

Sherry L Voytik-Harbin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/579283/publications.pdf>

Version: 2024-02-01

49
papers

2,797
citations

331670

21
h-index

254184

43
g-index

49
all docs

49
docs citations

49
times ranked

3937
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of extractable growth factors from small intestinal submucosa. <i>Journal of Cellular Biochemistry</i> , 1997, 67, 478-491.	2.6	545
2	Tensile Mechanical Properties of Three-Dimensional Type I Collagen Extracellular Matrices With Varied Microstructure. <i>Journal of Biomechanical Engineering</i> , 2002, 124, 214-222.	1.3	541
3	Glycosaminoglycan Content of Small Intestinal Submucosa: A Bioscaffold for Tissue Replacement. <i>Tissue Engineering</i> , 1996, 2, 209-217.	4.6	287
4	Differentiation of human pluripotent stem cells to cells similar to cord-blood endothelial colony-forming cells. <i>Nature Biotechnology</i> , 2014, 32, 1151-1157.	17.5	203
5	Small Intestinal Submucosa: A Tissue-Derived Extracellular Matrix That Promotes Tissue-Specific Growth and Differentiation of Cells in Vitro. <i>Tissue Engineering</i> , 1998, 4, 157-174.	4.6	135
6	Application and evaluation of the alamarblue assay for cell growth and survival of fibroblasts. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1998, 34, 239-246.	1.5	130
7	YAP and TAZ limit cytoskeletal and focal adhesion maturation to enable persistent cell motility. <i>Journal of Cell Biology</i> , 2019, 218, 1369-1389.	5.2	115
8	Simultaneous Mechanical Loading and Confocal Reflection Microscopy for Three-Dimensional Microbiomechanical Analysis of Biomaterials and Tissue Constructs. <i>Microscopy and Microanalysis</i> , 2003, 9, 74-85.	0.4	63
9	3D collagen fibrillar microstructure guides pancreatic cancer cell phenotype and serves as a critical design parameter for phenotypic models of EMT. <i>PLoS ONE</i> , 2017, 12, e0188870.	2.5	59
10	Extracellular Matrix Properties Regulate the Migratory Response of Glioblastoma Stem Cells in Three-Dimensional Culture. <i>Tissue Engineering - Part A</i> , 2015, 21, 2572-2582.	3.1	58
11	Development of a Novel 3D Tumor-tissue Invasion Model for High-throughput, High-content Phenotypic Drug Screening. <i>Scientific Reports</i> , 2018, 8, 13039.	3.3	56
12	Chapter 27 Three-dimensional imaging of extracellular matrix and extracellular matrix-cell interactions. <i>Methods in Cell Biology</i> , 2001, 63, 583-597.	1.1	46
13	Mechanisms and Microenvironment Investigation of Cellularized High Density Gradient Collagen Matrices via Densification. <i>Advanced Functional Materials</i> , 2016, 26, 2617-2628.	14.9	40
14	Collagen-Polymer Guidance of Vessel Network Formation and Stabilization by Endothelial Colony Forming Cells In Vitro. <i>Macromolecular Bioscience</i> , 2013, 13, 1135-1149.	4.1	33
15	Injectable Highly Tunable Oligomeric Collagen Matrices for Dental Tissue Regeneration. <i>ACS Applied Bio Materials</i> , 2020, 3, 859-868.	4.6	33
16	Acellular and cellular high-density, collagen-fibril constructs with suprafibrillar organization. <i>Biomaterials Science</i> , 2016, 4, 711-723.	5.4	32
17	Presence of stromal cells in a bioengineered tumor microenvironment alters glioblastoma migration and response to STAT3 inhibition. <i>PLoS ONE</i> , 2018, 13, e0194183.	2.5	31
18	Cell encapsulation in a magnetically aligned collagen-GAG copolymer microenvironment. <i>Acta Biomaterialia</i> , 2015, 11, 274-282.	8.3	30

#	ARTICLE	IF	CITATIONS
19	In situ type I oligomeric collagen macroencapsulation promotes islet longevity and function in vitro and in vivo. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E650-E661.	3.5	30
20	Human platelet lysate improves human cord blood derived ECFC survival and vasculogenesis in three dimensional (3D) collagen matrices. <i>Microvascular Research</i> , 2015, 101, 72-81.	2.5	28
21	Notch ligand Delta-like 1 promotes in vivo vasculogenesis in human cord blood-derived endothelial colony forming cells. <i>Cytotherapy</i> , 2015, 17, 579-592.	0.7	24
22	Establishing epithelial glandular polarity: interlinked roles for ARF6, Rac1, and the matrix microenvironment. <i>Molecular Biology of the Cell</i> , 2012, 23, 4495-4505.	2.1	22
23	Angiopoietin-like protein 2 regulates endothelial colony forming cell vasculogenesis. <i>Angiogenesis</i> , 2014, 17, 675-683.	7.2	22
24	Modulation of hematopoietic progenitor cell fate in vitro by varying collagen oligomer matrix stiffness in the presence or absence of osteoblasts. <i>Journal of Immunological Methods</i> , 2015, 425, 108-113.	1.4	22
25	Dissociated and Reconstituted Cartilage Microparticles in Densified Collagen Induce Local hMSC Differentiation. <i>Advanced Functional Materials</i> , 2016, 26, 5427-5436.	14.9	22
26	Improved islet survival and in vitro function using solubilized small intestinal submucosa. <i>Cell and Tissue Banking</i> , 2001, 2, 217-224.	1.1	18
27	Identification of extractable growth factors from small intestinal submucosa. <i>Journal of Cellular Biochemistry</i> , 1997, 67, 478-491.	2.6	18
28	Three-dimensional tissue-engineered skeletal muscle for laryngeal reconstruction. <i>Laryngoscope</i> , 2018, 128, 603-609.	2.0	16
29	Oligomers Modulate Interfibril Branching and Mass Transport Properties of Collagen Matrices. <i>Microscopy and Microanalysis</i> , 2013, 19, 1323-1333.	0.4	15
30	Regenerative tissue filler for breast conserving surgery and other soft tissue restoration and reconstruction needs. <i>Scientific Reports</i> , 2021, 11, 2711.	3.3	15
31	In Vitro Multitissue Interface Model Supports Rapid Vasculogenesis and Mechanistic Study of Vascularization across Tissue Compartments. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21848-21860.	8.0	14
32	Use of autologous adipose-derived mesenchymal stem cells for creation of laryngeal cartilage. <i>Laryngoscope</i> , 2018, 128, E123-E129.	2.0	14
33	Murine ultrasound-guided transabdominal para-aortic injections of self-assembling type I collagen oligomers. <i>Journal of Controlled Release</i> , 2017, 249, 53-62.	9.9	11
34	Design and biofabrication of dermal regeneration scaffolds: role of oligomeric collagen fibril density and architecture. <i>Regenerative Medicine</i> , 2020, 15, 1295-1312.	1.7	11
35	Mechanobiological wound model for improved design and evaluation of collagen dermal replacement scaffolds. <i>Acta Biomaterialia</i> , 2021, 135, 368-382.	8.3	11
36	Motor endplate-expressing cartilage-muscle implants for reconstruction of a denervated hemilarynx. <i>Laryngoscope</i> , 2019, 129, 1293-1300.	2.0	10

#	ARTICLE	IF	CITATIONS
37	Laryngeal Reconstruction Using Tissue-Engineered Implants in Pigs: A Pilot Study. <i>Laryngoscope</i> , 2021, 131, 2277-2284.	2.0	10
38	Microstructural Parameter-Based Modeling for Transport Properties of Collagen Matrices. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 061003.	1.3	7
39	Matrix rigidity regulates spatiotemporal dynamics of Cdc42 activity and vacuole formation kinetics of endothelial colony forming cells. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 1280-1285.	2.1	6
40	Oligomeric collagen as an encapsulation material for islet/ β -cell replacement: effect of islet source, dose, implant site, and administration format. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 319, E388-E400.	3.5	6
41	Collagen Self-assembly: Biophysics and Biosignaling for Advanced Tissue Generation. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2020, , 203-245.	1.0	5
42	Organic Hydrogel Templates for Tunable Mesoporous Silica Hybrid Materials. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1721, 1.	0.1	1
43	Collagen-fibril matrix properties modulate the kinetics of silica polycondensation to template and direct biomineralization. <i>Journal of Materials Research</i> , 2016, 31, 311-320.	2.6	1
44	Identification of extractable growth factors from small intestinal submucosa. , 1997, 67, 478.		1
45	Designing a nerve tissue scaffold of tunable stiffness from natural biomaterials. , 2011, , .		0
46	Microstructures: Mechanisms and Microenvironment Investigation of Cellularized High Density Gradient Collagen Matrices via Densification (Adv. Funct. Mater. 16/2016). <i>Advanced Functional Materials</i> , 2016, 26, 2772-2772.	14.9	0
47	Decellularized Cartilage Microparticles: Dissociated and Reconstituted Cartilage Microparticles in Densified Collagen Induce Local hMSC Differentiation (Adv. Funct. Mater. 30/2016). <i>Advanced Functional Materials</i> , 2016, 26, 5426-5426.	14.9	0
48	Abstract 168: YAP and TAZ Mediate Mechanical Control of Vasculogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, .	2.4	0
49	Eliciting and Characterizing Porcine Vocalizations: When Pigs Fly. <i>Journal of Voice</i> , 2022, , .	1.5	0