

# Frederick Grinnell

## List of Publications by Year in descending order

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97  
papers

10,156  
citations

44069

48  
h-index

45317

90  
g-index

103  
all docs

103  
docs citations

103  
times ranked

6976  
citing authors

#	ARTICLE	IF	CITATIONS
1	High school science fair: Ethnicity trends in student participation and experience. PLoS ONE, 2022, 17, e0264861.	2.5	5
2	High school science fair: Experiences of two groups of undergraduate bioscience students. PLoS ONE, 2021, 16, e0252627.	2.5	6
3	High school science fair: Positive and negative outcomes. PLoS ONE, 2020, 15, e0229237.	2.5	14
4	Biomedical ethics 2.0: redefining the meaning of disease, patient and treatment. Nature Reviews Molecular Cell Biology, 2020, 21, 417-418.	37.0	2
5	High school science fair: Student opinions regarding whether participation should be required or optional and why. PLoS ONE, 2018, 13, e0202320.	2.5	17
6	Confidence of IRB/REC Members in Their Assessments of Human Research Risk: A Study of IRB/REC Decision Making in Action. Journal of Empirical Research on Human Research Ethics, 2017, 12, 140-149.	1.3	10
7	Effects of dynamic matrix remodelling on <i>in vitro</i> migration of fibroblasts on collagen matrices. Journal of the Royal Society Interface, 2017, 14, 20170287.	3.4	20
8	Vascular disease-causing mutation, smooth muscle $\beta$ -actin R258C, dominantly suppresses functions of $\beta$ -actin in human patient fibroblasts. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5569-E5578.	7.1	10
9	High school science fair and research integrity. PLoS ONE, 2017, 12, e0174252.	2.5	15
10	Harry Collins, Are We All Scientific Experts Now? Cambridge: Polity Press, 2014. Pp. vi + 144. ISBN 978-0-7456-8204-4. £9.99 (paperback).. British Journal for the History of Science, 2015, 48, 540-541.	0.7	0
11	Preservation of tissue microstructure and functionality during freezing by modulation of cytoskeletal structure. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 45, 32-44.	3.1	14
12	PDGF $\alpha$ -stimulated dispersal of cell clusters and disruption of fibronectin matrix on three-dimensional collagen matrices requires matrix metalloproteinase-2. Molecular Biology of the Cell, 2015, 26, 1098-1105.	2.1	4
13	The Interrelationship between Research Integrity, Conflict of Interest, and the Research Environment. Journal of Microbiology and Biology Education, 2014, 15, 162-164.	1.0	3
14	Introductory Comments for the Scientific Ethics Theme. Journal of Microbiology and Biology Education, 2014, 15, 82-82.	1.0	1
15	The different roles of myosin IIA and myosin IIB in contraction of 3D collagen matrices by human fibroblasts. Experimental Cell Research, 2014, 326, 295-306.	2.6	13
16	Research Integrity and Everyday Practice of Science. Science and Engineering Ethics, 2013, 19, 685-701.	2.9	20
17	Fibroblast morphogenesis on 3D collagen matrices: The balance between cell clustering and cell migration. Experimental Cell Research, 2013, 319, 2440-2446.	2.6	35
18	The effect of growth factor environment on fibroblast morphological response to substrate stiffness. Biomaterials, 2013, 34, 965-974.	11.4	31

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19	Fibroblast cluster formation on 3D collagen matrices requires cell contraction dependent fibronectin matrix organization. <i>Experimental Cell Research</i> , 2013, 319, 546-555.	2.6	29
20	Activation of MRTF-A-dependent gene expression with a small molecule promotes myofibroblast differentiation and wound healing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16850-16855.	7.1	119
21	It is time to update US biomedical funding. <i>Nature</i> , 2013, 501, 137-137.	27.8	2
22	Effects of Freezing-Induced Cell-Fluid-Matrix Interactions on Cells and Extracellular Matrix of Engineered Tissues. , 2011, , .		0
23	Effects of freezing-induced cell-fluid matrix interactions on the cells and extracellular matrix of engineered tissues. <i>Biomaterials</i> , 2011, 32, 5380-5390.	11.4	37
24	Promigratory and procontractile growth factor environments differentially regulate cell morphogenesis. <i>Experimental Cell Research</i> , 2010, 316, 232-244.	2.6	28
25	The differential regulation of cell motile activity through matrix stiffness and porosity in three dimensional collagen matrices. <i>Biomaterials</i> , 2010, 31, 6425-6435.	11.4	198
26	Cell Motility and Mechanics in Three-Dimensional Collagen Matrices. <i>Annual Review of Cell and Developmental Biology</i> , 2010, 26, 335-361.	9.4	298
27	Discovery in the lab: Plato's paradox and Delbruck's principle of limited sloppiness. <i>FASEB Journal</i> , 2009, 23, 7-9.	0.5	11
28	Oncogenic Ras-transformed human fibroblasts exhibit differential changes in contraction and migration in 3D collagen matrices. <i>Experimental Cell Research</i> , 2008, 314, 3081-3091.	2.6	21
29	Fibroblast mechanics in three-dimensional collagen matrices. <i>Journal of Bodywork and Movement Therapies</i> , 2008, 12, 191-193.	1.2	52
30	Distinguishing fibroblast promigratory and procontractile growth factor environments in 3D collagen matrices. <i>FASEB Journal</i> , 2008, 22, 2151-2160.	0.5	53
31	Collagen Fibril Flow and Tissue Translocation Coupled to Fibroblast Migration in 3D Collagen Matrices. <i>Molecular Biology of the Cell</i> , 2008, 19, 2051-2058.	2.1	75
32	Microtubule function in fibroblast spreading is modulated according to the tension state of cell-matrix interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5425-5430.	7.1	142
33	Fibroblast mechanics in 3D collagen matrices†. <i>Advanced Drug Delivery Reviews</i> , 2007, 59, 1299-1305.	13.7	161
34	P21-activated kinase 1: convergence point in PDGF- and LPA-stimulated collagen matrix contraction by human fibroblasts. <i>Journal of Cell Biology</i> , 2006, 172, 423-432.	5.2	65
35	Intelligent design: fallacy recapitulates ontogeny. <i>FASEB Journal</i> , 2006, 20, 410-411.	0.5	0
36	Nested collagen matrices: A new model to study migration of human fibroblast populations in three dimensions. <i>Experimental Cell Research</i> , 2005, 312, 86-94.	2.6	87

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37	Cellâ€™Matrix Entanglement and Mechanical Anchorage of Fibroblasts in Three-dimensional Collagen Matrices. <i>Molecular Biology of the Cell</i> , 2005, 16, 5070-5076.	2.1	84
38	Subject Vulnerability: The Precautionary Principle of Human Research. <i>American Journal of Bioethics</i> , 2004, 4, 72-74.	0.9	11
39	Human Embryo Research: From Moral Uncertainty to Death. <i>American Journal of Bioethics</i> , 2004, 4, 12-13.	0.9	7
40	Fibroblast biology in three-dimensional collagen matrices. <i>Trends in Cell Biology</i> , 2003, 13, 264-269.	7.9	730
41	LPA-stimulated fibroblast contraction of floating collagen matrices does not require Rho kinase activity or retraction of fibroblast extensions. <i>Experimental Cell Research</i> , 2003, 289, 86-94.	2.6	27
42	Fibroblast Quiescence in Floating Collagen Matrices. <i>Journal of Biological Chemistry</i> , 2003, 278, 20612-20617.	3.4	41
43	Different Molecular Motors Mediate Platelet-derived Growth Factor and Lysophosphatidic Acid-stimulated Floating Collagen Matrix Contraction. <i>Journal of Biological Chemistry</i> , 2003, 278, 47707-47712.	3.4	47
44	Dendritic Fibroblasts in Three-dimensional Collagen Matrices. <i>Molecular Biology of the Cell</i> , 2003, 14, 384-395.	2.1	183
45	Defining embryo death would permit important research. <i>Chronicle of Higher Education</i> , 2003, 49, B13.	0.3	3
46	Modulation of Fibroblast Morphology and Adhesion during Collagen Matrix Remodeling. <i>Molecular Biology of the Cell</i> , 2002, 13, 3915-3929.	2.1	213
47	Transforming Growth Factor $\beta$ 2 Stimulates Fibroblastâ€™Collagen Matrix Contraction by Different Mechanisms in Mechanically Loaded and Unloaded Matrices. <i>Experimental Cell Research</i> , 2002, 273, 248-255.	2.6	101
48	Bioethical Pluralism and Complementarity. <i>Perspectives in Biology and Medicine</i> , 2002, 45, 338-349.	0.5	8
49	Fibroblast Quiescence in Floating or Released Collagen Matrices. <i>Journal of Biological Chemistry</i> , 2001, 276, 31047-31052.	3.4	83
50	Fibroblastâ€™collagen-matrix contraction: growth-factor signalling and mechanical loading. <i>Trends in Cell Biology</i> , 2000, 10, 362-365.	7.9	385
51	Philosophy of Biology and the Human Genome Project. <i>Biology and Philosophy</i> , 2000, 15, 595-601.	1.4	2
52	Fibroblast Quiescence and the Disruption of ERK Signaling in Mechanically Unloaded Collagen Matrices. <i>Journal of Biological Chemistry</i> , 2000, 275, 3088-3092.	3.4	79
53	Activation of ERK and p38 MAP Kinases in Human Fibroblasts during Collagen Matrix Contraction. <i>Experimental Cell Research</i> , 2000, 257, 190-197.	2.6	45
54	Differences in the Regulation of Fibroblast Contraction of Floating Versus Stressed Collagen Matrices. <i>Journal of Biological Chemistry</i> , 1999, 274, 918-923.	3.4	164

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55	Increased Myosin Light Chain Phosphorylation Is Not Required for Growth Factor Stimulation of Collagen Matrix Contraction. <i>Journal of Biological Chemistry</i> , 1999, 274, 30163-30168.	3.4	27
56	Are scientific papers examples of rhetoric?. <i>Science and Engineering Ethics</i> , 1999, 5, 487-488.	2.9	0
57	Release of Mechanical Tension Triggers Apoptosis of Human Fibroblasts in a Model of Regressing Granulation Tissue. <i>Experimental Cell Research</i> , 1999, 248, 608-619.	2.6	267
58	Collagenase-1 Complexes with $\hat{I}\pm 2$ -Macroglobulin in the Acute and Chronic Wound Environments. <i>Journal of Investigative Dermatology</i> , 1998, 110, 771-776.	0.7	35
59	Increased c- <i>fos</i> mRNA Expression By Human Fibroblasts Contracting Stressed Collagen Matrices. <i>Molecular and Cellular Biology</i> , 1998, 18, 2659-2667.	2.3	43
60	Studies on the biocompatibility of materials: Fibroblast reorganization of substratum-bound fibronectin on surfaces varying in wettability. , 1996, 30, 385-391.		326
61	Publishing science responsibly. <i>Biology and Philosophy</i> , 1996, 11, 121-125.	1.4	0
62	Fibronectin Degradation in Chronic Wounds Depends on the Relative Levels of Elastase, $\hat{I}\pm 1$ -Proteinase Inhibitor, and $\hat{I}\pm 2$ -Macroglobulin. <i>Journal of Investigative Dermatology</i> , 1996, 106, 335-341.	0.7	189
63	<i>Response</i> : Misconduct: Judgment Called For. <i>Science</i> , 1996, 272, 937-937.	12.6	0
64	<i>Response</i> : Misconduct: Judgment Called For. <i>Science</i> , 1996, 272, 937-937.	12.6	0
65	Fibronectin Receptor Internalization and AP-2 Complex Reorganization in Potassium-Depleted Fibroblasts. <i>Experimental Cell Research</i> , 1995, 216, 299-309.	2.6	40
66	Metalloproteinase Activation Cascade After Burn Injury: A Longitudinal Analysis of the Human Wound Environment. <i>Journal of Investigative Dermatology</i> , 1994, 103, 660-664.	0.7	95
67	Identification of Neutrophil Elastase as the Proteinase in Burn Wound Fluid Responsible for Degradation of Fibronectin. <i>Journal of Investigative Dermatology</i> , 1994, 103, 155-161.	0.7	98
68	Wound Fluid from Chronic Leg Ulcers Contains Elevated Levels of Metalloproteinases MMP-2 and MMP-9. <i>Journal of Investigative Dermatology</i> , 1993, 101, 64-68.	0.7	635
69	Degradation of Fibronectin and Vitronectin and Vitronectin in Chronic Wound Fluid: Analysis by Cell Blotting, Immunoblotting, and Cell Adhesion Assays. <i>Journal of Investigative Dermatology</i> , 1992, 98, 410-416.	0.7	214
70	Stress relaxation of contracted collagen gels: Disruption of actin filament bundles, release of cell surface fibronectin, and down-regulation of DNA and protein synthesis. <i>Experimental Cell Research</i> , 1991, 193, 198-207.	2.6	213
71	Spatial organization of extracellular matrix and fibroblast activity: Effects of serum, transforming growth factor $\hat{I}^2$ , and fibronectin. <i>Experimental Cell Research</i> , 1990, 190, 276-282.	2.6	58
72	Long-Term Culture of Fibroblasts in Contracted Collagen Gels: Effects on Cell Growth and Biosynthetic Activity. <i>Journal of Investigative Dermatology</i> , 1989, 93, 792-798.	0.7	123

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73	Collagen processing, crosslinking, and fibril bundle assembly in matrix produced by fibroblasts in long-term cultures supplemented with ascorbic acid. <i>Experimental Cell Research</i> , 1989, 181, 483-491.	2.6	113
74	Extracellular matrix organization modulates fibroblast growth and growth factor responsiveness. <i>Experimental Cell Research</i> , 1989, 182, 572-582.	2.6	204
75	Fibronectin Adsorption on Material Surfaces. <i>Annals of the New York Academy of Sciences</i> , 1987, 516, 280-290.	3.8	61
76	Activation of Human Keratinocyte Fibronectin Receptor Function in Relation to Other Ligand-Receptor Interactions. <i>Journal of Investigative Dermatology</i> , 1987, 88, 412-417.	0.7	41
77	Contraction of Hydrated Collagen Gels by Fibroblasts: Evidence for Two Mechanisms by which Collagen Fibrils are Stabilized. <i>Collagen and Related Research</i> , 1987, 6, 515-529.	2.0	136
78	Interaction of fibronectin-coated beads with attached and spread fibroblasts. <i>Experimental Cell Research</i> , 1986, 162, 449-461.	2.6	62
79	Activation of Rabbit Keratinocyte Fibronectin Receptor Function In Vivo During Wound Healing. <i>Journal of Investigative Dermatology</i> , 1986, 86, 585-590.	0.7	65
80	Morphological appearance of epidermal cells cultured on fibroblast-reorganized collagen gels. <i>Cell and Tissue Research</i> , 1986, 246, 13-21.	2.9	34
81	Fibronectin-Mediated Keratinocyte Migration and Initiation of Fibronectin Receptor Function In Vitro. <i>Journal of Investigative Dermatology</i> , 1985, 85, 304-308.	0.7	85
82	Fibronectin and wound healing. <i>Journal of Cellular Biochemistry</i> , 1984, 26, 107-116.	2.6	355
83	Fibroblast spreading and phagocytosis: Similar cell responses to different-sized substrata. <i>Journal of Cellular Physiology</i> , 1984, 119, 58-64.	4.1	41
84	Calcium ions protect cell-substratum adhesion receptors against proteolysis. <i>Experimental Cell Research</i> , 1984, 152, 467-475.	2.6	64
85	Deposition of fibronectin on material surfaces exposed to plasma: Quantitative and biological studies. <i>Journal of Cellular Physiology</i> , 1983, 116, 289-296.	4.1	57
86	Fibronectin and wound healing. <i>American Journal of Dermatopathology</i> , 1982, 4, 185-188.	0.6	43
87	Adsorption characteristics of plasma fibronectin in relationship to biological activity. <i>Journal of Biomedical Materials Research Part B</i> , 1981, 15, 363-381.	3.1	316
88	Distribution of Fibronectin During Wound Healing in Vivo. <i>Journal of Investigative Dermatology</i> , 1981, 76, 181-189.	0.7	412
89	Fibroblast adhesion to fibrinogen and fibrin substrata: Requirement for cold-insoluble globulin (plasma fibronectin). <i>Cell</i> , 1980, 19, 517-525.	28.9	362
90	Disappearance of Anionic Sites from the Surface of the Rat Endometrial Epithelium at the Time of Blastocyst Implantation. <i>Biology of Reproduction</i> , 1979, 21, 691-707.	2.7	75

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91	Initial adhesion of human fibroblasts in serum-free medium: Possible role of secreted fibronectin. <i>Cell</i> , 1979, 17, 117-129.	28.9	292
92	Induction of cell spreading by substratum-adsorbed ligands directed against the cell surface. <i>Experimental Cell Research</i> , 1978, 116, 275-284.	2.6	74
93	Cellular Adhesiveness and Extracellular Substrata. <i>International Review of Cytology</i> , 1978, 53, 65-144.	6.2	778
94	Studies on the mechanism of cell attachment to a substratum: Evidence for three biochemically distinct processes. <i>Archives of Biochemistry and Biophysics</i> , 1974, 160, 304-310.	3.0	41
95	Attachment of normal and transformed hamster kidney cells to substrata varying in chemical composition. <i>Biochemical Medicine</i> , 1973, 7, 87-90.	0.5	52
96	Studies on cell adhesion. <i>Archives of Biochemistry and Biophysics</i> , 1972, 153, 193-198.	3.0	103
97	Inhibition of cellular adhesiveness by sulfhydryl blocking agents. <i>Journal of Cellular Physiology</i> , 1971, 78, 153-157.	4.1	46