Mark D Ungrin

List of Publications by Year
in descending order

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38	2,200	394421 19	361022 35
papers	citations	h-index	g-index

38	38	38	3100
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reproducible, Ultra High-Throughput Formation of Multicellular Organization from Single Cell Suspension-Derived Human Embryonic Stem Cell Aggregates. PLoS ONE, 2008, 3, e1565.	2.5	367
2	Molecular cloning and characterization of the four rat prostaglandin E2 prostanoid receptor subtypes. European Journal of Pharmacology, 1997, 340, 227-241.	3.5	267
3	The Bloom syndrome helicase BLM interacts with TRF2 in ALT cells and promotes telomeric DNA synthesis. Human Molecular Genetics, 2002, 11, 3135-3144.	2.9	173
4	Incorporation of biomaterials in multicellular aggregates modulates pluripotent stem cell differentiation. Biomaterials, 2011, 32, 48-56.	11.4	154
5	Bioprocessing of Mesenchymal Stem Cells and Their Derivatives: Toward Cell-Free Therapeutics. Stem Cells International, 2018, 2018, 1-23.	2.5	119
6	Oxygenation in cell culture: Critical parameters for reproducibility are routinely not reported. PLoS ONE, 2018, 13, e0204269.	2.5	97
7	Characterization of a Novel Serotonin Receptor from Caenorhabditis elegans. Journal of Neurochemistry, 2001, 72, 1372-1383.	3.9	94
8	Preferential maintenance of critically short telomeres in mammalian cells heterozygous formTert. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3597-3602.	7.1	94
9	Micropatterning of human embryonic stem cells dissects the mesoderm and endoderm lineages. Stem Cell Research, 2009, 2, 155-162.	0.7	92
10	Geometric Control of Cardiomyogenic Induction in Human Pluripotent Stem Cells. Tissue Engineering - Part A, 2011, 17, 1901-1909.	3.1	79
11	Formation of organotypic testicular organoids in microwell cultureâ€. Biology of Reproduction, 2019, 100, 1648-1660.	2.7	74
12	Soft lithography: masters on demand. Lab on A Chip, 2008, 8, 1379.	6.0	72
13	The microwell-mesh: A novel device and protocol for the high throughput manufacturing of cartilage microtissues. Biomaterials, 2015, 62, 1-12.	11.4	69
14	An Automated Aequorin Luminescence-Based Functional Calcium Assay for G-Protein-Coupled Receptors. Analytical Biochemistry, 1999, 272, 34-42.	2.4	56
15	Key Structural Features of Prostaglandin E₂and Prostanoid Analogs Involved in Binding and Activation of the Human EP₁Prostanoid Receptor. Molecular Pharmacology, 2001, 59, 1446-1456.	2.3	55
16	Rational bioprocess design for human pluripotent stem cell expansion and endoderm differentiation based on cellular dynamics. Biotechnology and Bioengineering, 2012, 109, 853-866.	3.3	51
17	Bioengineered human pseudoislets form efficiently from donated tissue, compare favourably with native islets in vitro and restore normoglycaemia in mice. Diabetologia, 2018, 61, 2016-2029.	6.3	47
18	Human islet function following 20Âyears of cryogenic biobanking. Diabetologia, 2015, 58, 1503-1512.	6.3	39

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19	Production of Large Numbers of Size-controlled Tumor Spheroids Using Microwell Plates. Journal of Visualized Experiments, 2013, , e50665.	0.3	20
20	Climbing the mountain: experimental design for the efficient optimization of stem cell bioprocessing. Journal of Biological Engineering, 2017, 11, 35.	4.7	20
21	Serum-Free Culture of Human Mesenchymal Stem Cell Aggregates in Suspension Bioreactors for Tissue Engineering Applications. Stem Cells International, 2019, 2019, 1-18.	2.5	20
22	Unique metabolic phenotype and its transition during maturation of juvenile male germ cells. FASEB Journal, 2021, 35, e21513.	0.5	19
23	Generation of Porcine Testicular Organoids with Testis Specific Architecture using Microwell Culture. Journal of Visualized Experiments, 2019, , .	0.3	17
24	Phenotypic Analysis of Human Embryonic Stem Cells. , 2007, Chapter 1, Unit 1B.3.		16
25	Stirred Suspension Bioreactor Culture of Porcine Induced Pluripotent Stem Cells. Stem Cells and Development, 2019, 28, 1264-1275.	2.1	13
26	In Vitro Maturation of Retinal Pigment Epithelium Is Essential for Maintaining High Expression of Key Functional Genes. International Journal of Molecular Sciences, 2020, 21, 6066.	4.1	13
27	A Simple and Low-Cost Monitoring System to Investigate Environmental Conditions in a Biological Research Laboratory. PLoS ONE, 2016, 11, e0147140.	2.5	12
28	An automated system for delivery of an unstable transcription factor to hematopoietic stem cell cultures. Biotechnology and Bioengineering, 2009, 103, 402-412.	3.3	11
29	Strict control of telomerase activation using Cre-mediated inversion. , 2006, 6, 10.		8
30	Is Use of BMP-2 Associated with Tumor Growth and Osteoblastic Differentiation in Murine Models of Osteosarcoma?. Clinical Orthopaedics and Related Research, 2020, 478, 2921-2933.	1.5	8
31	Aggregate Size Optimization in Microwells for Suspension-based Cardiac Differentiation of Human Pluripotent Stem Cells. Journal of Visualized Experiments, 2016, , .	0.3	7
32	Scaffold-Free Retinal Pigment Epithelium Microtissues Exhibit Increased Release of PEDF. International Journal of Molecular Sciences, 2021, 22, 11317.	4.1	4
33	Feasibility of three-dimensional facial imaging and printing for producing customised nasal masks for continuous positive airway pressure. ERJ Open Research, 2021, 7, 00632-2020.	2.6	4
34	Scalable Cardiac Differentiation of Human Pluripotent Stem Cells as Microwell-Generated, Size Controlled Three-Dimensional Aggregates. Methods in Molecular Biology, 2014, 1181, 15-25.	0.9	3
35	The Proliferation of Pre-Pubertal Porcine Spermatogonia in Stirred Suspension Bioreactors Is Partially Mediated by the Wnt/Î²-Catenin Pathway. International Journal of Molecular Sciences, 2021, 22, 13549.	4.1	3
36	Development of and Validity Evidence for a Canine Ocular Model for Training Novice Veterinary Students to Perform a Fundic Examination. Journal of Veterinary Medical Education, 2021, 48, 620-628.	0.6	2

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37	Automated Hypothesis Generation to Identify Signals Relevant in the Development of Mammalian Cell and Tissue Bioprocesses, With Validation in a Retinal Culture System. Frontiers in Bioengineering and Biotechnology, 2020, 8, 534.	4.1	1
38	Optimizing methods to generate tissue engineered cartilage constructs under serum free conditions in suspension culture. Osteoarthritis and Cartilage, 2015, 23, A415-A416.	1.3	0