## Frederick Grinnell

## List of Publications by Year

 in descending orderSource: https:|/exaly.com/author-pdf/161263/publications.pdf
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1 Cellular Adhesiveness and Extracellular Substrata. International Review of Cytology, 1978, 53, 65-144.

2 Fibroblast biology in three-dimensional collagen matrices. Trends in Cell Biology, 2003, 13, 264-269.
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3 Wound Fluid from Chronic Leg Ulcers Contains Elevated Levels of Metalloproteinases MMP-2 and MMP-9. Journal of Investigative Dermatology, 1993, 101, 64-68.

Distribution of Fibronectin During Wound Healing in Vivo. Journal of Investigative Dermatology, 1981, 76, 181-189.

Fibroblastâ $€^{\prime \prime}$ collagen-matrix contraction: growth-factor signalling and mechanical loading. Trends in
Cell Biology, 2000, 10, 362-365.
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Fibroblast adhesion to fibrinogen and fibrin substrata: Requirement for cold-insoluble globulin
(plasma fibronectin). Cell, 1980, 19, 517-525.
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$7 \quad$ Fibronectin and wound healing. Journal of Cellular Biochemistry, 1984, 26, 107-116. 2.635

Studies on the biocompatibility of materials: Fibroblast reorganization of substratum-bound fibronectin on surfaces varying in wettability. , 1996, 30, 385-391.

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9 Adsorption characteristics of plasma fibronectin in relationship to biological activity. Journal of
$9 \quad$ Biomedical Materials Research Part B, 1981, 15, 363-381.

10 Cell Motility and Mechanics in Three-Dimensional Collagen Matrices. Annual Review of Cell and
Developmental Biology, 2010, 26, 335-361.
Initial adhesion of human fibroblasts in serum-free medium: Possible role of secreted fibronectin.
Cell, 1979, 17, 117-129.
Release of Mechanical Tension Triggers Apoptosis of Human Fibroblasts in a Model of Regressing
12 Granulation Tissue. Experimental Cell Research, 1999, 248, 608-619.
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Degradation of Fibronectin and Vitronectin and Vitronectin in Chronic Wound Fluid: Analysis by Cell
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Stress relaxation of contracted collagen gels: Disruption of actin filament bundles, release of cell
14 surface fibronectin, and down-regulation of DNA and protein synthesis. Experimental Cell Research 1991, 193, 198-207.

Modulation of Fibroblast Morphology and Adhesion during Collagen Matrix Remodeling. Molecular
Biology of the Cell, 2002, 13, 3915-3929.
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Extracellular matrix organization modulates fibroblast growth and growth factor responsiveness.
Experimental Cell Research, 1989, 182, 572-582.
19 Dendritic Fibroblasts in Three-dimensional Collagen Matrices. Molecular Biology of the Cell, 2003, 14,
$384-395$.

21 Fibroblast mechanics in 3D collagen matricesâَ†. Advanced Drug Delivery Reviews, 2007, $59,1$| Microtubule function in fibroblast spreading is modulated according to the tension state of |
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| cell-matrix interactions. Proceedings of the National Academy of Sciences of the United States |America, 2007, 104, 5425-5430.

| Contraction of Hydrated Collagen Gels by Fibroblasts: Evidence for Two Mechanisms by which | 2.0 |
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24 Long-Term Culture of Fibroblasts in Contracted Collagen Gels: Effects on Cell Growth and
Biosynthetic Activity. Journal of Investigative Dermatology, 1989, 93, 792-798.

Collagen processing, crosslinking, and fibril bundle assembly in matrix produced by fibroblasts in
long-term cultures supplemented with ascorbic acid. Experimental Cell Research, 1989, 181, 483-491.
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27 Studies on cell adhesion. Archives of Biochemistry and Biophysics, 1972, 153, 193-198.
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30 Metalloproteinase Activation Cascade After Burn Injury: A Longitudinal Analysis of the Human Wound
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Environment. Journal of Investigative Dermatology, 1994, 103, 660-664.

Nested collagen matrices: A new model to study migration of human fibroblast populations in three
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dimensions. Experimental Cell Research, 2005, 312, 86-94.

Fibronectin-Mediated Keratinocyte Migration and Initiation of Fibronectin Receptor Function In Vitro. Journal of Investigative Dermatology, 1985, 85, 304-308.

Induction of cell spreading by substratum-adsorbed ligands directed against the cell surface.

| 41 | Calcium ions protect cell-substratum adhesion receptors against proteolysis. Experimental Cell Research, 1984, 152, 467-475. | 2.6 | 64 |
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| 42 | Interaction of fibronectin-coated beads with attached and spread fibroblasts. Experimental Cell Research, 1986, 162, 449-461. | 2.6 | 62 |
| 43 | Fibronectin Adsorption on Material Surfaces. Annals of the New York Academy of Sciences, 1987, 516, 280-290. | 3.8 | 61 |
| 44 | Spatial organization of extracellular matrix and fibroblast activity: Effects of serum, transforming growth factor $\hat{I}^{2}$, and fibronectin. Experimental Cell Research, 1990, 190, 276-282. | 2.6 | 58 |
| 45 | Deposition of fibronectin on material surfaces exposed to plasma: Quantitative and biological studies. Journal of Cellular Physiology, 1983, 116, 289-296. | 4.1 | 57 |
| 46 | Distinguishing fibroblast promigratory and procontractile growth factor environments in 3 â $\in D$ collagen matrices. FASEB Journal, 2008, 22, 2151-2160. | 0.5 | 53 |
| 47 | Attachment of normal and transformed hamster kidney cells to substrata varying in chemical composition. Biochemical Medicine, 1973, 7, 87-90. | 0.5 | 52 |
| 48 | Fibroblast mechanics in three-dimensional collagen matrices. Journal of Bodywork and Movement Therapies, 2008, 12, 191-193. | 1.2 | 52 |
| 49 | Different Molecular Motors Mediate Platelet-derived Growth Factor and Lysophosphatidic Acid-stimulated Floating Collagen Matrix Contraction. Journal of Biological Chemistry, 2003, 278, 47707-47712. | 3.4 | 47 |

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Fibroblast spreading and phagocytosis: Similar cell responses to different-sized substrata. Journal of
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61 Fibroblast morphogenesis on 3D collagen matrices: The balance between cell clustering and cell migration. Experimental Cell Research, 2013, 319, 2440-2446.

Oncogenic Ras-transformed human fibroblasts exhibit differential changes in contraction and
$73 \begin{aligned} & \text { Preservation of tissue microstructure and functionality during freezing by modulation of } \\ & \text { cytoskeletal structure. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 45, 32-44. }\end{aligned}$

High school science fair: Positive and negative outcomes. PLoS ONE, 2020, 15, e0229237.
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75 The different roles of myosin IIA and myosin IIB in contraction of 3D collagen matrices by human
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Subject Vulnerability: The Precautionary Principle of Human Research. American Journal of Bioethics, 2004, 4, 72-74.
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## 77 Discovery in the lab: Plato's paradox and Delbruck's principle of limited sloppiness. FASEB Journal, <br> 2009, 23, 7-9.

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.
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Vascular disease-causing mutation, smooth muscle $\hat{I}_{ \pm}$-actin R258C, dominantly suppresses functions of
$79 \hat{I}_{ \pm}$-actin in human patient fibroblasts. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5569-E5578.

80 Bioethical Pluralism and Complementarity. Perspectives in Biology and Medicine, 2002, 45, 338-349.

Human Embryo Research: From Moral Uncertainty to Death. American Journal of Bioethics, 2004, 4,
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High school science fair: Experiences of two groups of undergraduate bioscience students. PLoS ONE, 2021, 16, e0252627.

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84 collagen matrices requires matrix metalloproteinase-2. Molecular Biology of the Cell, 2015, 26,
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85 The Interrelationship between Research Integrity, Conflict of Interest, and the Research Environment. Journal of Microbiology and Biology Education, 2014, 15, 162-164.

86 Defining embryo death would permit important research. Chronicle of Higher Education, 2003, 49, B13.
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