

Jeffrey R Morgan

List of Publications by Year in descending order

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112
papers

5,652
citations

66315

42
h-index

82499

72
g-index

115
all docs

115
docs citations

115
times ranked

6869
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Quantifying Cell-Derived Changes in Collagen Synthesis, Alignment, and Mechanics in a 3D Connective Tissue Model. <i>Advanced Science</i> , 2022, 9, e2103939. | 5.6 | 4 |
| 2 | 3D Microtissues Mimic the Architecture, Estradiol Synthesis, and Gap Junction Intercellular Communication of the Avascular Granulosa. <i>Toxicological Sciences</i> , 2022, 186, 29-42. | 1.4 | 6 |
| 3 | Toward Automated Additive Manufacturing of Living Bio-Tubes Using Ring-Shaped Building Units. <i>SLAS Technology</i> , 2020, 25, 608-620. | 1.0 | 3 |
| 4 | 3D Confocal Fluorescence Microscopy Analysis of Skeletal Muscle Myogenesis in Self Assembled 3D Microtissues. <i>Microscopy and Microanalysis</i> , 2019, 25, 1256-1257. | 0.2 | 0 |
| 5 | Cell Mimicking Microparticles Influence the Organization, Growth, and Mechanophenotype of Stem Cell Spheroids. <i>Annals of Biomedical Engineering</i> , 2018, 46, 1146-1159. | 1.3 | 14 |
| 6 | Quantitative Live-Cell Confocal Imaging of 3D Spheroids in a High-Throughput Format. <i>SLAS Technology</i> , 2018, 23, 231-242. | 1.0 | 29 |
| 7 | Directing fibroblast self-assembly to fabricate highly-aligned, collagen-rich matrices. <i>Acta Biomaterialia</i> , 2018, 81, 70-79. | 4.1 | 20 |
| 8 | Hydrodynamics of the Bio-Gripper: A Fluid-Driven "Claw Machine" for Soft Microtissue Translocation. <i>SLAS Technology</i> , 2018, 23, 540-549. | 1.0 | 2 |
| 9 | Perfused Organ Cell-Dense Macrotissues Assembled from Prefabricated Living Microtissues. <i>Advanced Biology</i> , 2018, 2, 1800076. | 3.0 | 9 |
| 10 | Funnel-Guided Positioning of Multicellular Microtissues to Build Macrotissues. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 557-565. | 1.1 | 8 |
| 11 | The bio-gripper: a fluid-driven micro-manipulator of living tissue constructs for additive bio-manufacturing. <i>Biofabrication</i> , 2016, 8, 025015. | 3.7 | 19 |
| 12 | Quantifying the kinetics and morphological changes of the fusion of spheroid building blocks. <i>Biofabrication</i> , 2016, 8, 045003. | 3.7 | 39 |
| 13 | Accurate quantitative wide-field fluorescence microscopy of 3-D spheroids. <i>BioTechniques</i> , 2016, 61, 237-247. | 0.8 | 9 |
| 14 | Harnessing cellular-derived forces in self-assembled microtissues to control the synthesis and alignment of ECM. <i>Biomaterials</i> , 2016, 77, 120-129. | 5.7 | 34 |
| 15 | Into the depths: Techniques for in vitro three-dimensional microtissue visualization. <i>BioTechniques</i> , 2015, 59, 279-286. | 0.8 | 36 |
| 16 | Three-Dimensional Neural Spheroid Culture: An <i>In Vitro</i> Model for Cortical Studies. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 1274-1283. | 1.1 | 111 |
| 17 | Architecture of Chimeric Spheroids Controls Drug Transport. <i>Cancer Microenvironment</i> , 2015, 8, 101-109. | 3.1 | 13 |
| 18 | A 3D spheroid system to evaluate inhibitors of the ABCG2 transporter in drug uptake and penetration. <i>Technology</i> , 2015, 03, 54-63. | 1.4 | 5 |

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|----|---|-----|-----------|
| 19 | Bio-Pick, Place, and Perfuse: A New Instrument for Three-Dimensional Tissue Engineering. Tissue Engineering - Part C: Methods, 2015, 21, 737-746. | 1.1 | 65 |
| 20 | Micro-Mold Design Controls the 3D Morphological Evolution of Self-Assembling Multicellular Microtissues. Tissue Engineering - Part A, 2014, 20, 1134-1144. | 1.6 | 18 |
| 21 | Multilayer Spheroids To Quantify Drug Uptake and Diffusion in 3D. Molecular Pharmaceutics, 2014, 11, 2071-2081. | 2.3 | 74 |
| 22 | Control of the timing and dosage of IGF-I delivery from encapsulated cells. Journal of Tissue Engineering and Regenerative Medicine, 2013, 7, 470-478. | 1.3 | 0 |
| 23 | Necking and failure of constrained 3D microtissues induced by cellular tension. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20923-20928. | 3.3 | 46 |
| 24 | Necking and Failure of Constrained Contractile 3D Microtissues: Role of Geometry and Stiffness. , 2013, , . | | 0 |
| 25 | Formation of Multicellular Microtissues and Applications in Biofabrication. , 2013, , 149-166. | | 3 |
| 26 | Mechanotransduction is enhanced by the synergistic action of heterotypic cell interactions and TGF β 1. FASEB Journal, 2012, 26, 2522-2530. | 0.2 | 13 |
| 27 | Quantification of the Kinetics and Extent of Self-Sorting in Three Dimensional Spheroids. Tissue Engineering - Part C: Methods, 2012, 18, 302-309. | 1.1 | 21 |
| 28 | Penetration of Endothelial Cell Coated Multicellular Tumor Spheroids by Iron Oxide Nanoparticles. Theranostics, 2012, 2, 66-75. | 4.6 | 45 |
| 29 | Pannexin1 Drives Multicellular Aggregate Compaction via a Signaling Cascade That Remodels the Actin Cytoskeleton. Journal of Biological Chemistry, 2012, 287, 8407-8416. | 1.6 | 46 |
| 30 | Advances in the formation, use and understanding of multi-cellular spheroids. Expert Opinion on Biological Therapy, 2012, 12, 1347-1360. | 1.4 | 413 |
| 31 | Quantification of the forces driving self-assembly of three-dimensional microtissues. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6993-6998. | 3.3 | 78 |
| 32 | Directed self-assembly of large scaffold-free multi-cellular honeycomb structures. Biofabrication, 2011, 3, 034110. | 3.7 | 39 |
| 33 | Bioengineering Anembryonic Human Trophoblast Vesicles. Reproductive Sciences, 2011, 18, 128-135. | 1.1 | 8 |
| 34 | Designing polyHEMA substrates that mimic the viscoelastic response of soft tissue. Journal of Biomechanics, 2011, 44, 1491-1498. | 0.9 | 8 |
| 35 | Connexon-mediated cell adhesion drives microtissue self-assembly. FASEB Journal, 2011, 25, 255-264. | 0.2 | 63 |
| 36 | Rapid screening, <i>in vitro</i> study of metal oxide and polymer hybrids as delivery coatings for improved soft-tissue integration of implants. Journal of Biomedical Materials Research - Part A, 2010, 92A, 1094-1104. | 2.1 | 8 |

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|----|--|-----|-----------|
| 37 | In vitro maturation of oocytes via the pre-fabricated self-assembled artificial human ovary. <i>Journal of Assisted Reproduction and Genetics</i> , 2010, 27, 743-750. | 1.2 | 48 |
| 38 | In Remembrance: Michael J. Lysaght, 1942â€“2009. <i>Tissue Engineering - Part A</i> , 2010, 16, 767-768. | 1.6 | 1 |
| 39 | Self-Assembly and Tissue Fusion of Toroid-Shaped Minimal Building Units. <i>Tissue Engineering - Part A</i> , 2010, 16, 2051-2061. | 1.6 | 76 |
| 40 | A Localizable, Biological-based System for the Delivery of Bioactive IGF-1 Utilizing Microencapsulated Genetically Modified Human Fibroblasts. <i>ASAIO Journal</i> , 2009, 55, 259-265. | 0.9 | 5 |
| 41 | Fibroblast elongation and dendritic extensions in constrained versus unconstrained microtissues. <i>Cytoskeleton</i> , 2009, 66, 129-141. | 4.4 | 17 |
| 42 | Controlled release of vanadium from titanium oxide coatings for improved integration of soft tissue implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 90A, 272-281. | 2.1 | 21 |
| 43 | Controlling cell position in complex heterotypic 3D microtissues by tissue fusion. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1231-1241. | 1.7 | 89 |
| 44 | Encapsulated Arrays of Self-Assembled Microtissues: An Alternative to Spherical Microcapsules. <i>Tissue Engineering - Part A</i> , 2009, 15, 387-395. | 1.6 | 20 |
| 45 | Miniaturization of an Anoikis assay using non-adhesive micromolded hydrogels. <i>Cytotechnology</i> , 2008, 56, 81-90. | 0.7 | 11 |
| 46 | Auâ€“Fe ₃ O ₄ Dumbbell Nanoparticles as Dualâ€“Functional Probes. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 173-176. | 7.2 | 490 |
| 47 | Viscoelastic response of human skin to low magnitude physiologically relevant shear. <i>Journal of Biomechanics</i> , 2008, 41, 2689-2695. | 0.9 | 99 |
| 48 | Mammalian Target of Rapamycin Contributes to the Acquired Apoptotic Resistance of Human Mesothelioma Multicellular Spheroids. <i>Journal of Biological Chemistry</i> , 2008, 283, 13021-13030. | 1.6 | 130 |
| 49 | Cytoskeletal-Mediated Tension Modulates the Directed Self-Assembly of Microtissues. <i>Tissue Engineering - Part A</i> , 2008, 14, 1989-1997. | 1.6 | 53 |
| 50 | Rods, tori, and honeycombs: the directed selfâ€“assembly of microtissues with prescribed microscale geometries. <i>FASEB Journal</i> , 2007, 21, 4005-4012. | 0.2 | 148 |
| 51 | Scaffold-free three-dimensional cell culture utilizing micromolded nonadhesive hydrogels. <i>BioTechniques</i> , 2007, 43, 494-500. | 0.8 | 178 |
| 52 | Inhibition of proliferation of <i>Pseudomonas aeruginosa</i> by KGF in an experimental burn model using human cultured keratinocytes. <i>Burns</i> , 2007, 33, 613-620. | 1.1 | 12 |
| 53 | Dynamics of the Self-Assembly of Complex Cellular Aggregates on Micromolded Nonadhesive Hydrogels. <i>Tissue Engineering</i> , 2007, 13, 2087-2094. | 4.9 | 200 |
| 54 | Metal oxide coated cell culture arrays for rapid biological screening. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 853-860. | 2.1 | 5 |

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|----|--|-----|-----------|
| 55 | A TGF- β 1-Dependent Autocrine Loop Regulates the Structure of Focal Adhesions in Hypertrophic Scar Fibroblasts. <i>Journal of Investigative Dermatology</i> , 2006, 126, 963-970. | 0.3 | 33 |
| 56 | Upregulation of TGF- β 1 Expression May Be Necessary but Is Not Sufficient for Excessive Scarring. <i>Journal of Investigative Dermatology</i> , 2006, 126, 1168-1176. | 0.3 | 80 |
| 57 | Microencapsulated Cells Genetically Modified to Overexpress Human Transforming Growth Factor- β 1: Viability and Functionality in Allogeneic and Xenogeneic Implant Models. <i>Tissue Engineering</i> , 2006, 12, 1733-1739. | 4.9 | 17 |
| 58 | Microencapsulated Cells Genetically Modified to Overexpress Human Transforming Growth Factor-1: Viability and Functionality in Allogeneic and Xenogeneic Implant Models. <i>Tissue Engineering</i> , 2006, . | 4.9 | 0 |
| 59 | In vitro Characterization of TGF- β 1 Release from Genetically Modified Fibroblasts in Ca ²⁺ -Alginate Microcapsules. <i>ASAIO Journal</i> , 2005, 51, 379-384. | 0.9 | 15 |
| 60 | Sequestration and Synthesis: The Source of Insulin in Cell Clusters Differentiated from Murine Embryonic Stem Cells. <i>Stem Cells</i> , 2005, 23, 862-867. | 1.4 | 35 |
| 61 | Origin of Insulin Secreted from Islet-Like Cell Clusters Derived from Murine Embryonic Stem Cells. <i>Cloning and Stem Cells</i> , 2005, 7, 226-231. | 2.6 | 14 |
| 62 | Allogeneic versus Xenogeneic Immune Reaction to Bioengineered Skin Grafts. <i>Cell Transplantation</i> , 2004, 13, 701-712. | 1.2 | 41 |
| 63 | FGF-7 Expression Enhances the Performance of Bioengineered Skin. <i>Molecular Therapy</i> , 2004, 10, 76-85. | 3.7 | 43 |
| 64 | Charged Polymers Modulate Retrovirus Transduction via Membrane Charge Neutralization and Virus Aggregation. <i>Biophysical Journal</i> , 2004, 86, 1234-1242. | 0.2 | 132 |
| 65 | Experimental model of cultured skin graft. <i>Acta Cirurgica Brasileira</i> , 2004, 19, 4-10. | 0.3 | 5 |
| 66 | Experimental model of cultured keratinocytes. <i>Acta Cirurgica Brasileira</i> , 2003, 18, 04-14. | 0.3 | 8 |
| 67 | Quantitative Measurement of the Concentration of Active Recombinant Retrovirus. , 2002, 69, 161-172. | | 2 |
| 68 | Transient Hyperproliferation of a Transgenic Human Epidermis Expressing Hepatocyte Growth Factor. <i>Cell Transplantation</i> , 2002, 11, 385-395. | 1.2 | 26 |
| 69 | Survival of fetal skin grafts is prolonged on the human peripheral blood lymphocyte reconstituted severe combined immunodeficient mouse/skin allograft model. <i>Transplantation</i> , 2002, 73, 519-528. | 0.5 | 19 |
| 70 | Interleukin-1 α and Interleukin-6 Enhance the Antibacterial Properties of Cultured Composite Keratinocyte Grafts. <i>Annals of Surgery</i> , 2002, 235, 113-124. | 2.1 | 67 |
| 71 | Platelet-derived growth factor-AA-mediated functional angiogenesis in the rat epigastric island flap after genetic modification of fibroblasts is ischemia dependent. <i>Surgery</i> , 2002, 131, 393-400. | 1.0 | 17 |
| 72 | Cryopreservation of fetal skin is improved by extracellular trehalose. <i>Cryobiology</i> , 2002, 44, 218-228. | 0.3 | 71 |

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| 73 | Contraction of the composite skin graft and autograft. Canadian Journal of Plastic Surgery, 2002, 10, 155-157. | 0.4 | 0 |
| 74 | Polybrene increases retrovirus gene transfer efficiency by enhancing receptor-independent virus adsorption on target cell membranes. Biophysical Chemistry, 2002, 97, 159-172. | 1.5 | 161 |
| 75 | Complexation of Retrovirus with Cationic and Anionic Polymers Increases the Efficiency of Gene Transfer. Human Gene Therapy, 2001, 12, 1611-1621. | 1.4 | 67 |
| 76 | Initial experience with a composite autologous skin substitute. Burns, 2001, 27, 421-424. | 1.1 | 60 |
| 77 | Keratinocyte growth factor induces hyperproliferation and delays differentiation in a skin equivalent model system. FASEB Journal, 2001, 15, 898-906. | 0.2 | 26 |
| 78 | Genetic modification of cultured skin substitutes by transduction of human keratinocytes and fibroblasts with platelet-derived growth factor-A. Wound Repair and Regeneration, 2001, 8, 26-35. | 1.5 | 33 |
| 79 | Keratinocyte growth factor induces hyperproliferation and delays differentiation in a skin equivalent model system. FASEB Journal, 2001, 15, 898-906. | 0.2 | 131 |
| 80 | Analysis of Electrostatic Effects on the Success of Retroviral-Mediated Gene Delivery. Materials Research Society Symposia Proceedings, 2000, 662, 1. | 0.1 | 0 |
| 81 | Effects of plasma exposure on cultured hepatocytes: Implications for bioartificial liver support. , 2000, 51, 100-111. | | 32 |
| 82 | Plasmin Triggers Rapid Contraction and Degradation of Fibroblast-Populated Collagen Lattices. Journal of Investigative Dermatology, 2000, 114, 647-653. | 0.3 | 54 |
| 83 | Microfabrication of an analog of the basal lamina: biocompatible membranes with complex topographies. FASEB Journal, 2000, 14, 593-602. | 0.2 | 79 |
| 84 | Erratum in print version of "Toward a More Accurate Quantitation of the Activity of Recombinant Retroviruses: Alternatives to Titer and Multiplicity of Infection". Journal of Virology, 2000, 74, 3431-3431. | 1.5 | 55 |
| 85 | Toward a More Accurate Quantitation of the Activity of Recombinant Retroviruses: Alternatives to Titer and Multiplicity of Infection. Journal of Virology, 2000, 74, 1258-1266. | 1.5 | 51 |
| 86 | Persistent Transgene Expression and Normal Differentiation of Immortalized Human Keratinocytes In Vivo. Journal of Investigative Dermatology, 1999, 112, 233-239. | 0.3 | 14 |
| 87 | Particle-Mediated Gene Transfer of PDGF Isoforms Promotes Wound Repair. Journal of Investigative Dermatology, 1999, 112, 297-302. | 0.3 | 107 |
| 88 | Large-Scale Processing of Recombinant Retroviruses for Gene Therapy. Biotechnology Progress, 1999, 15, 1-11. | 1.3 | 93 |
| 89 | Differential Inhibition of Retrovirus Transduction by Proteoglycans and Free Glycosaminoglycans. Biotechnology Progress, 1999, 15, 397-406. | 1.3 | 30 |
| 90 | Kinetics of retrovirus production and decay. , 1999, 63, 654-662. | | 88 |

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| 91 | Regulation of the Spatial Organization of Mesenchymal Connective Tissue. American Journal of Pathology, 1999, 154, 281-289. | 1.9 | 33 |
| 92 | Kinetics of retrovirus production and decay. Biotechnology and Bioengineering, 1999, 63, 654-662. | 1.7 | 2 |
| 93 | Stabilization of Active Recombinant Retroviruses in an Amorphous Dry State with Trehalose. Biotechnology Progress, 1998, 14, 615-620. | 1.3 | 51 |
| 94 | Removal of proteoglycans increases efficiency of retroviral gene transfer. , 1998, 58, 23-34. | | 38 |
| 95 | Genetically modified fibroblasts induce angiogenesis in the rat epigastric island flap. Langenbeck's Archives of Surgery, 1998, 383, 345-350. | 0.8 | 16 |
| 96 | Characterization of a Composite Tissue Model that Supports Clonal Growth of Human Melanocytes In Vitro and In Vivo. Journal of Investigative Dermatology, 1998, 111, 810-816. | 0.3 | 11 |
| 97 | Genetically Modified Human Keratinocytes Overexpressing PDGF-A Enhance the Performance of a Composite Skin Graft. Human Gene Therapy, 1998, 9, 529-539. | 1.4 | 115 |
| 98 | Removal of the Membrane-anchoring Domain of Epidermal Growth Factor Leads to Intracrine Signaling and Disruption of Mammary Epithelial Cell Organization. Journal of Cell Biology, 1998, 143, 1317-1328. | 2.3 | 55 |
| 99 | Gene Therapy in Tissue Engineering. , 1998, , 278-310. | | 2 |
| 100 | Covalent Protein ^α Oligonucleotide Conjugates for Efficient Delivery of Antisense Molecules. Bioconjugate Chemistry, 1997, 8, 935-940. | 1.8 | 56 |
| 101 | Use of Cloned Genetically Modified Human Fibroblasts to Assess Long-Term Survival <i>In Vivo</i> . Human Gene Therapy, 1997, 8, 523-532. | 1.4 | 12 |
| 102 | Gene therapy for tissue repair: approaches and prospects. Journal of Plastic, Reconstructive and Aesthetic Surgery, 1997, 50, 491-500. | 1.1 | 39 |
| 103 | DIFFERENCES IN DERMAL ANALOGS INFLUENCE SUBSEQUENT PIGMENTATION, EPIDERMAL DIFFERENTIATION, BASEMENT MEMBRANE, AND RETE RIDGE FORMATION OF TRANSPLANTED COMPOSITE SKIN GRAFTS1. Transplantation, 1997, 64, 454-465. | 0.5 | 53 |
| 104 | Enhanced function of cultured epithelium by genetic modification: Cell-based synthesis and delivery of growth factors. , 1996, 52, 15-23. | | 13 |
| 105 | Corrective gene transfer in the human skin disorder lamellar ichthyosis. Nature Medicine, 1996, 2, 1263-1267. | 15.2 | 167 |
| 106 | Targeted Expression of Insulin-Like Growth Factor to Human Keratinocytes: Modification of the Autocrine Control of Keratinocyte Proliferation. Journal of Investigative Dermatology, 1996, 107, 113-120. | 0.3 | 59 |
| 107 | Evaluation of Human Skin Reconstituted from Composite Grafts of Cultured Keratinocytes and Human Acellular Dermis Transplanted to Athymic Mice. Journal of Investigative Dermatology, 1996, 107, 121-127. | 0.3 | 114 |
| 108 | Sustained Production of Human Transferrin by Transduced Fibroblasts Implanted into Athymic Mice: A Model for Somatic Gene Therapy. Journal of Investigative Dermatology, 1995, 104, 171-176. | 0.3 | 26 |

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| 109 | Genetically Modified Human Epidermis Overexpressing PDGF-A Directs the Development of a Cellular and Vascular Connective Tissue Stroma When Transplanted to Athymic Mice—Implications for the Use of Genetically Modified Keratinocytes to Modulate Dermal Regeneration. <i>Journal of Investigative Dermatology</i> , 1995, 105, 756-763. | 0.3 | 95 |
| 110 | Rapid Quantitation of Recombinant Retroviruses. <i>Biotechnology Progress</i> , 1994, 10, 441-446. | 1.3 | 15 |
| 111 | Advances in recombinant retroviruses for gene delivery. <i>Advanced Drug Delivery Reviews</i> , 1993, 12, 143-158. | 6.6 | 28 |
| 112 | The importance of proline on long-term hepatocyte function in a collagen gel sandwich configuration: Regulation of protein secretion. <i>Biotechnology and Bioengineering</i> , 1992, 40, 298-305. | 1.7 | 30 |