Amander T Clark

List of Publications by Citations

104 papers	9,761 citations	41 h-index	98 g-index
114 ext. papers	11,178 ext. citations	11.3 avg, IF	5.83 L-index

#	Paper	IF	Citations
104	UHRF1 plays a role in maintaining DNA methylation in mammalian cells. *Science*, **2007**, 317, 1760-4	33.3	976
103	Induced pluripotent stem cells and embryonic stem cells are distinguished by gene expression signatures. *Cell Stem Cell*, **2009**, 5, 111-23	18	816
102	Identification and classification of chromosomal aberrations in human induced pluripotent stem cells. *Cell Stem Cell*, **2010**, 7, 521-31	18	595
101	Relationship between nucleosome positioning and DNA methylation. *Nature*, **2010**, 466, 388-92	50.4	555
100	Hydrodynamic stretching of single cells for large population mechanical phenotyping. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 7630-5	11.5	535
99	Paracrine actions of growth differentiation factor-9 in the mammalian ovary. *Molecular Endocrinology*, **1999**, 13, 1035-48		492
98	Spontaneous differentiation of germ cells from human embryonic stem cells in vitro. *Human Molecular Genetics*, **2004**, 13, 727-39	5.6	382
97	Human embryonic stem cell genes OCT4, NANOG, STELLAR, and GDF3 are expressed in both seminoma and breast carcinoma. *Cancer*, **2005**, 104, 2255-65	6.4	355
96	Directed differentiation of human-induced pluripotent stem cells generates active motor neurons. *Stem Cells*, **2009**, 27, 806-11	5.8	288
95	Unique gene expression signatures of independently-derived human embryonic stem cell lines. *Human Molecular Genetics*, **2004**, 13, 601-8	5.6	249
94	Mitochondrial function controls proliferation and early differentiation potential of embryonic stem cells. *Stem Cells*, **2011**, 29, 486-95	5.8	241
93	DNA Demethylation Dynamics in the Human Prenatal Germline. *Cell*, **2015**, 161, 1425-36	56.2	231
92	Female human iPSCs retain an inactive X chromosome. *Cell Stem Cell*, **2010**, 7, 329-42	18	223
91	Human STELLAR, NANOG, and GDF3 genes are expressed in pluripotent cells and map to chromosome 12p13, a hotspot for teratocarcinoma. *Stem Cells*, **2004**, 22, 169-79	5.8	218
90	Bone morphogenetic proteins induce germ cell differentiation from human embryonic stem cells. *Stem Cells and Development*, **2006**, 15, 831-7	4.4	209
89	Derivation of primordial germ cells from human embryonic and induced pluripotent stem cells is significantly improved by coculture with human fetal gonadal cells. *Stem Cells*, **2009**, 27, 783-95	5.8	202
88	Functional genetic analysis of mouse chromosome 11. *Nature*, **2003**, 425, 81-6	50.4	175

87	Naive Human Pluripotent Cells Feature a Methylation Landscape Devoid of Blastocyst or Germline Memory. *Cell Stem Cell*, **2016**, 18, 323-329	18	161
86	Histone h3 lysine 56 acetylation is linked to the core transcriptional network in human embryonic stem cells. *Molecular Cell*, **2009**, 33, 417-27	17.6	160
85	The ontogeny of cKIT+ human primordial germ cells proves to be a resource for human germ line reprogramming, imprint erasure and in vitro differentiation. *Nature Cell Biology*, **2013**, 15, 113-22	23.4	154
84	Stage-specific roles for tet1 and tet2 in DNA demethylation in primordial germ cells. *Cell Stem Cell*, **2013**, 12, 470-8	18	137
83	Human Naive Pluripotent Stem Cells Model X Chromosome Dampening and X Inactivation. *Cell Stem Cell*, **2017**, 20, 87-101	18	136
82	Nuclear Localization of Mitochondrial TCA Cycle Enzymes as a Critical Step in Mammalian Zygotic Genome Activation. *Cell*, **2017**, 168, 210-223.e11	56.2	123
81	Mammalian protein arginine methyltransferase 7 (PRMT7) specifically targets RXR sites in lysine- and arginine-rich regions. *Journal of Biological Chemistry*, **2013**, 288, 37010-25	5.4	112
80	Aneuploidy induces profound changes in gene expression, proliferation and tumorigenicity of human pluripotent stem cells. *Nature Communications*, **2014**, 5, 4825	17.4	107
79	In vivo targeting of de novo DNA methylation by histone modifications in yeast and mouse. *ELife*, **2015**, 4, e06205	8.9	107
78	Comparison of recombinant growth differentiation factor-9 and oocyte regulation of KIT ligand messenger ribonucleic acid expression in mouse ovarian follicles. *Biology of Reproduction*, **2000**, 63, 1669-75	3.9	105
77	TFAP2C regulates transcription in human naive pluripotency by opening enhancers. *Nature Cell Biology*, **2018**, 20, 553-564	23.4	73
76	Human embryonic stem cells as models for aneuploid chromosomal syndromes. *Stem Cells*, **2010**, 28, 1530-40	5.8	73
75	Human Embryonic Stem Cells Do Not Change Their X Inactivation Status during Differentiation. *Cell Reports*, **2017**, 18, 54-67	10.6	72
74	Germline stem cells: toward the regeneration of spermatogenesis. *Fertility and Sterility*, **2014**, 101, 3-13	4.8	71
73	MORC1 represses transposable elements in the mouse male germline. *Nature Communications*, **2014**, 5, 5795	17.4	71
72	Modelling human blastocysts by reprogramming fibroblasts into iBlastoids. *Nature*, **2021**, 591, 627-632	50.4	70
71	Aneuploidy and early human embryo development. *Human Molecular Genetics*, **2008**, 17, R10-5	5.6	65
70	The stem cell identity of testicular cancer. *Stem Cell Reviews and Reports*, **2007**, 3, 49-59	6.4	64

69	Stage-Specific Demethylation in Primordial Germ Cells Safeguards against Precocious Differentiation. *Developmental Cell*, **2016**, 39, 75-86	10.2	59
68	Germline competency of human embryonic stem cells depends on eomesodermin. *Biology of Reproduction*, **2017**, 97, 850-861	3.9	49
67	Microfluidic image cytometry for quantitative single-cell profiling of human pluripotent stem cells in chemically defined conditions. *Lab on A Chip*, **2010**, 10, 1113-9	7.2	45
66	Human Primordial Germ Cells Are Specified from Lineage-Primed Progenitors. *Cell Reports*, **2019**, 29, 4568-4582.e5	10.6	44
65	Copy number variant analysis of human embryonic stem cells. *Stem Cells*, **2008**, 26, 1484-9	5.8	42
64	From skin biopsy to neurons through a pluripotent intermediate under Good Manufacturing Practice protocols. *Stem Cells Translational Medicine*, **2012**, 1, 36-43	6.9	41
63	In vitro studies on the roles of transforming growth factor-beta 1 in rat metanephric development. *Kidney International*, **2001**, 59, 1641-53	9.9	38
62	Reprogramming roadmap reveals route to human induced trophoblast stem cells. *Nature*, **2020**, 586, 101-107	50.4	38
61	Derivation of new human embryonic stem cell lines reveals rapid epigenetic progression in vitro that can be prevented by chemical modification of chromatin. *Human Molecular Genetics*, **2012**, 21, 751-64	5.6	37
60	Rapid and efficient conversion of integration-free human induced pluripotent stem cells to GMP-grade culture conditions. *PLoS ONE*, **2014**, 9, e94231	3.7	36
59	Multiparameter mechanical and morphometric screening of cells. *Scientific Reports*, **2016**, 6, 37863	4.9	31
58	A self-renewal program controls the expansion of genetically unstable cancer stem cells in pluripotent stem cell-derived tumors. *Stem Cells*, **2009**, 27, 18-28	5.8	29
57	The TFAP2C-Regulated OCT4 Naive Enhancer Is Involved in Human Germline Formation. *Cell Reports*, **2018**, 25, 3591-3602.e5	10.6	29
56	DNA methylation remodeling in vitro and in vivo. *Current Opinion in Genetics and Development*, **2015**, 34, 82-7	4.9	28
55	Mouse MORC3 is a GHKL ATPase that localizes to H3K4me3 marked chromatin. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E5108-16	11.5	28
54	Centromere protein A dynamics in human pluripotent stem cell self-renewal, differentiation and DNA damage. *Human Molecular Genetics*, **2010**, 19, 3970-82	5.6	28
53	Expression of bone morphogenetic protein receptors in the developing mouse metanephros. *Nephron Experimental Nephrology*, **2001**, 9, 372-9		27
52	ISSCR Guidelines for Stem Cell Research and Clinical Translation: The 2021 update. *Stem Cell Reports*, **2021**, 16, 1398-1408	8	27

51	The Sm protein methyltransferase PRMT5 is not required for primordial germ cell specification in mice. *EMBO Journal*, **2015**, 34, 748-58	13	26
50	Single cell analysis facilitates staging of Blimp1-dependent primordial germ cells derived from mouse embryonic stem cells. *PLoS ONE*, **2011**, 6, e28960	3.7	26
49	Fruitful progress to fertility: male fertility in the test tube. *Nature Medicine*, **2011**, 17, 1564-5	50.5	25
48	PRMT5 is required for human embryonic stem cell proliferation but not pluripotency. *Stem Cell Reviews and Reports*, **2014**, 10, 230-9	6.4	23
47	Differentiation of primate primordial germ cell-like cells following transplantation into the adult gonadal niche. *Nature Communications*, **2018**, 9, 5339	17.4	22
46	Single-cell analysis of the developing human testis reveals somatic niche cell specification and fetal germline stem cell establishment. *Cell Stem Cell*, **2021**, 28, 764-778.e4	18	21
45	Deriving Dorsal Spinal Sensory Interneurons from Human Pluripotent Stem Cells. *Stem Cell Reports*, **2018**, 10, 390-405	8	19
44	Mutations in a novel locus on mouse chromosome 11 resulting in male infertility associated with defects in microtubule assembly and sperm tail function. *Biology of Reproduction*, **2004**, 70, 1317-24	3.9	19
43	Female human primordial germ cells display X-chromosome dosage compensation despite the absence of X-inactivation. *Nature Cell Biology*, **2020**, 22, 1436-1446	23.4	19
42	PRDM14 is expressed in germ cell tumors with constitutive overexpression altering human germline differentiation and proliferation. *Stem Cell Research*, **2018**, 27, 46-56	1.6	18
41	Cyclin-dependent kinase 2-associating protein 1 commits murine embryonic stem cell differentiation through retinoblastoma protein regulation. *Journal of Biological Chemistry*, **2009**, 284, 23405-14	5.4	18
40	TRIM28-Regulated Transposon Repression Is Required for Human Germline Competency and Not Primed or Naive Human Pluripotency. *Stem Cell Reports*, **2018**, 10, 243-256	8	17
39	Modeling human infertility with pluripotent stem cells. *Stem Cell Research*, **2017**, 21, 187-192	1.6	17
38	Modeling human germ cell development with embryonic stem cells. *Regenerative Medicine*, **2006**, 1, 85-93	2.5	15
37	Human embryo research, stem cell-derived embryo models and in vitro gametogenesis: Considerations leading to the revised ISSCR guidelines. *Stem Cell Reports*, **2021**, 16, 1416-1424	8	15
36	New Monoclonal Antibodies to Defined Cell Surface Proteins on Human Pluripotent Stem Cells. *Stem Cells*, **2017**, 35, 626-640	5.8	14
35	Advances in renal development. *Current Opinion in Nephrology and Hypertension*, **2000**, 9, 247-51	3.5	14
34	Loss of Pten causes tumor initiation following differentiation of murine pluripotent stem cells due to failed repression of Nanog. *PLoS ONE*, **2011**, 6, e16478	3.7	14

33	An Extended Culture System that Supports Human Primordial Germ Cell-like Cell Survival and Initiation of DNA Methylation Erasure. *Stem Cell Reports*, **2020**, 14, 433-446	8	13
32	A big surprise in the little zygote: the curious business of losing methylated cytosines. *Cell Stem Cell* , **2014**, 15, 393-394	18	13
31	PGC Reversion to Pluripotency Involves Erasure of DNA Methylation from Imprinting Control Centers followed by Locus-Specific Re-methylation. *Stem Cell Reports*, **2015**, 5, 337-49	8	13
30	Primate Primordial Germ Cells Acquire Transplantation Potential by Carnegie Stage 23. *Stem Cell Reports*, **2017**, 9, 329-341	8	12
29	Intermolecular interactions of homologs of germ plasm components in mammalian germ cells. *Developmental Biology*, **2007**, 301, 417-31	3.1	12
28	Modeling Progressive Fibrosis with Pluripotent Stem Cells Identifies an Anti-fibrotic Small Molecule. *Cell Reports*, **2019**, 29, 3488-3505.e9	10.6	10
27	Mammalian primordial germ cell specification. *Development (Cambridge)*, **2021**, 148,	6.6	9
26	The Aorta-Gonad-Mesonephros Organ Culture Recapitulates 5hmC Reorganization and Replication-Dependent and Independent Loss of DNA Methylation in the Germline. *Stem Cells and Development*, **2015**, 24, 1536-45	4.4	6
25	An integration-free, virus-free rhesus macaque induced pluripotent stem cell line (riPSC89) from embryonic fibroblasts. *Stem Cell Research*, **2016**, 17, 444-447	1.6	6
24	An integration-free, virus-free rhesus macaque induced pluripotent stem cell line (riPSC90) from embryonic fibroblasts. *Stem Cell Research*, **2017**, 21, 5-8	1.6	5
23	Human germline differentiation charts a new course. *EMBO Journal*, **2015**, 34, 975-7	13	5
22	Pluripotency takes off without Blimp1. *Cell Stem Cell*, **2012**, 11, 1-2	18	5
21	Cdk2ap2 is a novel regulator for self-renewal of murine embryonic stem cells. *Stem Cells and Development*, **2012**, 21, 3010-8	4.4	5
20	Postpubertal spermatogonial stem cell transplantation restores functional sperm production in rhesus monkeys irradiated before and after puberty. *Andrology*, **2021**, 9, 1603-1616	4.2	5
19	Generation of three human induced pluripotent stem cell sublines (MZT04D, MZT04J, MZT04C) for reproductive science research. *Stem Cell Research*, **2019**, 40, 101576	1.6	4
18	Mitochondrial DNA selection in human germ cells. *Nature Cell Biology*, **2018**, 20, 118-120	23.4	4
17	Restoring Fertility with Human Induced Pluripotent Stem Cells: Are We There Yet?. *Cell Stem Cell*, **2018**, 23, 777-779	18	4
16	Egg-citing advances in generating primordial germ cells in the laboratory. *Biology of Reproduction*, **2010**, 82, 233-4	3.9	3

15	TGF superfamily signaling regulates the state of human stem cell pluripotency and competency to create telencephalic organoids		3
14	Establishment and differentiation of human embryonic stem cell derived germ cells. *Society of Reproduction and Fertility Supplement*, **2007**, 63, 77-86		3
13	Epigenetically reprogramming of human embryonic stem cells by 3-deazaneplanocin a and sodium butyrate. *International Journal of Preventive Medicine*, **2011**, 2, 73-8	1.6	2
12	Mentorship in Science: Response to AlShebli et al., Nature Communications 2020. *Stem Cell Reports*, **2021**, 16, 1-2	8	2
11	Divergent roles for KLF4 and TFCP2L1 in naive ground state pluripotency and human primordial germ cell development. *Stem Cell Research*, **2021**, 55, 102493	1.6	2
10	Human reproduction is regulated by retrotransposons derived from ancient Hominidae-specific viral infections.. *Nature Communications*, **2022**, 13, 463	17.4	1
9	RNA-Seq Library Generation from Rare Human Cells Isolated by FACS. *Bio-protocol*, **2013**, 3,	0.9	1
8	The role of MORC3 in silencing transposable elements in mouse embryonic stem cells. *Epigenetics and Chromatin*, **2021**, 14, 49	5.8	1
7	Standing on the shoulders of giants: The changing landscape of pluripotent stem cells in research. *Anatomical Record*, **2020**, 303, 2597-2602	2.1	1
6	Generation of six human induced pluripotent stem cell sublines (MZT01E, MZT01F, MZT01N and MZT02D, MZT02G and MZT02H) for reproductive science research. *Stem Cell Research*, **2021**, 51, 102204	1.6	1
5	Generation of three human induced pluripotent stem cell sublines (UCLAi005-A, UCLAi005-B and UCLAi005-C) for reproductive science research. *Stem Cell Research*, **2021**, 54, 102409	1.6	1
4	Generation of three human induced pluripotent stem cell sublines (UCLAi004-A, UCLAi004-B, and UCLAi004-C) for reproductive science research. *Stem Cell Research*, **2021**, 54, 102446	1.6	0
3	Hatching human blastocyst. *Molecular Reproduction and Development*, **2014**, 81, 203-203	2.6	
2	The DAZ gene family and human germ cell development from embryonic stem cells323-350		
1	Pluripotent Stem Cells in Reproductive Medicine: Formation of the Human Germ Line in Vitro. *Pancreatic Islet Biology*, **2011**, 371-386	0.4	