

The front and rear of collective cell migration

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Radiation-Induced RhoGDI ² Cleavage Leads to Perturbation of Cell Polarity: A Possible Link to Cancer Spreading. <i>Journal of Cellular Physiology</i> , 2016, 231, 2493-2505.	2.0	4
2	Facile Preparation of Photoactivatable Surfaces with Tuned Substrate Adhesiveness. <i>Analytical Sciences</i> , 2016, 32, 1183-1188.	0.8	9
3	A common framework for EMT and collective cell migration. <i>Development (Cambridge)</i> , 2016, 143, 4291-4300.	1.2	144
4	The Evolution of the Algorithms for Collective Behavior. <i>Cell Systems</i> , 2016, 3, 514-520.	2.9	69
5	Epithelial self-healing is recapitulated by a 3D biomimetic E-cadherin junction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14698-14703.	3.3	36
6	Modelling collective cell migration of neural crest. <i>Current Opinion in Cell Biology</i> , 2016, 42, 22-28.	2.6	36
7	The multicellular complexity of peripheral nerve regeneration. <i>Current Opinion in Neurobiology</i> , 2016, 39, 38-46.	2.0	168
8	Mechanics of epithelial tissues during gap closure. <i>Current Opinion in Cell Biology</i> , 2016, 42, 52-62.	2.6	107
9	Plasticity of Cancer Cell Invasion—Mechanisms and Implications for Therapy. <i>Advances in Cancer Research</i> , 2016, 132, 209-264.	1.9	71
10	The Cohesive Metastasis Phenotype in Human Prostate Cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2016, 1866, 221-231.	3.3	28
11	Cyclin D1, cancer progression, and opportunities in cancer treatment. <i>Journal of Molecular Medicine</i> , 2016, 94, 1313-1326.	1.7	477
12	The roles of tumor- and metastasis-promoting carcinoma-associated fibroblasts in human carcinomas. <i>Cell and Tissue Research</i> , 2016, 365, 675-689.	1.5	92
13	Collective epithelial cell sheet adhesion and migration on polyelectrolyte multilayers with uniform and gradients of compliance. <i>Experimental Cell Research</i> , 2016, 346, 17-29.	1.2	18
14	The role of aquaporin-5 in cancer cell migration: A potential active participant. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 79, 271-276.	1.2	42
15	Circuitous Genetic Regulation Governs a Straightforward Cell Migration. <i>Trends in Genetics</i> , 2016, 32, 660-673.	2.9	30
16	Rho GTPases: Regulation and roles in cancer cell biology. <i>Small GTPases</i> , 2016, 7, 207-221.	0.7	373
17	Engulfed cadherin fingers are polarized junctional structures between collectively migrating endothelial cells. <i>Nature Cell Biology</i> , 2016, 18, 1311-1323.	4.6	230
18	Diaphanous-related formin 1 as a target for tumor therapy. <i>Biochemical Society Transactions</i> , 2016, 44, 1289-1293.	1.6	9

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19	Biological characterization of three immortalized esophageal epithelial cell lines. <i>Molecular Medicine Reports</i> , 2016, 14, 4802-4810.	1.1	2
20	Leader Cells Define Directionality of Trunk, but Not Cranial, Neural Crest Cell Migration. <i>Cell Reports</i> , 2016, 15, 2076-2088.	2.9	100
21	Tuning Collective Cell Migration by Cell-Cell Junction Regulation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2017, 9, a029199.	2.3	268
22	<i>Xenopus</i> as a model organism to study heterotrimeric G-protein pathway during collective cell migration of neural crest. <i>Genesis</i> , 2017, 55, e23008.	0.8	4
23	Effective viscosity and dynamics of spreading epithelia: a solvable model. <i>Soft Matter</i> , 2017, 13, 1235-1243.	1.2	58
24	Physical models of collective cell motility: from cell to tissue. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 113002.	1.3	148
25	The role of tumor microenvironment in collective tumor cell invasion. <i>Future Oncology</i> , 2017, 13, 991-1002.	1.1	44
26	Developing Cures: Targeting Ontogenesis in Cancer. <i>Trends in Cancer</i> , 2017, 3, 126-136.	3.8	11
27	Elevated Na ⁺ /H ⁺ exchanger-1 expression enhances the metastatic collective migration of head and neck squamous cell carcinoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2017, 486, 101-107.	1.0	18
28	Collective cell migration: a physics perspective. <i>Reports on Progress in Physics</i> , 2017, 80, 076601.	8.1	158
29	Endothelial cells divide unequally to sprout fairly. <i>Cell Cycle</i> , 2017, 16, 595-596.	1.3	3
30	Zebrafish Pronephros Development. <i>Results and Problems in Cell Differentiation</i> , 2017, 60, 27-53.	0.2	24
31	Inferring single-cell behaviour from large-scale epithelial sheet migration patterns. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170147.	1.5	11
32	Diverse roles of guanine nucleotide exchange factors in regulating collective cell migration. <i>Journal of Cell Biology</i> , 2017, 216, 1543-1556.	2.3	30
33	Multilayer Nanofilms via Inkjet Printing for Stabilizing Growth Factor and Designing Desired Cell Developments. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700216.	3.9	8
34	Multicellular tumor invasion and plasticity in biomimetic materials. <i>Biomaterials Science</i> , 2017, 5, 1460-1479.	2.6	17
35	PDGF controls contact inhibition of locomotion by regulating N-cadherin during neural crest migration. <i>Development (Cambridge)</i> , 2017, 144, 2456-2468.	1.2	58
36	Direction-dependent contraction forces on cell boundaries induce collective migration of epithelial cells within their sheet. <i>Development Growth and Differentiation</i> , 2017, 59, 317-328.	0.6	6

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37	Collective cell migration has distinct directionality and speed dynamics. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3841-3850.	2.4	33
38	ATP-induced Ca ²⁺ -signalling mechanisms in the regulation of mesenchymal stem cell migration. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3697-3710.	2.4	45
39	Epithelial/mesenchymal plasticity: how have quantitative mathematical models helped improve our understanding?. <i>Molecular Oncology</i> , 2017, 11, 739-754.	2.1	64
40	Cell Division Induces and Switches Coherent Angular Motion within Bounded Cellular Collectives. <i>Biophysical Journal</i> , 2017, 112, 2419-2427.	0.2	13
41	Development and dynamics of cell polarity at a glance. <i>Journal of Cell Science</i> , 2017, 130, 1201-1207.	1.2	164
42	Shape of my heart: Cell-cell adhesion and cytoskeletal dynamics during <i>Drosophila</i> cardiac morphogenesis. <i>Experimental Cell Research</i> , 2017, 358, 65-70.	1.2	2
43	Epithelialâ€“mesenchymal transition, and collective and individual cell migration regulate epithelial changes in the amikacin-damaged organ of Corti. <i>Histochemistry and Cell Biology</i> , 2017, 148, 129-142.	0.8	10
44	Fat2 and Lar Define a Basally Localized Planar Signaling System Controlling Collective Cell Migration. <i>Developmental Cell</i> , 2017, 40, 467-477.e5.	3.1	103
45	Fat2 and Lar Dance a Pas de Deux during Collective Cell Migration. <i>Developmental Cell</i> , 2017, 40, 425-426.	3.1	3
46	Three-dimensional Organization of Layered Apical Cytoskeletal Networks Associated with Mouse Airway Tissue Development. <i>Scientific Reports</i> , 2017, 7, 43783.	1.6	40
47	Effects of matrix stiffness on epithelial to mesenchymal transition-like processes of endometrial epithelial cells: Implications for the pathogenesis of endometriosis. <i>Scientific Reports</i> , 2017, 7, 44616.	1.6	30
48	Molecular mechanisms of tumour invasion: regulation by calcium signals. <i>Journal of Physiology</i> , 2017, 595, 3063-3075.	1.3	59
49	Mechanisms of collective cell movement lacking a leading or free front edge in vivo. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 2709-2722.	2.4	3
50	Photoactivatable Substrates: A Materialâ€“Based Approach for Dissecting Cell Migration. <i>Chemical Record</i> , 2017, 17, 611-621.	2.9	11
51	Microtubules in 3D cell motility. <i>Journal of Cell Science</i> , 2017, 130, 39-50.	1.2	102
52	Î±6Î²4 Integrin Regulates the Collective Migration of Epithelial Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 56, 443-452.	1.4	31
53	Sperm Release at Spermiation Is Regulated by Changes in the Organization of Actin- and Microtubule-Based Cytoskeletons at the Apical Ectoplasmic Specializationâ€“A Study Using the Adjudin Model. <i>Endocrinology</i> , 2017, 158, 4300-4316.	1.4	36
54	A bioenergetic mechanism for amoeboid-like cell motility profiles tested in a microfluidic electrotaxis assay. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 844-856.	0.6	3

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55	Mechanical and signaling roles for keratin intermediate filaments in the assembly and morphogenesis of mesendoderm tissue at gastrulation. <i>Development (Cambridge)</i> , 2017, 144, 4363-4376.	1.2	35
56	Microenvironment-Driven Shift of Cohesion/Detachment Balance within Tumors Induces a Switch toward Metastasis in Neuroblastoma. <i>Cancer Cell</i> , 2017, 32, 427-443.e8.	7.7	65
57	Tension Creates an Endoreplication Wavefront that Leads Regeneration of Epicardial Tissue. <i>Developmental Cell</i> , 2017, 42, 600-615.e4.	3.1	103
58	Difference in Dachsous Levels between Migrating Cells Coordinates the Direction of Collective Cell Migration. <i>Developmental Cell</i> , 2017, 42, 479-497.e10.	3.1	24
59	Complex systems biology. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170391.	1.5	64
60	Methylseleninic Acid Provided at Nutritional Selenium Levels Inhibits Angiogenesis by Down-regulating Integrin β 3 Signaling. <i>Scientific Reports</i> , 2017, 7, 9445.	1.6	17
61	Connecting individual to collective cell migration. <i>Scientific Reports</i> , 2017, 7, 9720.	1.6	34
62	Collective motion of cells crawling on a substrate: roles of cell shape and contact inhibition. <i>Scientific Reports</i> , 2017, 7, 5163.	1.6	22
63	Aligned fibers direct collective cell migration to engineer closing and nonclosing wound gaps. <i>Molecular Biology of the Cell</i> , 2017, 28, 2579-2588.	0.9	40
64	Myosin II is not required for <i>Drosophila</i> tracheal branch elongation and cell intercalation. <i>Development (Cambridge)</i> , 2017, 144, 2961-2968.	1.2	26
65	Redox regulation in tumor cell epithelial \rightarrow mesenchymal transition: molecular basis and therapeutic strategy. <i>Signal Transduction and Targeted Therapy</i> , 2017, 2, 17036.	7.1	147
66	Asymmetric localization of DLC1 defines avian trunk neural crest polarity for directional delamination and migration. <i>Nature Communications</i> , 2017, 8, 1185.	5.8	16
67	Amniotic membrane promotes focal adhesion remodeling to stimulate cell migration. <i>Scientific Reports</i> , 2017, 7, 15262.	1.6	17
68	Mechanobiology of collective cell behaviours. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 743-757.	16.1	518
69	Shape and Dynamics of Adhesive Cells: Mechanical Response of Open Systems. <i>Physical Review Letters</i> , 2017, 118, 208102.	2.9	22
70	Single and collective cell migration: the mechanics of adhesions. <i>Molecular Biology of the Cell</i> , 2017, 28, 1833-1846.	0.9	287
71	Low \rightarrow level stretching accelerates cell migration into a gap. <i>International Wound Journal</i> , 2017, 14, 698-703.	1.3	23
72	E-cadherin dynamics is regulated by galectin-7 at epithelial cell surface. <i>Scientific Reports</i> , 2017, 7, 17086.	1.6	37

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73	Polarized actin and VE-cadherin dynamics regulate junctional remodelling and cell migration during sprouting angiogenesis. <i>Nature Communications</i> , 2017, 8, 2210.	5.8	129
74	The Actomyosin Network and Cellular Motility: A S100A4 Regulatory View into the Process. , 2017, , .		0
75	Targeting Metastasis with Snake Toxins: Molecular Mechanisms. <i>Toxins</i> , 2017, 9, 390.	1.5	22
76	Leaders in collective migration: are front cells really endowed with a particular set of skills?. <i>F1000Research</i> , 2017, 6, 1899.	0.8	57
77	Evidence of Signaling and Adhesion Roles for β -Catenin in the Sponge <i>Ephydatia muelleri</i> . <i>Molecular Biology and Evolution</i> , 2018, 35, 1407-1421.	3.5	33
78	Rap1 Negatively Regulates the Hippo Pathway to Polarize Directional Protrusions in Collective Cell Migration. <i>Cell Reports</i> , 2018, 22, 2160-2175.	2.9	28
79	The morphological and molecular mechanisms of epithelial/endothelial-to-mesenchymal transition and its involvement in atherosclerosis. <i>Vascular Pharmacology</i> , 2018, 106, 1-8.	1.0	77
80	Substrate Stiffness Coupling TGF- β 1 Modulates Migration and Traction Force of MDA-MB-231 Human Breast Cancer Cells in Vitro. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1337-1345.	2.6	22
81	Pore Shape Defines Paths of Metastatic Cell Migration. <i>Nano Letters</i> , 2018, 18, 2140-2147.	4.5	16
82	Rapid progression through the cell cycle ensures efficient migration of primordial germ cells – The role of Hsp90. <i>Developmental Biology</i> , 2018, 436, 84-93.	0.9	17
83	Biomaterials for endogenous regenerative medicine: Coaxing stem cell homing and beyond. <i>Applied Materials Today</i> , 2018, 11, 144-165.	2.3	52
84	Cobalt (II) ions and nanoparticles induce macrophage retention by ROS-mediated down-regulation of RhoA expression. <i>Acta Biomaterialia</i> , 2018, 72, 434-446.	4.1	44
85	Optogenetics in cancer drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2018, 13, 459-472.	2.5	9
86	A Rho-GTPase based model explains spontaneous collective migration of neural crest cell clusters. <i>Developmental Biology</i> , 2018, 444, S262-S273.	0.9	23
87	α -Tocopherol promotes HaCaT keratinocyte wound repair through the regulation of polarity proteins leading to the polarized cell migration. <i>BioFactors</i> , 2018, 44, 180-191.	2.6	16
88	The Scribble Cell Polarity Module in the Regulation of Cell Signaling in Tissue Development and Tumorigenesis. <i>Journal of Molecular Biology</i> , 2018, 430, 3585-3612.	2.0	118
89	Tissue stiffening coordinates morphogenesis by triggering collective cell migration in vivo. <i>Nature</i> , 2018, 554, 523-527.	13.7	404
90	β 1 integrin trafficking and Rac activation are regulated by APPL1 in a Rab5-dependent manner to inhibit cell migration. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	14

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91	Force-dependent binding of vinculin to β -catenin regulates cell-cell contact stability and collective cell behavior. <i>Molecular Biology of the Cell</i> , 2018, 29, 380-388.	0.9	99
92	Invading, Leading and Navigating Cells in <i>Caenorhabditis elegans</i> : Insights into Cell Movement <i>in Vivo</i> . <i>Genetics</i> , 2018, 208, 53-78.	1.2	48
93	Photoactivatable substrates for systematic study of the impact of an extracellular matrix ligand on appearance of leader cells in collective cell migration. <i>Biomaterials</i> , 2018, 169, 72-84.	5.7	14
94	A PRDX1 β heterodimer amplifies MET-driven invasion of IDH wildtype and IDH mutant gliomas. <i>International Journal of Cancer</i> , 2018, 143, 1176-1187.	2.3	14
95	High expression of A-type lamin in the leading front is required for <i>Drosophila thorax</i> closure. <i>Biochemical and Biophysical Research Communications</i> , 2018, 499, 209-214.	1.0	1
96	Transforming growth factor- β 2 modulates pancreatic cancer associated fibroblasts cell shape, stiffness and invasion. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1537-1546.	1.1	65
97	Cancer Metastasis: A Reappraisal of Its Underlying Mechanisms and Their Relevance to Treatment. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2018, 13, 117-140.	9.6	97
98	Lipid signaling affects primary fibroblast collective migration and anchorage in response to stiffness and microtopography. <i>Journal of Cellular Physiology</i> , 2018, 233, 3672-3683.	2.0	7
99	Untangling cell tracks: Quantifying cell migration by time lapse image data analysis. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2018, 93, 357-370.	1.1	55
100	Cell Polarity Reversal Distinguishes True Micropapillary Growth From Retraction Artifact in Invasive Urothelial Carcinoma. <i>Applied Immunohistochemistry and Molecular Morphology</i> , 2018, 26, e1-e6.	0.6	6
101	Structural analyses of key features in the KANK1-KIF21A complex yield mechanistic insights into the cross-talk between microtubules and the cell cortex. <i>Journal of Biological Chemistry</i> , 2018, 293, 215-225.	1.6	18
102	Sensing of Cytoskeletal Forces by Asymmetric Adherens Junctions. <i>Trends in Cell Biology</i> , 2018, 28, 328-341.	3.6	43
103	Tape-Assisted Photolithographic-Free Microfluidic Chip Cell Patterning for Tumor Metastasis Study. <i>Analytical Chemistry</i> , 2018, 90, 777-784.	3.2	29
104	Centre-of-Mass Like Superposition of Ornstein-Uhlenbeck Processes: A Pathway to Non-Autonomous Stochastic Differential Equations and to Fractional Diffusion. <i>Fractional Calculus and Applied Analysis</i> , 2018, 21, 1420-1435.	1.2	12
105	Vimentin on the move: New developments in cell migration. <i>F1000Research</i> , 2018, 7, 1796.	0.8	192
106	Biomechanics of Endothelial Tubule Formation Differentially Modulated by Cerebral Cavernous Malformation Proteins. <i>IScience</i> , 2018, 9, 347-358.	1.9	8
107	Overexpressing TPTE2 (TPIP), a homolog of the human tumor suppressor gene PTEN, rescues the abnormal phenotype of the PTEN mutant. <i>Oncotarget</i> , 2018, 9, 21100-21121.	0.8	11
108	Perspective: Aligned arrays of electrospun nanofibers for directing cell migration. <i>APL Materials</i> , 2018, 6, .	2.2	42

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109	Invasion of human deep nodular endometriotic lesions is associated with collective cell migration and nerve development. <i>Fertility and Sterility</i> , 2018, 110, 1318-1327.	0.5	31
110	Sperm Motility: Models for Dynamic Behavior in Complex Environments. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2018, , 169-209.	0.4	10
111	Parallel signaling pathways regulate excitable dynamics differently for pseudopod formation in eukaryotic chemotaxis. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	12
112	Dynamic Migration Modes of Collective Cells. <i>Biophysical Journal</i> , 2018, 115, 1826-1835.	0.2	63
113	Mechanical Force-Driven Adherens Junction Remodeling and Epithelial Dynamics. <i>Developmental Cell</i> , 2018, 47, 3-19.	3.1	166
114	Girdin/GIV regulates collective cancer cell migration by controlling cell adhesion and cytoskeletal organization. <i>Cancer Science</i> , 2018, 109, 3643-3656.	1.7	32
115	Gap junction protein Connexin-43 is a direct transcriptional regulator of N-cadherin in vivo. <i>Nature Communications</i> , 2018, 9, 3846.	5.8	115
116	Vimentin Diversity in Health and Disease. <i>Cells</i> , 2018, 7, 147.	1.8	192
117	The Ric-8A/GÎ±13/FAK signaling cascade controls focal adhesion formation during neural crest cell migration. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	13
118	Keratin 6 regulates collective keratinocyte migration by altering cell-cell and cell-matrix adhesion. <i>Journal of Cell Biology</i> , 2018, 217, 4314-4330.	2.3	70
119	Supracellular contraction at the rear of neural crest cell groups drives collective chemotaxis. <i>Science</i> , 2018, 362, 339-343.	6.0	123
120	N-cadherin in cancer metastasis, its emerging role in haematological malignancies and potential as a therapeutic target in cancer. <i>BMC Cancer</i> , 2018, 18, 939.	1.1	222
121	Coordinated collective migration and asymmetric cell division in confluent human keratinocytes without wounding. <i>Nature Communications</i> , 2018, 9, 3665.	5.8	39
122	Junction-based lamellipodia drive endothelial cell rearrangements in vivo via a VE-cadherin-F-actin based oscillatory cell-cell interaction. <i>Nature Communications</i> , 2018, 9, 3545.	5.8	48
123	Mechanical interactions among followers determine the emergence of leaders in migrating epithelial cell collectives. <i>Nature Communications</i> , 2018, 9, 3469.	5.8	124
124	Rap1 GTPase promotes coordinated collective cell migration in vivo. <i>Molecular Biology of the Cell</i> , 2018, 29, 2656-2673.	0.9	32
125	The Biophysics of 3D Cell Migration. <i>Annual Review of Biophysics</i> , 2018, 47, 549-567.	4.5	35
126	In pursuit of the mechanics that shape cell surfaces. <i>Nature Physics</i> , 2018, 14, 648-652.	6.5	68

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127	Minimal Network Topologies for Signal Processing during Collective Cell Chemotaxis. <i>Biophysical Journal</i> , 2018, 114, 2986-2999.	0.2	8
128	Local and global Cdc42 GEFs for fission yeast cell polarity are coordinated by microtubules and the Tea1/Tea4/Pom1 axis. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	27
129	Ric-8A, a GEF for heterotrimeric G-proteins, controls cranial neural crest cell polarity during migration. <i>Mechanisms of Development</i> , 2018, 154, 170-178.	1.7	4
130	Intermediate filaments control collective migration by restricting traction forces and sustaining cell-cell contacts. <i>Journal of Cell Biology</i> , 2018, 217, 3031-3044.	2.3	126
131	Actin-Based Cell Protrusion in a 3D Matrix. <i>Trends in Cell Biology</i> , 2018, 28, 823-834.	3.6	128
132	The regulation of junctional actin dynamics by cell adhesion receptors. <i>Histochemistry and Cell Biology</i> , 2018, 150, 341-350.	0.8	18
133	Fibroblasts in the Tumor Microenvironment: Shield or Spear?. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1532.	1.8	180
134	Planar cell polarity in organ formation. <i>Current Opinion in Cell Biology</i> , 2018, 55, 96-103.	2.6	41
135	Mechanisms of unusual collective cell movement lacking a free front edge in <i>Drosophila</i> . <i>Current Opinion in Genetics and Development</i> , 2018, 51, 46-51.	1.5	5
136	Coming to Consensus: A Unifying Model Emerges for Convergent Extension. <i>Developmental Cell</i> , 2018, 46, 389-396.	3.1	94
137	Requirement for and polarized localization of integrin proteins during <i>Drosophila</i> wound closure. <i>Molecular Biology of the Cell</i> , 2018, 29, 2137-2147.	0.9	11
138	Single cell analysis reveals a biophysical aspect of collective cell-state transition in embryonic stem cell differentiation. <i>Scientific Reports</i> , 2018, 8, 11965.	1.6	11
139	Spatial self-organization resolves conflicts between individuality and collective migration. <i>Nature Communications</i> , 2018, 9, 2177.	5.8	74
140	Redistribution of Adhesive Forces through Src/FAK Drives Contact Inhibition of Locomotion in Neural Crest. <i>Developmental Cell</i> , 2018, 45, 565-579.e3.	3.1	33
141	Context-Specific Mechanisms of Cell Polarity Regulation. <i>Journal of Molecular Biology</i> , 2018, 430, 3457-3471.	2.0	21
142	Adjustable viscoelasticity allows for efficient collective cell migration. <i>Seminars in Cell and Developmental Biology</i> , 2019, 93, 55-68.	2.3	87
143	Viscoelasticity in natural tissues and engineered scaffolds for tissue reconstruction. <i>Acta Biomaterialia</i> , 2019, 97, 74-92.	4.1	88
144	Integrating chemical and mechanical signals in neural crest cell migration. <i>Current Opinion in Genetics and Development</i> , 2019, 57, 16-24.	1.5	51

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145	Enhanced cell-cell contact stability and decreased N-cadherin-mediated migration upon fibroblast growth factor receptor-N-cadherin cross talk. <i>Oncogene</i> , 2019, 38, 6283-6300.	2.6	19
146	What makes cells move: Requirements and obstacles for leader cells in collective invasion. <i>Experimental Cell Research</i> , 2019, 382, 111481.	1.2	10
147	Cohesive and anisotropic vascular endothelial cell motility driving angiogenic morphogenesis. <i>Scientific Reports</i> , 2019, 9, 9304.	1.6	12
148	Store-Operated Ca ²⁺ Entry in Tumor Progression: From Molecular Mechanisms to Clinical Implications. <i>Cancers</i> , 2019, 11, 899.	1.7	48
149	Phosphorylated Rho-GDP directly activates mTORC2 kinase towards AKT through dimerization with Ras-GTP to regulate cell migration. <i>Nature Cell Biology</i> , 2019, 21, 867-878.	4.6	58
150	Electrochemical live monitoring of tumor cell migration out of micro-tumors on an innovative multiwell high-dense microelectrode array. <i>Scientific Reports</i> , 2019, 9, 13875.	1.6	14
151	An in vitro model of region-specific rib formation in chick axial skeleton: Intercellular interaction between somite and lateral plate cells. <i>Mechanisms of Development</i> , 2019, 159, 103568.	1.7	1
152	Genetic heterogeneity within collective invasion packs drives leader and follower cell phenotypes. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	23
153	Productive Cross-Talk with the Microenvironment: A Critical Step in Ovarian Cancer Metastasis. <i>Cancers</i> , 2019, 11, 1608.	1.7	24
154	Traction Microscopy Integrated with Microfluidics for Chemotactic Collective Migration. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	1
155	Mimicking Chemotactic Cell Migration with DNA Programmable Synthetic Vesicles. <i>Nano Letters</i> , 2019, 19, 9138-9144.	4.5	25
156	Leader cell PLC β 1 activation during keratinocyte collective migration is induced by EGFR localization and clustering. <i>Bioengineering and Translational Medicine</i> , 2019, 4, e10138.	3.9	3
157	An ensemble of flexible conformations underlies mechanotransduction by the cadherin-catenin adhesion complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21545-21555.	3.3	33
158	Matrix feedback enables diverse higher-order patterning of the extracellular matrix. <i>PLoS Computational Biology</i> , 2019, 15, e1007251.	1.5	20
159	Leader cells in collective chemotaxis: Optimality and trade-offs. <i>Physical Review E</i> , 2019, 100, 032417.	0.8	6
160	Human Immunodeficiency Virus (HIV) Infection and Use of Illicit Substances Promote Secretion of Semen Exosomes that Enhance Monocyte Adhesion and Induce Actin Reorganization and Chemotactic Migration. <i>Cells</i> , 2019, 8, 1027.	1.8	22
161	Misshapen coordinates protrusion restriction and actomyosin contractility during collective cell migration. <i>Nature Communications</i> , 2019, 10, 3940.	5.8	29
162	Longer collagen fibers trigger multicellular streaming on soft substrates via enhanced forces and cell-cell cooperation. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	13

#	ARTICLE	IF	CITATIONS
163	Mechanisms of 3D cell migration. <i>Nature Reviews Molecular Cell Biology</i> , 2019, 20, 738-752.	16.1	539
164	Phenolic and anthocyanin fractions from wild blueberries (<i>V. angustifolium</i>) differentially modulate endothelial cell migration partially through RHOA and RAC1. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 11056-11067.	1.2	10
165	Applications of Light-Sheet Microscopy in Microdevices. <i>Frontiers in Neuroanatomy</i> , 2019, 13, 1.	0.9	81
166	Collagen content and extracellular matrix cause cytoskeletal remodelling in pancreatic fibroblasts. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190226.	1.5	25
167	Biomechanics of Collective Cell Migration in Cancer Progression: Experimental and Computational Methods. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3766-3787.	2.6	34
168	Mechanochemical Coupling and Junctional Forces during Collective Cell Migration. <i>Biophysical Journal</i> , 2019, 117, 170-183.	0.2	26
169	In vitro Cell Migration, Invasion, and Adhesion Assays: From Cell Imaging to Data Analysis. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 107.	1.8	297
170	Substrate area confinement is a key determinant of cell velocity in collective migration. <i>Nature Physics</i> , 2019, 15, 858-866.	6.5	51
171	Engineering Cell Membrane-Based Nanotherapeutics to Target Inflammation. <i>Advanced Science</i> , 2019, 6, 1900605.	5.6	143
172	Bet-hedging strategies in expanding populations. <i>PLoS Computational Biology</i> , 2019, 15, e1006529.	1.5	44
173	E-cadherin mediated cell-biomaterial interaction reduces migration of keratinocytes in-vitro. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 180, 326-333.	2.5	10
174	Epithelial-Mesenchymal Plasticity in Cancer Progression and Metastasis. <i>Developmental Cell</i> , 2019, 49, 361-374.	3.1	629
175	Regulators of cell movement during development and regeneration in <i>Drosophila</i> . <i>Open Biology</i> , 2019, 9, 180245.	1.5	11
176	Supracellular migration “beyond collective cell migration. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	70
177	GNrep mouse: A reporter mouse for front-rear cell polarity. <i>Genesis</i> , 2019, 57, e23299.	0.8	9
178	Collective Cell Migration: Wisdom of the Crowds Transforms a Negative Cue into a Positive One. <i>Current Biology</i> , 2019, 29, R205-R207.	1.8	2
179	Planar-Polarized Semaphorin-5c and Plexin A Promote the Collective Migration of Epithelial Cells in <i>Drosophila</i> . <i>Current Biology</i> , 2019, 29, 908-920.e6.	1.8	34
180	Active Fingering Instability in Tissue Spreading. <i>Physical Review Letters</i> , 2019, 122, 088104.	2.9	56

#	ARTICLE	IF	CITATIONS
181	Decreasing Wound Edge Stress Enhances Leader Cell Formation during Collective Smooth Muscle Cell Migration. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3864-3875.	2.6	8
182	Therapeutic Targeting of Collective Invasion in Ovarian Cancer. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1466.	1.8	47
183	Electrospinning and Electrospun Nanofibers: Methods, Materials, and Applications. <i>Chemical Reviews</i> , 2019, 119, 5298-5415.	23.0	2,814
184	Cathepsin B defines leader cells during the collective invasion of salivary adenoid cystic carcinoma. <i>International Journal of Oncology</i> , 2019, 54, 1233-1244.	1.4	18
185	Randomly Distributed K14+ Breast Tumor Cells Polarize to the Leading Edge and Guide Collective Migration in Response to Chemical and Mechanical Environmental Cues. <i>Cancer Research</i> , 2019, 79, 1899-1912.	0.4	43
186	Overexpression and Tyr421-phosphorylation of cortactin is induced by three-dimensional spheroid culturing and contributes to migration and invasion of pancreatic ductal adenocarcinoma (PDAC) cells. <i>Cancer Cell International</i> , 2019, 19, 77.	1.8	16
187	Wnt/PCP Signaling Contribution to Carcinoma Collective Cell Migration and Metastasis. <i>Cancer Research</i> , 2019, 79, 1719-1729.	0.4	91
188	Cellular crowding influences extrusion and proliferation to facilitate epithelial tissue repair. <i>Molecular Biology of the Cell</i> , 2019, 30, 1890-1899.	0.9	25
189	Directed Collective Cell Migration Using Three-Dimensional Bioprinted Micropatterns on Thermoresponsive Surfaces for Myotube Formation. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3935-3943.	2.6	23
190	Fission Yeast NDR/LATS Kinase Orb6 Regulates Exocytosis via Phosphorylation of the Exocyst Complex. <i>Cell Reports</i> , 2019, 26, 1654-1667.e7.	2.9	27
191	ROCK isoforms differentially modulate cancer cell motility by mechanosensing the substrate stiffness. <i>Acta Biomaterialia</i> , 2019, 88, 86-101.	4.1	86
192	Non-damaging stretching combined with sodium pyruvate supplement accelerate migration of fibroblasts and myoblasts during gap closure. <i>Clinical Biomechanics</i> , 2019, 62, 96-103.	0.5	14
193	M-Ras/Shoc2 signaling modulates E-cadherin turnover and cell-cell adhesion during collective cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3536-3545.	3.3	25
194	Regulation of cell migration by $\alpha 4$ and $\alpha 9$ integrins. <i>Biochemical Journal</i> , 2019, 476, 705-718.	1.7	20
195	A MST1-FOXO1 cascade establishes endothelial tip cell polarity and facilitates sprouting angiogenesis. <i>Nature Communications</i> , 2019, 10, 838.	5.8	65
196	Tissue self-organization based on collective cell migration by contact activation of locomotion and chemotaxis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4291-4296.	3.3	48
197	When ubiquitin meets E-cadherin: Plasticity of the epithelial cellular barrier. <i>Seminars in Cell and Developmental Biology</i> , 2019, 93, 136-144.	2.3	19
198	The Na ⁺ /H ⁺ exchanger NHE1 localizes as clusters to cryptic lamellipodia and accelerates collective epithelial cell migration. <i>Journal of Physiology</i> , 2019, 597, 849-867.	1.3	17

#	ARTICLE	IF	CITATIONS
199	Photoactivatable Hydrogel Interfaces for Resolving the Interplay of Chemical, Mechanical, and Geometrical Regulation of Collective Cell Migration. <i>Langmuir</i> , 2019, 35, 7459-7468.	1.6	10
200	Information flow in the presence of cell mixing and signaling delays during embryonic development. <i>Seminars in Cell and Developmental Biology</i> , 2019, 93, 26-35.	2.3	21
201	Cell cluster migration: Connecting experiments with physical models. <i>Seminars in Cell and Developmental Biology</i> , 2019, 93, 77-86.	2.3	9
202	Modeling and Control of Single-Cell Migration Induced by a Chemoattractant-Loaded Microbead. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 427-439.	6.2	9
203	Carcinogenesis and Reactive Oxygen Species Signaling: Interaction of the NADPH Oxidase NOX1 and Superoxide Dismutase 3 Signal Transduction Pathways. <i>Antioxidants and Redox Signaling</i> , 2019, 30, 443-486.	2.5	71
204	Small GTPases orchestrate cell-cell communication during collective cell movement. <i>Small GTPases</i> , 2020, 11, 103-112.	0.7	18
205	Physical Models of Collective Cell Migration. <i>Annual Review of Condensed Matter Physics</i> , 2020, 11, 77-101.	5.2	214
206	Modelling collective cell migration: neural crest as a model paradigm. <i>Journal of Mathematical Biology</i> , 2020, 80, 481-504.	0.8	33
207	An interdisciplinary approach to investigate collective cell migration in neural crest. <i>Developmental Dynamics</i> , 2020, 249, 270-280.	0.8	8
208	Imaging Cell-Matrix Adhesions and Collective Migration of Living Cells by Electrochemiluminescence Microscopy. <i>Angewandte Chemie</i> , 2020, 132, 457-464.	1.6	45
209	Imaging Cell-Matrix Adhesions and Collective Migration of Living Cells by Electrochemiluminescence Microscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 449-456.	7.2	142
210	Metastatic seeding of human colon cancer cell clusters expressing the hybrid epithelial/mesenchymal state. <i>International Journal of Cancer</i> , 2020, 146, 2547-2562.	2.3	39
211	Allogeneic primary mesenchymal stem/stromal cell aggregates within poly(N-isopropylacrylamide-co-acrylic acid) hydrogel for osteochondral regeneration. <i>Applied Materials Today</i> , 2020, 18, 100487.	2.3	10
212	Coarse-grained modeling of cell division in 3D: influence of density, medium viscosity, and inter-membrane friction on cell growth and nearest neighbor distribution. <i>Soft Materials</i> , 2020, 18, 150-162.	0.8	3
213	Substrate curvature as a cue to guide spatiotemporal cell and tissue organization. <i>Biomaterials</i> , 2020, 232, 119739.	5.7	191
214	An Overview of Extrinsic and Intrinsic Mechanisms Involved in Astrocyte Development in the Central Nervous System. <i>Stem Cells and Development</i> , 2020, 29, 266-280.	1.1	10
215	The road best traveled: Neural crest migration upon the extracellular matrix. <i>Seminars in Cell and Developmental Biology</i> , 2020, 100, 177-185.	2.3	25
216	RNA sequencing reveals novel macrophage transcriptome favoring neurovascular plasticity after ischemic stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 720-738.	2.4	33

#	ARTICLE	IF	CITATIONS
217	Collective tumor cell migration in the presence of fibroblasts. <i>Journal of Biomechanics</i> , 2020, 100, 109568.	0.9	9
218	Clustered cell migration: Modeling the model system of <i>Drosophila</i> border cells. <i>Seminars in Cell and Developmental Biology</i> , 2020, 100, 167-176.	2.3	19
219	Chemical activation of the Piezo1 channel drives mesenchymal stem cell migration via inducing ATP release and activation of P2 receptor purinergic signaling. <i>Stem Cells</i> , 2020, 38, 410-421.	1.4	60
220	Multicellular scale front-to-rear polarity in collective migration. <i>Current Opinion in Cell Biology</i> , 2020, 62, 114-122.	2.6	37
221	A stage-specific cell-manipulation platform for inducing endothelialization on demand. <i>National Science Review</i> , 2020, 7, 629-643.	4.6	38
222	Asymmetric Stratification-Induced Polarity Loss and Coordinated Individual Cell Movements Drive Directional Migration of Vertebrate Epithelium. <i>Cell Reports</i> , 2020, 33, 108246.	2.9	4
223	NF1-RAC1 axis regulates migration of the melanocytic lineage. <i>Translational Oncology</i> , 2020, 13, 100858.	1.7	5
224	All Roads Lead to Directional Cell Migration. <i>Trends in Cell Biology</i> , 2020, 30, 852-868.	3.6	101
225	Boolean model of anchorage dependence and contact inhibition points to coordinated inhibition but semi-independent induction of proliferation and migration. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 2145-2165.	1.9	15
226	Wound Healing Driver Gene and Therapeutic Development: Political and Scientific Hurdles. <i>Advances in Wound Care</i> , 2021, 10, 415-435.	2.6	9
227	Supracellular Actomyosin Mediates Cell-Cell Communication and Shapes Collective Migratory Morphology. <i>IScience</i> , 2020, 23, 101204.	1.9	18
228	Cytoskeletal Crosstalk in Cell Migration. <i>Trends in Cell Biology</i> , 2020, 30, 720-735.	3.6	225
229	Epigenetically heterogeneous tumor cells direct collective invasion through filopodia-driven fibronectin micropatterning. <i>Science Advances</i> , 2020, 6, eaaz6197.	4.7	41
230	Cell spheroid fusion: beyond liquid drops model. <i>Scientific Reports</i> , 2020, 10, 12614.	1.6	43
231	Mechanical stimulation of cell microenvironment for cardiac muscle tissue regeneration: a 3D in-silico model. <i>Computational Mechanics</i> , 2020, 66, 1003-1023.	2.2	7
232	Design and synthesis of novel quinic acid derivatives: <i>in vitro</i> cytotoxicity and anticancer effect on glioblastoma. <i>Future Medicinal Chemistry</i> , 2020, 12, 1891-1910.	1.1	10
233	MicroRNA-200b/c-3p regulate epithelial plasticity and inhibit cutaneous wound healing by modulating TGF- β -mediated RAC1 signaling. <i>Cell Death and Disease</i> , 2020, 11, 931.	2.7	18
234	Going with the flow: insights from <i>Caenorhabditis elegans</i> zygote polarization. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190555.	1.8	24

#	ARTICLE	IF	CITATIONS
235	Collective chemotaxis of active nematic droplets. <i>Physical Review E</i> , 2020, 102, 020601.	0.8	7
236	Mathematical models for cell migration: a non-local perspective. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190379.	1.8	39
237	Cell-cell adhesion and 3D matrix confinement determine jamming transitions in breast cancer invasion. <i>Nature Cell Biology</i> , 2020, 22, 1103-1115.	4.6	209
238	The effects of coating culture dishes with collagen on fibroblast cell shape and swirling pattern formation. <i>Journal of Biological Physics</i> , 2020, 46, 351-369.	0.7	10
239	Pcdh18a regulates endocytosis of E-cadherin during axial mesoderm development in zebrafish. <i>Histochemistry and Cell Biology</i> , 2020, 154, 463-480.	0.8	6
240	Mechanism underlying dynamic scaling properties observed in the contour of spreading epithelial monolayer. <i>Physical Review E</i> , 2020, 102, 062408.	0.8	1
241	Biomimetic Design for Bio-Matrix Interfaces and Regenerative Organs. <i>Tissue Engineering - Part B: Reviews</i> , 2021, 27, 411-429.	2.5	5
242	Mechanical Cues Affect Migration and Invasion of Cells From Three Different Directions. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 583226.	1.8	41
243	The role of single-cell mechanical behaviour and polarity in driving collective cell migration. <i>Nature Physics</i> , 2020, 16, 802-809.	6.5	109
244	Mechanical induction and competence in epithelial morphogenesis. <i>Current Opinion in Genetics and Development</i> , 2020, 63, 36-44.	1.5	15
245	A device for investigation of natural cell mobility and deformability. <i>Electrophoresis</i> , 2020, 41, 1238-1244.	1.3	3
246	The P2Y ₆ receptor signals through G _q /Ca ²⁺ /PKC and G ₁₃ /ROCK pathways to drive the formation of membrane protrusions and dictate cell migration. <i>Journal of Cellular Physiology</i> , 2020, 235, 9676-9690.	2.0	17
247	Engraving the Surface of Electrospun Microfibers with Nanoscale Grooves Promotes the Outgrowth of Neurites and the Migration of Schwann Cells. <i>Angewandte Chemie</i> , 2020, 132, 15756-15762.	1.6	1
248	Cellular architecture response to aspect ratio tunable nanoarrays. <i>Nanoscale</i> , 2020, 12, 12395-12404.	2.8	10
249	3D-printed insert-array and 3D-coculture-array for high-throughput screening of cell migration and application to study molecular and cellular influences. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 055028.	1.7	1
250	FGF signaling is required for chemokinesis and ventral migration of trunk neural crest cells. <i>Developmental Dynamics</i> , 2020, 249, 1077-1097.	0.8	5
251	Phospholipids of the Plasma Membrane – Regulators or Consequence of Cell Polarity?. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 277.	1.8	20
252	Maneuvering the Migration and Differentiation of Stem Cells with Electrospun Nanofibers. <i>Advanced Science</i> , 2020, 7, 2000735.	5.6	49

#	ARTICLE	IF	CITATIONS
253	wERKIng the Waves in Collective Cell Migration. <i>Developmental Cell</i> , 2020, 53, 621-622.	3.1	1
254	What makes leader cells arise: Intrinsic properties and support from neighboring cells. <i>Journal of Cellular Physiology</i> , 2020, 235, 8983-8995.	2.0	13
255	Effect of three-dimensional ECM stiffness on cancer cell migration through regulating cell volume homeostasis. <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 459-465.	1.0	20
256	ERK-Mediated Mechanochemical Waves Direct Collective Cell Polarization. <i>Developmental Cell</i> , 2020, 53, 646-660.e8.	3.1	152
257	An IFT20 mechanotraficking axis is required for integrin recycling, focal adhesion dynamics, and polarized cell migration. <i>Molecular Biology of the Cell</i> , 2020, 31, 1917-1930.	0.9	7
258	Spatial confinement of receptor activity by tyrosine phosphatase during directional cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14270-14279.	3.3	2
259	<p>An AFM-Based Nanomechanical Study of Ovarian Tissues with Pathological Conditions</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 4333-4350.	3.3	19
260	Rac1 Signaling: From Intestinal Homeostasis to Colorectal Cancer Metastasis. <i>Cancers</i> , 2020, 12, 665.	1.7	50
261	Single Tumor Cells With Epithelial-Like Morphology Are Associated With Breast Cancer Metastasis. <i>Frontiers in Oncology</i> , 2020, 10, 50.	1.3	11
262	Silencing of Growth Differentiation Factor-15 Promotes Breast Cancer Cell Invasion by Down-regulating Focal Adhesion Genes. <i>Anticancer Research</i> , 2020, 40, 1375-1385.	0.5	5
263	Engraving the Surface of Electrospun Microfibers with Nanoscale Grooves Promotes the Outgrowth of Neurites and the Migration of Schwann Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15626-15632.	7.2	37
264	Enhancement of Breast Cancer Cell Aggressiveness by lncRNA H19 and its Mir-675 Derivative: Insight into Shared and Different Actions. <i>Cancers</i> , 2020, 12, 1730.	1.7	26
265	Nonmuscle myosin 2 regulates cortical stability during sprouting angiogenesis. <i>Molecular Biology of the Cell</i> , 2020, 31, 1974-1987.	0.9	10
266	Single cell migration profiling on a microenvironmentally tunable hydrogel microstructure device that enables stem cell potency evaluation. <i>Lab on A Chip</i> , 2020, 20, 958-972.	3.1	5
267	NOX1 Regulates Collective and Planktonic Cell Migration: Insights From Patients With Pediatric-Onset IBD and NOX1 Deficiency. <i>Inflammatory Bowel Diseases</i> , 2020, 26, 1166-1176.	0.9	9
268	Collective dynamics of coherent motile cells on curved surfaces. <i>Soft Matter</i> , 2020, 16, 2941-2952.	1.2	23
269	The stressful tumour environment drives plasticity of cell migration programmes, contributing to metastasis. <i>Journal of Pathology</i> , 2020, 250, 612-623.	2.1	26
270	A subtle relationship between substrate stiffness and collective migration of cell clusters. <i>Soft Matter</i> , 2020, 16, 1825-1839.	1.2	24

#	ARTICLE	IF	CITATIONS
271	Tactics of cancer invasion: solitary and collective invasion. <i>Journal of Biochemistry</i> , 2020, 167, 347-355.	0.9	30
272	An optochemical tool for light-induced dissociation of adherens junctions to control mechanical coupling between cells. <i>Nature Communications</i> , 2020, 11, 472.	5.8	31
273	Myo1e modulates the recruitment of activated B cells to inguinal lymph nodes. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	16
274	Fluorescent Probe for Transmembrane Dynamics during Osmotic Effects. <i>Analytical Chemistry</i> , 2020, 92, 3888-3895.	3.2	8
275	Connexins in Astrocyte Migration. <i>Frontiers in Pharmacology</i> , 2019, 10, 1546.	1.6	37
276	Mechanobiology, tissue development, and tissue engineering. , 2020, , 237-256.		3
277	Control of cell colony growth by contact inhibition. <i>Scientific Reports</i> , 2020, 10, 6713.	1.6	22
278	Guidelines and definitions for research on epithelialâ€“mesenchymal transition. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 341-352.	16.1	1,195
279	The Rho-guanine nucleotide exchange factor Solo decelerates collective cell migration by modulating the Rho-ROCK pathway and keratin networks. <i>Molecular Biology of the Cell</i> , 2020, 31, 741-752.	0.9	9
280	Direct interaction between CEP85 and STIL mediates PLk4-driven directed cell migration. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	9
281	Plasticity of cancer cell invasion: Patterns and mechanisms. <i>Translational Oncology</i> , 2021, 14, 100899.	1.7	84
282	Caveolinâ€“1 influences epithelial collective cell migration via FMNL2 formin. <i>Biology of the Cell</i> , 2021, 113, 107-117.	0.7	5
283	Recapturing embryonic potential in the adult epicardium: Prospects for cardiac repair. <i>Stem Cells Translational Medicine</i> , 2021, 10, 511-521.	1.6	12
284	Durotaxis: The Hard Path from InÂVitro to InÂVivo. <i>Developmental Cell</i> , 2021, 56, 227-239.	3.1	63
285	Recent advances in mesenchymal stem cell membrane-coated nanoparticles for enhanced drug delivery. <i>Biomaterials Science</i> , 2021, 9, 1088-1103.	2.6	64
286	Atomic force microscopy for revealing micro/nanoscale mechanics in tumor metastasis: from single cells to microenvironmental cues. <i>Acta Pharmacologica Sinica</i> , 2021, 42, 323-339.	2.8	43
287	Fine-tuning viscoelasticity: the key to collectively move in vivo. , 2021, , 79-109.		0
288	Collective Polarization of Cancer Cells at the Monolayer Boundary. <i>Micromachines</i> , 2021, 12, 112.	1.4	2

#	ARTICLE	IF	CITATIONS
289	The basics of collective cell migration: unity makes strength. , 2021, , 1-19.		0
291	Cohesive cancer invasion of the biophysical barrier of smooth muscle. <i>Cancer and Metastasis Reviews</i> , 2021, 40, 205-219.	2.7	7
292	Oscillations in collective cell migration. , 2021, , 157-192.		9
295	The G Protein-Coupled Receptor Kinases (GRKs) in Chemokine Receptor-Mediated Immune Cell Migration: From Molecular Cues to Physiopathology. <i>Cells</i> , 2021, 10, 75.	1.8	12
296	Single Cell Profiling of Mechanical Properties and Emt-Related Gene Expression in Cancer Finger During Collective Cell Migration Revealed the Regulatory Roles of SNAIL and VIM in Cancer Finger Formation. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
297	Fingering instability in spreading epithelial monolayers: roles of cell polarisation, substrate friction and contractile stresses. <i>Soft Matter</i> , 2021, 17, 8276-8290.	1.2	10
298	Mechanisms of Collective Cell Migration in Wound Healing: Physiology and Disease. , 2021, , 55-74.		0
299	Fueling the cytoskeleton “ links between cell metabolism and actin remodeling. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	56
300	On the preservation of vessel bifurcations during flow-mediated angiogenic remodelling. <i>PLoS Computational Biology</i> , 2021, 17, e1007715.	1.5	6
301	Enhanced Piezoelectric Fibered Extracellular Matrix to Promote Cardiomyocyte Maturation and Tissue Formation: A 3D Computational Model. <i>Biology</i> , 2021, 10, 135.	1.3	6
302	Filopodia-based contact stimulation of cell migration drives tissue morphogenesis. <i>Nature Communications</i> , 2021, 12, 791.	5.8	28
303	Collagen I triggers directional migration, invasion and matrix remodeling of stroma cells in a 3D spheroid model of endometriosis. <i>Scientific Reports</i> , 2021, 11, 4115.	1.6	33
304	Extracellular matrix density regulates the formation of tumour spheroids through cell migration. <i>PLoS Computational Biology</i> , 2021, 17, e1008764.	1.5	29
306	Characterization of immune cell migration using microfabrication. <i>Biophysical Reviews</i> , 2021, 13, 185-202.	1.5	20
307	Colonization of distant organs by tumor cells generating circulating homotypic clusters adaptive to fluid shear stress. <i>Scientific Reports</i> , 2021, 11, 6150.	1.6	13
308	The epithelial-mesenchymal transition and the cytoskeleton in bioengineered systems. <i>Cell Communication and Signaling</i> , 2021, 19, 32.	2.7	64
309	The Significant Role of the Microfilament System in Tumors. <i>Frontiers in Oncology</i> , 2021, 11, 620390.	1.3	13
310	The Dynamic Counterbalance of RAC1“YAP/OB“Cadherin Coordinates Tissue Spreading with Stem Cell Fate Patterning. <i>Advanced Science</i> , 2021, 8, 2004000.	5.6	7

#	ARTICLE	IF	CITATIONS
311	Facile Method to Create Poly(α -hydroxy acid-co-lactide) Composite Membranes with Sequential Chitin Whisker Layers for Tunable Strength and Cell Adhesion. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4440-4452.	3.2	7
312	The mechanism of sitagliptin inhibition of colorectal cancer cell lines' metastatic functionalities. <i>IUBMB Life</i> , 2021, 73, 761-773.	1.5	8
313	Continuous chaotic bioprinting of skeletal muscle-like constructs. <i>Bioprinting</i> , 2021, 21, e00125.	2.9	35
314	Aberrant Claudin-6 Adhesion Signaling Promotes Endometrial Cancer Progression via Estrogen Receptor β . <i>Molecular Cancer Research</i> , 2021, 19, 1208-1220.	1.5	19
315	Collective migrations in an epithelial cancerous cell monolayer. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021, 37, 773-784.	1.5	3
316	Self-organized cell migration across scales from single cell movement to tissue formation. <i>Development (Cambridge)</i> , 2021, 148, .	1.2	22
317	Distinct Modes of Tissue Expansion in Free Versus Earlier-Confined Boundaries for More Physiological Modeling of Wound Healing, Cancer Metastasis, and Tissue Formation. <i>ACS Omega</i> , 2021, 6, 11209-11222.	1.6	4
319	Store Operated Calcium Entry in Cell Migration and Cancer Metastasis. <i>Cells</i> , 2021, 10, 1246.	1.8	30
320	Expression of E-Cadherin in Epithelial Cancer Cells Increases Cell Motility and Directionality through the Localization of ZO-1 during Collective Cell Migration. <i>Bioengineering</i> , 2021, 8, 65.	1.6	6
322	The principles of directed cell migration. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 529-547.	16.1	252
323	Single-cell metabolic imaging reveals a SLC2A3-dependent glycolytic burst in motile endothelial cells. <i>Nature Metabolism</i> , 2021, 3, 714-727.	5.1	37
324	Unexpected localization of AQP3 and AQP4 induced by migration of primary cultured IMCD cells. <i>Scientific Reports</i> , 2021, 11, 11930.	1.6	7
325	Mathematical Modeling of Invasive Carcinoma: Biomechanics of Small Groups of Cancer Cells. <i>Journal of Physics: Conference Series</i> , 2021, 1945, 012025.	0.3	0
326	Targeting Leader Cells in Ovarian Cancer as an Effective Therapeutic Option. , 0, , .		0
327	Collective excitations in active fluids: Microflows and breakdown in spectral equipartition of kinetic energy. <i>Journal of Chemical Physics</i> , 2021, 155, 024902.	1.2	7
328	Extracellular vesicles: Critical players during cell migration. <i>Developmental Cell</i> , 2021, 56, 1861-1874.	3.1	62
330	Mechanics of developmental migration. <i>Seminars in Cell and Developmental Biology</i> , 2021, 120, 66-74.	2.3	5
332	The Microtubule Minus-End Binding Protein Patronin Is Required for the Epithelial Remodeling in the Drosophila Abdomen. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 682083.	1.8	6

#	ARTICLE	IF	CITATIONS
333	The Role of miRNAs in the Regulation of Endometrial Cancer Invasiveness and Metastasis—A Systematic Review. <i>Cancers</i> , 2021, 13, 3393.	1.7	17
334	Chronic Wound Healing by Amniotic Membrane: TGF- β 2 and EGF Signaling Modulation in Re-epithelialization. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 689328.	2.0	21
335	Roles of leader and follower cells in collective cell migration. <i>Molecular Biology of the Cell</i> , 2021, 32, 1267-1272.	0.9	47
336	Modeling and Predicting the Cell Migration Properties from Scratch Wound Healing Assay on Cisplatin-Resistant Ovarian Cancer Cell Lines Using Artificial Neural Network. <i>Healthcare (Switzerland)</i> , 2021, 9, 911.	1.0	12
337	Overriding native cell coordination enhances external programming of collective cell migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	24
338	Decoding leader cells in collective cancer invasion. <i>Nature Reviews Cancer</i> , 2021, 21, 592-604.	12.8	80
339	Overview of Nano-Fiber Mats Fabrication via Electrospinning and Morphology Analysis. <i>Textiles</i> , 2021, 1, 206-226.	1.8	43
340	In vitro stimulation with radiofrequency currents promotes proliferation and migration in human keratinocytes and fibroblasts. <i>Electromagnetic Biology and Medicine</i> , 2021, 40, 338-352.	0.7	6
341	Endothelial Cell Migration Regulated by Surface Topography of Poly(μ -caprolactone) Nanofibers. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4959-4970.	2.6	11
342	Beta-Pix-dynamin 2 complex promotes colorectal cancer progression by facilitating membrane dynamics. <i>Cellular Oncology (Dordrecht)</i> , 2021, 44, 1287-1305.	2.1	1
343	A persistent invasive phenotype in post-hypoxic tumor cells is revealed by fate mapping and computational modeling. <i>IScience</i> , 2021, 24, 102935.	1.9	18
344	Profiling of Human Neural Crest Chemoattractant Activity as a Replacement of Fetal Bovine Serum for In Vitro Chemotaxis Assays. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10079.	1.8	5
345	PLP2 drives collective cell migration via ZO-1-mediated cytoskeletal remodeling at the leading edge in human colorectal cancer cells. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	6
347	Epithelial to Mesenchymal Transition. , 2021, , .		1
348	Mechanical Regulation of Microvascular Growth and Remodeling. <i>Reference Series in Biomedical Engineering</i> , 2021, , 33-76.	0.1	0
349	Human Platelet Lysates-Based Hydrogels: A Novel Personalized 3D Platform for Spheroid Invasion Assessment. <i>Advanced Science</i> , 2020, 7, 1902398.	5.6	31
350	Positioning of the Centrosome and Golgi Complex. <i>Results and Problems in Cell Differentiation</i> , 2019, 67, 127-200.	0.2	6
351	The Tumor Microenvironments of Lethal Prostate Cancer. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1210, 149-170.	0.8	7

#	ARTICLE	IF	CITATIONS
352	Mechanical Regulation of Microvascular Growth and Remodeling. , 2019, , 1-45.		3
353	Sending messages in moving cells: mRNA localization and the regulation of cell migration. Essays in Biochemistry, 2019, 63, 595-606.	2.1	16
354	Design of nematic liquid crystals to control microscale dynamics. Liquid Crystals Reviews, 2020, 8, 59-129.	1.1	22
355	VE-cadherin endocytosis controls vascular integrity and patterning during development. Journal of Cell Biology, 2020, 219, .	2.3	34
356	Adherens junction regulates cryptic lamellipodia formation for epithelial cell migration. Journal of Cell Biology, 2020, 219, .	2.3	45
357	Prostaglandins regulate invasive, collective border cell migration. Molecular Biology of the Cell, 2020, 31, 1584-1594.	0.9	11
368	The Role of Fluid Shear and Metastatic Potential in Breast Cancer Cell Migration. Journal of Biomechanical Engineering, 2020, 142, .	0.6	11
369	Force transduction by cadherin adhesions in morphogenesis. F1000Research, 2019, 8, 1044.	0.8	43
370	Cadherin-2 Is Required Cell Autonomously for Collective Migration of Facial Branchiomotor Neurons. PLoS ONE, 2016, 11, e0164433.	1.1	14
371	RAB13 mRNA compartmentalisation spatially orients tissue morphogenesis. EMBO Journal, 2020, 39, e106003.	3.5	21
372	Endothelial cells on the move: dynamics in vascular morphogenesis and disease. Vascular Biology (Bristol, England), 2020, 2, H29-H43.	1.2	42
373	Identification of the PAK4 interactome reveals PAK4 phosphorylation of N-WASP and promotion of Arp2/3-dependent actin polymerization. Oncotarget, 2017, 8, 77061-77074.	0.8	23
374	Characterization of epithelial-mesenchymal transition intermediate/hybrid phenotypes associated to resistance to EGFR inhibitors in non-small cell lung cancer cell lines. Oncotarget, 2017, 8, 103340-103363.	0.8	44
375	Mechanical stretch modulates cell migration in the lungs. Annals of Translational Medicine, 2018, 6, 28-28.	0.7	8
376	Stromal fibroblasts induce metastatic tumor cell clusters via epithelialâ€mesenchymal plasticity. Life Science Alliance, 2019, 2, e201900425.	1.3	48
377	Protein phosphatase 1 activity controls a balance between collective and single cell modes of migration. ELife, 2020, 9, .	2.8	20
378	Spatio-temporal analysis of collective migration in vivo by particle image velocimetry. Physical Biology, 2021, 18, 066008.	0.8	3
379	Redundant roles of EGFR ligands in the ERK activation waves during collective cell migration. Life Science Alliance, 2022, 5, e202101206.	1.3	18

#	ARTICLE	IF	CITATIONS
380	Role of RhoC in cancer cell migration. <i>Cancer Cell International</i> , 2021, 21, 527.	1.8	14
383	Peking University - Juntendo University Joint Symposium on Cancer Research and Treatment. <i>Juntendo Medical Journal</i> , 2017, 63, 348-353.	0.1	0
391	Monitoring ruffling cells by lattice light-sheet microscopy. , 2018, , .		0
407	Putting the brakes on tumorigenesis with snake venom toxins: New molecular insights for cancer drug discovery. <i>Seminars in Cancer Biology</i> , 2022, 80, 195-204.	4.3	13
408	TRANSICIÃ“N EPITELIO-MESÃ“QUIMA INDUCIDA POR VIRUS. <i>Acta Biologica Colombiana</i> , 2020, 26, 105-115.	0.1	0
409	CAFs and Cancer Cells Co-Migration in 3D Spheroid Invasion Assay. <i>Methods in Molecular Biology</i> , 2021, 2179, 243-256.	0.4	13
410	Hylozoic by Design: Converging Material and Biological Complexities for Cell-Driven Living Materials with 4D Behaviors. <i>Advanced Functional Materials</i> , 2022, 32, 2108057.	7.8	9
411	Non-muscle myosin II isoforms orchestrate substrate stiffness sensing to promote cancer cell contractility and migration. <i>Cancer Letters</i> , 2022, 524, 245-258.	3.2	16
412	Analysis of vascular smooth muscle cell and HeLa cell migration on the microgrooved substrate (Cell) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.1	1
415	KIF13B-mediated VEGFR2 trafficking is essential for vascular leakage and metastasis in vivo. <i>Life Science Alliance</i> , 2022, 5, e202101170.	1.3	6
416	Engineering liver microtissues to study the fusion of HepG2 with mesenchymal stem cells and invasive potential of fused cells. <i>Biofabrication</i> , 2022, 14, 014104.	3.7	5
418	Targeting of parvulin interactors by diazirine mediated cross-linking discloses a cellular role of human Par14/17 in actin polymerization. <i>Biological Chemistry</i> , 2020, 401, 955-968.	1.2	1
422	Association of ROS with Epithelial-Mesenchymal Transition and Acquisition of Stemness During Carcinogenesis. , 2021, , 1-13.		0
423	Research Progress on Cell Membrane-Coated Biomimetic Delivery Systems. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 772522.	2.0	19
424	Supracellular organization confers directionality and mechanical potency to migrating pairs of cardiopharyngeal progenitor cells. <i>ELife</i> , 2021, 10, .	2.8	3
425	Differential Collective Cell Migratory Behaviors Modulated by Phospholipid Nanocarriers. <i>ACS Nano</i> , 2021, 15, 17412-17425.	7.3	7
426	Dual role of E-cadherin in cancer cells. <i>Tissue Barriers</i> , 2022, 10, 2005420.	1.6	11
427	CAF promotes chemoresistance through NRP2 in gastric cancer. <i>Gastric Cancer</i> , 2022, 25, 503-514.	2.7	21

#	ARTICLE	IF	CITATIONS
428	Cell-cell adhesion impacts epithelia response to substrate stiffness: Morphology and gene expression. <i>Biophysical Journal</i> , 2022, 121, 336-346.	0.2	7
429	The mechanosensitive channel Piezo1 cooperates with semaphorins to control neural crest migration. <i>Development (Cambridge)</i> , 2021, 148, .	1.2	17
430	Association of ROS with Epithelial-Mesenchymal Transition and Acquisition of Stemness During Carcinogenesis. , 2021, , 1-13.		0
432	Trade-offs between chemotaxis and proliferation shape the phenotypic structuring of invading waves. <i>International Journal of Non-Linear Mechanics</i> , 2022, 139, 103885.	1.4	4
433	Macroscopic descriptions of follower-leader systems. <i>Kinetic and Related Models</i> , 2021, 14, 981.	0.5	0
434	Cellâ€Derived Biomimetic 2D Nanoparticles to Improve Cellâ€Specific Targeting and Tissue Penetration for Enhanced Magnetic Resonance Imaging. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	10
435	Simulation and in vivo experimentation predict <scp>AdamTSâ€A</scp> location of function during caudal visceral mesoderm migration in <i>Drosophila</i> . <i>Developmental Dynamics</i> , 2022, 251, 1123-1137.	0.8	3
436	Collective durotaxis of cohesive cell clusters on a stiffness gradient. <i>European Physical Journal E</i> , 2022, 45, 7.	0.7	6
437	C/EBPÎ² isoform-specific regulation of migration and invasion in triple-negative breast cancer cells. <i>Npj Breast Cancer</i> , 2022, 8, 11.	2.3	9
438	Experimental study of negative pressure wound therapy combined with platelet-rich fibrin for bone-exposed wounds. <i>Regenerative Medicine</i> , 2022, 17, 23-35.	0.8	3
439	1D, 2D, and 3D scaffolds promoting angiogenesis for enhanced wound healing. <i>Chemical Engineering Journal</i> , 2022, 437, 134690.	6.6	38
440	Association of ROS with Epithelial-Mesenchymal Transition and Acquisition of Stemness During Carcinogenesis. , 2022, , 1703-1715.		0
443	Astrocyte-intrinsic and -extrinsic <i>Fat1</i> activities regulate astrocyte development and angiogenesis in the retina. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	8
444	Dysregulated transient receptor potential channel 1 expression and its correlation with clinical features and survival profile in surgical nonâ€smallâ€cell lung cancer patients. <i>Journal of Clinical Laboratory Analysis</i> , 2022, 36, e24229.	0.9	7
445	p53 directs leader cell behavior, migration, and clearance during epithelial repair. <i>Science</i> , 2022, 375, eabl8876.	6.0	32
446	From start to finishâ€a molecular link in wound repair. <i>Science</i> , 2022, 375, 619-620.	6.0	5
447	Single cell analysis of mechanical properties and EMT-related gene expression profiles in cancer fingers. <i>IScience</i> , 2022, 25, 103917.	1.9	13
448	Non-canonical Wnt signaling promotes directed migration of intestinal stem cells to sites of injury. <i>Nature Communications</i> , 2021, 12, 7150.	5.8	25

#	ARTICLE	IF	CITATIONS
449	Largely Tuning Geometrical and Mechanical Properties of Tpms-Based Lattices Independent of Volume Fraction. SSRN Electronic Journal, 0, , .	0.4	1
450	Cell type-specific orientation and migration responses for a microgrooved surface with shallow grooves. Bio-Medical Materials and Engineering, 2022, , 1-14.	0.4	1
451	Mechanical transmission enables EMT cancer cells to drive epithelial cancer cell migration to guide tumor spheroid disaggregation. Science China Life Sciences, 2022, 65, 2031-2049.	2.3	13
452	Short-term bioelectric stimulation of collective cell migration in tissues reprograms long-term supracellular dynamics. , 2022, 1, pgac002.		9
453	The role of cell geometry and cell-cell communication in gradient sensing. PLoS Computational Biology, 2022, 18, e1009552.	1.5	2
454	Impact of Vimentin on Regulation of Cell Signaling and Matrix Remodeling. Frontiers in Cell and Developmental Biology, 2022, 10, 869069.	1.8	23
455	Hysteresis stabilizes dynamic control of self-assembled army ant constructions. Nature Communications, 2022, 13, 1160.	5.8	9
456	The <i>Drosophila</i> spectraplakins Short stop regulates focal adhesion dynamics by cross-linking microtubules and actin. Molecular Biology of the Cell, 2022, 33, mbcE21090434.	0.9	2
457	Directing with restraint: Mechanisms of protrusion restriction in collective cell migrations. Seminars in Cell and Developmental Biology, 2022, 129, 75-81.	2.3	15
458	Tuning surface curvatures and young's moduli of TPMS-based lattices independent of volume fraction. Materials and Design, 2022, 216, 110542.	3.3	13
459	Active chemo-mechanical feedbacks dictate the collective migration of cells on patterned surfaces. Biophysical Journal, 2022, 121, 1266-1275.	0.2	12
460	Cell chirality regulates coherent angular motion on small circular substrates. Biophysical Journal, 2022, 121, 1931-1939.	0.2	5
461	The Autophagic Route of E-Cadherin and Cell Adhesion Molecules in Cancer Progression. Cancers, 2021, 13, 6328.	1.7	10
463	Cell migration. , 2022, , 67-82.		0
464	Extracellular matrix-dependent mechanosensing and mechanotransduction. , 2022, , 101-127.		4
471	Collective gradient sensing with limited positional information. Physical Review E, 2022, 105, 044410.	0.8	5
472	Density-Dependent Migration Characteristics of Cancer Cells Driven by Pseudopod Interaction. Frontiers in Cell and Developmental Biology, 2022, 10, 854721.	1.8	6
473	MCF10CA Breast Cancer Cells Utilize Hyaluronan-Coated EV-Rich Trails for Coordinated Migration. Frontiers in Oncology, 2022, 12, 869417.	1.3	6

#	ARTICLE	IF	CITATIONS
474	Leading-edge elongation by follower cell interruption in advancing epithelial cell sheets. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119903119.	3.3	3
476	From guardian to shepherd: The novel role of p53 in collective cell migration and epithelial repair. Clinical and Translational Medicine, 2022, 12, e855.	1.7	1
477	Polarized interfacial tension induces collective migration of cells, as a cluster, in a 3D tissue. Biophysical Journal, 2022, 121, 1856-1867.	0.2	10
478	“Nanodecoys”- Future of drug delivery by encapsulating nanoparticles in natural cell membranes. International Journal of Pharmaceutics, 2022, 621, 121790.	2.6	25
479	First Resonance Energy Transfer-Based Single-Cell Imaging Reveals Piezo1-Induced Ca ²⁺ Flux Mediates Membrane Ruffling and Cell Survival. Frontiers in Cell and Developmental Biology, 2022, 10, .	1.8	1
480	Topography-induced large-scale antiparallel collective migration in vascular endothelium. Nature Communications, 2022, 13, 2797.	5.8	8
486	Receptor, Signal, Nucleus, Action: Signals That Pass through Akt on the Road to Head and Neck Cancer Cell Migration. Cancers, 2022, 14, 2606.	1.7	1
487	Inhibition of negative feedback for persistent epithelial cell-cell junction contraction by p21-activated kinase 3. Nature Communications, 2022, 13, .	5.8	2
488	CTNND1 variants cause familial exudative vitreoretinopathy through the Wnt/cadherin axis. JCI Insight, 2022, 7, .	2.3	17
489	Actin-driven Golgi apparatus dispersal during collective migration of epithelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	8
490	DUSP3 regulates phosphorylation-mediated degradation of occludin and is required for maintaining epithelial tight junction. Journal of Biomedical Science, 2022, 29, .	2.6	3
491	Collective behavior and nongenetic inheritance allow bacterial populations to adapt to changing environments. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	16
493	Effect of the Human Amniotic Membrane on the Umbilical Vein Endothelial Cells of Gestational Diabetic Mothers: New Insight on Inflammation and Angiogenesis. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	5
495	Persistence of leader cell behaviour can lead to malignant transformation in oral submucous fibrosis. Medical Hypotheses, 2022, 166, 110914.	0.8	0
496	Substrate stiffness modulates migration and local inter-cellular membrane motion in pulmonary endothelial cell monolayers. American Journal of Physiology - Cell Physiology, 0, , .	2.1	2
497	Intermediate filaments: Integration of cell mechanical properties during migration. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	7
499	In Situ Visualization of Dynamic Cellular Effects of Phospholipid Nanoparticles via High-Speed Scanning Ion Conductance Microscopy. Small, 2022, 18, .	5.2	7
501	The integrated comprehension of lncRNA HOXA-AS3 implication on human diseases. Clinical and Translational Oncology, 2022, 24, 2342-2350.	1.2	4

#	ARTICLE	IF	CITATIONS
502	High-content screening of active components of Traditional Chinese Medicine inhibiting TGF- β ² -induced cell EMT. <i>Heliyon</i> , 2022, 8, e10238.	1.4	0
503	Insights into Circulating Tumor Cell Clusters: A Barometer for Treatment Effects and Prognosis for Prostate Cancer Patients. <i>Cancers</i> , 2022, 14, 3985.	1.7	6
505	PTEN inhibits AMPK to control collective migration. <i>Nature Communications</i> , 2022, 13, .	5.8	10
506	Biomimetic Hydrogels in the Study of Cancer Mechanobiology: Overview, Biomedical Applications, and Future Perspectives. <i>Gels</i> , 2022, 8, 496.	2.1	4
507	A bioinformatics analysis: ZFH4 is associated with metastasis and poor survival in ovarian cancer. <i>Journal of Ovarian Research</i> , 2022, 15, .	1.3	10
508	Oleanolic acid stimulation of cell migration involves a biphasic signaling mechanism. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
509	The emergence of spontaneous coordinated epithelial rotation on cylindrical curved surfaces. <i>Science Advances</i> , 2022, 8, .	4.7	14
510	Neuroblasts contribute to oligodendrocytes generation upon demyelination in the adult mouse brain. <i>IScience</i> , 2022, 25, 105102.	1.9	0
511	Par3 promotes breast cancer invasion and migration through pull tension and protein nanoparticle-induced osmotic pressure. <i>Biomedicine and Pharmacotherapy</i> , 2022, 155, 113739.	2.5	1
512	Cell mechanics and energetic costs of collective cell migration under confined microchannels. <i>Chinese Chemical Letters</i> , 2023, 34, 107789.	4.8	1
513	Connexin-43 is a promising target for lycopene preventing phthalate-induced spermatogenic disorders. <i>Journal of Advanced Research</i> , 2023, 49, 115-126.	4.4	7
514	Molecular characteristics of the edge cells responsible for expansion of the chick embryo on the vitelline membrane. <i>Open Biology</i> , 2022, 12, .	1.5	2
515	Cell clusters adopt a collective amoeboid mode of migration in confined nonadhesive environments. <i>Science Advances</i> , 2022, 8, .	4.7	20
516	A feedback loop between lamellipodial extension and HGF-ERK signaling specifies leader cells during collective cell migration. <i>Developmental Cell</i> , 2022, 57, 2290-2304.e7.	3.1	11
518	RanBP1 plays an essential role in directed migration of neural crest cells during development. <i>Developmental Biology</i> , 2022, 492, 79-86.	0.9	2
519	Towards a comprehensive approach for characterizing cell activity in bright-field microscopic images. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
521	Cellular Plasticity and Heterotypic Interactions during Breast Morphogenesis and Cancer Initiation. <i>Cancers</i> , 2022, 14, 5209.	1.7	3
522	Quantitative Analysis of Collective Migration by Single-Cell Tracking Aimed at Understanding Cancer Metastasis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 12372.	1.8	1

#	ARTICLE	IF	CITATIONS
523	Morphogen gradient orchestrates pattern-preserving tissue morphogenesis via motility-driven unjamming. <i>Nature Physics</i> , 2022, 18, 1482-1493.	6.5	27
524	Two Rac1 pools integrate the direction and coordination of collective cell migration. <i>Nature Communications</i> , 2022, 13, .	5.8	6
525	Osteoconductivity of bone substitutes with filament-based microarchitectures: Influence of directionality, filament dimension, and distance. <i>International Journal of Bioprinting</i> , 2022, 9, 626.	1.7	2
526	Plasticity of cancer invasion and energy metabolism. <i>Trends in Cell Biology</i> , 2023, 33, 388-402.	3.6	14
527	Osteogenic Differentiated Human Bone Marrow Stem Cells Contribute to Sprouting Angiogenesis Deceleration via Paracrine Excreted IGFBP7. <i>Advanced Materials Interfaces</i> , 0, , 2201719.	1.9	0
528	PI3K Isoform-Specific Regulation of Leader and Follower Cell Function for Collective Migration and Proliferation in Response to Injury. <i>Cells</i> , 2022, 11, 3515.	1.8	1
530	Apicobasal Surfaceome Architecture Encodes for Polarized Epithelial Functionality and Depends on Tumor Suppressor PTEN. <i>International Journal of Molecular Sciences</i> , 2022, 23, 16193.	1.8	1
532	The metastatic capacity of high-grade serous ovarian cancer cells changes along disease progression: inhibition by mifepristone. <i>Cancer Cell International</i> , 2022, 22, .	1.8	4
533	The interface stiffness and topographic feature dictate interfacial invasiveness of cancer spheroids. <i>Biofabrication</i> , 2023, 15, 015023.	3.7	5
534	A Cdh3- β -catenin-laminin signaling axis in a subset of breast tumor leader cells control leader cell polarization and directional collective migration. <i>Developmental Cell</i> , 2023, 58, 34-50.e9.	3.1	6
535	Bioelectronic microfluidic wound healing: a platform for investigating direct current stimulation of injured cell collectives. <i>Lab on A Chip</i> , 2023, 23, 1531-1546.	3.1	10
536	Visualization of Exosome Release and Uptake During Cell Migration Using the Live Imaging Reporter pHluorin_M153R-CD63. <i>Methods in Molecular Biology</i> , 2023, , 83-96.	0.4	2
537	ACKR3 promotes CXCL12/CXCR4-mediated cell-to-cell-induced lymphoma migration through LTB4 production. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	4
538	Analysis of mRNA Subcellular Distribution in Collective Cell Migration. <i>Methods in Molecular Biology</i> , 2023, , 389-407.	0.4	0
539	The Vast Utility of Drosophila Oogenesis. <i>Methods in Molecular Biology</i> , 2023, , 1-36.	0.4	5
540	Optimized Fixation and Phalloidin Staining of Basally Localized F-Actin Networks in Collectively Migrating Follicle Cells. <i>Methods in Molecular Biology</i> , 2023, , 179-191.	0.4	2
541	Purse-string contraction guides mechanical gradient-dictated heterogeneous migration of epithelial monolayer. <i>Acta Biomaterialia</i> , 2023, , .	4.1	1
542	An adaptive and versatile method to quantitate and characterize collective cell migration behaviors on complex surfaces. <i>Frontiers in Cell and Developmental Biology</i> , 0, 11, .	1.8	1

#	ARTICLE	IF	CITATIONS
543	Tracking unlabeled cancer cells imaged with low resolution in wide migration chambers via U-NET class-1 probability (pseudofluorescence). <i>Journal of Biological Engineering</i> , 2023, 17, .	2.0	0
544	Mechanobiology of Collective Cell Migration in 3D Microenvironments. <i>Current Cancer Research</i> , 2023, , 1-32.	0.2	0
545	Biophysical and Biochemical Mechanisms Underlying Collective Cell Migration in Cancer Metastasis. <i>Current Cancer Research</i> , 2023, , 77-112.	0.2	0
546	Positive, negative and controlled durotaxis. <i>Soft Matter</i> , 2023, 19, 2993-3001.	1.2	4
548	miR-183-5p overexpression orchestrates collective invasion in salivary adenoid cystic carcinoma through the FAT1/YAP1 signaling pathway. <i>Biochemical and Biophysical Research Communications</i> , 2023, 655, 127-137.	1.0	1
549	Peptide modulators of cell migration: Overview, applications and future development. <i>Drug Discovery Today</i> , 2023, 28, 103554.	3.2	2
550	Joint representation: Modeling a phenomenon with multiple biological systems. <i>Studies in History and Philosophy of Science Part A</i> , 2023, 99, 67-76.	0.6	0
551	Sodium Alginate/carboxymethyl chitosan-CuO hydrogel beads as a pH-sensitive carrier for the controlled release of curcumin. <i>European Polymer Journal</i> , 2023, 192, 112069.	2.6	16
552	Junctional integrity and directional mobility of lymphatic endothelial cell monolayers are disrupted by saturated fatty acids. <i>Molecular Biology of the Cell</i> , 2023, 34, .	0.9	1
554	A novel integrated experimental and computational approach to unravel fibroblast motility in response to chemical gradients in 3D collagen matrices. <i>Integrative Biology (United Kingdom)</i> , 2022, 14, 212-227.	0.6	0
555	MXene-modified 3D printed scaffold for photothermal therapy and facilitation of oral mucosal wound reconstruction. <i>Materials and Design</i> , 2023, 227, 111731.	3.3	3
556	Engine shutdown: migrastatic strategies and prevention of metastases. <i>Trends in Cancer</i> , 2023, 9, 293-308.	3.8	9
557	Investigating the structures and mechanics of single animal cells by atomic force microscopy. , 2023, , 219-267.		1
558	Reconfigurable scaffolds for adaptive tissue regeneration. <i>Nanoscale</i> , 2023, 15, 6105-6120.	2.8	3
559	PIP2 Alteration Caused by Elastic Modulus and Tropism of Electrospun Scaffolds Facilitates Altered BMSCs Proliferation and Differentiation. <i>Advanced Materials</i> , 2023, 35, .	11.1	3
561	ARF3 weights the balance for prostate cancer metastasis. <i>Journal of Cell Biology</i> , 2023, 222, .	2.3	0
562	Distinct inter-domain interactions of dimeric versus monomeric β -catenin link cell junctions to filaments. <i>Communications Biology</i> , 2023, 6, .	2.0	1
563	Underlying mechanisms that ensure actomyosin-mediated directional remodeling of cell-cell contacts for multicellular movement. <i>BioEssays</i> , 2023, 45, .	1.2	0

#	ARTICLE	IF	CITATIONS
564	Novel regulatory mechanisms underlying angiogenesis during wound healing revealed by fluorescence-based live-imaging in zebrafish. <i>Journal of Biochemistry</i> , 2023, 174, 5-12.	0.9	2
565	Influence of Scaffold Microarchitecture on Angiogenesis and Regulation of Cell Differentiation during the Early Phase of Bone Healing: A Transcriptomics and Histological Analysis. <i>International Journal of Molecular Sciences</i> , 2023, 24, 6000.	1.8	3
566	Active Transport in Complex Environments. , 2023, , 151-218.		2
567	Amniotic Membrane Restores Chronic Wound Features to Normal in a Keratinocyte TGF- β 2-Chronified Cell Model. <i>International Journal of Molecular Sciences</i> , 2023, 24, 6210.	1.8	3
568	Rac1: A Regulator of Cell Migration and a Potential Target for Cancer Therapy. <i>Molecules</i> , 2023, 28, 2976.	1.7	11
570	Tissue interplay during morphogenesis. <i>Seminars in Cell and Developmental Biology</i> , 2023, 147, 12-23.	2.3	2
571	Who's really in charge: Diverse follower cell behaviors in collective cell migration. <i>Current Opinion in Cell Biology</i> , 2023, 81, 102160.	2.6	6
572	Inertia changes evolution of motility-induced phase separation in active matter across particle activity. <i>Physical Review E</i> , 2023, 107, .	0.8	1
573	Tubulin Post-Translational Modifications: The Elusive Roles of Acetylation. <i>Biology</i> , 2023, 12, 561.	1.3	6
574	Collective Cellular Phase Transitions in Cancer. <i>Current Cancer Research</i> , 2023, , 33-75.	0.2	0
575	Septin11 promotes hepatocellular carcinoma cell motility by activating RhoA to regulate cytoskeleton and cell adhesion. <i>Cell Death and Disease</i> , 2023, 14, .	2.7	3
576	Superficial groove structure in the size of focal adhesion can clarify cell-type-specific differences in force-dependent substrate mechanosensing. <i>Journal of Biomechanical Science and Engineering</i> , 2023, 18, 22-00474-22-00474.	0.1	0
580	Live Cell Adhesion, Migration, and Invasion Assays. <i>Methods in Molecular Biology</i> , 2023, , 313-329.	0.4	1
590	Cooperative Migration of Mesenchymal Cells. , 2023, , 193-203.		0
602	Mechanical factors driving cancer progression. <i>Advances in Cancer Research</i> , 2023, , .	1.9	0
629	Cancer Metastasis, ROS/Redox Signaling, and PCD Resistance/Redox Metabolism. , 2023, , 173-206.		0
630	ERR β : unraveling its role as a key player in cell migration. <i>Oncogene</i> , 2024, 43, 379-387.	2.6	0
642	Emerging roles of deubiquitinating enzymes in actin cytoskeleton and tumor metastasis. <i>Cellular Oncology (Dordrecht)</i> , 0, , .	2.1	0

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