# Lorenz Studer

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 187 papers | 28,976 citations | 7069 78 h-index | 5364 164 g-index |
| 215 all docs | 215 docs citations | 215 times ranked | 27797 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Highly efficient neural conversion of human ES and iPS cells by dual inhibition of SMAD signaling. Nature Biotechnology, 2009, 27, 275-280. | 9.4 | 3,047 |
| 2 | Dopamine neurons derived from human ES cells efficiently engraft in animal models of Parkinsonâ€™s disease. Nature, 2011, 480, 547-551. | 13.7 | 1,603 |
| 3 | Efficient generation of midbrain and hindbrain neurons from mouse embryonic stem cells. Nature Biotechnology, 2000, 18, 675-679. | 9.4 | 1,210 |
| 4 | Derivation of midbrain dopamine neurons from human embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 12543-12548. | 3.3 | 922 |
| 5 | Modelling pathogenesis and treatment of familial dysautonomia using patient-specific iPSCs. Nature, 2009, 461, 402-406. | 13.7 | 808 |
| 6 | Enhanced Proliferation, Survival, and Dopaminergic Differentiation of CNS Precursors in Lowered Oxygen. Journal of Neuroscience, 2000, 20, 7377-7383. | 1.7 | 665 |
| 7 | Human iPSC-Based Modeling of Late-Onset Disease via Progerin-Induced Aging. Cell Stem Cell, 2013, 13, 691-705. | 5.2 | 613 |
| 8 | Human ES cell-derived neural rosettes reveal a functionally distinct early neural stem cell stage. Genes and Development, 2008, 22, 152-165. | 2.7 | 604 |
| 9 | Neural subtype specification of fertilization and nuclear transfer embryonic stem cells and application in parkinsonian mice. Nature Biotechnology, 2003, 21, 1200-1207. | 9.4 | 585 |
| 10 | Differentiation of Embryonic Stem Cell Lines Generated from Adult Somatic Cells by Nuclear Transfer. Science, 2001, 292, 740-743. | 6.0 | 548 |
| 11 | A Human Pluripotent Stem Cell-based Platform to Study SARS-CoV-2 Tropism and Model Virus Infection in Human Cells and Organoids. Cell Stem Cell, 2020, 27, 125-136.e7. | 5.2 | 543 |
| 12 | Combined small-molecule inhibition accelerates developmental timing and converts human pluripotent stem cells into nociceptors. Nature Biotechnology, 2012, 30, 715-720. | 9.4 | 515 |
| 13 | Directed Differentiation and Functional Maturation of Cortical Interneurons from Human Embryonic Stem Cells. Cell Stem Cell, 2013, 12, 559-572. | 5.2 | 505 |
| 14 | Human iPSC-Derived Oligodendrocyte Progenitor Cells Can Myelinate and Rescue a Mouse Model of Congenital Hypomyelination. Cell Stem Cell, 2013, 12, 252-264. | 5.2 | 500 |
| 15 | Transplantation of expanded mesencephalic precursors leads to recovery in parkinsonian rats. Nature Neuroscience, 1998, 1, 290-295. | 7.1 | 495 |
| 16 | Isolation and directed differentiation of neural crest stem cells derived from human embryonic stem cells. Nature Biotechnology, 2007, 25, 1468-1475. | 9.4 | 490 |
| 17 | Pluripotent stem cells in regenerative medicine: challenges and recent progress. Nature Reviews Genetics, 2014, 15, 82-92. | 7.7 | 403 |
| 18 | Derivation of Multipotent Mesenchymal Precursors from Human Embryonic Stem Cells. PLoS Medicine, 2005, 2, e161. | 3.9 | 396 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Neural transplantation for the treatment of Parkinson's disease. Lancet Neurology, The, 2003, 2, 437-445. | 4.9 | 322 |
| 20 | Directed Differentiation and Transplantation of Human Embryonic Stem Cell-Derived Motoneurons. Stem Cells, 2007, 25, 1931-1939. | 1.4 | 316 |
| 21 | Derivation of neural crest cells from human pluripotent stem cells. Nature Protocols, 2010, 5, 688-701. | 5.5 | 307 |
| 22 | Sequential actions of BMP receptors control neural precursor cell production and fate. Genes and Development, 2001, 15, 2094-2110. | 2.7 | 298 |
| 23 | Derivation of engraftable skeletal myoblasts from human embryonic stem cells. Nature Medicine, 2007, 13, 642-648. | 15.2 | 297 |
| 24 | Î±-Synucleinâ€"induced lysosomal dysfunction occurs through disruptions in protein trafficking in human midbrain synucleinopathy models. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1931-1936. | 3.3 | 292 |
| 25 | Impaired intrinsic immunity to HSV-1 in human iPSC-derived TLR3-deficient CNS cells. Nature, 2012, 491, 769-773. | 13.7 | 288 |
| 26 | Parthenogenetic Stem Cells in Nonhuman Primates. Science, 2002, 295, 819-819. | 6.0 | 284 |
| 27 | Expansion and maintenance of human embryonic stem cellâ€"derived endothelial cells by TGFÎ² inhibition is Id1 dependent. Nature Biotechnology, 2010, 28, 161-166. | 9.4 | 282 |
| 28 | Genomic safe harbors permit high Î²-globin transgene expression in thalassemia induced pluripotent stem cells. Nature Biotechnology, 2011, 29, 73-78. | 9.4 | 277 |
| 29 | Human Trials of Stem Cell-Derived Dopamine Neurons for Parkinsonâ€™s Disease: Dawn of a New Era. Cell Stem Cell, 2017, 21, 569-573. | 5.2 | 275 |
| 30 | Stoichiometric and temporal requirements of Oct4, Sox2, Klf4, and c-Myc expression for efficient human iPSC induction and differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12759-12764. | 3.3 | 262 |
| 31 | Optogenetics enables functional analysis of human embryonic stem cellâ€"derived grafts in a Parkinson's disease model. Nature Biotechnology, 2015, 33, 204-209. | 9.4 | 256 |
| 32 | MHC-I expression renders catecholaminergic neurons susceptible to T-cell-mediated degeneration. Nature Communications, 2014, 5, 3633. | 5.8 | 254 |
| 33 | Deriving human ENS lineages for cell therapy and drug discovery in Hirschsprung disease. Nature, 2016, 531, 105-109. | 13.7 | 252 |
| 34 | A Poised Chromatin Platform for TGF-Î² Access to Master Regulators. Cell, 2011, 147, 1511-1524. | 13.5 | 251 |
| 35 | Modeling Neural Crest Induction, Melanocyte Specification, and Disease-Related Pigmentation Defects in hESCs and Patient-Specific iPSCs. Cell Reports, 2013, 3, 1140-1152. | 2.9 | 240 |
| 36 | Tumour-initiating stem-like cells in human prostate cancer exhibit increased NF-ÎºB signalling. Nature Communications, 2011, 2, 162. | 5.8 | 239 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | The epichaperome is an integrated chaperome network that facilitates tumour survival. Nature, 2016, 538, 397-401. | 13.7 | 233 |
| 38 | Specification of positional identity in forebrain organoids. Nature Biotechnology, 2019, 37, 436-444. | 9.4 | 226 |
| 39 | High-Content Screening in hPSC-Neural Progenitors Identifies Drug Candidates that Inhibit Zika Virus Infection in Fetal-like Organoids and Adult Brain. Cell Stem Cell, 2017, 21, 274-283.e5. | 5.2 | 214 |
| 40 | High-Throughput Screening Assay for the Identification of Compounds Regulating Self-Renewal and Differentiation in Human Embryonic Stem Cells. Cell Stem Cell, 2008, 2, 602-612. | 5.2 | 211 |
| 41 | Large-scale screening using familial dysautonomia induced pluripotent stem cells identifies compounds that rescue IKBKAP expression. Nature Biotechnology, 2012, 30, 1244-1248. | 9.4 | 211 |
| 42 | Reply to â€œSurvival of expanded dopaminergic precursors is critical for clinical trialsâ€. Nature Neuroscience, 1998, 1, 537-537. | 7.1 | 203 |
| 43 | Combined small-molecule inhibition accelerates the derivation of functional cortical neurons from human pluripotent stem cells. Nature Biotechnology, 2017, 35, 154-163. | 9.4 | 186 |
| 44 | Migration and differentiation of neural precursors derived from human embryonic stem cells in the rat brain. Nature Biotechnology, 2005, 23, 601-606. | 9.4 | 178 |
| 45 | Nonhuman primate parthenogenetic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11911-11916. | 3.3 | 176 |
| 46 | Genome-wide identification of microRNA targets in human ES cells reveals a role for miR-302 in modulating BMP response. Genes and Development, 2011, 25, 2173-2186. | 2.7 | 175 |
| 47 | Mechanics-guided embryonic patterning of neuroectoderm tissue from human pluripotent stem cells. Nature Materials, 2018, 17, 633-641. | 13.3 | 174 |
| 48 | Setting Global Standards for Stem Cell Research and Clinical Translation: TheÂ2016 ISSCR Guidelines. Stem Cell Reports, 2016, 6, 787-797. | 2.3 | 172 |
| 49 | A Modular Platform for Differentiation of Human PSCs into All Major Ectodermal Lineages. Cell Stem Cell, 2017, 21, 399-410.e7. | 5.2 | 168 |
| 50 | Parkin and PINK1 Patient iPSC-Derived Midbrain Dopamine Neurons Exhibit Mitochondrial Dysfunction and Î±-Synuclein Accumulation. Stem Cell Reports, 2016, 7, 664-677. | 2.3 | 164 |
| 51 | Ascorbic acid increases the yield of dopaminergic neurons derived from basic fibroblast growth factor expanded mesencephalic precursors. Journal of Neurochemistry, 2009, 76, 307-311. | 2.1 | 154 |
| 52 | NFIA is a gliogenic switch enabling rapid derivation of functional human astrocytes from pluripotent stem cells. Nature Biotechnology, 2019, 37, 267-275. | 9.4 | 150 |
| 53 | Programming and Reprogramming Cellular Age in the Era of Induced Pluripotency. Cell Stem Cell, 2015, 16, 591-600. | 5.2 | 147 |
| 54 | Bmi-1 cooperates with Foxg1 to maintain neural stem cell self-renewal in the forebrain. Genes and Development, 2009, 23, 561-574. | 2.7 | 146 |

| # | Article | IF | Citations |
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| 55 | Dopaminergic neuronal differentiation from rat embryonic neural precursors by Nurr1 overexpression. Journal of Neurochemistry, 2003, 85, 1443-1454. | 2.1 | 142 |
| 56 | Generation of neuropeptidergic hypothalamic neurons from human pluripotent stem cells. Development (Cambridge), 2015, 142, 633-643. | 1.2 | 131 |
| 57 | Identification of embryonic stem cellâ€"derived midbrain dopaminergic neurons for engraftment. Journal of Clinical Investigation, 2012, 122, 2928-2939. | 3.9 | 131 |
| 58 | miR-371-3 Expression Predicts Neural Differentiation Propensity in Human Pluripotent Stem Cells. Cell Stem Cell, 2011, 8, 695-706. | 5.2 | 126 |
| 59 | Generating Late-Onset Human iPSC-Based Disease Models by Inducing Neuronal Age-Related Phenotypes through Telomerase Manipulation. Cell Reports, 2016, 17, 1184-1192. | 2.9 | 126 |
| 60 | Long-Term Survival of Dopamine Neurons Derived from Parthenogenetic Primate Embryonic Stem Cells (Cyno-1) After Transplantation. Stem Cells, 2005, 23, 914-922. | 1.4 | 122 |
| 61 | In vitro generation and transplantation of precursor-derived human dopamine neurons. Journal of Neuroscience Research, 2001, 65, 284-288. | 1.3 | 121 |
| 62 | Moving Stem Cells to the Clinic: Potential and Limitations for Brain Repair. Neuron, 2015, 86, 187-206. | 3.8 | 121 |
| 63 | Pluripotent stem cell-derived epithelium misidentified as brain microvascular endothelium requires ETS factors to acquire vascular fate. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 119 |
| 64 | Fully defined human pluripotent stem cell-derived microglia and tri-culture system model C3 production in Alzheimerâ€™s disease. Nature Neuroscience, 2021, 24, 343-354. | 7.1 | 118 |
| 65 | Therapeutic cloning in individual parkinsonian mice. Nature Medicine, 2008, 14, 379-381. | 15.2 | 116 |
| 66 | Preclinical Efficacy and Safety of a Human Embryonic Stem Cell-Derived Midbrain Dopamine Progenitor Product, MSK-DA01. Cell Stem Cell, 2021, 28, 217-229.e7. | 5.2 | 116 |
| 67 | Cell Fate Plug and Play: Direct Reprogramming and Induced Pluripotency. Cell, 2011, 145, 827-830. | 13.5 | 113 |
| 68 | Pluripotent stem cells in neuropsychiatric disorders. Molecular Psychiatry, 2017, 22, 1241-1249. | 4.1 | 113 |
| 69 | Effect of BDNF on Dopaminergic, Serotonergic, and GABAergic Neurons in Cultures of Human Fetal Ventral Mesencephalon. Experimental Neurology, 1995, 133, 50-63. | 2.0 | 103 |
| 70 | Comparison of the Effects of the Neurotrophins on the Morphological Structure of Dopaminergic Neurons in Cultures of Rat Substantia Nigra. European Journal of Neuroscience, 1995, 7, 223-233. | 1.2 | 101 |
| 71 | Biphasic Activation of WNT Signaling Facilitates the Derivation of Midbrain Dopamine Neurons from hESCs for Translational Use. Cell Stem Cell, 2021, 28, 343-355.e5. | 5.2 | 100 |
| 72 | Specification of Functional Cranial Placode Derivatives from Human Pluripotent Stem Cells. Cell Reports, 2013, 5, 1387-1402. | 2.9 | 99 |

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| 73 | Lipid Deprivation Induces a Stable, Naive-to-Primed Intermediate State of Pluripotency in Human PSCs. Cell Stem Cell, 2019, 25, 120-136.e10. | 5.2 | 98 |
| 74 | Loss of SATB1 Induces p21-Dependent Cellular Senescence in Post-mitotic Dopaminergic Neurons. Cell Stem Cell, 2019, 25, 514-530.e8. | 5.2 | 96 |
| 75 | Human ESC-derived Neural Rosettes and Neural Stem Cell Progression. Cold Spring Harbor Symposia on Quantitative Biology, 2008, 73, 377-387. | 2.0 | 94 |
| 76 | Evaluation of Developmental Toxicants and Signaling Pathways in a Functional Test Based on the Migration of Human Neural Crest Cells. Environmental Health Perspectives, 2012, 120, 1116-1122. | 2.8 | 93 |
| 77 | Functional Connectivity under Optogenetic Control Allows Modeling of Human Neuromuscular Disease. Cell Stem Cell, 2016, 18, 134-143. | 5.2 | 92 |
| 78 | Inborn Errors of RNA Lariat Metabolism in Humans with Brainstem Viral Infection. Cell, 2018, 172, 952-965.e18. | 13.5 | 92 |
| 79 | Enhanced In Vitro Midbrain Dopamine Neuron Differentiation, Dopaminergic Function, Neurite Outgrowth, and 1-Methyl-4-Phenylpyridium Resistance in Mouse Embryonic Stem Cells Overexpressing Bcl-XL. Journal of Neuroscience, 2004, 24, 843-852. | 1.7 | 88 |
| 80 | Early cortical precursors do not undergo LIF-mediated astrocytic differentiation. , 2000, 59, 301-311. | | 85 |
| 81 | Prospective Isolation of Cortical Interneuron Precursors from Mouse Embryonic Stem Cells. Journal of Neuroscience, 2010, 30, 4667-4675. | 1.7 | 81 |
| 82 | Developmental chromatin programs determine oncogenic competence in melanoma. Science, 2021, 373, eabc1048. | 6.0 | 80 |
| 83 | Parthenogenetic dopamine neurons from primate embryonic stem cells restore function in experimental Parkinson's disease. Brain, 2008, 131, 2127-2139. | 3.7 | 78 |
| 84 | Human SNORA31 variations impair cortical neuron-intrinsic immunity to HSV-1 and underlie herpes simplex encephalitis. Nature Medicine, 2019, 25, 1873-1884. | 15.2 | 76 |
| 85 | BAC Transgenesis in Human Embryonic Stem Cells as a Novel Tool to Define the Human Neural Lineage. Stem Cells, 2009, 27, 521-532. | 1.4 | 75 |
| 86 | Creating Patient-Specific Neural Cells for the InÂVitro Study of Brain Disorders. Stem Cell Reports, 2015, 5, 933-945. | 2.3 | 72 |
| 87 | Dual-SMAD Inhibition/WNT Activation-Based Methods to Induce Neural Crest and Derivatives from Human Pluripotent Stem Cells. Methods in Molecular Biology, 2013, 1307, 329-343. | 0.4 | 70 |
| 88 | Strategies for bringing stem cell-derived dopamine neurons to the clinicâ€"The NYSTEM trial. Progress in Brain Research, 2017, 230, 191-212. | 0.9 | 67 |
| 89 | Pluripotent stem cell-based disease modeling: current hurdles and future promise. Current Opinion in Cell Biology, 2015, 37, 102-110. | 2.6 | 66 |
| 90 | Pluripotent Stem Cell Therapies for Parkinson Disease: Present Challenges and Future Opportunities. Frontiers in Cell and Developmental Biology, 2020, 8, 729. | 1.8 | 65 |

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|---|---|---|---|
| 91 | Maturation of Spinal Motor Neurons Derived from Human Embryonic Stem Cells. PLoS ONE, 2012, 7, e40154. | 1.1 | 64 |
| 92 | TLR3 controls constitutive IFN-Î² antiviral immunity in human fibroblasts and cortical neurons. Journal of Clinical Investigation, 2021, 131, . | 3.9 | 64 |
| 93 | Adapting human pluripotent stem cells to high-throughput and high-content screening. Nature Protocols, 2013, 8, 111-130. | 5.5 | 62 |
| 94 | The expanding role of miR-302â€“367 in pluripotency and reprogramming. Cell Cycle, 2012, 11, 1517-1523. | 1.3 | 61 |
| 95 | TCF3 alternative splicing controlled by hnRNP H/F regulates E-cadherin expression and hESC pluripotency. Genes and Development, 2018, 32, 1161-1174. | 2.7 | 60 |
| 96 | A mathematical model for the estimation of human embryonic and fetal age. Cell Transplantation, 1996, 5, 453-464. | 1.2 | 58 |
| 97 | Capturing the biology of disease severity in a PSC-based model of familial dysautonomia. Nature Medicine, 2016, 22, 1421-1427. | 15.2 | 58 |
| 98 | Human iPSC-derived trigeminal neurons lack constitutive TLR3-dependent immunity that protects cortical neurons from HSV-1 infection. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8775-E8782. | 3.3 | 58 |
| 99 | Derivation of dopaminergic neurons from pluripotent stem cells. Progress in Brain Research, 2012, 200, 243-263. | 0.9 | 56 |
| 100 | A Multiplex Human Pluripotent Stem Cell Platform Defines Molecular and Functional Subclasses of Autism-Related Genes. Cell Stem Cell, 2020, 27, 35-49.e6. | 5.2 | 56 |
| 101 | Acquisition of in vitro and in vivo functionality of Nurr1â€induced dopamine neurons. FASEB Journal, 2006, 20, 2553-2555. | 0.2 | 54 |
| 102 | Embryonic Stem Cell-Derived Neurons Form Functional Networks In Vitro. Stem Cells, 2007, 25, 738-749. | 1.4 | 51 |
| 103 | Derivation of Diverse Hormone-Releasing Pituitary Cells from Human Pluripotent Stem Cells. Stem Cell Reports, 2016, 6, 858-872. | 2.3 | 50 |
| 104 | Induced pluripotent stem cell technology for the study of human disease. Nature Methods, 2010, 7, 25-27. | 9.0 | 48 |
| 105 | G-Force PD: a global initiative in coordinating stem cell-based dopamine treatments for Parkinsonâ€™s disease. Npj Parkinson's Disease, 2015, 1, 15017. | 2.5 | 48 |
| 106 | Transplanted dopamine neurons derived from primate ES cells preferentially innervate DARPP-32 striatal progenitors within the graft. European Journal of Neuroscience, 2006, 24, 1885-1896. | 1.2 | 46 |
| 107 | Derivation of enteric neuron lineages from human pluripotent stem cells. Nature Protocols, 2019, 14, 1261-1279. | 5.5 | 46 |
| 108 | The epichaperome is a mediator of toxic hippocampal stress and leads to protein connectivity-based dysfunction. Nature Communications, 2020, 11, 319. | 5.8 | 46 |

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| 109 | ZFX Controls the Self-Renewal of Human Embryonic Stem Cells. PLoS ONE, 2012, 7, e42302. | 1.1 | 46 |
| 110 | Noninvasive dopamine determination by reversed phase HPLC in the medium of free-floating roller tube cultures of rat fetal ventral mesencephalon: A tool to assess dopaminergic tissue prior to grafting. Brain Research Bulletin, 1996, 41, 143-150. | 1.4 | 44 |
| 111 | Anatomic position determines oncogenic specificity in melanoma. Nature, 2022, 604, 354-361. | 13.7 | 44 |
| 112 | New ISSCR guidelines: clinical translation of stem cell research. Lancet, The, 2016, 387, 1979-1981. | 6.3 | 42 |
| 113 | Long-term survival of dopaminergic neurones in free-floating roller tube cultures of human fetal ventral mesencephalon. Journal of Neuroscience Methods, 1994, 54, 63-73. | 1.3 | 41 |
| 114 | Policy: Global standards for stem-cell research. Nature, 2016, 533, 311-313. | 13.7 | 41 |
| 115 | HSP90-incorporating chaperome networks as biosensor for disease-related pathways in patient-specific midbrain dopamine neurons. Nature Communications, 2018, 9, 4345. | 5.8 | 40 |
| 116 | Cancer modeling by Transgene Electroporation in Adult Zebrafish (TEAZ). DMM Disease Models and Mechanisms, 2018, 11, . | 1.2 | 40 |
| 117 | Human stem cell models of neurodegeneration: From basic science of amyotrophic lateral sclerosis to clinical translation. Cell Stem Cell, 2022, 29, 11-35. | 5.2 | 39 |
| 118 | Effects of brain-derived neurotrophic factor on neuronal structure of dopaminergic neurons in dissociated cultures of human fetal mesencephalon. Experimental Brain Research, 1996, 108, 328-36. | 0.7 | 38 |
| 119 | When rejuvenation is a problem: challenges of modeling late-onset neurodegenerative disease. Development (Cambridge), 2015, 142, 3085-3089. | 1.2 | 38 |
| 120 | Back and forth in time: Directing age in iPSC-derived lineages. Brain Research, 2017, 1656, 14-26. | 1.1 | 38 |
| 121 | DNA replication timing alterations identify common markers between distinct progeroid diseases. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10972-E10980. | 3.3 | 36 |
| 122 | NGF increases neuritic complexity of cholinergic interneurons in organotypic cultures of neonatal rat striatum. Journal of Comparative Neurology, 1994, 340, 281-296. | 0.9 | 35 |
| 123 | Human stem cell models to study hostâ€"virus interactions in the central nervous system. Nature Reviews Immunology, 2021, 21, 441-453. | 10.6 | 35 |
| 124 | Production of Green Fluorescent Protein Transgenic Embryonic Stem Cells Using the GENSAT Bacterial Artificial Chromosome Library. Stem Cells, 2007, 25, 39-45. | 1.4 | 34 |
| 125 | Converting Human Pluripotent Stem Cells to Neural Tissue and Neurons to Model Neurodegeneration. Methods in Molecular Biology, 2011, 793, 87-97. | 0.4 | 34 |
| 126 | Modelling familial dysautonomia in human induced pluripotent stem cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 2286-2296. | 1.8 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Making and repairing the mammalian brainâ€"in vitro production of dopaminergic neurons. Seminars in Cell and Developmental Biology, 2003, 14, 181-189. | 2.3 | 32 |
| 128 | Comparison of the topology and growth rules of motoneuronal dendrites. Journal of Comparative Neurology, 1995, 363, 505-516. | 0.9 | 29 |
| 129 | Stem cells with brainpower. Nature Biotechnology, 2001, 19, 1117-1118. | 9.4 | 29 |
| 130 | A hPSC-based platform to discover gene-environment interactions that impact human Î²-cell and dopamine neuron survival. Nature Communications, 2018, 9, 4815. | 5.8 | 29 |
| 131 | Fetal ventral mesencephalon of human and rat origin maintained in vitro and transplanted to 6-hydroxydopamine-lesioned rats gives rise to grafts rich in dopaminergic neurons. Experimental Brain Research, 1996, 112, 47-57. | 0.7 | 27 |
| 132 | Retinoic Acid-Mediated Regulation of GLI3 Enables Efficient Motoneuron Derivation from Human ESCs in the Absence of Extrinsic SHH Activation. Journal of Neuroscience, 2015, 35, 11462-11481. | 1.7 | 27 |
| 133 | Activation of HERV-K(HML-2) disrupts cortical patterning and neuronal differentiation by increasing NTRK3. Cell Stem Cell, 2021, 28, 1566-1581.e8. | 5.2 | 27 |
| 134 | Optical bioluminescence imaging of human ES cell progeny in the rodent CNS. Journal of Neurochemistry, 2007, 102, 2029-2039. | 2.1 | 26 |
| 135 | Cellular Reprogramming: Recent Advances in Modeling Neurological Diseases. Journal of Neuroscience, 2011, 31, 16070-16075. | 1.7 | 25 |
| 136 | Single-Molecule Analysis Reveals Changes in the DNA Replication Program for the <i>POU5F1</i> Locus upon Human Embryonic Stem Cell Differentiation. Molecular and Cellular Biology, 2010, 30, 4521-4534. | 1.1 | 24 |
| 137 | Lessons Learned from Pioneering Neural Stem Cell Studies. Stem Cell Reports, 2017, 8, 191-193. | 2.3 | 24 |
| 138 | Expression profiling of lineage differentiation in pluripotential human embryonal carcinoma cells. Cell Growth & Differentiation: the Molecular Biology Journal of the American Association for Cancer Research, 2002, 13, 257-64. | 0.8 | 24 |
| 139 | Protocols for Generating ES Cell-Derived Dopamine Neurons. Advances in Experimental Medicine and Biology, 2009, 651, 101-111. | 0.8 | 21 |
| 140 | Therapeutic manipulation of IKBKAP mis-splicing with a small molecule to cure familial dysautonomia. Nature Communications, 2021, 12, 4507. | 5.8 | 21 |
| 141 | Transcriptional program of bone morphogenetic protein-2-induced epithelial and smooth muscle differentiation of pluripotent human embryonal carcinoma cells. Functional and Integrative Genomics, 2005, 5, 59-69. | 1.4 | 20 |
| 142 | Build-a-Brain. Cell Stem Cell, 2013, 13, 377-378. | 5.2 | 20 |
| 143 | Enhancement of Polysialic Acid Expression Improves Function of Embryonic Stem-Derived Dopamine Neuron Grafts in Parkinsonian Mice. Stem Cells Translational Medicine, 2014, 3, 108-113. | 1.6 | 19 |
| 144 | Deciphering Human Cell-Autonomous Anti-HSV-1 Immunity in the Central Nervous System. Frontiers in Immunology, 2015, 6, 208. | 2.2 | 19 |

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| 145 | Comparison of three congruent patient-specific cell types for the modelling of a human genetic Schwann-cell disorder. Nature Biomedical Engineering, 2019, 3, 571-582. | 11.6 | 18 |
| 146 | Induced pluripotent stem cells: a tool for modeling Parkinsonâ€™s disease. Trends in Neurosciences, 2022, 45, 608-620. | 4.2 | 17 |
| 147 | Feeder-free Derivation of Neural Crest Progenitor Cells from Human Pluripotent Stem Cells. Journal of Visualized Experiments, 2014, , . | 0.2 | 16 |
| 148 | Epigenetic control of melanoma cell invasiveness by the stem cell factor SALL4. Nature Communications, 2021, 12, 5056. | 5.8 | 15 |
| 149 | Aging in iPS cells. Aging, 2014, 6, 246-247. | 1.4 | 15 |
| 150 | Neuron-intrinsic immunity to viruses in mice and humans. Current Opinion in Immunology, 2021, 72, 309-317. | 2.4 | 14 |
| 151 | Constitutive Gene Expression Predisposes Morphogen-Mediated Cell Fate Responses of NT2/D1 and 27X-1 Human Embryonal Carcinoma Cells. Stem Cells, 2007, 25, 771-778. | 1.4 | 12 |
| 152 | Accelerated transsulfuration metabolically defines a discrete subclass of amyotrophic lateral sclerosis patients. Neurobiology of Disease, 2020, 144, 105025. | 2.1 | 12 |
| 153 | Culture of Substantia Nigra Neurons. Current Protocols in Neuroscience, 1997, 00, 3.3.1-3.3.12. | 2.6 | 11 |
| 154 | Targeting Homologous Recombination in Notch-Driven C. elegans Stem Cell and Human Tumors. PLoS ONE, 2015, 10, e0127862. | 1.1 | 11 |
| 155 | A Cell Engineering Strategy to Enhance the Safety of Stem Cell Therapies. Cell Reports, 2014, 8, 1677-1685. | 2.9 | 9 |
| 156 | Wnt1 Overexpression Leads to Enforced Cardiomyogenesis and Inhibition of Hematopoiesis in Murine Embryonic Stem Cells. Stem Cells and Development, 2010, 19, 745-751. | 1.1 | 8 |
| 157 | Too much Sonic, too few neurons. Nature Neuroscience, 2009, 12, 107-108. | 7.1 | 7 |
| 158 | The Polycomb Group Protein L3MBTL1 Represses a SMAD5-Mediated Hematopoietic Transcriptional Program in Human Pluripotent Stem Cells. Stem Cell Reports, 2015, 4, 658-669. | 2.3 | 7 |
| 159 | Neural Crest Cells from Dual SMAD Inhibition. Current Protocols in Stem Cell Biology, 2015, 33, 1H.9.1-1H.9.9. | 3.0 | 6 |
| 160 | Feeder-free Derivation of Melanocytes from Human Pluripotent Stem Cells. Journal of Visualized Experiments, 2016, , e53806. | 0.2 | 6 |
| 161 | Mesenchymal Cells. Methods in Enzymology, 2006, 418, 194-208. | 0.4 | 5 |
| 162 | Early cortical precursors do not undergo LIF-mediated astrocytic differentiationThis article is a US Government work and, as such, is in the public domain in the United States of America.. Journal of Neuroscience Research, 2000, 59, 301. | 1.3 | 5 |

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| 163 | Parkinsonâ€™s disease grafts benefit from well-timed growth factor. Nature, 2020, 582, 39-40. | 13.7 | 5 |
| 164 | Experimental Transplantation in the Embryonic, Neonatal, and Adult Mammalian Brain. Current Protocols in Neuroscience, 1997, 1, 3.10.1-3.10.28. | 2.6 | 4 |
| 165 | Excessive mobility interrupted. Nature, 2010, 468, 383-384. | 13.7 | 4 |
| 166 | Therapeutic Transgene Expression From Genomic Safe Harbors In Patient-Specific Induced Pluripotent Stem Cells. Blood, 2010, 116, 564-564. | 0.6 | 4 |
| 167 | Embryonic stem cell therapy for intractable epilepsy. Epilepsia, 2010, 51, 93-93. | 2.6 | 3 |
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