

Ludovic Vallier

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

9,991
citations

41
h-index

99
g-index

115
ext. papers

12,153
ext. citations

13.8
avg, IF

6.09
L-index

#	Paper	IF	Citations
99	Human branching cholangiocyte organoids recapitulate functional bile duct formation.. <i>Cell Stem Cell</i> , 2022 , 29, 776-794.e13	18	0
98	Derivation of Multipotent Neural Progenitors from Human Embryonic Stem Cells for Cell Therapy and Biomedical Applications. <i>Methods in Molecular Biology</i> , 2021 , 1	1.4	0
97	Single-cell transcriptomic characterization of a gastrulating human embryo. <i>Nature</i> , 2021 , 600, 285-289	50.4	27
96	Unraveling the Developmental Roadmap toward Human Brown Adipose Tissue. <i>Stem Cell Reports</i> , 2021 , 16, 641-655	8	2
95	Building consensus on definition and nomenclature of hepatic, pancreatic, and biliary organoids. <i>Cell Stem Cell</i> , 2021 , 28, 816-832	18	32
94	Monogenic Diabetes Modeling: Pancreatic Differentiation From Human Pluripotent Stem Cells Gains Momentum. <i>Frontiers in Endocrinology</i> , 2021 , 12, 692596	5.7	2
93	Regional Differences in Human Biliary Tissues and Corresponding In Vitro-Derived Organoids. <i>Hepatology</i> , 2021 , 73, 247-267	11.2	31
92	Cholangiocyte organoids can repair bile ducts after transplantation in the human liver. <i>Science</i> , 2021 , 371, 839-846	33.3	45
91	TGF β signalling is required to maintain pluripotency of human naïve pluripotent stem cells. <i>ELife</i> , 2021 , 10,	8.9	2
90	An in vitro stem cell model of human epiblast and yolk sac interaction. <i>ELife</i> , 2021 , 10,	8.9	2
89	Modeling HNF1B-associated monogenic diabetes using human iPSCs reveals an early stage impairment of the pancreatic developmental program. <i>Stem Cell Reports</i> , 2021 , 16, 2289-2304	8	0
88	Modeling PNPLA3-Associated NAFLD Using Human-Induced Pluripotent Stem Cells. <i>Hepatology</i> , 2021 , 74, 2998-3017	11.2	4
87	Single-Cell Sequencing of Developing Human Gut Reveals Transcriptional Links to Childhood Crohn's Disease. <i>Developmental Cell</i> , 2020 , 55, 771-783.e5	10.2	47
86	Analysis of endothelial-to-haematopoietic transition at the single cell level identifies cell cycle regulation as a driver of differentiation. <i>Genome Biology</i> , 2020 , 21, 157	18.3	15
85	Single-cell RNA-sequencing of differentiating iPS cells reveals dynamic genetic effects on gene expression. <i>Nature Communications</i> , 2020 , 11, 810	17.4	76
84	GDF15 mediates the effects of metformin on body weight and energy balance. <i>Nature</i> , 2020 , 578, 444-448	38.4	171
83	A Novel Chemically Differentiated Mouse Embryonic Stem Cell-Based Model to Study Liver Stages of <i>Plasmodium berghei</i> . <i>Stem Cell Reports</i> , 2020 , 14, 1123-1134	8	2

82	Naive Pluripotent Stem Cells Exhibit Phenotypic Variability that Is Driven by Genetic Variation. <i>Cell Stem Cell</i> , 2020 , 27, 470-481.e6	18	16
81	A p53-Dependent Checkpoint Induced upon DNA Damage Alters Cell Fate during hiPSC Differentiation. <i>Stem Cell Reports</i> , 2020 , 15, 827-835	8	3
80	GMP-grade neural progenitor derivation and differentiation from clinical-grade human embryonic stem cells. <i>Stem Cell Research and Therapy</i> , 2020 , 11, 406	8.3	5
79	Regenerative cell therapy for the treatment of hyperbilirubinemic Gunn rats with fresh and frozen human induced pluripotent stem cells-derived hepatic stem cells. <i>Xenotransplantation</i> , 2020 , 27, e12544 ^{2.8}	2.8	8
78	GATA6 Cooperates with EOMES/SMAD2/3 to Deploy the Gene Regulatory Network Governing Human Definitive Endoderm and Pancreas Formation. <i>Stem Cell Reports</i> , 2019 , 12, 57-70	8	16
77	Cell cycle regulators control mesoderm specification in human pluripotent stem cells. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17903-17914	5.4	9
76	Tissue-Engineering the Intestine: The Trials before the Trials. <i>Cell Stem Cell</i> , 2019 , 24, 855-859	18	19
75	HNF4A Haploinsufficiency in MODY1 Abrogates Liver and Pancreas Differentiation from Patient-Derived Induced Pluripotent Stem Cells. <i>iScience</i> , 2019 , 16, 192-205	6.1	22
74	Isolation and propagation of primary human cholangiocyte organoids for the generation of bioengineered biliary tissue. <i>Nature Protocols</i> , 2019 , 14, 1884-1925	18.8	37
73	Use of Biliary Organoids in Cholestasis Research. <i>Methods in Molecular Biology</i> , 2019 , 1981, 373-382	1.4	3
72	Conditional Gene Knockout in Human Cells with Inducible CRISPR/Cas9. <i>Methods in Molecular Biology</i> , 2019 , 1961, 185-209	1.4	1
71	Combined single-cell profiling of expression and DNA methylation reveals splicing regulation and heterogeneity. <i>Genome Biology</i> , 2019 , 20, 30	18.3	36
70	Method to Synchronize Cell Cycle of Human Pluripotent Stem Cells without Affecting Their Fundamental Characteristics. <i>Stem Cell Reports</i> , 2019 , 12, 165-179	8	16
69	A Novel Human Pluripotent Stem Cell-Derived Neural Crest Model of Treacher Collins Syndrome Shows Defects in Cell Death and Migration. <i>Stem Cells and Development</i> , 2019 , 28, 81-100	4.4	17
68	Genome-Wide Epigenetic and Transcriptomic Characterization of Human-Induced Pluripotent Stem Cell-Derived Intestinal Epithelial Organoids. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2019 , 7, 285-288	7.9	8
67	DNA methylation defines regional identity of human intestinal epithelial organoids and undergoes dynamic changes during development. <i>Gut</i> , 2019 , 68, 49-61	19.2	73
66	The SMAD2/3 interactome reveals that TGFβ controls mA mRNA methylation in pluripotency. <i>Nature</i> , 2018 , 555, 256-259	50.4	173
65	Human Pluripotent Stem Cell-Derived Endoderm for Modeling Development and Clinical Applications. <i>Cell Stem Cell</i> , 2018 , 22, 485-499	18	33

64	Proteomic Comparison of Various Hepatic Cell Cultures for Preclinical Safety Pharmacology. <i>Toxicological Sciences</i> , 2018 , 164, 229-239	4.4	4
63	Conditional Manipulation of Gene Function in Human Cells with Optimized Inducible shRNA. <i>Current Protocols in Stem Cell Biology</i> , 2018 , 44, 5C.4.1-5C.4.48	2.8	4
62	hiPSC hepatocyte model demonstrates the role of unfolded protein response and inflammatory networks in α -1 antitrypsin deficiency. <i>Journal of Hepatology</i> , 2018 , 69, 851-860	13.4	28
61	Advances in the generation of bioengineered bile ducts. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018 , 1864, 1532-1538	6.9	12
60	Genetic association analysis identifies variants associated with disease progression in primary sclerosing cholangitis. <i>Gut</i> , 2018 , 67, 1517-1524	19.2	28
59	Science-based assessment of source materials for cell-based medicines: report of a stakeholders workshop. <i>Regenerative Medicine</i> , 2018 , 13, 935-944	2.5	10
58	Report of the Key Opinion Leaders Meeting on Stem Cell-derived Beta Cells. <i>Transplantation</i> , 2018 , 102, 1223-1229	1.8	47
57	Common genetic variation drives molecular heterogeneity in human iPSCs. <i>Nature</i> , 2017 , 546, 370-375	50.4	294
56	Inducible and Deterministic Forward Programming of Human Pluripotent Stem Cells into Neurons, Skeletal Myocytes, and Oligodendrocytes. <i>Stem Cell Reports</i> , 2017 , 8, 803-812	8	73
55	Directed differentiation of human induced pluripotent stem cells into functional cholangiocyte-like cells. <i>Nature Protocols</i> , 2017 , 12, 814-827	18.8	70
54	Laser Capture and Deep Sequencing Reveals the Transcriptomic Programmes Regulating the Onset of Pancreas and Liver Differentiation in Human Embryos. <i>Stem Cell Reports</i> , 2017 , 9, 1387-1394	8	24
53	Genome editing reveals a role for OCT4 in human embryogenesis. <i>Nature</i> , 2017 , 550, 67-73	50.4	210
52	Platelet function is modified by common sequence variation in megakaryocyte super enhancers. <i>Nature Communications</i> , 2017 , 8, 16058	17.4	30
51	Reconstruction of the mouse extrahepatic biliary tree using primary human extrahepatic cholangiocyte organoids. <i>Nature Medicine</i> , 2017 , 23, 954-963	50.5	138
50	Variability of human pluripotent stem cell lines. <i>Current Opinion in Genetics and Development</i> , 2017 , 46, 179-185	4.9	71
49	Generation of Human Induced Pluripotent Stem Cells from Peripheral Blood Mononuclear Cells Using Sendai Virus. <i>Methods in Molecular Biology</i> , 2016 , 1357, 23-31	1.4	11
48	Interleukin-13 Activates Distinct Cellular Pathways Leading to Ductular Reaction, Steatosis, and Fibrosis. <i>Immunity</i> , 2016 , 45, 145-58	32.3	60
47	Initiation of stem cell differentiation involves cell cycle-dependent regulation of developmental genes by Cyclin D. <i>Genes and Development</i> , 2016 , 30, 421-33	12.6	80

46	Non-CG DNA methylation is a biomarker for assessing endodermal differentiation capacity in pluripotent stem cells. <i>Nature Communications</i> , 2016 , 7, 10458	17.4	29
45	Optimized inducible shRNA and CRISPR/Cas9 platforms for in vitro studies of human development using hPSCs. <i>Development (Cambridge)</i> , 2016 , 143, 4405-4418	6.6	38
44	Cell Cycle Rules Pluripotency. <i>Cell Stem Cell</i> , 2015 , 17, 131-2	18	14
43	Early maturation and distinct tau pathology in induced pluripotent stem cell-derived neurons from patients with MAPT mutations. <i>Brain</i> , 2015 , 138, 3345-59	11.2	87
42	Cholangiocytes derived from human induced pluripotent stem cells for disease modeling and drug validation. <i>Nature Biotechnology</i> , 2015 , 33, 845-852	44.5	243
41	TEAD and YAP regulate the enhancer network of human embryonic pancreatic progenitors. <i>Nature Cell Biology</i> , 2015 , 17, 615-626	23.4	136
40	Generation of Distal Airway Epithelium from Multipotent Human Foregut Stem Cells. <i>Stem Cells and Development</i> , 2015 , 24, 1680-90	4.4	17
39	Activin/nodal signaling and NANOG orchestrate human embryonic stem cell fate decisions by controlling the H3K4me3 chromatin mark. <i>Genes and Development</i> , 2015 , 29, 702-17	12.6	76
38	Putting induced pluripotent stem cells to the test. <i>Nature Biotechnology</i> , 2015 , 33, 1145-6	44.5	4
37	Successful Generation of Human Induced Pluripotent Stem Cell Lines from Blood Samples Held at Room Temperature for up to 48 hr. <i>Stem Cell Reports</i> , 2015 , 5, 660-71	8	31
36	Human iPSC-derived motoneurons harbouring TARDBP or C9ORF72 ALS mutations are dysfunctional despite maintaining viability. <i>Nature Communications</i> , 2015 , 6, 5999	17.4	186
35	Interaction of Salmonella enterica Serovar Typhimurium with Intestinal Organoids Derived from Human Induced Pluripotent Stem Cells. <i>Infection and Immunity</i> , 2015 , 83, 2926-34	3.7	182
34	Phenotypic and functional analyses show stem cell-derived hepatocyte-like cells better mimic fetal rather than adult hepatocytes. <i>Journal of Hepatology</i> , 2015 , 62, 581-9	13.4	211
33	Culture of hESC-derived pancreatic progenitors in alginate-based scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3717-26	5.4	15
32	Potential of human induced pluripotent stem cells in studies of liver disease. <i>Hepatology</i> , 2015 , 62, 303-11.2	11.2	34
31	Emergence of a stage-dependent human liver disease signature with directed differentiation of alpha-1 antitrypsin-deficient iPS cells. <i>Stem Cell Reports</i> , 2015 , 4, 873-85	8	67
30	Activin/Nodal signalling in stem cells. <i>Development (Cambridge)</i> , 2015 , 142, 607-19	6.6	107
29	Generation of Hepatocytes from Pluripotent Stem Cells for Drug Screening and Developmental Modeling. <i>Methods in Molecular Biology</i> , 2015 , 1250, 123-42	1.4	2

28	Heps with pep: direct reprogramming into human hepatocytes. <i>Cell Stem Cell</i> , 2014 , 14, 267-9	18	13
27	Investigating the feasibility of scale up and automation of human induced pluripotent stem cells cultured in aggregates in feeder free conditions. <i>Journal of Biotechnology</i> , 2014 , 173, 53-8	3.7	24
26	Maturation of induced pluripotent stem cell derived hepatocytes by 3D-culture. <i>PLoS ONE</i> , 2014 , 9, e86372	3.7	131
25	The cell-cycle state of stem cells determines cell fate propensity. <i>Cell</i> , 2013 , 155, 135-47	56.2	392
24	Production of hepatocyte-like cells from human pluripotent stem cells. <i>Nature Protocols</i> , 2013 , 8, 430-7	18.8	220
23	Targeted gene correction of α -antitrypsin deficiency in induced pluripotent stem cells. <i>Nature</i> , 2011 , 478, 391-4	50.4	557
22	Activin/Nodal signaling controls divergent transcriptional networks in human embryonic stem cells and in endoderm progenitors. <i>Stem Cells</i> , 2011 , 29, 1176-85	5.8	119
21	Pluripotency factors regulate definitive endoderm specification through eomesodermin. <i>Genes and Development</i> , 2011 , 25, 238-50	12.6	251
20	A practical guide to human stem cell biology. <i>Development (Cambridge)</i> , 2011 , 138, 5276-5277	6.6	
19	Serum-free and feeder-free culture conditions for human embryonic stem cells. <i>Methods in Molecular Biology</i> , 2011 , 690, 57-66	1.4	17
18	Generation of functional hepatocytes from human embryonic stem cells under chemically defined conditions that recapitulate liver development. <i>Hepatology</i> , 2010 , 51, 1754-65	11.2	387
17	Modeling inherited metabolic disorders of the liver using human induced pluripotent stem cells. <i>Journal of Clinical Investigation</i> , 2010 , 120, 3127-36	15.9	457
16	Early cell fate decisions of human embryonic stem cells and mouse epiblast stem cells are controlled by the same signalling pathways. <i>PLoS ONE</i> , 2009 , 4, e6082	3.7	196
15	Activin/Nodal signalling maintains pluripotency by controlling Nanog expression. <i>Development (Cambridge)</i> , 2009 , 136, 1339-49	6.6	317
14	Signaling pathways controlling pluripotency and early cell fate decisions of human induced pluripotent stem cells. <i>Stem Cells</i> , 2009 , 27, 2655-66	5.8	135
13	Inhibition of Activin/Nodal signaling promotes specification of human embryonic stem cells into neuroectoderm. <i>Developmental Biology</i> , 2008 , 313, 107-17	3.1	235
12	Differentiation of human embryonic stem cells in adherent and in chemically defined culture conditions. <i>Current Protocols in Stem Cell Biology</i> , 2008 , Chapter 1, Unit 1D.4.1-1D.4.7	2.8	13
11	Derivation of pluripotent epiblast stem cells from mammalian embryos. <i>Nature</i> , 2007 , 448, 191-5	50.4	1564

10	Conditional gene expression in human embryonic stem cells. <i>Stem Cells</i> , 2007 , 25, 1490-7	5.8	28
9	Activin/Nodal and FGF pathways cooperate to maintain pluripotency of human embryonic stem cells. <i>Journal of Cell Science</i> , 2005 , 118, 4495-509	5.3	761
8	Human embryonic stem cells: an in vitro model to study mechanisms controlling pluripotency in early mammalian development. <i>Stem Cell Reviews and Reports</i> , 2005 , 1, 119-30	6.4	47
7	Enhancing and diminishing gene function in human embryonic stem cells. <i>Stem Cells</i> , 2004 , 22, 2-11	5.8	109
6	Nodal inhibits differentiation of human embryonic stem cells along the neuroectodermal default pathway. <i>Developmental Biology</i> , 2004 , 275, 403-21	3.1	301
5	Common genetic variation drives molecular heterogeneity in human iPSCs		7
4	A spatially resolved single cell atlas of human gastrulation		14
3	Combined single-cell profiling of expression and DNA methylation reveals splicing regulation and heterogeneity		
2	Single-cell RNA-sequencing of differentiating iPS cells reveals dynamic genetic effects on gene expression		12
1	FXR inhibition reduces ACE2 expression, SARS-CoV-2 infection and may improve COVID-19 outcome		2