Stephen A Duncan

List of Publications by Year
in descending order

107 papers	11,664 citations	38660 50 h-index	33814 99 g-index
112 all docs	112 docs citations	112 times ranked	14243 citing authors

#	Article	IF	Citations
1	Highly efficient generation of human hepatocyte-like cells from induced pluripotent stem cells. Hepatology, 2010, 51, 297-305.	3.6	1,081
2	Organogenesis and Development of the Liver. Developmental Cell, 2010, 18, 175-189.	3.1	649
3	Hepatocyte nuclear factor 4Î± controls the development of a hepatic epithelium and liver morphogenesis. Nature Genetics, 2003, 34, 292-296.	9.4	530
4	The orphan nuclear receptor HNF4Î± determines PXR- and CAR-mediated xenobiotic induction of CYP3A4. Nature Medicine, 2003, 9, 220-224.	15.2	418
5	Mammalian hepatocyte differentiation requires the transcription factor HNF-4Î±. Genes and Development, 2000, 14, 464-474.	2.7	398
6	Cardiac-Specific Deletion of Gata4 Reveals Its Requirement for Hypertrophy, Compensation, and Myocyte Viability. Circulation Research, 2006, 98, 837-845.	2.0	384
7	The maturity-onset diabetes of the young (MODY1) transcription factor HNF4Â regulates expression of genes required for glucose transport and metabolism. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 13209-13214.	3.3	374
8	Expression of transcription factor HNF-4 in the extraembryonic endoderm, gut, and nephrogenic tissue of the developing mouse embryo: HNF-4 is a marker for primary endoderm in the implanting blastocyst.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 7598-7602.	3.3	333
9	GATA4 is essential for formation of the proepicardium and regulates cardiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12573-12578.	3.3	316
10	Normal cerebellar development but susceptibility to seizures in mice lacking G protein-coupled, inwardly rectifying K+ channel GIRK2. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 923-927.	3.3	312
11	ER Stress Controls Iron Metabolism Through Induction of Hepcidin. Science, 2009, 325, 877-880.	6.0	278
12	Embryonic development of the liver. Hepatology, 2005, 41, 956-967.	3.6	274
13	HNF4: A central regulator of hepatocyte differentiation and function. Hepatology, 2003, 37, 1249-1253.	3.6	245
14	Identification of small molecules for human hepatocyte expansion and iPS differentiation. Nature Chemical Biology, 2013, 9, 514-520.	3.9	230
15	Hepatocyte nuclear factor 4Â orchestrates expression of cell adhesion proteins during the epithelial transformation of the developing liver. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8419-8424.	3.3	225
16	GATA6 Is Essential for Embryonic Development of the Liver but Dispensable for Early Heart Formation. Molecular and Cellular Biology, 2005, 25, 2622-2631.	1.1	216
17	Cardiomyocyte GATA4 functions as a stress-responsive regulator of angiogenesis in the murine heart. Journal of Clinical Investigation, 2007, 117, 3198-3210.	3.9	212
18	Modeling hepatitis C virus infection using human induced pluripotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2544-2548.	3.3	197

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19	The MODY1 gene HNF-4Î± regulates selected genes involved in insulin secretion. Journal of Clinical Investigation, 2005, 115, 1006-1015.	3.9	195
20	Loss of both GATA4 and GATA6 blocks cardiac myocyte differentiation and results in acardia in mice. Developmental Biology, 2008, 317, 614-619.	0.9	193
21	Progression of HCC in mice is associated with a downregulation in the expression of hepatocyte nuclear factors. Hepatology, 2004, 39, 1038-1047.	3.6	192
22	Generation of human induced pluripotent stem cells by simple transient transfection of plasmid DNA encoding reprogramming factors. BMC Developmental Biology, 2010, 10, 81.	2.1	191
23	HNF4A is essential for specification of hepatic progenitors from human pluripotent stem cells. Development (Cambridge), 2011, 138, 4143-4153.	1.2	178
24	The transcription factor cyclic AMPâ€"responsive elementâ€"binding protein H regulates triglyceride metabolism. Nature Medicine, 2011, 17, 812-815.	15.2	174
25	A threshold of GATA4 and GATA6 expression is required for cardiovascular development. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11189-11194.	3.3	170
26	Culture of human pluripotent stem cells using completely defined conditions on a recombinant E-cadherin substratum. BMC Developmental Biology, 2010, 10, 60.	2.1	169
27	Development of the mammalian liver and ventral pancreas is dependent on GATA4. BMC Developmental Biology, 2007, 7, 37.	2.1	165
28	Endoplasmic reticulum-tethered transcription factor cAMP responsive element-binding protein, hepatocyte specific, regulates hepatic lipogenesis, fatty acid oxidation, and lipolysis upon metabolic stress in mice. Hepatology, 2012, 55, 1070-1082.	3.6	163
29	Mechanisms controlling early development of the liver. Mechanisms of Development, 2003, 120, 19-33.	1.7	160
30	Hepatocyte Nuclear Factor 4Î± Is Essential for Embryonic Development of the Mouse Colon. Gastroenterology, 2006, 130, 19.e1-19.e.	0.6	143
31	Large, Diverse Population Cohorts of hiPSCs and Derived Hepatocyte-like Cells Reveal Functional Genetic Variation at Blood Lipid-Associated Loci. Cell Stem Cell, 2017, 20, 558-570.e10.	5.2	138
32	Pancreas-specific deletion of mouse Gata4 and Gata6 causes pancreatic agenesis. Journal of Clinical Investigation, 2012, 122, 3516-3528.	3.9	138
33	JD induced pluripotent stem cell-derived hepatocytes faithfully recapitulate the pathophysiology of familial hypercholesterolemia. Hepatology, 2012, 56, 2163-2171.	3.6	120
34	Pescadillo Is Essential for Nucleolar Assembly, Ribosome Biogenesis, and Mammalian Cell Proliferation. Journal of Biological Chemistry, 2002, 277, 45347-45355.	1.6	106
35	Differentiation of Hepatocytes from Pluripotent Stem Cells. Current Protocols in Stem Cell Biology, 2013, 26, 1G.4.1-1G.4.13.	3.0	96
36	Hepatocyte-like cells differentiated from human induced pluripotent stem cells: Relevance to cellular therapies. Stem Cell Research, 2012, 9, 196-207.	0.3	95

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37	Transcriptional regulation of liver development. Developmental Dynamics, 2000, 219, 131-142.	0.8	93
38	A Drug Screen using Human iPSC-Derived Hepatocyte-like Cells Reveals Cardiac Glycosides as a Potential Treatment for Hypercholesterolemia. Cell Stem Cell, 2017, 20, 478-489.e5.	5.2	92
39	GATA Factors Regulate Proliferation, Differentiation, and Gene Expression in Small Intestine of Mature Mice. Gastroenterology, 2011, 140, 1219-1229.e2.	0.6	91
40	Disruption of the MacMARCKS gene prevents cranial neural tube closure and results in anencephaly.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 6275-6279.	3.3	90
41	iPSC-Derived Hepatocytes as a Platform for Disease Modeling and Drug Discovery. Frontiers in Medicine, 2019, 6, 265.	1.2	90
42	Hepatocyte nuclear factor 4Î± is implicated in endoplasmic reticulum stress-induced acute phase response by regulating expression of cyclic adenosine monophosphate responsive element binding protein H. Hepatology, 2008, 48, 1242-1250.	3.6	88
43	The Transcription Factor GATA-6 Regulates Pathological Cardiac Hypertrophy. Circulation Research, 2010, 107, 1032-1040.	2.0	88
44	STAT signaling is active during early mammalian development. , 1997, 208, 190-198.		83
45	GATA4 Is Essential for Jejunal Function in Mice. Gastroenterology, 2008, 135, 1676-1686.e1.	0.6	80
46	Cited2, a coactivator of HNF4Î±, is essential for liver development. EMBO Journal, 2007, 26, 4445-4456.	3.5	70
47	Generation of mice harbouring a conditional loss-of-function allele of Gata6. BMC Developmental Biology, 2006, 6, 19.	2.1	67
48	Foxa1 Functions as a Pioneer Transcription Factor at Transposable Elements to Activate Afp during Differentiation of Embryonic Stem Cells. Journal of Biological Chemistry, 2010, 285, 16135-16144.	1.6	65
49	A Cell Surfaceome Map for Immunophenotyping and Sorting Pluripotent Stem Cells. Molecular and Cellular Proteomics, 2012, 11, 303-316.	2.5	58
50	Improved cardiac function in infarcted mice after treatment with pluripotent embryonic stem cells. The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology, 2006, 288A, 1216-1224.	2.0	57
51	Essential function of PTP-PEST during mouse embryonic vascularization, mesenchyme formation, neurogenesis and early liver development. Mechanisms of Development, 2006, 123, 869-880.	1.7	54
52	Dynamic expression of a glutamate decarboxylase gene in multiple non-neural tissues during mouse development. , 2001, 1, 1.		45
53	GATA6 is essential for endoderm formation from human pluripotent stem cells. Biology Open, 2017, 6, 1084-1095.	0.6	45
54	Mapping the Cell-Surface N-Glycoproteome of Human Hepatocytes Reveals Markers for Selecting a Homogeneous Population of iPSC-Derived Hepatocytes. Stem Cell Reports, 2016, 7, 543-556.	2.3	44

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55	Gene Targeting in the Mouse: Advances in Introduction of Transgenes into the Genome by Homologous Recombination. Endocrine, 2002, 19, 229-238.	2.2	42
56	Junctional Adhesion Molecule-A Is Critical for the Formation of Pseudocanaliculi and Modulates E-cadherin Expression in Hepatic Cells. Journal of Biological Chemistry, 2007, 282, 28137-28148.	1.6	42
57	Generation of a conditionally null allele ofhnf4?. Genesis, 2002, 32, 130-133.	0.8	41
58	Isoflurane Preconditioning Elicits Competent Endogenous Mechanisms of Protection from Oxidative Stress in Cardiomyocytes Derived from Human Embryonic Stem Cells. Anesthesiology, 2010, 113, 906-916.	1.3	41
59	Transcriptional regulation of the human hepatic lipase (LIPC) gene promoter. Journal of Lipid Research, 2006, 47, 1463-1477.	2.0	38
60	Design of the Artificial Acellular Feeder Layer for the Efficient Propagation of Mouse Embryonic Stem Cells. Journal of Biological Chemistry, 2008, 283, 26468-26476.	1.6	37
61	Lack of MTTP Activity in Pluripotent Stem Cell-Derived Hepatocytes and Cardiomyocytes Abolishes apoB Secretion and Increases Cell Stress. Cell Reports, 2017, 19, 1456-1466.	2.9	36
62	A Screen Using iPSC-Derived Hepatocytes Reveals NAD+ as a Potential Treatment for mtDNA Depletion Syndrome. Cell Reports, 2018, 25, 1469-1484.e5.	2.9	36
63	HNF4A Regulates the Formation of Hepatic Progenitor Cells from Human iPSC-Derived Endoderm by Facilitating Efficient Recruitment of RNA Pol II. Genes, 2019, 10, 21.	1.0	33
64	FGF2 mediates hepatic progenitor cell formation during human pluripotent stem cell differentiation by inducing the WNT antagonist NKD1. Genes and Development, 2015, 29, 2463-2474.	2.7	32
65	GATA6 defines endoderm fate by controlling chromatin accessibility during differentiation of human-induced pluripotent stem cells. Cell Reports, 2021, 35, 109145.	2.9	32
66	BMPs on the road to hepatogenesis. Genes and Development, 2001, 15, 1879-1884.	2.7	31
67	Generation of iPSCs as a Pooled Culture Using Magnetic Activated Cell Sorting of Newly Reprogrammed Cells. PLoS ONE, 2015, 10, e0134995.	1.1	30
68	Comparison of Cardiomyogenic Potential among Human ESC and iPSC Lines. Cell Transplantation, 2012, 21, 2523-2530.	1.2	29
69	The Murine Pes1 Gene Encodes a Nuclear Protein Containing a BRCT Domain. Genomics, 2000, 70, 201-210.	1.3	27
70	Generation of single-copy transgenic mouse embryos directly from ES cells by tetraploid embryo complementation. BMC Biotechnology, 2001, 1, 12.	1.7	27
71	Hepatocyte expression of serum response factor is essential for liver function, hepatocyte proliferation and survival, and postnatal body growth in mice. Hepatology, 2009, 49, 1645-1654.	3.6	27
72	In SituHybridization with33P-Labeled RNA Probes for Determination of Cellular Expression Patterns of Liver Transcription Factors in Mouse Embryos. Methods, 1998, 16, 29-41.	1.9	25

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73	A small molecule screen reveals that HSP90Î² promotes the conversion of iPSC-derived endoderm to a hepatic fate and regulates HNF4A turnover. Development (Cambridge), 2017, 144, 1764-1774.	1.2	24
74	ATP-Binding Cassette Transporter A1 Deficiency in Human Induced Pluripotent Stem Cell-Derived Hepatocytes Abrogates HDL Biogenesis and Enhances Triglyceride Secretion. EBioMedicine, 2017, 18, 139-145.	2.7	23
75	Conserved Enhancer in the Serum Response Factor Promoter Controls Expression During Early Coronary Vasculogenesis. Circulation Research, 2004, 94, 1059-1066.	2.0	21
76	Sall4 overexpression blocks murine hematopoiesis in a dose-dependent manner. Experimental Hematology, 2015, 43, 53-64.e8.	0.2	20
77	<i>N</i>â€glycoprotein surfaceome of human induced pluripotent stem cell derived hepatic endoderm. Proteomics, 2017, 17, 1600397.	1.3	19
78	The Use of Human Pluripotent Stem Cells for Modeling Liver Development and Disease. Hepatology, 2019, 69, 1306-1316.	3.6	18
79	Loss of intestinal GATA4 prevents diet-induced obesity and promotes insulin sensitivity in mice. American Journal of Physiology - Endocrinology and Metabolism, 2011, 300, E478-E488.	1.8	17
80	Modeling Inborn Errors of Hepatic Metabolism Using Induced Pluripotent Stem Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 1994-1999.	1.1	17
81	Aneuploidy is permissive for hepatocyte-like cell differentiation from human induced pluripotent stem cells. BMC Research Notes, 2014, 7, 437.	0.6	14
82	Generation of embryos directly from embryonic stem cells by tetraploid embryo complementation reveals a role for GATA factors in organogenesis. Biochemical Society Transactions, 2005, 33, 1534.	1.6	13
83	Transcriptional Control of Hepatocyte Differentiation. Progress in Molecular Biology and Translational Science, 2010, 97, 79-101.	0.9	13
84	Design of a Vitronectin-Based Recombinant Protein as a Defined Substrate for Differentiation of Human Pluripotent Stem Cells into Hepatocyte-Like Cells. PLoS ONE, 2015, 10, e0136350.	1.1	13
85	Epicardial GATA factors regulate early coronary vascular plexus formation. Developmental Biology, 2014, 386, 204-215.	0.9	10
86	Enhanced genome editing in human iPSCs with CRISPR-CAS9 by co-targeting<i>ATP1a1</i>. PeerJ, 2020, 8, e9060.	0.9	10
87	Engineering liver tissue from induced pluripotent stem cells: A first step in generating new organs for transplantation?. Hepatology, 2013, 58, 2198-2201.	3.6	8
88	Using Human Induced Pluripotent Stem Cell-derived Hepatocyte-like Cells for Drug Discovery. Journal of Visualized Experiments, 2018, , .	0.2	8
89	Light Chain 1 of Microtubule-associated Protein 1B Can Negatively Regulate the Action of Pes1. Journal of Biological Chemistry, 2007, 282, 11308-11316.	1.6	7
90	FoxA factors: the chromatin key and doorstop essential for liver development and function. Genes and Development, 2020, 34, 1003-1004.	2.7	7

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91	Small molecules targeting the NADH-binding pocket of VDAC modulate mitochondrial metabolism in hepatocarcinoma cells. Biomedicine and Pharmacotherapy, 2022, 150, 112928.	2.5	6
92	Advancements in Disease Modeling and Drug Discovery Using iPSC-Derived Hepatocyte-like Cells. Genes, 2022, 13, 573.	1.0	5
93	An efficient method to successively introduce transgenes into a given genomic locus in the mouse. BMC Developmental Biology, 2001, 1, 10.	2.1	4
94	Generation of Hepatocyte-Like Cells from Human Pluripotent Stem Cells. , 2013, , 139-147.		4
95	Induction of Cardiomyogenesis in Human Embryonic Stem Cells by Human Embryonic Stem Cell-Derived Definitive Endoderm. Stem Cells and Development, 2012, 21, 987-994.	1.1	3
96	Transcriptional regulation of liver development. , 2000, 219, 131.		3
97	Chromatin remodeling is restricted by transient GATA6 binding during iPSC differentiation to definitive endoderm. IScience, 2022, 25, 104300.	1.9	3
98	Adipose expression of CREB3L3 modulates body weight during obesity. Scientific Reports, 2021, 11, 19400.	1.6	2
99	The pancreas and its heartless beginnings. Nature Genetics, 2001, 27, 355-356.	9.4	1
100	Liver Capsule: Multipotent stem cells and their lineage restriction to hepatocytes. Hepatology, 2016, 64, 1330-1330.	3.6	1
101	Generation of isogenic Propionyl-CoA carboxylase beta subunit (PCCB) deficient induced pluripotent stem cell lines. Stem Cell Research, 2020, 48, 101953.	0.3	1
102	HNF4A is essential for specification of hepatic progenitors from human pluripotent stem cells. Journal of Cell Science, 2011, 124, e1-e1.	1.2	1
103	Robert H. Costa. Journal of Clinical Investigation, 2006, 116, 3086-3086.	3.9	0
104	Cardiomyocyte GATA4 functions as a stress-responsive regulator of angiogenesis in the murine heart. Journal of Clinical Investigation, 2008, 118, 387-387.	3.9	0
105	hESCâ€Derived Definitive Endoderm Induces Cardiomyogenesis in Human Embryonic Stem Cells.. FASEB Journal, 2010, 24, 175.2.	0.2	0
106	Laboratory-Scale Purification of a Recombinant E-Cadherin-IgG Fc Fusion Protein That Provides a Cell Surface Matrix for Extended Culture and Efficient Subculture of Human Pluripotent Stem Cells. Springer Protocols, 2011, , 25-35.	0.1	0
107	Restoration of Liver Function Following Transplantation of Healthy Hepatocytes into the Fah â€/â€•Il2rg â€/â€• Rat Model. FASEB Journal, 2015, 29, LB681.	0.2	0