39.	3.2	16
61	Activity of protein kinase CK2 uncouples Bid cleavage from caspase-8 activation. <i>Journal of Cell Science</i> , 2010, 123, 1401-1406.	1.2	28
62	Cellular and genetic diversity in the progression of in situ human breast carcinomas to an invasive phenotype. <i>Journal of Clinical Investigation</i> , 2010, 120, 636-644.	3.9	299
63	Cancer stem cells: a reality, a myth, a fuzzy concept or a misnomer? An analysis. <i>Carcinogenesis</i> , 2010, 31, 149-158.	1.3	74
64	Inducible Dimerization and Inducible Cleavage Reveal a Requirement for Both Processes in Caspase-8 Activation. <i>Journal of Biological Chemistry</i> , 2010, 285, 16632-16642.	1.6	178
65	A Genetically Encoded Multifunctional TRAIL Trimer Facilitates Cell-Specific Targeting and Tumor Cell Killing. <i>Molecular Cancer Therapeutics</i> , 2010, 9, 2142-2151.	1.9	19
66	In Vivo Imaging in Cancer. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a003848-a003848.	2.3	198
67	An Antiapoptotic Neuroprotective Role for Neuroglobin. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2306-2321.	1.8	59
68	Stochastic E2F Activation and Reconciliation of Phenomenological Cell-Cycle Models. <i>PLoS Biology</i> , 2010, 8, e1000488.	2.6	43
69	Cell death goes LIVE: Technological advances in real-time tracking of cell death. <i>Cell Cycle</i> , 2010, 9, 2330-2341.	1.3	29
70	High-content screening for the discovery of pharmacological compounds: advantages, challenges and potential benefits of recent technological developments. <i>Expert Opinion on Drug Discovery</i> , 2010, 5, 135-144.	2.5	16
71	Resonant activation: a strategy against bacterial persistence. <i>Physical Biology</i> , 2010, 7, 016013.	0.8	6
72	Patterns of basal signaling heterogeneity can distinguish cellular populations with different drug sensitivities. <i>Molecular Systems Biology</i> , 2010, 6, 369.	3.2	116
73	Variability in G-Protein-Coupled Signaling Studied with Microfluidic Devices. <i>Biophysical Journal</i> , 2010, 99, 2414-2422.	0.2	27
74	The Diffusion Coefficient for PGK Folding in Eukaryotic Cells. <i>Biophysical Journal</i> , 2010, 99, L69-L71.	0.2	35
75	On-Chip Activation and Subsequent Detection of Individual Antigen-Specific T Cells. <i>Analytical Chemistry</i> , 2010, 82, 473-477.	3.2	32

#	ARTICLE	IF	CITATIONS
76	The Caspase-8 Dimerization/Dissociation Balance Is a Highly Potent Regulator of Caspase-8, -3, -6 Signaling*. <i>Journal of Biological Chemistry</i> , 2010, 285, 33209-33218.	1.6	29
77	The BCL-2 Family Reunion. <i>Molecular Cell</i> , 2010, 37, 299-310.	4.5	1,295
78	Simplistic pathways or complex networks?. <i>Current Opinion in Genetics and Development</i> , 2010, 20, 15-22.	1.5	42
79	High-throughput, single-cell NF- κ B dynamics. <i>Current Opinion in Genetics and Development</i> , 2010, 20, 677-683.	1.5	27
80	Decision Making at a Subcellular Level Determines the Outcome of Bacteriophage Infection. <i>Cell</i> , 2010, 141, 682-691.	13.5	229
81	Cellular Heterogeneity: Do Differences Make a Difference?. <i>Cell</i> , 2010, 141, 559-563.	13.5	968
82	p53-Mediated Hematopoietic Stem and Progenitor Cell Competition. <i>Cell Stem Cell</i> , 2010, 6, 309-322.	5.2	298
83	Immunogenicity and immunomodulatory properties of HPMA-based polymers. <i>Advanced Drug Delivery Reviews</i> , 2010, 62, 184-191.	6.6	77
84	Cancer systems biology: a network modeling perspective. <i>Carcinogenesis</i> , 2010, 31, 2-8.	1.3	341
85	Monitoring impedance changes associated with motility and mitosis of a single cell. <i>Lab on A Chip</i> , 2010, 10, 2546.	3.1	26
86	Transcriptional feedbacks in mammalian signal transduction pathways facilitate rapid and reliable protein induction. <i>Molecular BioSystems</i> , 2010, 6, 1277.	2.9	10
87	Non-linear and linear enhancement of enzymatic reaction kinetics using a biomolecule concentrator. <i>Lab on A Chip</i> , 2011, 11, 2569.	3.1	18
88	Lyapunov exponents and phase diagrams reveal multifactorial control over TRAIL-induced apoptosis. <i>Molecular Systems Biology</i> , 2011, 7, 553.	3.2	62
89	Probing Intracellular Biomarkers and Mediators of Cell Activation Using Nanosensors and Bioorthogonal Chemistry. <i>ACS Nano</i> , 2011, 5, 3204-3213.	7.3	67
90	Imaging Single-Cell Signaling Dynamics with a Deterministic High-Density Single-Cell Trap Array. <i>Analytical Chemistry</i> , 2011, 83, 7044-7052.	3.2	130
92	Heterogeneity reduces sensitivity of cell death for TNF-Stimuli. <i>BMC Systems Biology</i> , 2011, 5, 204.	3.0	37
93	Role of persister cells in chronic infections: clinical relevance and perspectives on anti-persister therapies. <i>Journal of Medical Microbiology</i> , 2011, 60, 699-709.	0.7	356
95	Caspase-8 activity has an essential role in CD95/Fas-mediated MAPK activation. <i>Cell Death and Disease</i> , 2011, 2, e212-e212.	2.7	38

#	ARTICLE	IF	CITATIONS
96	Cellular Decision Making and Biological Noise: From Microbes to Mammals. <i>Cell</i> , 2011, 144, 910-925.	13.5	944
97	Measuring and Modeling Apoptosis in Single Cells. <i>Cell</i> , 2011, 144, 926-939.	13.5	354
98	Intravital Imaging. <i>Cell</i> , 2011, 147, 983-991.	13.5	439
99	We are all individuals: causes and consequences of non-genetic heterogeneity in mammalian cells. <i>Current Opinion in Genetics and Development</i> , 2011, 21, 753-758.	1.5	66
100	Caspase Substrates and Cellular Remodeling. <i>Annual Review of Biochemistry</i> , 2011, 80, 1055-1087.	5.0	272
101	Cell-to-cell variability of alternative RNA splicing. <i>Molecular Systems Biology</i> , 2011, 7, 506.	3.2	87
102	Timing is everything: stochastic origins of cell-to-cell variability in cancer cell death. <i>Frontiers in Bioscience - Landmark</i> , 2011, 16, 307.	3.0	17
103	Dynamical Consequences of Bandpass Feedback Loops in a Bacterial Phosphorelay. <i>PLoS ONE</i> , 2011, 6, e25102.	1.1	19
104	A Computational Systems Biology Software Platform for Multiscale Modeling and Simulation: Integrating Whole-Body Physiology, Disease Biology, and Molecular Reaction Networks. <i>Frontiers in Physiology</i> , 2011, 2, 4.	1.3	167
105	Division of labor by dual feedback regulators controls JAK2/STAT5 signaling over broad ligand range. <i>Molecular Systems Biology</i> , 2011, 7, 516.	3.2	110
106	Strong negative feedback from Erk to Raf confers robustness to MAPK signalling. <i>Molecular Systems Biology</i> , 2011, 7, 489.	3.2	172
107	Natural selection. II. Developmental variability and evolutionary rate*. <i>Journal of Evolutionary Biology</i> , 2011, 24, 2310-2320.	0.8	52
108	Nuclear organization and transcriptional dynamics in <i>Dictyostelium</i> . <i>Development Growth and Differentiation</i> , 2011, 53, 576-586.	0.6	26
109	Development and applications of single-cell transcriptome analysis. <i>Nature Methods</i> , 2011, 8, S6-S11.	9.0	280
110	Adaptive informatics for multifactorial and high-content biological data. <i>Nature Methods</i> , 2011, 8, 487-492.	9.0	65
111	Origins of regulated cell-to-cell variability. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 119-125.	16.1	307
112	Imaging the coordination of multiple signalling activities in living cells. <i>Nature Reviews Molecular Cell Biology</i> , 2011, 12, 749-756.	16.1	124
113	Chemotherapy overcomes TRAIL-R4-mediated TRAIL resistance at the DISC level. <i>Cell Death and Differentiation</i> , 2011, 18, 700-711.	5.0	75

#	ARTICLE	IF	CITATIONS
114	TRAIL-transduced multipotent mesenchymal stromal cells (TRAIL-MSC) overcome TRAIL resistance in selected CRC cell lines in vitro and in vivo. <i>Cancer Gene Therapy</i> , 2011, 18, 229-239.	2.2	85
115	Varying virulence: epigenetic control of expression noise and disease processes. <i>Trends in Biotechnology</i> , 2011, 29, 517-525.	4.9	57
116	Analysis of heterogeneous cell populations: A density-based modeling and identification framework. <i>Journal of Process Control</i> , 2011, 21, 1417-1425.	1.7	24
117	Cell-to-Cell Variability in PI3K Protein Level Regulates PI3K-AKT Pathway Activity in Cell Populations. <i>Current Biology</i> , 2011, 21, 173-183.	1.8	91
118	New Strategies in the Molecular Targeting of Glioblastoma: How Do You Hit a Moving Target?. <i>Clinical Cancer Research</i> , 2011, 17, 6-11.	3.2	24
119	A Fluorescent Reporter of AMPK Activity and Cellular Energy Stress. <i>Cell Metabolism</i> , 2011, 13, 476-486.	7.2	130
120	Decision Making in Living Cells: Lessons from a Simple System. <i>Annual Review of Biophysics</i> , 2011, 40, 63-80.	4.5	55
121	Simulating Quantitative Cellular Responses Using Asynchronous Threshold Boolean Network Ensembles. <i>BMC Systems Biology</i> , 2011, 5, 109.	3.0	27
122	Identification of models of heterogeneous cell populations from population snapshot data. <i>BMC Bioinformatics</i> , 2011, 12, 125.	1.2	88
123	The Bcl-2-associated death promoter (BAD) lowers the threshold at which the Bcl-2-interacting domain death agonist (BID) triggers mitochondria disintegration. <i>Journal of Theoretical Biology</i> , 2011, 271, 114-123.	0.8	30
124	Using Noisy Gene Expression Mediated by Engineered Adenovirus to Probe Signaling Dynamics in Mammalian Cells. <i>Methods in Enzymology</i> , 2011, 497, 221-237.	0.4	2
125	Origins of Stochastic Intracellular Processes and Consequences for Cell-to-Cell Variability and Cellular Survival Strategies. <i>Methods in Enzymology</i> , 2011, 500, 597-625.	0.4	18
126	Effect of Photobiomodulation on Vinblastine-Poisoned Murine HERS Cells. <i>Photomedicine and Laser Surgery</i> , 2011, 29, 233-237.	2.1	2
127	Intersection of FOXO- and RUNX1-mediated gene expression programs in single breast epithelial cells during morphogenesis and tumor progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E803-12.	3.3	108
128	SCF ^{Cdc4} Enables Mating Type Switching in Yeast by Cyclin-Dependent Kinase-Mediated Elimination of the Ash1 Transcriptional Repressor. <i>Molecular and Cellular Biology</i> , 2011, 31, 584-598.	1.1	15
129	Optical spectroscopy investigation of N ₂ ⁺ CH ₄ plasma jets simulating Titan atmospheric entry conditions. <i>Plasma Sources Science and Technology</i> , 2011, 20, 015015.	1.3	10
130	Modeling Reveals That Dynamic Regulation of c-FLIP Levels Determines Cell-to-Cell Distribution of CD95-mediated Apoptosis. <i>Journal of Biological Chemistry</i> , 2011, 286, 18375-18382.	1.6	16
131	Micro-NMR for Rapid Molecular Analysis of Human Tumor Samples. <i>Science Translational Medicine</i> , 2011, 3, 71ra16.	5.8	191

#	ARTICLE	IF	CITATIONS
132	Alternative splicing variability: exactly how similar are two identical cells?. <i>Molecular Systems Biology</i> , 2011, 7, 505.	3.2	3
133	Transformation-Dependent Silencing of Tumor-Selective Apoptosis-Inducing TRAIL by DNA Hypermethylation Is Antagonized by Decitabine. <i>Molecular Cancer Therapeutics</i> , 2011, 10, 1611-1623.	1.9	14
134	Random partitioning of molecules at cell division. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15004-15009.	3.3	191
135	Distinct levels of Notch activity for commitment and terminal differentiation of stem cells in the adult fly intestine. <i>Development (Cambridge)</i> , 2011, 138, 4585-4595.	1.2	137
136	Cells see the light to bring signaling under control. <i>Nature Methods</i> , 2011, 8, 808-809.	9.0	0
137	The Role of Incoherent MicroRNA-Mediated Feedforward Loops in Noise Buffering. <i>PLoS Computational Biology</i> , 2011, 7, e1001101.	1.5	225
138	Exploring the Contextual Sensitivity of Factors that Determine Cell-to-Cell Variability in Receptor-Mediated Apoptosis. <i>PLoS Computational Biology</i> , 2012, 8, e1002482.	1.5	79
139	Mitochondrial Variability as a Source of Extrinsic Cellular Noise. <i>PLoS Computational Biology</i> , 2012, 8, e1002416.	1.5	104
140	Modular Design of Artificial Tissue Homeostasis: Robust Control through Synthetic Cellular Heterogeneity. <i>PLoS Computational Biology</i> , 2012, 8, e1002579.	1.5	41
141	Tumor Heterogeneity: Mechanisms and Bases for a Reliable Application of Molecular Marker Design. <i>International Journal of Molecular Sciences</i> , 2012, 13, 1951-2011.	1.8	132
142	Nonheritable Cellular Variability Accelerates the Evolutionary Processes of Cancer. <i>PLoS Biology</i> , 2012, 10, e1001296.	2.6	55
143	Stochastic Expression of the Interferon- β Gene. <i>PLoS Biology</i> , 2012, 10, e1001249.	2.6	107
144	Heterogeneous kinetics of AKT signaling in individual cells are accounted for by variable protein concentration. <i>Frontiers in Physiology</i> , 2012, 3, 451.	1.3	43
145	Global kinetic analysis of proteolysis via quantitative targeted proteomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1913-1918.	3.3	169
146	Kinetics in Signal Transduction Pathways Involving Promiscuous Oligomerizing Receptors Can Be Determined by Receptor Specificity: Apoptosis Induction by TRAIL. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.013730.	2.5	25
147	Cell death detection by quantitative three-dimensional single-cell tomography. <i>Biomedical Optics Express</i> , 2012, 3, 2111.	1.5	15
148	Quantifying Crosstalk Among Interferon- β , Interleukin-12, and Tumor Necrosis Factor Signaling Pathways Within a T _H 1 Cell Model. <i>Science Signaling</i> , 2012, 5, ra32.	1.6	25
149	Modeling cell-to-cell stochastic variability in intrinsic apoptosis pathway. , 2012, 2012, 5498-501.		0

#	ARTICLE	IF	CITATIONS
150	Activation-Induced B Cell Fates Are Selected by Intracellular Stochastic Competition. <i>Science</i> , 2012, 335, 338-341.	6.0	199
151	A20 Ubiquitin Ligase-Mediated Polyubiquitination of RIP1 Inhibits Caspase-8 Cleavage and TRAIL-Induced Apoptosis in Glioblastoma. <i>Cancer Discovery</i> , 2012, 2, 140-155.	7.7	104
152	Conceptualizing a tool to optimize therapy based on dynamic heterogeneity. <i>Physical Biology</i> , 2012, 9, 065005.	0.8	18
153	Predicting rates of cell state change caused by stochastic fluctuations using a data-driven landscape model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19262-19267.	3.3	47
154	MODELING AND ANALYSIS OF BIOPATHWAYS DYNAMICS. <i>Journal of Bioinformatics and Computational Biology</i> , 2012, 10, 1231001.	0.3	15
155	Keeping an open mind: highlights and controversies of the breast cancer stem cell theory. <i>Breast Cancer: Targets and Therapy</i> , 2012, 4, 155.	1.0	18
156	<i>In Vivo</i> Imaging of Drug-Induced Mitochondrial Outer Membrane Permeabilization at Single-Cell Resolution. <i>Cancer Research</i> , 2012, 72, 2949-2956.	0.4	19
157	Control of nanoparticle synthesis using physical and chemical dynamics of gas-liquid interfacial non-equilibrium plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 124027.	0.9	19
158	Generalized principles of stochasticity can be used to control dynamic heterogeneity. <i>Physical Biology</i> , 2012, 9, 065006.	0.8	7
159	MODELING CELL HETEROGENEITY: FROM SINGLE-CELL VARIATIONS TO MIXED CELLS. , 2012, , .		1
160	Multi-layered stochasticity and paracrine signal propagation shape the type-1 interferon response. <i>Molecular Systems Biology</i> , 2012, 8, 584.	3.2	139
161	Robustness-based Model Validation of an Apoptosis Signalling Network Model. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012, 45, 930-935.	0.4	1
162	The Chaos Within. <i>Significance</i> , 2012, 9, 17-21.	0.3	20
163	Modeling Single Cells in Systems Biology. , 2012, , 145-161.		0
164	Measurement and Modeling of Signaling at the Single-Cell Level. <i>Biochemistry</i> , 2012, 51, 7433-7443.	1.2	33
165	Characterization of the seminal plasma proteome in men with prostatitis by mass spectrometry. <i>Clinical Proteomics</i> , 2012, 9, 2.	1.1	31
166	New-found fundamentals of bacterial persistence. <i>Trends in Microbiology</i> , 2012, 20, 577-585.	3.5	126
167	Single-cell analysis of the dynamics and functional outcomes of interactions between human natural killer cells and target cells. <i>Integrative Biology (United Kingdom)</i> , 2012, 4, 1175.	0.6	80

#	ARTICLE	IF	CITATIONS
168	Mammalian protein expression noise: scaling principles and the implications for knockdown experiments. <i>Molecular BioSystems</i> , 2012, 8, 3068.	2.9	15
169	Une cellule type?. <i>Journal of Molecular and Cellular Cardiology</i> , 2012, 52, 921-922.	0.9	1
170	From single cells to deep phenotypes in cancer. <i>Nature Biotechnology</i> , 2012, 30, 639-647.	9.4	197
171	A Two-Dimensional ERK-AKT Signaling Code for an NGF-Triggered Cell-Fate Decision. <i>Molecular Cell</i> , 2012, 45, 196-209.	4.5	119
172	Cellular Noise Regulons Underlie Fluctuations in <i>Saccharomyces cerevisiae</i> . <i>Molecular Cell</i> , 2012, 45, 483-493.	4.5	143
173	Physiological validation of cell health upon probing with carbon nanotube endoscope and its benefit for single-cell interrogation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 590-598.	1.7	19
174	The human proteome – a scientific opportunity for transforming diagnostics, therapeutics, and healthcare. <i>Clinical Proteomics</i> , 2012, 9, 6.	1.1	41
175	A visual analytics approach for models of heterogeneous cell populations. <i>Eurasip Journal on Bioinformatics and Systems Biology</i> , 2012, 2012, 4.	1.4	8
176	Emergence of bimodal cell population responses from the interplay between analog single-cell signaling and protein expression noise. <i>BMC Systems Biology</i> , 2012, 6, 109.	3.0	89
177	Intra-tumour heterogeneity: a looking glass for cancer?. <i>Nature Reviews Cancer</i> , 2012, 12, 323-334.	12.8	1,668
178	Theoretical Aspects of Cellular Decision-Making and Information-Processing. <i>Advances in Experimental Medicine and Biology</i> , 2012, 736, 275-291.	0.8	11
179	Using Imaging Methods to Interrogate Radiation-Induced Cell Signaling. <i>Radiation Research</i> , 2012, 177, 496-507.	0.7	0
180	Modeling Formalisms in Systems Biology of Apoptosis. , 2012, , 1-32.		1
181	The molecular mechanism of apoptosis upon caspase-8 activation: Quantitative experimental validation of a mathematical model. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2012, 1823, 1825-1840.	1.9	47
182	Functional Roles of Slow Enzyme Conformational Changes in Network Dynamics. <i>Biophysical Journal</i> , 2012, 103, 1052-1059.	0.2	17
183	Challenges ahead in signal transduction: MAPK as an example. <i>Current Opinion in Biotechnology</i> , 2012, 23, 305-314.	3.3	39
184	Non-genetic diversity shapes infectious capacity and host resistance. <i>Trends in Microbiology</i> , 2012, 20, 461-466.	3.5	45
185	Towards experimental manipulation of stochasticity in gene expression. <i>Progress in Biophysics and Molecular Biology</i> , 2012, 110, 44-53.	1.4	16

#	ARTICLE	IF	CITATIONS
186	Tumor progression: Chance and necessity in Darwinian and Lamarckian somatic (mutationless) evolution. <i>Progress in Biophysics and Molecular Biology</i> , 2012, 110, 69-86.	1.4	61
187	Analytical Technologies for Integrated Single-Cell Analysis of Human Immune Responses. <i>Methods in Molecular Biology</i> , 2012, 853, 211-235.	0.4	9
188	9.16 Systems Immunology: A Primer for Biophysicists. , 2012, , 389-413.		0
189	Using Cell-to-Cell Variabilityâ€”A New Era in Molecular Biology. <i>Science</i> , 2012, 336, 425-426.	6.0	153
190	Single-Cell Analysis. <i>Methods in Molecular Biology</i> , 2012, 853, v-vi.	0.4	6
191	Global Analysis of Dynamical Decision-Making Models through Local Computation around the Hidden Saddle. <i>PLoS ONE</i> , 2012, 7, e33110.	1.1	18
192	Noise Propagation in Two-Step Series MAPK Cascade. <i>PLoS ONE</i> , 2012, 7, e35958.	1.1	12
193	Normal morphogenesis of epithelial tissues and progression of epithelial tumors. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012, 4, 51-78.	6.6	42
194	Combining qualitative information and semiâ€”quantitative data for guaranteed invalidation of biochemical network models. <i>International Journal of Robust and Nonlinear Control</i> , 2012, 22, 1157-1173.	2.1	21
195	Histone deacetylase inhibitor-mediated sensitization to TRAIL-induced apoptosis in childhood malignancies is not associated with upregulation of TRAIL receptor expression, but with potentiated caspase-8 activation. <i>Cancer Biology and Therapy</i> , 2012, 13, 417-424.	1.5	13
196	Nanoprobes for intracellular and single cell surfaceâ€”enhanced Raman spectroscopy (SERS). <i>Journal of Raman Spectroscopy</i> , 2012, 43, 817-827.	1.2	64
197	Role of intratumoural heterogeneity in cancer drug resistance: molecular and clinical perspectives. <i>EMBO Molecular Medicine</i> , 2012, 4, 675-684.	3.3	223
198	Shortâ€”term information processing, longâ€”term responses: Insights by mathematical modeling of signal transduction. <i>BioEssays</i> , 2012, 34, 542-550.	1.2	16
199	Microfluidically-unified cell culture, sample preparation, imaging and flow cytometry for measurement of cell signaling pathways with single cell resolution. <i>Lab on A Chip</i> , 2012, 12, 2823.	3.1	32
200	Novel Computational Approaches to Polypharmacology as a Means to Define Responses to Individual Drugs. <i>Annual Review of Pharmacology and Toxicology</i> , 2012, 52, 361-379.	4.2	194
201	Resistance to TRAIL and how to surmount it. <i>Immunologic Research</i> , 2012, 52, 157-168.	1.3	48
202	Predictive mathematical models of cancer signalling pathways. <i>Journal of Internal Medicine</i> , 2012, 271, 155-165.	2.7	56
203	Single-cell protein analysis. <i>Current Opinion in Biotechnology</i> , 2012, 23, 83-88.	3.3	149

#	ARTICLE	IF	CITATIONS
204	Interplay between gene expression noise and regulatory network architecture. <i>Trends in Genetics</i> , 2012, 28, 221-232.	2.9	235
205	Mathematical modeling of apoptosis. <i>Cell Communication and Signaling</i> , 2013, 11, 44.	2.7	39
206	Live cell imaging reveals marked variability in myoblast proliferation and fate. <i>Skeletal Muscle</i> , 2013, 3, 10.	1.9	7
207	Diversity training for signal transduction: leveraging cell-to-cell variability to dissect cellular signaling, differentiation and death. <i>Current Opinion in Biotechnology</i> , 2013, 24, 760-766.	3.3	14
208	Systems Biology of Apoptosis. , 2013, , .		4
209	Robustness of signal transduction pathways. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 2259-2269.	2.4	25
210	Statistical ensemble analysis for simulating extrinsic noise-driven response in NF- κ B signaling networks. <i>BMC Systems Biology</i> , 2013, 7, 45.	3.0	9
211	Predictive power of cell-to-cell variability. <i>Quantitative Biology</i> , 2013, 1, 131-139.	0.3	23
212	Network nonlinearities in drug treatment. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2013, 5, 85-94.	2.2	7
213	Single-cell and subcellular pharmacokinetic imaging allows insight into drug action in vivo. <i>Nature Communications</i> , 2013, 4, 1504.	5.8	172
214	Using Bayesian-PBPK modeling for assessment of inter-individual variability and subgroup stratification. <i>In Silico Pharmacology</i> , 2013, 1, 6.	1.8	41
215	Genome-wide Consequences of Deleting Any Single Gene. <i>Molecular Cell</i> , 2013, 52, 485-494.	4.5	163
216	Programming biological models in Python using PySB. <i>Molecular Systems Biology</i> , 2013, 9, 646.	3.2	216
217	The Role of Cell Density and Intratumoral Heterogeneity in Multidrug Resistance. <i>Cancer Research</i> , 2013, 73, 7168-7175.	0.4	59
218	Integration of Protein Abundance and Structure Data Reveals Competition in the ErbB Signaling Network. <i>Science Signaling</i> , 2013, 6, ra109.	1.6	48
219	Modeling heterogeneous responsiveness of intrinsic apoptosis pathway. <i>BMC Systems Biology</i> , 2013, 7, 65.	3.0	18
220	The p53 response in single cells is linearly correlated to the number of DNA breaks without a distinct threshold. <i>BMC Biology</i> , 2013, 11, 114.	1.7	65
221	Metrics other than potency reveal systematic variation in responses to cancer drugs. <i>Nature Chemical Biology</i> , 2013, 9, 708-714.	3.9	280

#	ARTICLE	IF	CITATIONS
222	Properties of cell death models calibrated and compared using Bayesian approaches. <i>Molecular Systems Biology</i> , 2013, 9, 644.	3.2	89
223	Determinants of robustness in spindle assembly checkpoint signalling. <i>Nature Cell Biology</i> , 2013, 15, 1328-1339.	4.6	92
224	Stochastic profiling of transcriptional regulatory heterogeneities in tissues, tumors and cultured cells. <i>Nature Protocols</i> , 2013, 8, 282-301.	5.5	32
225	Variable Clonal Repopulation Dynamics Influence Chemotherapy Response in Colorectal Cancer. <i>Science</i> , 2013, 339, 543-548.	6.0	691
226	Model systems for rapid and slow induction of apoptosis obtained by inducible expression of pro-apoptotic proteins. <i>Autoimmunity</i> , 2013, 46, 329-335.	1.2	10
227	Cellular Heterogeneity and Molecular Evolution in Cancer. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2013, 8, 277-302.	9.6	420
228	Modelling the effect of GRP78 on anti-oestrogen sensitivity and resistance in breast cancer. <i>Interface Focus</i> , 2013, 3, 20130012.	1.5	26
229	Particle Carriers for Combating Multidrug-Resistant Cancer. <i>ACS Nano</i> , 2013, 7, 9512-9517.	7.3	89
230	Pulling the plug on a cancer cell by eliminating XIAP with AEG35156. <i>Cancer Letters</i> , 2013, 332, 215-224.	3.2	41
231	A threshold mechanism mediates p53 cell fate decision between growth arrest and apoptosis. <i>Cell Death and Differentiation</i> , 2013, 20, 576-588.	5.0	225
232	Live or let die: posttranscriptional gene regulation in cell stress and cell death. <i>Immunological Reviews</i> , 2013, 253, 237-252.	2.8	31
233	Radiotherapy and TRAIL for cancer therapy. <i>Cancer Letters</i> , 2013, 332, 184-193.	3.2	17
234	The details in the distributions: why and how to study phenotypic variability. <i>Current Opinion in Biotechnology</i> , 2013, 24, 752-759.	3.3	96
235	The <i>Coxiella burnetii</i> type IV secretion system substrate CaeB inhibits intrinsic apoptosis at the mitochondrial level. <i>Cellular Microbiology</i> , 2013, 15, 675-687.	1.1	90
236	Nanoarchitected Electrochemical Cytosensors for Selective Detection of Leukemia Cells and Quantitative Evaluation of Death Receptor Expression on Cell Surfaces. <i>Analytical Chemistry</i> , 2013, 85, 5609-5616.	3.2	57
237	Modeling Signaling Networks with Different Formalisms: A Preview. <i>Methods in Molecular Biology</i> , 2013, 1021, 89-105.	0.4	5
238	Real-time imaging of the dynamics of death receptors and therapeutics that overcome TRAIL resistance in tumors. <i>Oncogene</i> , 2013, 32, 2818-2827.	2.6	44
239	Systems modelling methodology for the analysis of apoptosis signal transduction and cell death decisions. <i>Methods</i> , 2013, 61, 165-173.	1.9	13

#	ARTICLE	IF	CITATIONS
240	Genetic and non-genetic instability in tumor progression: link between the fitness landscape and the epigenetic landscape of cancer cells. <i>Cancer and Metastasis Reviews</i> , 2013, 32, 423-448.	2.7	154
241	The TRAIL of oncogenes to apoptosis. <i>BioFactors</i> , 2013, 39, 343-354.	2.6	33
242	Silica phagocytosis causes apoptosis and necrosis by different temporal and molecular pathways in alveolar macrophages. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2013, 18, 271-285.	2.2	86
243	Inactivation of the Hippo tumour suppressor pathway by integrin-linked kinase. <i>Nature Communications</i> , 2013, 4, 2976.	5.8	176
244	Caspase Functions in Cell Death and Disease. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a008656-a008656.	2.3	1,660
245	Automated analysis of clonal cancer cells by intravital imaging. <i>Intravital</i> , 2013, 2, e26138.	2.0	17
246	Shooting Movies of Signaling Network Dynamics with Multiparametric Cytometry. <i>Current Topics in Microbiology and Immunology</i> , 2013, 377, 177-189.	0.7	3
247	Elimination of Self-Reactive T Cells in the Thymus: A Timeline for Negative Selection. <i>PLoS Biology</i> , 2013, 11, e1001566.	2.6	68
248	STL-based Analysis of TRAIL-induced Apoptosis Challenges the Notion of Type I/Type II Cell Line Classification. <i>PLoS Computational Biology</i> , 2013, 9, e1003056.	1.5	17
249	Characterizing the Relationship between Steady State and Response Using Analytical Expressions for the Steady States of Mass Action Models. <i>PLoS Computational Biology</i> , 2013, 9, e1002901.	1.5	18
250	Determinants of Cell-to-Cell Variability in Protein Kinase Signaling. <i>PLoS Computational Biology</i> , 2013, 9, e1003357.	1.5	20
251	Complexity of Receptor Tyrosine Kinase Signal Processing. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a009043-a009043.	2.3	70
252	Evolution of intratumoral phenotypic heterogeneity: the role of trait inheritance. <i>Interface Focus</i> , 2013, 3, 20130016.	1.5	36
253	Event timing at the single-cell level. <i>Briefings in Functional Genomics</i> , 2013, 12, 90-98.	1.3	33
254	Cell-to-Cell Variability Analysis Dissects the Plasticity of Signaling of Common \hat{I}^3 Chain Cytokines in T Cells. <i>Science Signaling</i> , 2013, 6, ra17.	1.6	61
255	Modulating cell-to-cell variability and sensitivity to death ligands by co-drugging. <i>Physical Biology</i> , 2013, 10, 035002.	0.8	19
256	The effect of serial data collection on the accuracy of electrical impedance tomography images. <i>Physiological Measurement</i> , 2013, 34, 659-669.	1.2	12
257	Dynamics of the DNA damage response: insights from live-cell imaging. <i>Briefings in Functional Genomics</i> , 2013, 12, 109-117.	1.3	16

#	ARTICLE	IF	CITATIONS
258	Monte Carlo Study Elucidates the Type 1/Type 2 Choice in Apoptotic Death Signaling in Healthy and Cancer Cells. <i>Cells</i> , 2013, 2, 361-392.	1.8	3
259	Noise in genetic circuits: Hindrance or chance?. , 2013, , .		0
260	Inferring signalling networks from images. <i>Journal of Microscopy</i> , 2013, 252, 1-7.	0.8	5
261	Dissecting genealogy and cell cycle as sources of cell-to-cell variability in MAPK signaling using high-throughput lineage tracking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11403-11408.	3.3	43
262	Chemical kinetic mechanistic models to investigate cancer biology and impact cancer medicine. <i>Physical Biology</i> , 2013, 10, 026004.	0.8	3
263	Probing Endoplasmic Reticulum Dynamics using Fluorescence Imaging and Photobleaching Techniques. <i>Current Protocols in Cell Biology</i> , 2013, 60, Unit 21.7..	2.3	15
264	Cells surviving fractional killing by TRAIL exhibit transient but sustainable resistance and inflammatory phenotypes. <i>Molecular Biology of the Cell</i> , 2013, 24, 2186-2200.	0.9	84
265	Imaging burst kinetics and spatial coordination during serial killing by single natural killer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 6488-6493.	3.3	103
266	Quantifying Heterogeneity of Cell Death. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 181-186.	0.4	0
267	Noise Propagation in Series Enzymatic Cascades. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013, 46, 89-94.	0.4	4
268	Lessons Learned from Quantitative Dynamical Modeling in Systems Biology. <i>PLoS ONE</i> , 2013, 8, e74335.	1.1	275
269	Decision-Tree Based Model Analysis for Efficient Identification of Parameter Relations Leading to Different Signaling States. <i>PLoS ONE</i> , 2013, 8, e82593.	1.1	13
270	Do rational numbers play a role in selection for stochasticity?. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 113.	1.2	0
271	Single cell transcriptional analysis reveals novel innate immune cell types. <i>PeerJ</i> , 2014, 2, e452.	0.9	11
272	Personalized Cancer Therapy. , 2014, , 671-824.		1
273	Phenotypic noise: effects of postâ€transcriptional regulatory processes affecting <sc>mRNA</sc>. <i>Wiley Interdisciplinary Reviews RNA</i> , 2014, 5, 197-207.	3.2	9
274	Information transfer by leaky, heterogeneous, protein kinase signaling systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E326-33.	3.3	94
275	Network of mutually repressive metastasis regulators can promote cell heterogeneity and metastatic transitions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E364-73.	3.3	123

#	ARTICLE	IF	CITATIONS
276	Cell-to-cell variability in cell death: can systems biology help us make sense of it all?. <i>Cell Death and Disease</i> , 2014, 5, e1261-e1261.	2.7	34
277	In silico model-based inference: A contemporary approach for hypothesis testing in network biology. <i>Biotechnology Progress</i> , 2014, 30, 1247-1261.	1.3	18
278	Small molecules, big effects: the role of microRNAs in regulation of cardiomyocyte death. <i>Cell Death and Disease</i> , 2014, 5, e1325-e1325.	2.7	50
279	From computational modelling of the intrinsic apoptosis pathway to a systems-based analysis of chemotherapy resistance: achievements, perspectives and challenges in systems medicine. <i>Cell Death and Disease</i> , 2014, 5, e1258-e1258.	2.7	30
280	Systems biology of death receptor networks: live and let die. <i>Cell Death and Disease</i> , 2014, 5, e1259-e1259.	2.7	72
281	Mathematical Modeling of the Phoenix Rising Pathway. <i>PLoS Computational Biology</i> , 2014, 10, e1003461.	1.5	8
282	ODE Constrained Mixture Modelling: A Method for Unraveling Subpopulation Structures and Dynamics. <i>PLoS Computational Biology</i> , 2014, 10, e1003686.	1.5	44
283	Reliable Encoding of Stimulus Intensities Within Random Sequences of Intracellular Ca ²⁺ Spikes. <i>Science Signaling</i> , 2014, 7, ra59.	1.6	101
284	Modeling Dynamics of Cell-to-Cell Variability in TRAIL-Induced Apoptosis Explains Fractional Killing and Predicts Reversible Resistance. <i>PLoS Computational Biology</i> , 2014, 10, e1003893.	1.5	50
285	Stress induced telomere shortening: longer life with less mutations?. <i>BMC Systems Biology</i> , 2014, 8, 27.	3.0	20
286	Chemical imaging of live fibroblasts by SERS effective nanofilm. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24621-24634.	1.3	20
287	Homeostatic control of polo-like kinase-1 engenders non-genetic heterogeneity in G2 checkpoint fidelity and timing. <i>Nature Communications</i> , 2014, 5, 4048.	5.8	42
288	Effect of Small-Molecule Modification on Single-Cell Pharmacokinetics of PARP Inhibitors. <i>Molecular Cancer Therapeutics</i> , 2014, 13, 986-995.	1.9	42
289	Multidimensional Profiling in the Investigation of Small-Molecule-Induced Cell Death. <i>Methods in Enzymology</i> , 2014, 545, 265-302.	0.4	9
290	Locally Disordered Methylation Forms the Basis of Intratumor Methylome Variation in Chronic Lymphocytic Leukemia. <i>Cancer Cell</i> , 2014, 26, 813-825.	7.7	323
291	Advances in Intravital Microscopy. , 2014, , .		4
292	Applications in Cancer Research: Mathematical Models of Apoptosis. , 2014, , 455-481.		0
293	Plasminogen activator urokinase expression reveals TRAIL responsiveness and supports fractional survival of cancer cells. <i>Cell Death and Disease</i> , 2014, 5, e1043-e1043.	2.7	25

#	ARTICLE	IF	CITATIONS
294	Real-time quantification of protein expression and translocation at individual cell resolution using imaging-dish-based live cell array. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7085-7101.	1.9	4
295	Modeling stochastic phenotype switching and betâ€hedging in bacteria: stochastic nonlinear dynamics and critical state identification. <i>Quantitative Biology</i> , 2015, 2, 110-125.	0.3	25
296	Revitalizing Personalized Medicine: Respecting Biomolecular Complexities Beyond Gene Expression. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2014, 3, 1-11.	1.3	5
297	Complexities in Quantitative Systems Analysis of Signaling Networks. , 2014, , 65-88.		2
298	Rapid Assessment and Visualization of Normality in High-Content and Other Cell-Level Data and Its Impact on the Interpretation of Experimental Results. <i>Journal of Biomolecular Screening</i> , 2014, 19, 672-684.	2.6	13
299	The Progression of Cell Death Affects the Rejection of Allogeneic Tumors in Immune-Competent Mice Āĉâ, -â€œ Implications for Cancer Therapy. <i>Frontiers in Immunology</i> , 2014, 5, 560.	2.2	20
300	Glioblastoma Multiforme: A Look Inside Its Heterogeneous Nature. <i>Cancers</i> , 2014, 6, 226-239.	1.7	177
301	Efficient parametric inference for stochastic biological systems with measured variability. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2014, 13, 379-90.	0.2	12
302	TRIM27/MRTF-B-Dependent Integrin Ĩ ²¹ Expression Defines Leading Cells in Cancer Cell Collectives. <i>Cell Reports</i> , 2014, 7, 1156-1167.	2.9	36
303	A steroid-controlled global switch in sensitivity to apoptosis during <i>Drosophila</i> development. <i>Developmental Biology</i> , 2014, 386, 34-41.	0.9	22
304	Glioblastoma: From Molecular Pathology to Targeted Treatment. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2014, 9, 1-25.	9.6	427
305	Clonal evolution in hematological malignancies and therapeutic implications. <i>Leukemia</i> , 2014, 28, 34-43.	3.3	138
306	Microfluidic probe for single-cell analysis in adherent tissue culture. <i>Nature Communications</i> , 2014, 5, 3421.	5.8	90
307	Evolution of the Cancer Stem Cell Model. <i>Cell Stem Cell</i> , 2014, 14, 275-291.	5.2	1,825
308	Harnessing system models of cell death signalling for cytotoxic chemotherapy: towards personalised medicine approaches?. <i>Journal of Molecular Medicine</i> , 2014, 92, 227-237.	1.7	11
309	Death ligand concentration and the membrane proximal signaling module regulate the type 1/type 2 choice in apoptotic death signaling. <i>Systems and Synthetic Biology</i> , 2014, 8, 83-97.	1.0	5
310	High-Dimensional Single Cell Analysis. <i>Current Topics in Microbiology and Immunology</i> , 2014, , .	0.7	4
311	Cell competition: how to eliminate your neighbours. <i>Development (Cambridge)</i> , 2014, 141, 988-1000.	1.2	172

#	ARTICLE	IF	CITATIONS
312	Fold Change of Nuclear NF- κ B Determines TNF-Induced Transcription in Single Cells. <i>Molecular Cell</i> , 2014, 53, 867-879.	4.5	229
313	Cancer Cell Profiling by Barcoding Allows Multiplexed Protein Analysis in Fine-Needle Aspirates. <i>Science Translational Medicine</i> , 2014, 6, 219ra9.	5.8	142
314	Quantitative analysis of resistance to natural killer attacks reveals stepwise killing kinetics. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 1153-1161.	0.6	6
315	Gap Junctions Suppress Electrical but Not [Ca ²⁺] Heterogeneity in Resistance Arteries. <i>Biophysical Journal</i> , 2014, 107, 2467-2476.	0.2	8
316	Mass Cytometry to Decipher the Mechanism of Nongenetic Drug Resistance in Cancer. <i>Current Topics in Microbiology and Immunology</i> , 2014, 377, 85-94.	0.7	7
317	Basal p21 controls population heterogeneity in cycling and quiescent cell cycle states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4386-93.	3.3	100
318	Nanoconjugation: a materials approach to enhance epidermal growth factor induced apoptosis. <i>Biomaterials Science</i> , 2014, 2, 156-166.	2.6	19
319	Quantification of ErbB Network Proteins in Three Cell Types Using Complementary Approaches Identifies Cell-General and Cell-Type-Specific Signaling Proteins. <i>Journal of Proteome Research</i> , 2014, 13, 300-313.	1.8	12
320	A time- and matrix-dependent TGFBR3- κ JUND- κ KRT5 regulatory circuit in single breast epithelial cells and basal-like premalignancies. <i>Nature Cell Biology</i> , 2014, 16, 345-356.	4.6	70
321	Tissue-culture light sheet fluorescence microscopy (TC-LSFM) allows long-term imaging of three-dimensional cell cultures under controlled conditions. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 988-998.	0.6	39
322	Molecular extraction in single live cells by sneaking in and out magnetic nanomaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10966-10971.	3.3	20
323	Biophysical and biological meanings of healthspan from <i>C. elegans</i> cohort. <i>Biochemical and Biophysical Research Communications</i> , 2014, 452, 36-41.	1.0	1
324	Illuminating cell signalling with optogenetic tools. <i>Nature Reviews Molecular Cell Biology</i> , 2014, 15, 551-558.	16.1	317
325	Recent Progress in Design of Protein-Based Fluorescent Biosensors and Their Cellular Applications. <i>ACS Chemical Biology</i> , 2014, 9, 2708-2717.	1.6	93
326	The influence of monoacylglycerol lipase inhibition upon the expression of epidermal growth factor receptor in human PC-3 prostate cancer cells. <i>BMC Research Notes</i> , 2014, 7, 441.	0.6	13
327	Detecting Kinase Activities from Single Cell Lysate Using Concentration-Enhanced Mobility Shift Assay. <i>Analytical Chemistry</i> , 2014, 86, 7455-7462.	3.2	39
328	A G-Protein Subunit Translocation Embedded Network Motif Underlies GPCR Regulation of Calcium Oscillations. <i>Biophysical Journal</i> , 2014, 107, 242-254.	0.2	27
329	Autophagic flux determines cell death and survival in response to Apo2L/TRAIL (dulanermin). <i>Molecular Cancer</i> , 2014, 13, 70.	7.9	62

#	ARTICLE	IF	CITATIONS
330	A Fundamental Trade-off in Covalent Switching and Its Circumvention by Enzyme Bifunctionality in Glucose Homeostasis. <i>Journal of Biological Chemistry</i> , 2014, 289, 13010-13025.	1.6	33
331	Single cell behavior in T cell differentiation. <i>Trends in Immunology</i> , 2014, 35, 170-177.	2.9	28
332	Nonlinear signalling networks and cell-to-cell variability transform external signals into broadly distributed or bimodal responses. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140383.	1.5	24
333	Autophagy Controls the Kinetics and Extent of Mitochondrial Apoptosis by Regulating PUMA Levels. <i>Cell Reports</i> , 2014, 7, 45-52.	2.9	93
334	“Particle genetics”™: treating every cell as unique. <i>Trends in Genetics</i> , 2014, 30, 49-56.	2.9	17
335	Single-cell RNA-seq reveals dynamic paracrine control of cellular variation. <i>Nature</i> , 2014, 510, 363-369.	13.7	872
336	Environmental sensing, information transfer, and cellular decision-making. <i>Current Opinion in Biotechnology</i> , 2014, 28, 149-155.	3.3	107
337	Toward therapeutic effects evaluation of chronic myeloid leukemia drug: Electrochemical platform for caspase-3 activity sensing. <i>Biosensors and Bioelectronics</i> , 2014, 61, 648-654.	5.3	24
338	Different involvement of extracellular calcium in two modes of cell death induced by nanosecond pulsed electric fields. <i>Archives of Biochemistry and Biophysics</i> , 2014, 555-556, 47-54.	1.4	51
339	Identifiability of population models via a measure theoretical approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 1717-1722.	0.4	7
340	A Flow Cytometric Clonogenic Assay Reveals the Single-Cell Potency of Doxorubicin. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 4409-4416.	1.6	13
341	Simulation-guided parameter synthesis for chance-constrained optimization of control systems. , 2015, , .		0
342	Platelets induce apoptosis via membrane-bound FasL. <i>Blood</i> , 2015, 126, 1483-1493.	0.6	68
344	The asymmetry of telomere replication contributes to replicative senescence heterogeneity. <i>Scientific Reports</i> , 2015, 5, 15326.	1.6	23
345	Orthogonal control of expression mean and variance by epigenetic features at different genomic loci. <i>Molecular Systems Biology</i> , 2015, 11, 806.	3.2	95
346	Applying an Inducible Expression System to Study Interference of Bacterial Virulence Factors with Intracellular Signaling. <i>Journal of Visualized Experiments</i> , 2015, , e52903.	0.2	8
347	Negative Interactions and Feedback Regulations Are Required for Transient Cellular Response. <i>Scientific Reports</i> , 2015, 4, 3718.	1.6	17
348	Integrating Multiscale Modeling with Drug Effects for Cancer Treatment. <i>Cancer Informatics</i> , 2015, 14s5, CIN.S30797.	0.9	10

#	ARTICLE	IF	CITATIONS
349	Tuneable endogenous mammalian target complementation via multiplexed plasmid-based recombineering. <i>Scientific Reports</i> , 2015, 5, 17432.	1.6	4
350	Autophagy capacity and sub-mitochondrial heterogeneity shape Bnip3-induced mitophagy regulation of apoptosis. <i>Cell Communication and Signaling</i> , 2015, 13, 37.	2.7	36
351	A multi-scale approach reveals that NF- κ B el enforces a cell decision to divide. <i>Molecular Systems Biology</i> , 2015, 11, 783.	3.2	25
352	Single-cell polyadenylation site mapping reveals isoform choice variability. <i>Molecular Systems Biology</i> , 2015, 11, 812.	3.2	52
353	A mathematical model for apoptotic switch in <i>Drosophila</i> . <i>Physical Biology</i> , 2015, 12, 056003.	0.8	3
354	http://www.omicsgroup.org/journals/high-density-lipoproteins-natures-endogenous-nanovehicles-are-pushing-alzheimers-drug-discovery-1461271.html <i>Cell & Developmental Biology</i> , 2015, 04, .	0.3	0
355	A new measurement matrix optimal algorithm based on SVD. , 2015, , .		0
356	Lifetime Distributions from Tracking Individual BC3H1 Cells Subjected to Yessotoxin. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 166.	2.0	9
357	Optimizing Population Variability to Maximize Benefit. <i>PLoS ONE</i> , 2015, 10, e0143475.	1.1	0
358	A Comprehensive Systems Biological Study of Autophagy-Apoptosis Crosstalk during Endoplasmic Reticulum Stress. <i>BioMed Research International</i> , 2015, 2015, 1-12.	0.9	44
359	Colloquium: Random first order transition theory concepts in biology and physics. <i>Reviews of Modern Physics</i> , 2015, 87, 183-209.	16.4	117
360	Advances in measuring single-cell pharmacology in vivo. <i>Drug Discovery Today</i> , 2015, 20, 1087-1092.	3.2	41
361	Personalized Therapy of Cancer. , 2015, , 199-381.		1
362	Single-cell variation leads to population invariance in NF- κ B signaling dynamics. <i>Molecular Biology of the Cell</i> , 2015, 26, 583-590.	0.9	44
363	Fractional killing arises from cell-to-cell variability in overcoming a caspase activity threshold. <i>Molecular Systems Biology</i> , 2015, 11, 803.	3.2	132
364	Towards automatic image analysis and assessment of the multicellular apoptosis process. <i>IET Image Processing</i> , 2015, 9, 424-433.	1.4	2
365	Theoretical predictions on the first-passage time for a gene expression model. , 2015, , .		9
366	Intracellular FRET-based probes: a review. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 042006.	1.1	80

#	ARTICLE	IF	CITATIONS
367	Simulating tissue mechanics with agent-based models: concepts, perspectives and some novel results. <i>Computational Particle Mechanics</i> , 2015, 2, 401-444.	1.5	210
368	Measuring Caspase Activity by Förster Resonance Energy Transfer. <i>Cold Spring Harbor Protocols</i> , 2015, 2015, pdb.prot082560.	0.2	10
369	Significance of p53 dynamics in regulating apoptosis in response to ionizing radiation and polypharmacological strategies. <i>Scientific Reports</i> , 2014, 4, 6245.	1.6	41
371	Computational analysis of signaling patterns in single cells. <i>Seminars in Cell and Developmental Biology</i> , 2015, 37, 35-43.	2.3	21
372	Testing Chemotherapeutic Agents in the Feather Follicle Identifies a Selective Blockade of Cell Proliferation and a Key Role for Sonic Hedgehog Signaling in Chemotherapy-Induced Tissue Damage. <i>Journal of Investigative Dermatology</i> , 2015, 135, 690-700.	0.3	27
373	High-Content Analysis with Cellular and Tissue Systems Biology. , 2015, , 369-392.e7.		9
374	Stochastic Particle Barcoding for Single-Cell Tracking and Multiparametric Analysis. <i>Small</i> , 2015, 11, 489-498.	5.2	9
375	Big Bang and context-driven collapse. <i>Nature Genetics</i> , 2015, 47, 196-197.	9.4	20
376	Transcriptional and Translational Heterogeneity among Neonatal Mouse Spermatogonia1. <i>Biology of Reproduction</i> , 2015, 92, 54.	1.2	87
377	Multiple-Protein Detections of Single-Cells Reveal Cell-to-Cell Heterogeneity in Human Cells. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 30-38.	2.5	2
378	Analysis of single-cell cytokine secretion reveals a role for paracrine signaling in coordinating macrophage responses to TLR4 stimulation. <i>Science Signaling</i> , 2015, 8, ra59.	1.6	126
379	Control of cancer formation by intrinsic genetic noise and microenvironmental cues. <i>Nature Reviews Cancer</i> , 2015, 15, 499-509.	12.8	65
380	Distinct single-cell signaling characteristics are conferred by the MyD88 and TRIF pathways during TLR4 activation. <i>Science Signaling</i> , 2015, 8, ra69.	1.6	103
381	Apoptosis induction-related cytosolic calcium responses revealed by the dual FRET imaging of calcium signals and caspase-3 activation in a single cell. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 82-87.	1.0	12
382	Surviving apoptosis: life-to-death signaling in single cells. <i>Trends in Cell Biology</i> , 2015, 25, 446-458.	3.6	120
383	The volumes and transcript counts of single cells reveal concentration homeostasis and capture biological noise. <i>Molecular Biology of the Cell</i> , 2015, 26, 797-804.	0.9	121
384	Trailing TRAIL Resistance: Novel Targets for TRAIL Sensitization in Cancer Cells. <i>Frontiers in Oncology</i> , 2015, 5, 69.	1.3	184
385	Single-cell PCR of genomic DNA enabled by automated single-cell printing for cell isolation. <i>Biosensors and Bioelectronics</i> , 2015, 69, 301-306.	5.3	47

#	ARTICLE	IF	CITATIONS
386	Higher gene expression variability in the more aggressive subtype of chronic lymphocytic leukemia. <i>Genome Medicine</i> , 2015, 7, 8.	3.6	57
387	Classic reaction kinetics can explain complex patterns of antibiotic action. <i>Science Translational Medicine</i> , 2015, 7, 287ra73.	5.8	67
388	Global variability in gene expression and alternative splicing is modulated by mitochondrial content. <i>Genome Research</i> , 2015, 25, 633-644.	2.4	101
389	Textbook of Personalized Medicine. , 2015, , .		27
390	Dynamics of Cell Fate Decision Mediated by the Interplay of Autophagy and Apoptosis in Cancer Cells. Springer Theses, 2015, , .	0.0	17
391	Unraveling liver complexity from molecular to organ level: Challenges and perspectives. <i>Progress in Biophysics and Molecular Biology</i> , 2015, 117, 78-86.	1.4	16
392	Intra-tumor heterogeneity of cancer cells and its implications for cancer treatment. <i>Acta Pharmacologica Sinica</i> , 2015, 36, 1219-1227.	2.8	193
393	Synthetic Biology: A Unifying View and Review Using Analog Circuits. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2015, 9, 453-474.	2.7	62
394	Closed-form stochastic solutions for non-equilibrium dynamics and inheritance of cellular components over many cell divisions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150050.	1.0	39
395	Studying Cellular Signal Transduction with OMIC Technologies. <i>Journal of Molecular Biology</i> , 2015, 427, 3416-3440.	2.0	4
396	Modeling Signaling Networks to Advance New Cancer Therapies. <i>Annual Review of Biomedical Engineering</i> , 2015, 17, 143-163.	5.7	34
397	A Cytomorphic Chip for Quantitative Modeling of Fundamental Bio-Molecular Circuits. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2015, 9, 527-542.	2.7	33
398	G Proteinâ€“Coupled Receptor Signaling Networks from a Systems Perspective. <i>Molecular Pharmacology</i> , 2015, 88, 604-616.	1.0	8
399	High-throughput protease activity cytometry reveals dose-dependent heterogeneity in PMA-mediated ADAM17 activation. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 513-524.	0.6	18
400	Temporal Heterogeneity Metrics in Apoptosis Induced by Anticancer Drugs. <i>Journal of Histochemistry and Cytochemistry</i> , 2015, 63, 494-510.	1.3	21
401	Single-cell and multivariate approaches in genetic perturbation screens. <i>Nature Reviews Genetics</i> , 2015, 16, 18-32.	7.7	80
402	Modeling intrinsic heterogeneity and growth of cancer cells. <i>Journal of Theoretical Biology</i> , 2015, 367, 262-277.	0.8	29
403	Computational and experimental single cell biology techniques for the definition of cell type heterogeneity, interplay and intracellular dynamics. <i>Current Opinion in Biotechnology</i> , 2015, 34, 9-15.	3.3	29

#	ARTICLE	IF	CITATIONS
404	The Role of Autophagy in Cell Death. , 2016, , 139-154.		2
405	In Silico Approach to Find an Optimal Strategy in Selective Targeting of Cancer Cells. Journal of Computer Science and Systems Biology, 2016, 9, .	0.0	1
406	Time-Resolved Study of Nanoparticle Induced Apoptosis Using Microfabricated Single Cell Arrays. Microarrays (Basel, Switzerland), 2016, 5, 8.	1.4	9
407	Lineage tracing of human B cells reveals the in vivo landscape of human antibody class switching. ELife, 2016, 5, .	2.8	113
408	Exploiting Single-Cell Quantitative Data to Map Genetic Variants Having Probabilistic Effects. PLoS Genetics, 2016, 12, e1006213.	1.5	11
409	Drosophila Wnt and STAT Define Apoptosis-Resistant Epithelial Cells for Tissue Regeneration after Irradiation. PLoS Biology, 2016, 14, e1002536.	2.6	49
410	Noise Expands the Response Range of the Bacillus subtilis Competence Circuit. PLoS Computational Biology, 2016, 12, e1004793.	1.5	20
411	Cellular Interrogation: Exploiting Cell-to-Cell Variability to Discriminate Regulatory Mechanisms in Oscillatory Signalling. PLoS Computational Biology, 2016, 12, e1004995.	1.5	5
412	Single-cell profiling approaches to probing tumor heterogeneity. International Journal of Cancer, 2016, 139, 243-255.	2.3	52
413	Systems Pharmacology and Pharmacodynamics. AAPS Advances in the Pharmaceutical Sciences Series, 2016, , .	0.2	9
414	Dynamics of Protein Kinase Cascades. , 2016, , 44-50.		0
415	Stochastic Analysis of Nongenetic Cell-to-Cell Heterogeneity. , 2016, , 218-226.		0
416	Signal transduction controls heterogeneous NF- κ B dynamics and target gene expression through cytokine-specific refractory states. Nature Communications, 2016, 7, 12057.	5.8	80
417	NF- κ B signalling and cell fate decisions in response to a short pulse of tumour necrosis factor. Scientific Reports, 2016, 6, 39519.	1.6	51
418	Fas/CD95 prevents autoimmunity independently of lipid raft localization and efficient apoptosis induction. Nature Communications, 2016, 7, 13895.	5.8	45
419	Tracking the evolution of cancer cell populations through the mathematical lens of phenotype-structured equations. Biology Direct, 2016, 11, 43.	1.9	56
420	Using Systems Pharmacology to Advance Oncology Drug Development. AAPS Advances in the Pharmaceutical Sciences Series, 2016, , 421-463.	0.2	1
421	High-Content Quantification of Single-Cell Immune Dynamics. Cell Reports, 2016, 15, 411-422.	2.9	117

#	ARTICLE	IF	CITATIONS
422	Mitosis and mitochondrial priming for apoptosis. <i>Biological Chemistry</i> , 2016, 397, 595-605.	1.2	10
423	Activated human mesenchymal stem/stromal cells suppress metastatic features of MDA-MB-231 cells by secreting IFN- γ . <i>Cell Death and Disease</i> , 2016, 7, e2191-e2191.	2.7	23
424	Cell-to-Cell Variation in p53 Dynamics Leads to Fractional Killing. <i>Cell</i> , 2016, 165, 631-642.	13.5	253
425	Application of single-cell RNA sequencing in optimizing a combinatorial therapeutic strategy in metastatic renal cell carcinoma. <i>Genome Biology</i> , 2016, 17, 80.	3.8	170
426	An approach for deciphering patient-specific variations with application to breast cancer molecular expression profiles. <i>Journal of Biomedical Informatics</i> , 2016, 63, 120-130.	2.5	9
427	Morphological single cell profiling of the epithelial \rightarrow mesenchymal transition. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 1133-1144.	0.6	56
428	Modeling Tumor Growth in Animals and Humans: An Evolutionary Approach. , 2016, , 209-235.		1
429	Mitochondria and the non \rightarrow genetic origins of cell \rightarrow cell variability: More is different. <i>BioEssays</i> , 2016, 38, 64-76.	1.2	23
430	Variation is function: Are single cell differences functionally important?. <i>BioEssays</i> , 2016, 38, 172-180.	1.2	66
431	Analysis of Cell Lineage Trees by Exact Bayesian Inference Identifies Negative Autoregulation of Nanog in Mouse Embryonic Stem Cells. <i>Cell Systems</i> , 2016, 3, 480-490.e13.	2.9	30
432	A simplified Bcl-2 network model reveals quantitative determinants of cell-to-cell variation in sensitivity to anti-mitotic chemotherapeutics. <i>Scientific Reports</i> , 2016, 6, 36585.	1.6	4
433	Signal Transduction at the Single-Cell Level: Approaches to Study the Dynamic Nature of Signaling Networks. <i>Journal of Molecular Biology</i> , 2016, 428, 3669-3682.	2.0	32
434	Tissue homogeneity requires inhibition of unequal gene silencing during development. <i>Journal of Cell Biology</i> , 2016, 214, 319-331.	2.3	7
435	Microfluidic enrichment for the single cell analysis of circulating tumor cells. <i>Scientific Reports</i> , 2016, 6, 22076.	1.6	109
436	Persistence to anti-cancer treatments in the stationary to proliferating transition. <i>Cell Cycle</i> , 2016, 15, 3442-3453.	1.3	36
437	Highly variable cancer subpopulations that exhibit enhanced transcriptome variability and metastatic fitness. <i>Nature Communications</i> , 2016, 7, 11246.	5.8	108
438	Dichotomy of cellular inhibition by small-molecule inhibitors revealed by single-cell analysis. <i>Nature Communications</i> , 2016, 7, 12428.	5.8	20
439	To Prime, or Not to Prime: That Is the Question. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2016, 81, 131-140.	2.0	46

#	ARTICLE	IF	CITATIONS
440	Deep Learning in Label-free Cell Classification. <i>Scientific Reports</i> , 2016, 6, 21471.	1.6	368
441	Mechanical slowing-down of cytoplasmic diffusion allows in vivo counting of proteins in individual cells. <i>Nature Communications</i> , 2016, 7, 11641.	5.8	46
442	Quantifying intrinsic and extrinsic control of single-cell fates in cancer and stem/progenitor cell pedigrees with competing risks analysis. <i>Scientific Reports</i> , 2016, 6, 27100.	1.6	11
443	Inferring extrinsic noise from single-cell gene expression data using approximate Bayesian computation. <i>BMC Systems Biology</i> , 2016, 10, 81.	3.0	25
444	A role of stochastic phenotype switching in generating mosaic endothelial cell heterogeneity. <i>Nature Communications</i> , 2016, 7, 10160.	5.8	81
445	Multiplexed imaging of intracellular protein networks. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2016, 89, 761-775.	1.1	21
446	Robustness of MEK-ERK Dynamics and Origins of Cell-to-Cell Variability in MAPK Signaling. <i>Cell Reports</i> , 2016, 15, 2524-2535.	2.9	57
447	The systems biology of signaling pathways. <i>Biophysics (Russian Federation)</i> , 2016, 61, 78-84.	0.2	3
449	Substrate stiffness orchestrates epithelial cellular heterogeneity with controlled proliferative pattern via E-cadherin/ β 2-catenin mechanotransduction. <i>Acta Biomaterialia</i> , 2016, 41, 169-180.	4.1	19
450	What's Luck Got to Do with It: Single Cells, Multiple Fates, and Biological Nondeterminism. <i>Molecular Cell</i> , 2016, 62, 788-802.	4.5	179
451	Intratumor Heterogeneity in Breast Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2016, 882, 169-189.	0.8	111
453	Distinguishing between stochasticity and determinism: Examples from cell cycle duration variability. <i>BioEssays</i> , 2016, 38, 8-13.	1.2	11
454	Endothelial cells decode VEGF-mediated Ca^{2+} signaling patterns to produce distinct functional responses. <i>Science Signaling</i> , 2016, 9, ra20.	1.6	85
455	Adjustable under-expression of yeast mating pathway proteins in <i>Saccharomyces cerevisiae</i> using a programmed ribosomal frameshift. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 4997-5005.	1.7	0
456	A Perspective on Implementing a Quantitative Systems Pharmacology Platform for Drug Discovery and the Advancement of Personalized Medicine. <i>Journal of Biomolecular Screening</i> , 2016, 21, 521-534.	2.6	46
457	Mathematical Modeling Reveals That Changes to Local Cell Density Dynamically Modulate Baseline Variations in Cell Growth and Drug Response. <i>Cancer Research</i> , 2016, 76, 2882-2890.	0.4	28
458	Passive Noise Filtering by Cellular Compartmentalization. <i>Cell</i> , 2016, 164, 1151-1161.	13.5	100
459	Temporal Heterogeneity in Apoptosis Determined by Imaging Flow Cytometry. <i>Methods in Molecular Biology</i> , 2016, 1389, 221-233.	0.4	9

#	ARTICLE	IF	CITATIONS
460	A Historical Perspective on Bacterial Persistence. <i>Methods in Molecular Biology</i> , 2016, 1333, 3-13.	0.4	19
461	Characterising live cell behaviour: Traditional label-free and quantitative phase imaging approaches. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 84, 89-95.	1.2	86
462	First-passage time approach to controlling noise in the timing of intracellular events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 693-698.	3.3	98
463	Accelerating Live Single-Cell Signalling Studies. <i>Trends in Biotechnology</i> , 2017, 35, 422-433.	4.9	29
464	SESSION INTRODUCTION. , 2017, 22, 557-563.		0
465	Adaptive resistance of melanoma cells to <scp>RAF</scp> inhibition via reversible induction of a slowly dividing deâ€differentiated state. <i>Molecular Systems Biology</i> , 2017, 13, 905.	3.2	202
466	Biologically Relevant Heterogeneity: Metrics and Practical Insights. <i>SLAS Discovery</i> , 2017, 22, 213-237.	1.4	65
467	Current status of mathematical modeling of cancer â€From the viewpoint of cancer hallmarks. <i>Current Opinion in Systems Biology</i> , 2017, 2, 39-48.	1.3	28
468	Microchip-based single-cell functional proteomics for biomedical applications. <i>Lab on A Chip</i> , 2017, 17, 1250-1263.	3.1	54
469	A population genetics perspective on the determinants of intra-tumor heterogeneity. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2017, 1867, 109-126.	3.3	37
470	Mitochondrial BAX Determines the Predisposition to Apoptosis in Human AML. <i>Clinical Cancer Research</i> , 2017, 23, 4805-4816.	3.2	26
471	Caspases and their substrates. <i>Cell Death and Differentiation</i> , 2017, 24, 1380-1389.	5.0	549
472	Fundamental trade-offs between information flow in single cells and cellular populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5755-5760.	3.3	106
473	Quantitating drug-target engagement in single cells in vitro and in vivo. <i>Nature Chemical Biology</i> , 2017, 13, 168-173.	3.9	81
474	Heterogeneous DNA methylation status in same-cell subpopulations of ovarian cancer tissues. <i>Tumor Biology</i> , 2017, 39, 101042831770165.	0.8	4
475	Inertial Microfluidic Cell Stretcher (iMCS): Fully Automated, Highâ€Throughput, and Near Realâ€Time Cell Mechanotyping. <i>Small</i> , 2017, 13, 1700705.	5.2	56
476	Measuring Cancer Drug Sensitivity and Resistance in Cultured Cells. <i>Current Protocols in Chemical Biology</i> , 2017, 9, 55-74.	1.7	31
477	Systematic Quantification of Population Cell Death Kinetics in Mammalian Cells. <i>Cell Systems</i> , 2017, 4, 600-610.e6.	2.9	91

#	ARTICLE	IF	CITATIONS
478	Rare cell variability and drug-induced reprogramming as a mode of cancer drug resistance. <i>Nature</i> , 2017, 546, 431-435.	13.7	938
479	Exploring the TRAILs less travelled: TRAIL in cancer biology and therapy. <i>Nature Reviews Cancer</i> , 2017, 17, 352-366.	12.8	438
480	Abstracting the dynamics of biological pathways using information theory: a case study of apoptosis pathway. <i>Bioinformatics</i> , 2017, 33, 1980-1986.	1.8	10
481	A unified model of the hierarchical and stochastic theories of gastric cancer. <i>British Journal of Cancer</i> , 2017, 116, 973-989.	2.9	33
482	Demystifying the cytokine network: Mathematical models point the way. <i>Cytokine</i> , 2017, 98, 115-123.	1.4	32
483	Robust Synthetic Circuits for Two-Dimensional Control of Gene Expression in Yeast. <i>ACS Synthetic Biology</i> , 2017, 6, 545-554.	1.9	63
484	Influence of salinomycin treatment on division and movement of individual cancer cells cultured in normoxia or hypoxia evaluated with time-lapse digital holographic microscopy. <i>Cell Cycle</i> , 2017, 16, 2128-2138.	1.3	22
485	Dual role of DR5 in death and survival signaling leads to TRAIL resistance in cancer cells. <i>Cell Death and Disease</i> , 2017, 8, e3025-e3025.	2.7	40
486	Single-cell Gene Expression Profiling Using FACS and qPCR with Internal Standards. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	5
487	Chemotherapeutic dosing implicated by pharmacodynamic modeling of in vitro cytotoxic data: a case study of paclitaxel. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2017, 44, 491-501.	0.8	3
488	GPU-powered model analysis with PySB/cupSODA. <i>Bioinformatics</i> , 2017, 33, 3492-3494.	1.8	17
489	Crosstalk and the evolvability of intracellular communication. <i>Nature Communications</i> , 2017, 8, 16009.	5.8	29
490	How to address cellular heterogeneity by distribution biology. <i>Current Opinion in Systems Biology</i> , 2017, 3, 154-160.	1.3	30
491	System Modeling of Receptor-Induced Apoptosis. <i>Resistance To Targeted Anti-cancer Therapeutics</i> , 2017, , 291-307.	0.1	1
492	Quantitative assessment of cell fate decision between autophagy and apoptosis. <i>Scientific Reports</i> , 2017, 7, 17605.	1.6	42
493	Neuromodulatory Control of Long-Term Behavioral Patterns and Individuality across Development. <i>Cell</i> , 2017, 171, 1649-1662.e10.	13.5	124
494	Late-Arriving Signals Contribute Less to Cell-Fate Decisions. <i>Biophysical Journal</i> , 2017, 113, 2110-2120.	0.2	26
495	Excitability in the p53 network mediates robust signaling with tunable activation thresholds in single cells. <i>Scientific Reports</i> , 2017, 7, 46571.	1.6	37

#	ARTICLE	IF	CITATIONS
496	Sorafenib targets the mitochondrial electron transport chain complexes and ATP synthase to activate the PINK1-Parkin pathway and modulate cellular drug response. <i>Journal of Biological Chemistry</i> , 2017, 292, 15105-15120.	1.6	70
497	TRAIL, Fas Ligand, TNF and TLR3 in Cancer. <i>Resistance To Targeted Anti-cancer Therapeutics</i> , 2017, , .	0.1	5
498	Dynamic proteomics reveals bimodal protein dynamics of cancer cells in response to HSP90 inhibitor. <i>BMC Systems Biology</i> , 2017, 11, 33.	3.0	13
499	Probing the Heterogeneity of Protein Kinase Activation in Cells by Super-resolution Microscopy. <i>ACS Nano</i> , 2017, 11, 249-257.	7.3	13
500	Clonal cooperativity in heterogenous cancers. <i>Seminars in Cell and Developmental Biology</i> , 2017, 64, 79-89.	2.3	53
501	Detection of single cell heterogeneity in cancer. <i>Seminars in Cell and Developmental Biology</i> , 2017, 64, 143-149.	2.3	51
502	Model-based control of the temporal patterns of intracellular signaling <i>in silico</i> . <i>Biophysics and Physicobiology</i> , 2017, 14, 29-40.	0.5	3
503	Effect of gene-expression bursts on stochastic timing of cellular events. , 2017, , .		8
504	Cell-Cycle Position of Single MYC-Driven Cancer Cells Dictates Their Susceptibility to a Chemotherapeutic Drug. <i>Cell Systems</i> , 2017, 5, 237-250.e8.	2.9	58
505	Decision Making in an Intracellular Genetic Classifier. <i>Mathematical Modelling of Natural Phenomena</i> , 2017, 12, 30-42.	0.9	2
506	Cancer's Achilles' Heel: Apoptosis and Necroptosis to the Rescue. <i>International Journal of Molecular Sciences</i> , 2017, 18, 23.	1.8	64
507	Integrated Strategies to Gain a Systems-Level View of Dynamic Signaling Networks. <i>Methods in Enzymology</i> , 2017, 589, 133-170.	0.4	3
508	Parallel arrangements of positive feedback loops limit cell-to-cell variability in differentiation. <i>PLoS ONE</i> , 2017, 12, e0188623.	1.1	11
509	A systems approach reveals distinct metabolic strategies among the NCI-60 cancer cell lines. <i>PLoS Computational Biology</i> , 2017, 13, e1005698.	1.5	19
510	Correlated receptor transport processes buffer single-cell heterogeneity. <i>PLoS Computational Biology</i> , 2017, 13, e1005779.	1.5	10
511	Predictive model identifies strategies to enhance TSP1-mediated apoptosis signaling. <i>Cell Communication and Signaling</i> , 2017, 15, 53.	2.7	19
512	Heterogeneity of Calcium Responses to Secretagogues in Corticotrophs From Male Rats. <i>Endocrinology</i> , 2017, 158, 1849-1858.	1.4	16
513	Nongenetic origins of cell-to-cell variability in B lymphocyte proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2888-E2897.	3.3	67

#	ARTICLE	IF	CITATIONS
514	Heterogeneity of Metazoan Cells and Beyond: To Integrative Analysis of Cellular Populations at Single-Cell Level. <i>Methods in Molecular Biology</i> , 2018, 1745, 3-23.	0.4	5
515	Suprathreshold Stochastic Resonance behind Cancer. <i>Trends in Biochemical Sciences</i> , 2018, 43, 483-485.	3.7	8
516	A threshold dose distribution approach for the study of PDT resistance development. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 182, 85-91.	1.7	9
517	Single-cell profiling screen identifies microtubule-dependent reduction of variability in signaling. <i>Molecular Systems Biology</i> , 2018, 14, e7390.	3.2	5
518	Identification of a bet-hedging network motif generating noise in hormone concentrations and germination propensity in <i>Arabidopsis</i> . <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180042.	1.5	22
519	Modeling of cytometry data in logarithmic space: When is a bimodal distribution not bimodal?. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 611-619.	1.1	8
520	Fast and Precise Emulation of Stochastic Biochemical Reaction Networks With Amplified Thermal Noise in Silicon Chips. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 379-389.	2.7	13
521	Cell-specific responses to the cytokine $\text{TGF}\beta^2$ are determined by variability in protein levels. <i>Molecular Systems Biology</i> , 2018, 14, e7733.	3.2	50
522	Mitochondrial levels determine variability in cell death by modulating apoptotic gene expression. <i>Nature Communications</i> , 2018, 9, 389.	5.8	98
523	Improved cytotoxicity of novel TRAIL variants produced as recombinant fusion proteins. <i>Protein Engineering, Design and Selection</i> , 2018, 31, 37-46.	1.0	1
524	Not Everyone Fits the Mold: Intratumor and Intertumor Heterogeneity and Innovative Cancer Drug Design and Development. <i>OMICS A Journal of Integrative Biology</i> , 2018, 22, 17-34.	1.0	40
525	Identifying noise sources governing cell-to-cell variability. <i>Current Opinion in Systems Biology</i> , 2018, 8, 39-45.	1.3	20
526	Leveraging and coping with uncertainty in the response of individual cells to therapy. <i>Current Opinion in Biotechnology</i> , 2018, 51, 109-115.	3.3	17
527	Epigenetic and Transcriptional Variability Shape Phenotypic Plasticity. <i>BioEssays</i> , 2018, 40, 1700148.	1.2	71
528	The impact of non-genetic heterogeneity on cancer cell death. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2018, 53, 99-114.	2.3	41
529	Robustness, accuracy, and cell state heterogeneity in biological systems. <i>Current Opinion in Systems Biology</i> , 2018, 8, 46-50.	1.3	19
530	Confocal microscopy reveals dynamic interactions between pathogenic, avirulent and non-pathogenic <i>Pseudomonas syringae</i> strains. <i>Molecular Plant Pathology</i> , 2018, 19, 537-551.	2.0	31
531	Computational transport analysis of antibody-drug conjugate bystander effects and payload tumoral distribution: implications for therapy. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 73-88.	1.7	38

#	ARTICLE	IF	CITATIONS
532	In silico modelling of apoptosis induced by photodynamic therapy. <i>Journal of Theoretical Biology</i> , 2018, 436, 8-17.	0.8	6
533	A Practical Approach to Tumor Heterogeneity in Clinical Research and Diagnostics. <i>Pathobiology</i> , 2018, 85, 7-17.	1.9	13
534	Integrating Transcriptomic Data with Mechanistic Systems Pharmacology Models for Virtual Drug Combination Trials. <i>ACS Chemical Neuroscience</i> , 2018, 9, 118-129.	1.7	17
535	Highly Multiplexed Single-Cell Protein Analysis. <i>Chemistry - A European Journal</i> , 2018, 24, 7083-7091.	1.7	17
536	A Radial Microfluidic Array for Studying Single-cell Ca ²⁺ Dynamics Stimulated by Dynamic ATP Signals. , 2018, , .		0
537	A single-cell micro-trench platform for automatic monitoring of cell division and apoptosis after chemotherapeutic drug administration. <i>Scientific Reports</i> , 2018, 8, 18042.	1.6	5
538	Death patterns resulting from cell cycle-independent cell death.. <i>IFAC-PapersOnLine</i> , 2018, 51, 90-93.	0.5	1
539	Estimating treatment prolongation for persistent infections. <i>Pathogens and Disease</i> , 2018, 76, .	0.8	12
542	Multi-experiment nonlinear mixed effect modeling of single-cell translation kinetics after transfection. <i>Npj Systems Biology and Applications</i> , 2018, 4, 1.	1.4	66
543	Hidden heterogeneity and circadian-controlled cell fate inferred from single cell lineages. <i>Nature Communications</i> , 2018, 9, 5372.	5.8	48
544	Cell type-dependent bimodal p53 activation engenders a dynamic mechanism of chemoresistance. <i>Science Advances</i> , 2018, 4, eaat5077.	4.7	28
545	Quantitative single cell analysis uncovers the life/death decision in CD95 network. <i>PLoS Computational Biology</i> , 2018, 14, e1006368.	1.5	20
546	Intrinsic limits of information transmission in biochemical signalling motifs. <i>Interface Focus</i> , 2018, 8, 20180039.	1.5	9
547	Control of nongenetic heterogeneity in growth rate and stress tolerance of <i>Saccharomyces cerevisiae</i> by cyclic AMP-regulated transcription factors. <i>PLoS Genetics</i> , 2018, 14, e1007744.	1.5	32
548	Inheritance of OCT4 predetermines fate choice in human embryonic stem cells. <i>Molecular Systems Biology</i> , 2018, 14, e8140.	3.2	27
549	Cell-to-Cell Heterogeneity in p38-Mediated Cross-Inhibition of JNK Causes Stochastic Cell Death. <i>Cell Reports</i> , 2018, 24, 2658-2668.	2.9	74
550	Measurement of the Lateral Charge Distribution in Silicon Generated by High-Energy Ion Incidence. , 2018, , .		0
551	Evaluation of Time Resolution and Comparison of Modern Silicon Photomultipliers. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
552	Gene expression distribution deconvolution in single-cell RNA sequencing. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6437-E6446.	3.3	93
553	A bi-stable feedback loop between GDNF, EGR1, and ER1± contribute to endocrine resistant breast cancer. PLoS ONE, 2018, 13, e0194522.	1.1	5
554	Single cell protein analysis for systems biology. Essays in Biochemistry, 2018, 62, 595-605.	2.1	73
555	Engineering cell heterogeneity into organs-on-a-chip. Lab on A Chip, 2018, 18, 2378-2395.	3.1	23
556	Fluctuations in p53 Signaling Allow Escape from Cell-Cycle Arrest. Molecular Cell, 2018, 71, 581-591.e5.	4.5	108
557	A systematic study of the determinants of protein abundance memory in cell lineage. Science Bulletin, 2018, 63, 1051-1058.	4.3	1
558	Phenotypic Plasticity, Bet-Hedging, and Androgen Independence in Prostate Cancer: Role of Non-Genetic Heterogeneity. Frontiers in Oncology, 2018, 8, 50.	1.3	122
559	Elucidating Cellular Population Dynamics by Molecular Density Function Perturbations. Processes, 2018, 6, 9.	1.3	1
560	Microenvironmental Signals and Biochemical Information Processing: Cooperative Determinants of Intratumoral Plasticity and Heterogeneity. Frontiers in Cell and Developmental Biology, 2018, 6, 44.	1.8	38
561	A parental requirement for dual-specificity phosphatase 6 in zebrafish. BMC Developmental Biology, 2018, 18, 6.	2.1	7
562	Viability Assessment Following Anticancer Treatment Requires Single-Cell Visualization. Cancers, 2018, 10, 255.	1.7	21
563	Single-cell-trapping Microarrays with High Trapping Efficiency and Negligible Shear Stress. , 2018, , .		0
564	Expression variation and covariation impair analog and enable binary signaling control. Molecular Systems Biology, 2018, 14, e7997.	3.2	7
565	Influence of multiplicative stochastic variation on translational elongation rates. PLoS ONE, 2018, 13, e0191152.	1.1	7
566	A mechanistic pan-cancer pathway model informed by multi-omics data interprets stochastic cell fate responses to drugs and mitogens. PLoS Computational Biology, 2018, 14, e1005985.	1.5	45
567	Computational Systems Biology. , 2019, , 789-795.		4
568	Novel Apoptosis-Inducing Agents for the Treatment of Cancer, a New Arsenal in the Toolbox. Cancers, 2019, 11, 1087.	1.7	47
569	RNA Splicing Analysis: From In Vitro Testing to Single-Cell Imaging. CheM, 2019, 5, 2571-2592.	5.8	41

#	ARTICLE	IF	CITATIONS
570	Constitutive Activation of the B Cell Receptor Underlies Dysfunctional Signaling in Chronic Lymphocytic Leukemia. <i>Cell Reports</i> , 2019, 28, 923-937.e3.	2.9	13
571	TRAIL responses are enhanced by nuclear export inhibition in osteosarcoma. <i>Biochemical and Biophysical Research Communications</i> , 2019, 517, 383-389.	1.0	4
572	Signal integration and information transfer in an allosterically regulated network. <i>Npj Systems Biology and Applications</i> , 2019, 5, 23.	1.4	11
573	Exploring single cells in space and time during tissue development, homeostasis and regeneration. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	51
574	Mathematical model of hypoxia and tumor signaling interplay reveals the importance of hypoxia and cell-to-cell variability in tumor growth inhibition. <i>BMC Bioinformatics</i> , 2019, 20, 507.	1.2	2
575	Mathematical modeling of variability in intracellular signaling. <i>Current Opinion in Systems Biology</i> , 2019, 16, 17-24.	1.3	19
576	β-Catenin: A Metazoan Filter for Biological Noise?. <i>Frontiers in Genetics</i> , 2019, 10, 1004.	1.1	6
577	Microfluidic-Based Mechanical Phenotyping of Androgen-Sensitive and Non-sensitive Prostate Cancer Cells Lines. <i>Micromachines</i> , 2019, 10, 602.	1.4	11
578	A System for Analog Control of Cell Culture Dynamics to Reveal Capabilities of Signaling Networks. <i>IScience</i> , 2019, 19, 586-596.	1.9	15
579	Designing combination therapies with modeling chaperoned machine learning. <i>PLoS Computational Biology</i> , 2019, 15, e1007158.	1.5	8
580	Modeling cell signaling in heterogeneous cancer environments. <i>Current Opinion in Systems Biology</i> , 2019, 17, 15-23.	1.3	1
581	Modeling heterogeneous tumor growth dynamics and cell-cell interactions at single-cell and cell-population resolution. <i>Current Opinion in Systems Biology</i> , 2019, 17, 24-34.	1.3	30
582	Systems biology approaches to measure and model phenotypic heterogeneity in cancer. <i>Current Opinion in Systems Biology</i> , 2019, 17, 35-40.	1.3	17
583	Single-Cell and Population-Level Analyses Using Real-Time Kinetic Labeling Couples Proliferation and Cell Death Mechanisms. <i>Developmental Cell</i> , 2019, 51, 277-291.e4.	3.1	13
584	Heterogeneous responses to low level death receptor activation are explained by random molecular assembly of the Caspase-8 activation platform. <i>PLoS Computational Biology</i> , 2019, 15, e1007374.	1.5	9
585	The Role of TRAIL/DRs in the Modulation of Immune Cells and Responses. <i>Cancers</i> , 2019, 11, 1469.	1.7	40
586	Dynamics of Phenotypic Heterogeneity Associated with EMT and Stemness during Cancer Progression. <i>Journal of Clinical Medicine</i> , 2019, 8, 1542.	1.0	109
587	Scaling laws of cell-fate responses to transient stress. <i>Journal of Theoretical Biology</i> , 2019, 478, 14-25.	0.8	4

#	ARTICLE	IF	CITATIONS
588	EPO regulates neuroprotective Transmembrane BAX Inhibitor-1 Motif-containing (TMBIM) family members GRINA and FAIM2 after cerebral ischemia-reperfusion injury. <i>Experimental Neurology</i> , 2019, 320, 112978.	2.0	22
589	Role of network-mediated stochasticity in mammalian drug resistance. <i>Nature Communications</i> , 2019, 10, 2766.	5.8	71
590	Microfluidic platform enables live-cell imaging of signaling and transcription combined with multiplexed secretion measurements in the same single cells. <i>Integrative Biology (United Kingdom)</i> , 2019, 11, 142-153.	0.6	6
591	Heterogeneity of primordial germ cells. <i>Current Topics in Developmental Biology</i> , 2019, 135, 155-201.	1.0	13
592	Single-cell cloning of human T-cell lines reveals clonal variation in cell death responses to chemotherapeutics. <i>Cancer Genetics</i> , 2019, 237, 69-77.	0.2	6
593	Challenges in measuring and understanding biological noise. <i>Nature Reviews Genetics</i> , 2019, 20, 536-548.	7.7	154
594	Pharmacological Modulation of Transcriptional Coregulators in Cancer. <i>Trends in Pharmacological Sciences</i> , 2019, 40, 388-402.	4.0	9
595	The Coming Decade of Cell Death Research: Five Riddles. <i>Cell</i> , 2019, 177, 1094-1107.	13.5	347
596	Embracing systems toxicology at single-cell resolution. <i>Current Opinion in Toxicology</i> , 2019, 16, 49-57.	2.6	24
597	Mitochondrial origins of fractional control in regulated cell death. <i>Nature Communications</i> , 2019, 10, 1313.	5.8	30
598	Evidence that the human cell cycle is a series of uncoupled, memoryless phases. <i>Molecular Systems Biology</i> , 2019, 15, e8604.	3.2	78
599	A "Dual"-Cell-Level Systems PK-PD Model to Characterize the Bystander Effect of ADC. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 2465-2475.	1.6	16
600	Single-Cell Omics Analyses Enabled by Microchip Technologies. <i>Annual Review of Biomedical Engineering</i> , 2019, 21, 365-393.	5.7	49
601	Desynchronization of the molecular clock contributes to the heterogeneity of the inflammatory response. <i>Science Signaling</i> , 2019, 12, .	1.6	30
602	An enriched network motif family regulates multistep cell fate transitions with restricted reversibility. <i>PLoS Computational Biology</i> , 2019, 15, e1006855.	1.5	37
603	Boolean model of growth signaling, cell cycle and apoptosis predicts the molecular mechanism of aberrant cell cycle progression driven by hyperactive PI3K. <i>PLoS Computational Biology</i> , 2019, 15, e1006402.	1.5	41
604	Cell death: a review of the major forms of apoptosis, necrosis and autophagy. <i>Cell Biology International</i> , 2019, 43, 582-592.	1.4	1,354
605	Rapid, Untargeted Chemical Profiling of Single Cells in Their Native Environment. <i>Analytical Chemistry</i> , 2019, 91, 6118-6126.	3.2	40

#	ARTICLE	IF	CITATIONS
606	Cell-state dynamics and therapeutic resistance in melanoma from the perspective of MITF and IFN γ pathways. <i>Nature Reviews Clinical Oncology</i> , 2019, 16, 549-562.	12.5	72
607	TRAILblazing Strategies for Cancer Treatment. <i>Cancers</i> , 2019, 11, 456.	1.7	62
608	Counting growth factors in single cells with infrared quantum dots to measure discrete stimulation distributions. <i>Nature Communications</i> , 2019, 10, 909.	5.8	17
609	A Two-Pulse Cellular Stimulation Test Elucidates Variability and Mechanisms in Signaling Pathways. <i>Biophysical Journal</i> , 2019, 116, 962-973.	0.2	11
610	Mitochondrial Heterogeneity. <i>Frontiers in Genetics</i> , 2018, 9, 718.	1.1	89
611	MEDI3039, a novel highly potent tumor necrosis factor (TNF)-related apoptosis-inducing ligand (TRAIL) receptor 2 agonist, causes regression of orthotopic tumors and inhibits outgrowth of metastatic triple-negative breast cancer. <i>Breast Cancer Research</i> , 2019, 21, 27.	2.2	42
612	Analysis of stochastic timing of intracellular events with gene switching. , 2019, , .		1
613	Research of Biological Effects of EM Field in Microwave Frequency Band. , 2019, , .		0
614	The Impact of Climate Change Information on Household Flight Choice: Preliminary Results. , 2019, , .		0
615	Sputtering Ambient Effects on Functionality of Al-doped Gallium Oxide Films for Deep-Ultraviolet Detectors. , 2019, , .		0
616	Conditional Contrast High Itemset Mining for Two Dataset in Two Time Slot. , 2019, , .		1
617	Mutual Information for Low-Rank Even-Order Symmetric Tensor Factorization. , 2019, , .		5
618	An authentication based scheme for applications using JSON web token. , 2019, , .		23
619	Incentive for Historical Block Data Sharing in Blockchain. , 2019, , .		4
620	Effect Of Metal Powders On Capacitance And Equivalent Series Resistance Of Super-capacitor. , 2019, , .		1
621	Classical and Intelligent Multivariable Controllers for Aerosonde UAV. , 2019, , .		1
622	Design of a Novel Absorber with Switchable Absorption and Transmission Bands Based on PIN Diode. , 2019, , .		0
623	Intelligent Fault Diagnosis of Gearbox Based on Vibration and Current Signals: A Multimodal Deep Learning Approach. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
624	Atmospheric Refraction's Influence on Large Radio Telescopes' Observations. , 2019, , .		0
626	Integration of Software Agents and Low-Level Automation Functions. , 2019, , .		0
627	IEEE ICC 2019 Program Committee. , 2019, , .		0
628	Activity Monitoring System to Support Elderly Independent Living. , 2019, , .		3
629	Thermal Characteristic Evaluation of Silver and Copper Sintering Materials. , 2019, , .		2
630	A Fuzzy Knowledge-Based System to Assess the Impact of Demand Response on the Long Term Demand of Electricity: Application to the Brazilian Interconnected Power System. , 2019, , .		1
631	Switching Transient of Multi-step 3-Phase Capacitor Bank in 66/11 kV Bhutan Silicon Metal Private Ltd. , 2019, , .		0
632	Ocean Target Radar Image Reconstruction from GNSS-R Delay-Doppler Map. , 2019, , .		0
633	Progressive Fusion Video Super-Resolution Network via Exploiting Non-Local Spatio-Temporal Correlations. , 2019, , .		144
634	A GCPW-fed Lens-integrated On-chip Single-ended Slot UWB Antenna. , 2019, , .		1
635	A Flying IoT Network to Help in Disaster Recovery. , 2019, , .		1
636	Codes for Updating Linear Functions over Small Fields. , 2019, , .		1
637	Estimating Tree Water Status in Apple Orchard using Reflectance in the Thermal Domain of Landsat 8 Satellite. , 2019, , .		0
638	Parkinson's Disease Detection from Gait Patterns. , 2019, , .		9
639	Control Strategy for Optimizing Energy Management in Microgrid System Using Adaptive Control. , 2019, , .		1
640	A Smart Control Method based on Phasor Diagram for Voltage-Type PWM Rectifier with High Power Factor and Constant DC-link Voltage. , 2019, , .		0
641	Complementarity Analysis and Evaluation of Renewable Energy Stations based on Mixed-Copula Model. , 2019, , .		1
642	BeaconBlocks: Augmenting Proof-of-Stake with On-Chain Time Synchronization. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
643	State forecasting in distribution networks. , 2019, , .		5
644	Optimal Power Flow in Distribution Scheme Using Load Forecast. , 2019, , .		2
645	Instance-Aware Semantic Segmentation for Food Calorie Estimation using Mask R-CNN. , 2019, , .		6
646	Intelligent Mapping for Hotel Records Representing the Same Entity. , 2019, , .		1
647	Evaluation Model on Service Level of Navigation System. , 2019, , .		0
648	Individual-based modeling explains effects of TRAIL treatment in cancer cells.. IFAC-PapersOnLine, 2019, 52, 207-212.	0.5	0
649	High-throughput Mechanical Phenotyping of Androgen-Sensitive and Nonsensitive Prostate Cancer Cells Using a Real-time Deformability Cytometry. , 2019, , .		0
650	Stochastically modeling multiscale stationary biological processes. PLoS ONE, 2019, 14, e0226687.	1.1	0
651	Control strategies for the timing of intracellular events. Physical Review E, 2019, 100, 062401.	0.8	5
652	Modeling cell population dynamics. In Silico Biology, 2019, 13, 21-39.	0.4	48
653	From single cells to tissue self-organization. FEBS Journal, 2019, 286, 1495-1513.	2.2	52
654	A Förster resonance energy transfer sensor for live-cell imaging of mitogen-activated protein kinase activity in <sc>Arabidopsis</sc>. Plant Journal, 2019, 97, 970-983.	2.8	21
655	Allele-specific RNA imaging shows that allelic imbalances can arise in tissues through transcriptional bursting. PLoS Genetics, 2019, 15, e1007874.	1.5	52
656	Protein and RNA quantification of multiple genes in single cells. BioTechniques, 2019, 66, 15-21.	0.8	7
657	The causes of evolvability and their evolution. Nature Reviews Genetics, 2019, 20, 24-38.	7.7	208
658	The importance of dead material within a tumour on the dynamics in response to radiotherapy. Physics in Medicine and Biology, 2020, 65, 015007.	1.6	17
659	Maximum Entropy Framework for Predictive Inference of Cell Population Heterogeneity and Responses in Signaling Networks. Cell Systems, 2020, 10, 204-212.e8.	2.9	26
660	Cracking the context-specific PI3K signaling code. Science Signaling, 2020, 13, .	1.6	49

#	ARTICLE	IF	CITATIONS
661	Interactive Multiresolution Visualization of Cellular Network Processes. <i>IScience</i> , 2020, 23, 100748.	1.9	8
662	Massively multiplex chemical transcriptomics at single-cell resolution. <i>Science</i> , 2020, 367, 45-51.	6.0	196
663	Principles and mechanisms of non-genetic resistance in cancer. <i>British Journal of Cancer</i> , 2020, 122, 465-472.	2.9	102
664	Examination of Fas-Induced Apoptosis of Murine Thymocytes in Thymic Tissue Slices Reveals That Fas Is Dispensable for Negative Selection. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 586807.	1.8	0
665	Perturbation-Driven Entropy as a Source of Cancer Cell Heterogeneity. <i>Trends in Cancer</i> , 2020, 6, 454-461.	3.8	15
666	BioID-based proteomic analysis of the Bid interactome identifies novel proteins involved in cell-cycle-dependent apoptotic priming. <i>Cell Death and Disease</i> , 2020, 11, 872.	2.7	6
667	Profiling the Non-genetic Origins of Cancer Drug Resistance with a Single-Cell Functional Genomics Approach Using Predictive Cell Dynamics. <i>Cell Systems</i> , 2020, 11, 367-374.e5.	2.9	21
668	Stochastic phenotypic switching in endothelial cell heterogeneity. , 2020, , 361-401.		0
669	Mathematical Modeling Reveals the Importance of the DED Filament Composition in the Effects of Small Molecules Targeting Caspase-8/c-FLIPL Heterodimer. <i>Biochemistry (Moscow)</i> , 2020, 85, 1134-1144.	0.7	1
670	The multifaceted role of TRAIL signaling in cancer and immunity. <i>FEBS Journal</i> , 2021, 288, 5530-5554.	2.2	56
671	A Probabilistic Approach to Explore Signal Execution Mechanisms With Limited Experimental Data. <i>Frontiers in Genetics</i> , 2020, 11, 686.	1.1	9
672	Memory Sequencing Reveals Heritable Single-Cell Gene Expression Programs Associated with Distinct Cellular Behaviors. <i>Cell</i> , 2020, 182, 947-959.e17.	13.5	132
673	Non-Thermal Plasma Couples Oxidative Stress to TRAIL Sensitization through DR5 Upregulation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5302.	1.8	6
674	Kinetic Heterogeneity of Cancer Cell Fractional Killing. <i>Cell Reports</i> , 2020, 32, 107845.	2.9	23
675	DNA methyltransferases in hematological malignancies. <i>Journal of Genetics and Genomics</i> , 2020, 47, 361-372.	1.7	34
676	Ultrasensitive Detection of Enzymatic Activity Using Single Molecule Arrays. <i>Journal of the American Chemical Society</i> , 2020, 142, 15098-15106.	6.6	27
677	Stochastic fluctuations in apoptotic threshold of tumour cells can enhance apoptosis and combat fractional killing. <i>Royal Society Open Science</i> , 2020, 7, 190462.	1.1	10
678	Receptor-Driven ERK Pulses Reconfigure MAPK Signaling and Enable Persistence of Drug-Adapted BRAF-Mutant Melanoma Cells. <i>Cell Systems</i> , 2020, 11, 478-494.e9.	2.9	71

#	ARTICLE	IF	CITATIONS
679	Theoretical study of the impact of adaptation on cell-fate heterogeneity and fractional killing. <i>Scientific Reports</i> , 2020, 10, 17429.	1.6	7
680	Cancer cell lines show high heritability for motility but not generation time. <i>Royal Society Open Science</i> , 2020, 7, 191645.	1.1	0
681	A model of apoptosis receptor reactions to study cell fate decision. , 2020, , .		1
682	Time-Resolved Single-Cell Assay for Measuring Intracellular Reactive Oxygen Species upon Exposure to Ambient Particulate Matter. <i>Environmental Science & Technology</i> , 2020, 54, 13121-13130.	4.6	10
683	Noise-driven cellular heterogeneity in circadian periodicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10350-10356.	3.3	38
684	Optical control of MAP kinase kinase 6 (MKK6) reveals that it has divergent roles in pro-apoptotic and anti-proliferative signaling. <i>Journal of Biological Chemistry</i> , 2020, 295, 8494-8504.	1.6	16
685	Sample-based modeling reveals bidirectional interplay between cell cycle progression and extrinsic apoptosis. <i>PLoS Computational Biology</i> , 2020, 16, e1007812.	1.5	6
686	Gene Networks with Transcriptional Bursting Recapitulate Rare Transient Coordinated High Expression States in Cancer. <i>Cell Systems</i> , 2020, 10, 363-378.e12.	2.9	54
687	The effects of proliferation status and cell cycle phase on the responses of single cells to chemotherapy. <i>Molecular Biology of the Cell</i> , 2020, 31, 845-857.	0.9	29
688	A Dual-Polarized Magneto-Electric Dipole Antenna Based on Printed Ridge Gap Waveguide Technology. <i>IEEE Transactions on Antennas and Propagation</i> , 2020, 68, 7589-7594.	3.1	29
689	Min-Sum Algorithm Using Multi-Edge-Type Normalized Scheme for ATSC 3.0 LDPC Decoders. <i>IEEE Transactions on Broadcasting</i> , 2020, 66, 729-736.	2.5	6
690	Robust De-Noising Technique for Accurate Heart Rate Estimation Using Wrist-Type PPG Signals. <i>IEEE Sensors Journal</i> , 2020, 20, 7980-7987.	2.4	21
691	Targeting apoptosis in cancer therapy. <i>Nature Reviews Clinical Oncology</i> , 2020, 17, 395-417.	12.5	1,192
692	Multisite EGFR phosphorylation is regulated by adaptor protein abundances and dimer lifetimes. <i>Molecular Biology of the Cell</i> , 2020, 31, 695-708.	0.9	20
693	Automating predictive maintenance using oil analysis and machine learning. , 2020, , .		8
694	Protein level variability determines phenotypic heterogeneity in proteotoxic stress response. <i>FEBS Journal</i> , 2020, 287, 5345-5361.	2.2	11
695	Springing an evolutionary trap on cancer. <i>Nature Genetics</i> , 2020, 52, 361-362.	9.4	1
696	A systematic approach to decipher crosstalk in the p53 signaling pathway using single cell dynamics. <i>PLoS Computational Biology</i> , 2020, 16, e1007901.	1.5	12

#	ARTICLE	IF	CITATIONS
697	Detecting Suspected Pump Thrombosis in Left Ventricular Assist Devices via Acoustic Analysis. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1899-1906.	3.9	11
698	Single-cell analysis targeting the proteome. Nature Reviews Chemistry, 2020, 4, 143-158.	13.8	157
699	Learning Pathway Dynamics from Single-Cell Proteomic Data: A Comparative Study. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 241-252.	1.1	3
700	A Bitcoin Transaction Network Analytic Method for Future Blockchain Forensic Investigation. IEEE Transactions on Network Science and Engineering, 2021, 8, 1230-1241.	4.1	22
701	Qualitative and quantitative nature of mutual interactions dictate chemical noise in a democratic reaction network. Physical Review E, 2020, 101, 042407.	0.8	1
702	Understanding MAPK Signaling Pathways in Apoptosis. International Journal of Molecular Sciences, 2020, 21, 2346.	1.8	549
703	On the Capacity of Fractal D2D Social Networks with Hierarchical Communications. IEEE Transactions on Mobile Computing, 2021, 20, 2254-2268.	3.9	3
704	Single-cell proteomic analysis. WIREs Mechanisms of Disease, 2021, 13, e1503.	1.5	14
705	TRAIL receptor-induced features of epithelial-to-mesenchymal transition increase tumour phenotypic heterogeneity: potential cell survival mechanisms. British Journal of Cancer, 2021, 124, 91-101.	2.9	16
707	Stochastic Models for Studying the Role of Cellular Noise and Heterogeneity. , 2021, , 34-44.		1
709	Mathematical Modeling of Cancer Signaling Addressing Tumor Heterogeneity. Springer Proceedings in Mathematics and Statistics, 2021, , 141-152.	0.1	0
710	Devil in the details: Mechanistic variations impact information transfer across models of transcriptional cascades. PLoS ONE, 2021, 16, e0245094.	1.1	2
713	What Will B Will B: Identifying Molecular Determinants of Diverse B-Cell Fate Decisions Through Systems Biology. Frontiers in Cell and Developmental Biology, 2020, 8, 616592.	1.8	9
714	SCA-1 micro-heterogeneity in the fate decision of dystrophic fibro/adipogenic progenitors. Cell Death and Disease, 2021, 12, 122.	2.7	21
715	Cell-to-cell variation in gene expression and the aging process. GeroScience, 2021, 43, 181-196.	2.1	16
716	Variability within rare cell states enables multiple paths toward drug resistance. Nature Biotechnology, 2021, 39, 865-876.	9.4	94
719	Identifying key questions in the ecology and evolution of cancer. Evolutionary Applications, 2021, 14, 877-892.	1.5	58
720	Generation of TRAIL-resistant cell line models reveals distinct adaptive mechanisms for acquired resistance and re-sensitization. Oncogene, 2021, 40, 3201-3216.	2.6	5

#	ARTICLE	IF	CITATIONS
721	Transient phases of OXPHOS inhibitor resistance reveal underlying metabolic heterogeneity in single cells. <i>Cell Metabolism</i> , 2021, 33, 649-665.e8.	7.2	21
722	Genetic and Non-Genetic Mechanisms Underlying Cancer Evolution. <i>Cancers</i> , 2021, 13, 1380.	1.7	38
723	Topological signatures in regulatory network enable phenotypic heterogeneity in small cell lung cancer. <i>ELife</i> , 2021, 10, .	2.8	42
725	Connecting Timescales in Biology: Can Early Dynamical Measurements Predict Long-Term Outcomes?. <i>Trends in Cancer</i> , 2021, 7, 301-308.	3.8	4
726	Scaling of intrinsic noise in an autocratic reaction network. <i>Physical Review E</i> , 2021, 103, 042403.	0.8	0
728	Spike-in normalization for single-cell RNA-seq reveals dynamic global transcriptional activity mediating anticancer drug response. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab054.	1.5	5
730	Single-Cell <i>scRNA-seq</i> Sequencing Reveals the Breadth of Osteoblast Heterogeneity. <i>JBMR Plus</i> , 2021, 5, e10496.	1.3	14
731	Microfluidic Assessment of Drug Effects on Physical Properties of Androgen Sensitive and Non-Sensitive Prostate Cancer Cells. <i>Micromachines</i> , 2021, 12, 532.	1.4	4
732	Building patient-specific models for receptor tyrosine kinase signaling networks. <i>FEBS Journal</i> , 2021, , .	2.2	4
733	Boolean dynamic modeling of cancer signaling networks: Prognosis, progression, and therapeutics. <i>Computational and Systems Oncology</i> , 2021, 1, e1017.	1.1	24
734	Comparing feedback strategies for minimizing noise in gene expression event timing. , 2021, , .		9
737	Mutagenic Consequences of Sublethal Cell Death Signaling. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6144.	1.8	7
738	Computational methods for characterizing and learning from heterogeneous cell signaling data. <i>Current Opinion in Systems Biology</i> , 2021, 26, 98-108.	1.3	6
739	A microfluidic array device for single cell capture and intracellular Ca ²⁺ response analysis induced by dynamic biochemical stimulus. <i>Bioscience Reports</i> , 2021, 41, .	1.1	3
741	Rapid signaling reactivation after targeted BRAF inhibition predicts the proliferation of individual melanoma cells from an isogenic population. <i>Scientific Reports</i> , 2021, 11, 15473.	1.6	2
742	The Evolutionary Ecology of Dormancy in Nature and in Cancer. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	14
743	Regulation of STAT3 signaling in IFN γ and IL10 pathways and in their cross-talk. <i>Cytokine</i> , 2021, 148, 155665.	1.4	2
745	Uncertainty propagation for deterministic models of biochemical networks using moment equations and the extended Kalman filter. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210331.	1.5	2

#	ARTICLE	IF	CITATIONS
746	Bronchial or Pulmonary Artery Chemoembolization for Unresectable and Unablatable Lung Metastases: A Phase I Clinical Trial. <i>Radiology</i> , 2021, 301, 474-484.	3.6	20
747	Characterizing microRNA-mediated modulation of gene expression noise and its effect on synthetic gene circuits. <i>Cell Reports</i> , 2021, 36, 109573.	2.9	11
748	Single-Cell Proteomics. <i>Trends in Biochemical Sciences</i> , 2021, 46, 661-672.	3.7	96
749	Information-theoretic analyses of cellular strategies for achieving high signaling capacity dynamics, cross-wiring, and heterogeneity of cellular states. <i>Current Opinion in Systems Biology</i> , 2021, 27, 100352.	1.3	7
750	Confining <i>Trypanosoma brucei</i> in emulsion droplets reveals population variabilities in division rates and improves in vitro cultivation. <i>Scientific Reports</i> , 2021, 11, 18192.	1.6	2
752	Stimulus-specific responses in innate immunity: Multilayered regulatory circuits. <i>Immunity</i> , 2021, 54, 1915-1932.	6.6	25
753	Quantitation of amiodarone and N-desethylamiodarone in single HepG2 cells by single-cell printing-liquid vortex capture-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6917-6927.	1.9	4
754	Stochasticity Triggers Activation of the S-phase Checkpoint Pathway in Budding Yeast. <i>Physical Review X</i> , 2021, 11, .	2.8	5
755	Regulating gene expression to achieve temporal precision. <i>IFAC-PapersOnLine</i> , 2021, 54, 502-506.	0.5	1
756	Orthogonal control of mean and variability of endogenous genes in a human cell line. <i>Nature Communications</i> , 2021, 12, 292.	5.8	11
757	Interplay Between Mitophagy and Apoptosis Defines a Cell Fate Upon Co-treatment of Breast Cancer Cells With a Recombinant Fragment of Human β -Casein and Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 617762.	1.8	5
758	Studying NF- κ B Signaling with Mathematical Models. <i>Methods in Molecular Biology</i> , 2015, 1280, 647-661.	0.4	6
759	Statistical Model Checking-Based Analysis of Biological Networks. <i>Computational Biology</i> , 2019, , 63-92.	0.1	4
760	Seeing Is Believing: Noninvasive Microscopic Imaging Modalities for Tissue Engineering and Regenerative Medicine. , 2020, , 599-638.		9
761	Tissue Heterogeneity as a Pre-analytical Source of Variability. <i>Recent Results in Cancer Research</i> , 2015, 199, 35-43.	1.8	8
762	Evolution of Bet-Hedging Mechanisms in Cell Cycle and Embryo Development Stimulated by Weak Linkage of Stochastic Processes. <i>Results and Problems in Cell Differentiation</i> , 2011, 53, 11-30.	0.2	4
763	Bimodal Protein Distributions in Heterogeneous Oscillating Systems. <i>Lecture Notes in Computer Science</i> , 2012, , 17-28.	1.0	7
764	Statistical Model Checking Based Calibration and Analysis of Bio-pathway Models. <i>Lecture Notes in Computer Science</i> , 2013, , 120-134.	1.0	22

#	ARTICLE	IF	CITATIONS
783	Functionally identifiable apoptosis-insensitive subpopulations determine chemoresistance in acute myeloid leukemia. <i>Journal of Clinical Investigation</i> , 2016, 126, 3827-3836.	3.9	40
784	TRAF2 is a Valuable Prognostic Biomarker in Patients with Prostate Cancer. <i>Medical Science Monitor</i> , 2017, 23, 4192-4204.	0.5	15
785	What Population Reveals about Individual Cell Identity: Single-Cell Parameter Estimation of Models of Gene Expression in Yeast. <i>PLoS Computational Biology</i> , 2016, 12, e1004706.	1.5	77
786	Macromolecular Crowding Regulates the Gene Expression Profile by Limiting Diffusion. <i>PLoS Computational Biology</i> , 2016, 12, e1005122.	1.5	34
787	Modeling Cellular Noise Underlying Heterogeneous Cell Responses in the Epidermal Growth Factor Signaling Pathway. <i>PLoS Computational Biology</i> , 2016, 12, e1005222.	1.5	25
788	Survival of the Curviest: Noise-Driven Selection for Synergistic Epistasis. <i>PLoS Genetics</i> , 2016, 12, e1006003.	1.5	5
789	A Dynamic Analysis of IRS-PKR Signaling in Liver Cells: A Discrete Modeling Approach. <i>PLoS ONE</i> , 2009, 4, e8040.	1.1	36
790	Role of Endoplasmic Reticulum Stress in $\hat{1}\pm$ -TEA Mediated TRAIL/DR5 Death Receptor Dependent Apoptosis. <i>PLoS ONE</i> , 2010, 5, e11865.	1.1	53
791	A Minimal Model of Signaling Network Elucidates Cell-to-Cell Stochastic Variability in Apoptosis. <i>PLoS ONE</i> , 2010, 5, e11930.	1.1	22
792	High Throughput Ratio Imaging to Profile Caspase Activity: Potential Application in Multiparameter High Content Apoptosis Analysis and Drug Screening. <i>PLoS ONE</i> , 2011, 6, e20114.	1.1	39
793	A Computational Analysis of the Dynamic Roles of Talin, Dok1, and PIPKI for Integrin Activation. <i>PLoS ONE</i> , 2011, 6, e24808.	1.1	15
794	An Algorithm to Automate Yeast Segmentation and Tracking. <i>PLoS ONE</i> , 2013, 8, e57970.	1.1	62
795	Phospholipase C- $\hat{1}21$ and $\hat{1}24$ Contribute to Non-Genetic Cell-to-Cell Variability in Histamine-Induced Calcium Signals in HeLa Cells. <i>PLoS ONE</i> , 2014, 9, e86410.	1.1	13
796	Single-Cell-Precision Microplasma-Induced Cancer Cell Apoptosis. <i>PLoS ONE</i> , 2014, 9, e101299.	1.1	38
797	Interleukin- $\hat{1}2$ Enhances FasL-Induced Caspase-3/-7 Activity without Increasing Apoptosis in Primary Mouse Hepatocytes. <i>PLoS ONE</i> , 2014, 9, e115603.	1.1	19
798	Noise-Driven Phenotypic Heterogeneity with Finite Correlation Time in Clonal Populations. <i>PLoS ONE</i> , 2015, 10, e0132397.	1.1	7
799	High content imaging for monitoring signalling dynamics in single cells. <i>Journal of Molecular Endocrinology</i> , 2020, 65, R91-R100.	1.1	5
800	Evidence of drug-response heterogeneity rapidly generated from a single cancer cell. <i>Oncotarget</i> , 2017, 8, 41113-41124.	0.8	10

#	ARTICLE	IF	CITATIONS
801	TRAIL-induced variation of cell signaling states provides nonheritable resistance to apoptosis. <i>Life Science Alliance</i> , 2019, 2, e201900554.	1.3	11
802	Role of caspases and non-caspase proteases in cell death. <i>F1000 Biology Reports</i> , 2010, 2, .	4.0	8
803	The mean and noise of stochastic gene transcription with cell division. <i>Mathematical Biosciences and Engineering</i> , 2018, 15, 1255-1270.	1.0	6
804	How can we kill cancer cells: Insights from the computational models of apoptosis. <i>World Journal of Clinical Oncology</i> , 2010, 1, 24.	0.9	8
805	Systems biology of virus-host signaling network interactions. <i>BMB Reports</i> , 2012, 45, 213-220.	1.1	13
806	Adaptability of non-genetic diversity in bacterial chemotaxis. <i>ELife</i> , 2014, 3, .	2.8	90
807	Inhibition of mutant EGFR in lung cancer cells triggers SOX2-FOXO6-dependent survival pathways. <i>ELife</i> , 2015, 4, .	2.8	37
808	Paracrine communication maximizes cellular response fidelity in wound signaling. <i>ELife</i> , 2015, 4, e09652.	2.8	52
809	A curative combination cancer therapy achieves high fractional cell killing through low cross-resistance and drug additivity. <i>ELife</i> , 2019, 8, .	2.8	78
810	The Cell Isolation Capsules with Rod-Like Channels Ensure the Survival and Response of Cancer Cells to Their Microenvironment. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101723.	3.9	3
811	IRS1 phosphorylation underlies the non-stochastic probability of cancer cells to persist during EGFR inhibition therapy. <i>Nature Cancer</i> , 2021, 2, 1055-1070.	5.7	9
812	Extracellular vesicle-associated small heat shock proteins as therapeutic agents in neurodegenerative diseases and beyond. <i>Advanced Drug Delivery Reviews</i> , 2021, 179, 114009.	6.6	9
814	The Hallmarks of Cancer Revisited Through Systems Biology and Network Modelling. , 2011, , 245-266.		2
815	Systems-Engineering Principles in Signal Transduction and Cell-Fate Choice. , 2012, , 1-14.		0
816	Imaging Nascent RNA Dynamics in Dictyostelium. <i>Methods in Molecular Biology</i> , 2013, 1042, 101-113.	0.4	0
817	Stochastic Responses May Allow Genetically Diverse Cell Populations to Optimize Performance with Simpler Signaling Networks. <i>PLoS ONE</i> , 2013, 8, e65086.	1.1	1
818	Imaging Drug Distribution and Effects at the Single Cell Level In Vivo. , 2014, , 263-280.		0
819	Systems Biology, Minimalist vs Exhaustive Strategies. , 2015, , 1458-1463.		0

#	ARTICLE	IF	CITATIONS
820	Mathematical Modeling of the Interplay of Autophagy and Apoptosis. Springer Theses, 2015, , 23-41.	0.0	0
826	Time Stretch Quantitative Phase Imaging. , 2017, , 43-63.		0
827	Caspases: Regulatory Mechanisms and Their Implications in Pathogenesis and Therapeutics. , 2017, , 423-488.		0
834	The Dynamics of ERK Signaling in Melanoma, and the Response to BRAF or MEK Inhibition, Are Cell Cycle Dependent. SSRN Electronic Journal, 0, , .	0.4	1
843	Constitutive Activation of BCR Explains Dysfunctional Signaling in Chronic Lymphocytic Leukemia. SSRN Electronic Journal, 0, , .	0.4	0
854	Seeing Is Believing: Noninvasive Microscopic Imaging Modalities for Tissue Engineering and Regenerative Medicine. , 2020, , 1-41.		0
861	A patch of positively charged residues regulates the efficacy of clinical DR5 antibodies in solid tumors. Cell Reports, 2021, 37, 109953.	2.9	4
864	An incoherent feedforward loop interprets NF κ B/RelA dynamics to determine TNF α -induced necroptosis decisions. Molecular Systems Biology, 2020, 16, e9677.	3.2	18
865	An atlas of inter- and intra-tumor heterogeneity of apoptosis competency in colorectal cancer tissue at single-cell resolution. Cell Death and Differentiation, 2022, 29, 806-817.	5.0	15
866	The Origins of Phenotypic Heterogeneity in Cancer. Cancer Research, 2022, 82, 3-11.	0.4	10
867	Cell cycle progression and transmitotic apoptosis resistance promote escape from extrinsic apoptosis. Journal of Cell Science, 2021, 134, .	1.2	6
868	Moment-based uncertainty propagation for deterministic biochemical network models with rational reaction rates. , 2021, , .		0
870	Cell-to-cell variability in inducible Caspase9-mediated cell death. Cell Death and Disease, 2022, 13, 34.	2.7	5
871	Single-cell RNA profiling identifies diverse cellular responses to EWSR1/FLI1 downregulation in Ewing sarcoma cells. Cellular Oncology (Dordrecht), 2022, 45, 19-40.	2.1	10
872	Controlling gene expression timing through gene regulatory architecture. PLoS Computational Biology, 2022, 18, e1009745.	1.5	5
873	A mathematical model for cell cycle control: graded response or quantized response. Cell Cycle, 2022, , 1-15.	1.3	0
878	How Do Hexokinases Inhibit Receptor-Mediated Apoptosis?. Biology, 2022, 11, 412.	1.3	6
879	A Poisson Process Generator Based on Multiple Thermal Noise Amplifiers for Parallel Stochastic Simulation of Biochemical Reactions. Electronics (Switzerland), 2022, 11, 1039.	1.8	1

#	ARTICLE	IF	CITATIONS
880	Integrating mutational and nonmutational mechanisms of acquired therapy resistance within the Darwinian paradigm. <i>Trends in Cancer</i> , 2022, 8, 456-466.	3.8	6
882	Nonmodular oscillator and switch based on RNA decay drive regeneration of multimodal gene expression. <i>Nucleic Acids Research</i> , 2022, 50, 3693-3708.	6.5	15
883	Signalling dynamics, cell decisions, and homeostatic control in health and disease. <i>Current Opinion in Cell Biology</i> , 2022, 75, 102066.	2.6	17
884	Cancer: More than a geneticist's Pandora's box. <i>Journal of Biosciences</i> , 2022, 47, .	0.5	2
885	Effective description of bistability and irreversibility in apoptosis. <i>Physical Review E</i> , 2021, 104, 064410.	0.8	4
886	Yeast cell death pathway requiring AP-3 vesicle trafficking leads to vacuole/lysosome membrane permeabilization. <i>Cell Reports</i> , 2022, 39, 110647.	2.9	11
902	Controlling Cancer Cell Death Types to Optimize Anti-Tumor Immunity. <i>Biomedicines</i> , 2022, 10, 974.	1.4	0
903	Heterogeneous nuclear ribonucleoprotein U-actin complex derived from extracellular vesicles facilitates proliferation and migration of human coronary artery endothelial cells by promoting RNA polymerase II transcription. <i>Bioengineered</i> , 2022, 13, 11469-11486.	1.4	3
904	Apoptotic priming is defined by the dynamic exchange of Bcl-2 proteins between mitochondria and cytosol. <i>Cell Death and Differentiation</i> , 2022, 29, 2262-2274.	5.0	10
905	Machine learning phenomics (MLP) combining deep learning with time-lapse-microscopy for monitoring colorectal adenocarcinoma cells gene expression and drug-response. <i>Scientific Reports</i> , 2022, 12, .	1.6	10
906	Revisiting moment-closure methods with heterogeneous multiscale population models. <i>Mathematical Biosciences</i> , 2022, 350, 108866.	0.9	4
907	Characterization of Cell-to-Cell Variation in Nuclear Transport Rates and Identification of Its Sources. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
908	Quercetin improves mood-related behaviors in mice subjected to paradoxical sleeplessness. <i>Nigerian Journal of Experimental and Clinical Biosciences</i> , 2022, 10, 9.	0.1	0
909	Data-based stochastic modeling reveals sources of activity bursts in single-cell TGF- β^2 signaling. <i>PLoS Computational Biology</i> , 2022, 18, e1010266.	1.5	4
910	BNIP3 Upregulation Characterizes Cancer Cell Subpopulation With Increased Fitness and Proliferation. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	5
911	Drug independence and the curability of cancer by combination chemotherapy. <i>Trends in Cancer</i> , 2022, 8, 915-929.	3.8	49
913	Microfluidic chip for precise trapping of single cells and temporal analysis of signaling dynamics. , 2022, 1, .		8
914	Reversal of epithelial-mesenchymal transition and inhibition of tumor stemness of breast cancer cells through advanced combined chemotherapy. <i>Acta Biomaterialia</i> , 2022, 152, 380-392.	4.1	9

#	ARTICLE	IF	CITATIONS
915	Distinct characteristics of correlation analysis at the single-cell and the population level. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2022, .	0.2	0
917	Quantifying the phenotypic information in <scp>mRNA</scp> abundance. <i>Molecular Systems Biology</i> , 2022, 18, .	3.2	2
919	In Situ Imaging of mRNA Splicing Variants by SpliceRCA. <i>Methods in Molecular Biology</i> , 2022, , 197-209.	0.4	0
921	Stochastic population dynamics of cancer stemness and adaptive response to therapies. <i>Essays in Biochemistry</i> , 2022, 66, 387-398.	2.1	5
922	Novel biochemical, structural, and systems insights into inflammatory signaling revealed by contextual interaction proteomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	9
923	Harnessing TRAIL-induced cell death for cancer therapy: a long walk with thrilling discoveries. <i>Cell Death and Differentiation</i> , 2023, 30, 237-249.	5.0	23
924	Mathematical Models of Death Signaling Networks. <i>Entropy</i> , 2022, 24, 1402.	1.1	2
925	Modulation of signaling cross-talk between pJNK and pAKT generates optimal apoptotic response. <i>PLoS Computational Biology</i> , 2022, 18, e1010626.	1.5	1
927	Evolution and maintenance of phenotypic plasticity. <i>BioSystems</i> , 2022, 222, 104791.	0.9	5
928	Gene prioritization based on random walks with restarts and absorbing states, to define gene sets regulating drug pharmacodynamics from single-cell analyses. <i>PLoS ONE</i> , 2022, 17, e0268956.	1.1	0
929	Live-cell imaging and mathematical analysis of the "community effect" in apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 0, , .	2.2	1
930	A lineage tree-based hidden Markov model quantifies cellular heterogeneity and plasticity. <i>Communications Biology</i> , 2022, 5, .	2.0	2
931	Targeting TRAIL Death Receptors in Triple-Negative Breast Cancers: Challenges and Strategies for Cancer Therapy. <i>Cells</i> , 2022, 11, 3717.	1.8	5
934	Dynamics of Protein Kinase Cascades. , 2016, , 211-218.		0
935	Stochastic Analysis of Nongenetic Cell-to-Cell Heterogeneity. , 2016, , 454-463.		0
936	Transiently heritable fates and quorum sensing drive early IFN-I response dynamics. <i>ELife</i> , 0, 12, .	2.8	5
937	Characterization of cell-to-cell variation in nuclear transport rates and identification of its sources. <i>IScience</i> , 2023, 26, 105906.	1.9	3
938	Epigenetic memory acquired during long-term EMT induction governs the recovery to the epithelial state. <i>Journal of the Royal Society Interface</i> , 2023, 20, .	1.5	7

#	ARTICLE	IF	CITATIONS
939	Mechanisms involved in cancer stem cell resistance in head and neck squamous cell carcinoma. <i>Cancer Drug Resistance (Alhambra, Calif)</i> , 2023, 6, 116-137.	0.9	5
940	Optimal control of bioproduction in the presence of population heterogeneity. <i>Journal of Mathematical Biology</i> , 2023, 86, .	0.8	3
941	A biochemical necroptosis model explains cell-type-specific responses to cell death cues. <i>Biophysical Journal</i> , 2023, 122, 817-834.	0.2	2
942	In vitro to in vivo acetaminophen hepatotoxicity extrapolation using classical schemes, pharmacodynamic models and a multiscale spatial-temporal liver twin. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 11, .	2.0	3
946	Multi-range ERK responses shape the proliferative trajectory of single cells following oncogene induction. <i>Cell Reports</i> , 2023, 42, 112252.	2.9	5
949	Optimal inference of molecular interaction dynamics in FRET microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	3.3	1
950	Toward a systems-level probing of tumor clonality. <i>IScience</i> , 2023, 26, 106574.	1.9	1
951	Modeling Cellular Signaling Variability Based on Single-Cell Data: The TGF β ² -SMAD Signaling Pathway. <i>Methods in Molecular Biology</i> , 2023, , 215-251.	0.4	0
952	Resolving Crosstalk Between Signaling Pathways Using Mathematical Modeling and Time-Resolved Single Cell Data. <i>Methods in Molecular Biology</i> , 2023, , 267-284.	0.4	0
953	Unraveling non-genetic heterogeneity in cancer with dynamical models and computational tools. <i>Nature Computational Science</i> , 2023, 3, 301-313.	3.8	7