

Dana M Cairns

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,132
citations

361413
20
h-index

414414
32
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37
all docs

37
docs citations

37
times ranked

1752
citing authors

#	ARTICLE	IF	CITATIONS
1	A 3D human brain-like tissue model of herpes-induced Alzheimer's disease. <i>Science Advances</i> , 2020, 6, eaay8828.	10.3	159
2	Functionalized 3D-printed silk-hydroxyapatite scaffolds for enhanced bone regeneration with innervation and vascularization. <i>Biomaterials</i> , 2021, 276, 120995.	11.4	96
3	Silk as a Biomaterial to Support Long-Term Three-Dimensional Tissue Cultures. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21861-21868.	8.0	90
4	Expandable and Rapidly Differentiating Human Induced Neural Stem Cell Lines for Multiple Tissue Engineering Applications. <i>Stem Cell Reports</i> , 2016, 7, 557-570.	4.8	64
5	3D biomaterial matrix to support long term, full thickness, immuno-competent human skin equivalents with nervous system components. <i>Biomaterials</i> , 2019, 198, 194-203.	11.4	59
6	A gradient of Shh establishes mutually repressing somitic cell fates induced by Nkx3.2 and Pax3. <i>Developmental Biology</i> , 2008, 323, 152-165.	2.0	47
7	Functional maturation of human neural stem cells in a 3D bioengineered brain model enriched with fetal brain-derived matrix. <i>Scientific Reports</i> , 2019, 9, 17874.	3.3	46
8	Somitic disruption of GNAS in chick embryos mimics progressive osseous heteroplasia. <i>Journal of Clinical Investigation</i> , 2013, 123, 3624-3633.	8.2	45
9	Corneal pain and experimental model development. <i>Progress in Retinal and Eye Research</i> , 2019, 71, 88-113.	15.5	43
10	Interplay of Nkx3.2, Sox9 and Pax3 Regulates Chondrogenic Differentiation of Muscle Progenitor Cells. <i>PLoS ONE</i> , 2012, 7, e39642.	2.5	41
11	The influence of scaffold material on chondrocytes under inflammatory conditions. <i>Acta Biomaterialia</i> , 2013, 9, 6563-6575.	8.3	38
12	Bioinspired Three-Dimensional Human Neuromuscular Junction Development in Suspended Hydrogel Arrays. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 346-359.	2.1	38
13	Multifunctional Bioreactor System for Human Intestine Tissues. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 231-239.	5.2	37
14	Efficacy of Niclosamide vs Placebo in SARS-CoV-2 Respiratory Viral Clearance, Viral Shedding, and Duration of Symptoms Among Patients With Mild to Moderate COVID-19. <i>JAMA Network Open</i> , 2022, 5, e2144942.	5.9	34
15	The role of muscle cells in regulating cartilage matrix production. <i>Journal of Orthopaedic Research</i> , 2010, 28, 529-536.	2.3	33
16	Potential Involvement of Varicella Zoster Virus in Alzheimer's Disease via Reactivation of Quiescent Herpes Simplex Virus Type 1. <i>Journal of Alzheimer's Disease</i> , 2022, 88, 1189-1200.	2.6	32
17	Niclosamide rescues microcephaly in a humanized <i>in vivo</i> model of Zika infection using human induced neural stem cells. <i>Biology Open</i> , 2018, 7, .	1.2	30
18	Photo-cross-linkable, insulating silk fibroin for bioelectronics with enhanced cell affinity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15482-15489.	7.1	27

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19	Bi-layered Tubular Microfiber Scaffolds as Functional Templates for Engineering Human Intestinal Smooth Muscle Tissue. <i>Advanced Functional Materials</i> , 2020, 30, 2000543.	14.9	24
20	Smart Material Hydrogel Transfer Devices Fabricated with Stimuli-Responsive Silk-Elastin-Like Proteins. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000266.	7.6	24
21	Human Corneal Tissue Model for Nociceptive Assessments. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800488.	7.6	21
22	Muscle cells enhance resistance to pro-inflammatory cytokine-induced cartilage destruction. <i>Biochemical and Biophysical Research Communications</i> , 2010, 392, 22-28.	2.1	17
23	Human Skin Equivalents Demonstrate Need for Neuro-Immuno-Cutaneous System. <i>Advanced Biology</i> , 2019, 3, 1800283.	3.0	16
24	Modeling Diabetic Corneal Neuropathy in a 3D In Vitro Cornea System. <i>Scientific Reports</i> , 2018, 8, 17294.	3.3	13
25	Bioengineered in vitro enteric nervous system. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 1712-1723.	2.7	13
26	Ivermectin Promotes Peripheral Nerve Regeneration during Wound Healing. <i>ACS Omega</i> , 2018, 3, 12392-12402.	3.5	11
27	Assembly and Application of a Three-Dimensional Human Corneal Tissue Model. <i>Current Protocols in Toxicology</i> / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2019, 81, e84.	1.1	9
28	Scaffold structure and fabrication method affect proinflammatory milieu in three-dimensional-cultured chondrocytes. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 534-544.	4.0	8
29	Hyperosmolar Potassium Inhibits Myofibroblast Conversion and Reduces Scar Tissue Formation. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5327-5336.	5.2	8
30	Screening neuroprotective compounds in herpes-induced Alzheimer's disease cell and 3D tissue models. <i>Free Radical Biology and Medicine</i> , 2022, 186, 76-92.	2.9	4
31	Learning and synaptic plasticity in 3D bioengineered neural tissues. <i>Neuroscience Letters</i> , 2021, 750, 135799.	2.1	2
32	Induction of Irritation and Inflammation in a 3D Innervated Tissue Model of the Human Cornea. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6886-6895.	5.2	1
33	Learning and Synaptic Plasticity in 3D Bioengineered Neural Tissues. <i>FASEB Journal</i> , 2021, 35, .	0.5	0