Stefan A Przyborski

List of Publications by Year
in descending order

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73	4,994	101496	91828
papers	citations	36 h-index	69 g-index

77	77	77	6802
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent advances in 2D and 3D in vitro systems using primary hepatocytes, alternative hepatocyte sources and non-parenchymal liver cells and their use in investigating mechanisms of hepatotoxicity, cell signaling and ADME. Archives of Toxicology, 2013, 87, 1315-1530.	1.9	1,089
2	Advances in 3D cell culture technologies enabling tissueâ€like structures to be created in vitro. Journal of Anatomy, 2015, 227, 746-756.	0.9	392
3	An Autogeneic Feeder Cell System That Efficiently Supports Growth of Undifferentiated Human Embryonic Stem Cells. Stem Cells, 2005, 23, 306-314.	1.4	222
4	Tailoring the morphology of emulsion-templated porous polymers. Soft Matter, 2006, 2, 608.	1.2	179
5	Culture of HepG2 liver cells on three dimensional polystyrene scaffolds enhances cell structure and function during toxicological challenge. Journal of Anatomy, 2007, 211, 567-576.	0.9	179
6	Derivation of Human Embryonic Stem Cells from Day-8 Blastocysts Recovered after Three-Step In Vitro Culture. Stem Cells, 2004, 22, 790-797.	1.4	158
7	Differentiation of Human Embryonic Stem Cells After Transplantation in Immune-Deficient Mice. Stem Cells, 2005, 23, 1242-1250.	1.4	145
8	Growth of human stem cell-derived neurons on solid three-dimensional polymers. Journal of Proteomics, 2005, 62, 231-240.	2.4	129
9	Role of mesenchymal stem cells in neurogenesis and nervous system repair. Neurochemistry International, 2011, 59, 347-56.	1.9	125
10	Growth of Teratomas Derived from Human Pluripotent Stem Cells Is Influenced by the Graft Site. Stem Cells and Development, 2006, 15, 254-259.	1.1	104
11	Developments in three-dimensional cell culture technology aimed at improving the accuracy of in vitro analyses. Biochemical Society Transactions, 2010, 38, 1072-1075.	1.6	101
12	Degradable emulsion-templated scaffolds for tissue engineering from thiolâ€“ene photopolymerisation. Soft Matter, 2012, 8, 10344.	1.2	100
13	Novel cell culture device enabling three-dimensional cell growth and improved cell function. Biochemical and Biophysical Research Communications, 2007, 354, 1095-1100.	1.0	98
14	Emulsion-templated porous polymers as scaffolds for three dimensional cell culture: effect of synthesis parameters on scaffold formation and homogeneity. Journal of Materials Chemistry, 2007, 17, 4088.	6.7	94
15	Enhanced neurite outgrowth by human neurons grown on solid three-dimensional scaffolds. Biochemical and Biophysical Research Communications, 2004, 314, 483-488.	1.0	93
16	Bioengineering the microanatomy of human skin. Journal of Anatomy, 2019, 234, 438-455.	0.9	91
17	Developmental regulation of neurogenesis in the pluripotent human embryonal carcinoma cell line NTERA-2. European Journal of Neuroscience, 2000, 12, 3521-3528.	1.2	86
18	Formation of Neurons by Non-Neural Adult Stem Cells: Potential Mechanism Implicates an Artifact of Growth in Culture. Stem Cells, 2006, 24, 1841-1851.	1.4	84

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19	Human Embryonal Carcinoma Stem Cells: Models of Embryonic Development in Humans. Stem Cells and Development, 2004, 13, 400-408.	1.1	75
20	Enhanced cell attachment using a novel cell culture surface presenting functional domains from extracellular matrix proteins. Cytotechnology, 2008, 56, 71-79.	0.7	74
21	A Novel Fully Humanized 3D Skin Equivalent to Model Early Melanoma Invasion. Molecular Cancer Therapeutics, 2015, 14, 2665-2673.	1.9	72
22	Derivation and Functional Analysis of Patient-Specific Induced Pluripotent Stem Cells as an In Vitro Model of Chronic Granulomatous Disease. Stem Cells, 2012, 30, 599-611.	1.4	69
23	Rat Primary Hepatocytes Show Enhanced Performance and Sensitivity to Acetaminophen During Three-Dimensional Culture on a Polystyrene Scaffold Designed for Routine Use. Assay and Drug Development Technologies, 2011, 9, 475-486.	0.6	68
24	Fully biodegradable and biocompatible emulsion templated polymer scaffolds by thiol-acrylate polymerization of polycaprolactone macromonomers. Polymer Chemistry, 2015, 6, 7256-7263.	1.9	60
25	AlvetexÂ®: Polystyrene Scaffold Technology for Routine Three Dimensional Cell Culture. Methods in Molecular Biology, 2011, 695, 323-340.	0.4	59
26	Synthesis and evaluation of synthetic retinoid derivatives as inducers of stem cell differentiation. Organic and Biomolecular Chemistry, 2008, 6, 3497.	1.5	56
27	Generation of proliferating human hepatocytes using upcyte^{Â®}technology: characterisation and applications in induction and cytotoxicity assays. Xenobiotica, 2012, 42, 939-956.	0.5	56
28	Synthetic Retinoids: Structureâ€“Activity Relationships. Chemistry - A European Journal, 2009, 15, 11430-11442.	1.7	53
29	Mesenchymal stem cells expressing neural antigens instruct a neurogenic cell fate on neural stem cells. Experimental Neurology, 2009, 216, 329-341.	2.0	53
30	Acrylicâ€Acidâ€Functionalized PolyHIPE Scaffolds for Use in 3D Cell Culture. Macromolecular Rapid Communications, 2013, 34, 1844-1849.	2.0	53
31	Galactose-Functionalized PolyHIPE Scaffolds for Use in Routine Three Dimensional Culture of Mammalian Hepatocytes. Biomacromolecules, 2013, 14, 4271-4277.	2.6	52
32	Brief Report: Human Pluripotent Stem Cell Models of Fanconi Anemia Deficiency Reveal an Important Role for Fanconi Anemia Proteins in Cellular Reprogramming and Survival of Hematopoietic Progenitors. Stem Cells, 2013, 31, 1022-1029.	1.4	51
33	Isolation of Human Embryonic Stem Cellâ€“Derived Teratomas for the Assessment of Pluripotency. Current Protocols in Stem Cell Biology, 2007, 3, Unit1B.4.	3.0	48
34	Developmental regulation of MAP2 variants during neuronal differentiation in vitro. Developmental Brain Research, 1995, 89, 187-201.	2.1	42
35	Bioengineering Novel in vitro Co-culture Models That Represent the Human Intestinal Mucosa With Improved Caco-2 Structure and Barrier Function. Frontiers in Bioengineering and Biotechnology, 2020, 8, 992.	2.0	42
36	Isolation of Human Embryonal Carcinoma Stem Cells by Immunomagnetic Sorting. Stem Cells, 2001, 19, 500-504.	1.4	39

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37	Proteomic identification of biomarkers expressed by human pluripotent stem cells. Biochemical and Biophysical Research Communications, 2004, 316, 918-923.	1.0	37
38	Neural differentiation regulated by biomimetic surfaces presenting motifs of extracellular matrix proteins. Journal of Biomedical Materials Research - Part A, 2010, 93A, 824-832.	2.1	33
39	Neuronal-glial populations form functional networks in a biocompatible 3D scaffold. Neuroscience Letters, 2015, 609, 198-202.	1.0	30
40	Non-neural adult stem cells: tools for brain repair?. BioEssays, 2002, 24, 708-713.	1.2	27
41	Novel Siliconâ€Containing Analogues of the Retinoid Agonist Bexarotene: Syntheses and Biological Effects on Human Pluripotent Stem Cells. ChemMedChem, 2011, 6, 1509-1517.	1.6	26
42	Retinoid supplementation of differentiating human neural progenitors and embryonic stem cells leads to enhanced neurogenesis in vitro. Journal of Neuroscience Methods, 2010, 193, 239-245.	1.3	25
43	The action of all-trans-retinoic acid (ATRA) and synthetic retinoid analogues (EC19 and EC23) on human pluripotent stem cells differentiation investigated using single cell infrared microspectroscopy. Molecular BioSystems, 2013, 9, 677.	2.9	25
44	Design and biological evaluation of synthetic retinoids: probing length vs. stability vs. activity. Molecular BioSystems, 2013, 9, 3124.	2.9	24
45	Neuropharmacological properties of neurons derived from human stem cells. Neurochemistry International, 2011, 59, 404-412.	1.9	22
46	Developmental changes in GAP-43 expression in primary cultures of rat cerebellar granule cells. Molecular Brain Research, 1994, 25, 273-285.	2.5	21
47	Formation of neurospheres from human embryonal carcinoma stem cells. Biochemical and Biophysical Research Communications, 2003, 304, 411-416.	1.0	20
48	Proteomic profiling of the stem cell response to retinoic acid and synthetic retinoid analogues: identification of major retinoid-inducible proteins. Molecular BioSystems, 2009, 5, 458.	2.9	20
49	Human Embryonal Carcinoma Stem Cells Expressing Green Fluorescent Protein Form Functioning Neurons In Vitro: A Research Tool for Co-culture Studies. Stem Cells and Development, 2004, 13, 646-657.	1.1	18
50	The vitamin A ester retinyl propionate has a unique metabolic profile and higher retinoidâ€related bioactivity over retinol and retinyl palmitate in human skin models. Experimental Dermatology, 2021, 30, 226-236.	1.4	16
51	A robust and reproducible human pluripotent stem cell derived model of neurite outgrowth in a three-dimensional culture system and its application to study neurite inhibition. Neurochemistry International, 2017, 106, 74-84.	1.9	15
52	Optimized peptide functionalization of thiolâ€acrylate emulsionâ€templated porous polymers leads to expansion of human pluripotent stem cells in 3D culture. Journal of Polymer Science Part A, 2019, 57, 1974-1981.	2.5	14
53	Probing biological activity through structural modelling of ligand-receptor interactions of 2,4-disubstituted thiazole retinoids. Bioorganic and Medicinal Chemistry, 2018, 26, 1560-1572.	1.4	13
54	Topâ€down labelâ€free LCâ€MALDI analysis of the peptidome during neural progenitor cell differentiation reveals complexity in cytoskeletal protein dynamics and identifies progenitor cell markers. Proteomics, 2011, 11, 3992-4006.	1.3	12

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55	Following the Differentiation of Human Pluripotent Stem Cells by Proteomic Identification of Biomarkers. Stem Cells and Development, 2006, 15, 221-231.	1.1	11
56	Synthesis and applications of 2,4-disubstituted thiazole derivatives as small molecule modulators of cellular development. Organic and Biomolecular Chemistry, 2013, 11, 2323.	1.5	10
57	Neurogenesis in Response to Synthetic Retinoids at Different Temporal Scales. Molecular Neurobiology, 2018, 55, 1942-1950.	1.9	10
58	Multiple scattering in scanning helium microscopy. Applied Physics Letters, 2020, 116, .	1.5	10
59	The Role of Retinoids in the Adult Nervous System and their Therapeutic Potential. Mini-Reviews in Medicinal Chemistry, 2008, 8, 601-608.	1.1	9
60	Applications of novel bioreactor technology to enhance the viability and function of cultured cells and tissues. Interface Focus, 2020, 10, 20190090.	1.5	9
61	Engineering a Multilayered Skin Equivalent: The Importance of Endogenous Extracellular Matrix Maturation to Provide Robustness and Reproducibility. Methods in Molecular Biology, 2019, 1993, 107-122.	0.4	7
62	Use of Porous Polystyrene Scaffolds to Bioengineer Human Epithelial Tissues In Vitro. Methods in Molecular Biology, 2021, 2273, 279-296.	0.4	7
63	Tissue engineering strategies to bioengineer the ageing skin phenotype in vitro. Aging Cell, 2022, 21, e13550.	3.0	7
64	Neural Development by Transplanted Human Embryonal Carcinoma Stem Cells Expressing Green Fluorescent Protein. Cell Transplantation, 2005, 14, 339-351.	1.2	6
65	The utility of stem cells for neural regeneration. Brain and Neuroscience Advances, 2018, 2, 239821281881807.	1.8	5
66	Transcription Factor IIAÏ„Is Associated with Undifferentiated Cells and Its Gene Expression Is Repressed in Primary Neurons at the Chromatin Level In Vivo. Stem Cells and Development, 2006, 15, 175-190.	1.1	4
67	Application of synthetic photostable retinoids induces novel limb and facial phenotypes during chick embryogenesis in vivo. Journal of Anatomy, 2014, 224, 392-411.	0.9	4
68	Using Advanced Cell Culture Techniques to Differentiate Pluripotent Stem Cells and Recreate Tissue Structures Representative of Teratoma Xenografts. Frontiers in Cell and Developmental Biology, 2021, 9, 667246.	1.8	3
69	Derivation and Culture of Human Embryonal Carcinoma Stem Cell Lines. , 0, , 133-158.		2
70	Applying Stirred Perfusion to 3D Tissue Equivalents to Mimic the Dynamic In Vivo Microenvironment. Methods in Molecular Biology, 2021, , 241-256.	0.4	1
71	Application of proteomic technology to neural stem cell science and neurology. Future Neurology, 2007, 2, 285-296.	0.9	0
72	Advances in Stem Cell Biology â€“ an ASGBI International Conference held at Durham University. Journal of Anatomy, 2008, 213, 1-4.	0.9	0

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73	The Development of Small Molecules and Growth Supplements to Control the Differentiation of Stem Cells and the Formation of Neural Tissues. Pancreatic Islet Biology, 2011, , 499-513.	0.1	0