

Ludovic Vallier

List of Publications by Citations

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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 | Derivation of pluripotent epiblast stem cells from mammalian embryos. <i>Nature</i> , 2007 , 448, 191-5 | 50.4 | 1564 |
| 98 | 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 |
| 97 | Targeted gene correction of α -antitrypsin deficiency in induced pluripotent stem cells. <i>Nature</i> , 2011 , 478, 391-4 | 50.4 | 557 |
| 96 | 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 |
| 95 | The cell-cycle state of stem cells determines cell fate propensity. <i>Cell</i> , 2013 , 155, 135-47 | 56.2 | 392 |
| 94 | 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 |
| 93 | Activin/Nodal signalling maintains pluripotency by controlling Nanog expression. <i>Development (Cambridge)</i> , 2009 , 136, 1339-49 | 6.6 | 317 |
| 92 | Nodal inhibits differentiation of human embryonic stem cells along the neuroectodermal default pathway. <i>Developmental Biology</i> , 2004 , 275, 403-21 | 3.1 | 301 |
| 91 | Common genetic variation drives molecular heterogeneity in human iPSCs. <i>Nature</i> , 2017 , 546, 370-375 | 50.4 | 294 |
| 90 | Pluripotency factors regulate definitive endoderm specification through eomesodermin. <i>Genes and Development</i> , 2011 , 25, 238-50 | 12.6 | 251 |
| 89 | 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 |
| 88 | 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 |
| 87 | Production of hepatocyte-like cells from human pluripotent stem cells. <i>Nature Protocols</i> , 2013 , 8, 430-7 | 18.8 | 220 |
| 86 | 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 |
| 85 | Genome editing reveals a role for OCT4 in human embryogenesis. <i>Nature</i> , 2017 , 550, 67-73 | 50.4 | 210 |
| 84 | 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 |
| 83 | 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 |

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|----|---|------|-----|
| 82 | 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 |
| 81 | The SMAD2/3 interactome reveals that TGFβ controls mA mRNA methylation in pluripotency. <i>Nature</i> , 2018 , 555, 256-259 | 50.4 | 173 |
| 80 | GDF15 mediates the effects of metformin on body weight and energy balance. <i>Nature</i> , 2020 , 578, 444-448 | 48.4 | 171 |
| 79 | Reconstruction of the mouse extrahepatic biliary tree using primary human extrahepatic cholangiocyte organoids. <i>Nature Medicine</i> , 2017 , 23, 954-963 | 50.5 | 138 |
| 78 | TEAD and YAP regulate the enhancer network of human embryonic pancreatic progenitors. <i>Nature Cell Biology</i> , 2015 , 17, 615-626 | 23.4 | 136 |
| 77 | 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 |
| 76 | Maturation of induced pluripotent stem cell derived hepatocytes by 3D-culture. <i>PLoS ONE</i> , 2014 , 9, e86377 | 3.7 | 131 |
| 75 | 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 |
| 74 | Enhancing and diminishing gene function in human embryonic stem cells. <i>Stem Cells</i> , 2004 , 22, 2-11 | 5.8 | 109 |
| 73 | Activin/Nodal signalling in stem cells. <i>Development (Cambridge)</i> , 2015 , 142, 607-19 | 6.6 | 107 |
| 72 | 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 |
| 71 | 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 |
| 70 | 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 |
| 69 | 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 |
| 68 | 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 |
| 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 | Variability of human pluripotent stem cell lines. <i>Current Opinion in Genetics and Development</i> , 2017 , 46, 179-185 | 4.9 | 71 |
| 65 | Directed differentiation of human induced pluripotent stem cells into functional cholangiocyte-like cells. <i>Nature Protocols</i> , 2017 , 12, 814-827 | 18.8 | 70 |

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| 64 | Emergence of a stage-dependent human liver disease signature with directed differentiation of alpha-1 antitrypsin-deficient iPSCs. <i>Stem Cell Reports</i> , 2015 , 4, 873-85 | 8 | 67 |
| 63 | Interleukin-13 Activates Distinct Cellular Pathways Leading to Ductular Reaction, Steatosis, and Fibrosis. <i>Immunity</i> , 2016 , 45, 145-58 | 32.3 | 60 |
| 62 | 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 |
| 61 | 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 |
| 60 | Report of the Key Opinion Leaders Meeting on Stem Cell-derived Beta Cells. <i>Transplantation</i> , 2018 , 102, 1223-1229 | 1.8 | 47 |
| 59 | Cholangiocyte organoids can repair bile ducts after transplantation in the human liver. <i>Science</i> , 2021 , 371, 839-846 | 33.3 | 45 |
| 58 | 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 |
| 57 | 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 |
| 56 | Combined single-cell profiling of expression and DNA methylation reveals splicing regulation and heterogeneity. <i>Genome Biology</i> , 2019 , 20, 30 | 18.3 | 36 |
| 55 | Potential of human induced pluripotent stem cells in studies of liver disease. <i>Hepatology</i> , 2015 , 62, 303-311 | 11.2 | 34 |
| 54 | Human Pluripotent Stem Cell-Derived Endoderm for Modeling Development and Clinical Applications. <i>Cell Stem Cell</i> , 2018 , 22, 485-499 | 18 | 33 |
| 53 | Building consensus on definition and nomenclature of hepatic, pancreatic, and biliary organoids. <i>Cell Stem Cell</i> , 2021 , 28, 816-832 | 18 | 32 |
| 52 | 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 |
| 51 | Regional Differences in Human Biliary Tissues and Corresponding In Vitro-Derived Organoids. <i>Hepatology</i> , 2021 , 73, 247-267 | 11.2 | 31 |
| 50 | Platelet function is modified by common sequence variation in megakaryocyte super enhancers. <i>Nature Communications</i> , 2017 , 8, 16058 | 17.4 | 30 |
| 49 | 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 |
| 48 | hiPSC hepatocyte model demonstrates the role of unfolded protein response and inflammatory networks in antitrypsin deficiency. <i>Journal of Hepatology</i> , 2018 , 69, 851-860 | 13.4 | 28 |
| 47 | Conditional gene expression in human embryonic stem cells. <i>Stem Cells</i> , 2007 , 25, 1490-7 | 5.8 | 28 |

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| 46 | Genetic association analysis identifies variants associated with disease progression in primary sclerosing cholangitis. <i>Gut</i> , 2018 , 67, 1517-1524 | 19.2 | 28 |
| 45 | Single-cell transcriptomic characterization of a gastrulating human embryo. <i>Nature</i> , 2021 , 600, 285-289 | 50.4 | 27 |
| 44 | 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 |
| 43 | 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 |
| 42 | 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 |
| 41 | Tissue-Engineering the Intestine: The Trials before the Trials. <i>Cell Stem Cell</i> , 2019 , 24, 855-859 | 18 | 19 |
| 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 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 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 | Cell Cycle Rules Pluripotency. <i>Cell Stem Cell</i> , 2015 , 17, 131-2 | 18 | 14 |
| 31 | A spatially resolved single cell atlas of human gastrulation | | 14 |
| 30 | Heps with pep: direct reprogramming into human hepatocytes. <i>Cell Stem Cell</i> , 2014 , 14, 267-9 | 18 | 13 |
| 29 | 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 |

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| 28 | Single-cell RNA-sequencing of differentiating iPS cells reveals dynamic genetic effects on gene expression | | 12 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | Cell cycle regulators control mesoderm specification in human pluripotent stem cells. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17903-17914 | 5.4 | 9 |
| 23 | 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 |
| 22 | 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} | | 8 |
| 21 | Common genetic variation drives molecular heterogeneity in human iPSCs | | 7 |
| 20 | 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 |
| 19 | Putting induced pluripotent stem cells to the test. <i>Nature Biotechnology</i> , 2015 , 33, 1145-6 | 44.5 | 4 |
| 18 | Proteomic Comparison of Various Hepatic Cell Cultures for Preclinical Safety Pharmacology. <i>Toxicological Sciences</i> , 2018 , 164, 229-239 | 4.4 | 4 |
| 17 | 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 |
| 16 | Modeling PNPLA3-Associated NAFLD Using Human-Induced Pluripotent Stem Cells. <i>Hepatology</i> , 2021 , 74, 2998-3017 | 11.2 | 4 |
| 15 | Use of Biliary Organoids in Cholestasis Research. <i>Methods in Molecular Biology</i> , 2019 , 1981, 373-382 | 1.4 | 3 |
| 14 | 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 |
| 13 | 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 |
| 12 | A Novel Chemically Differentiated Mouse Embryonic Stem Cell-Based Model to Study Liver Stages of Plasmodium berghei. <i>Stem Cell Reports</i> , 2020 , 14, 1123-1134 | 8 | 2 |
| 11 | Unraveling the Developmental Roadmap toward Human Brown Adipose Tissue. <i>Stem Cell Reports</i> , 2021 , 16, 641-655 | 8 | 2 |

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|----|--|-----|---|
| 10 | FXR inhibition reduces ACE2 expression, SARS-CoV-2 infection and may improve COVID-19 outcome | | 2 |
| 9 | Monogenic Diabetes Modeling: Pancreatic Differentiation From Human Pluripotent Stem Cells Gains Momentum. <i>Frontiers in Endocrinology</i> , 2021 , 12, 692596 | 5.7 | 2 |
| 8 | TGF β signalling is required to maintain pluripotency of human naïve pluripotent stem cells. <i>ELife</i> , 2021 , 10, | 8.9 | 2 |
| 7 | An in vitro stem cell model of human epiblast and yolk sac interaction. <i>ELife</i> , 2021 , 10, | 8.9 | 2 |
| 6 | Conditional Gene Knockout in Human Cells with Inducible CRISPR/Cas9. <i>Methods in Molecular Biology</i> , 2019 , 1961, 185-209 | 1.4 | 1 |
| 5 | Combined single-cell profiling of expression and DNA methylation reveals splicing regulation and heterogeneity | | |
| 4 | 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 |
| 3 | 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 |
| 2 | Human branching cholangiocyte organoids recapitulate functional bile duct formation.. <i>Cell Stem Cell</i> , 2022 , 29, 776-794.e13 | 18 | 0 |
| 1 | A practical guide to human stem cell biology. <i>Development (Cambridge)</i> , 2011 , 138, 5276-5277 | 6.6 | |