# Shinsuke Shibata

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 98 papers | 6,626 citations | 81900 39 h-index | 66911 78 g-index |
| 101 all docs | 101 docs citations | 101 times ranked | 9573 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A selective Sema3A inhibitor enhances regenerative responses and functional recovery of the injured spinal cord. Nature Medicine, 2006, 12, 1380-1389. | 30.7 | 368 |
| 2 | Function of RNA-binding protein Musashi-1 in stem cells. Experimental Cell Research, 2005, 306, 349-356. | 2.6 | 356 |
| 3 | Ontogeny and Multipotency of Neural Crest-Derived Stem Cells in Mouse Bone Marrow, Dorsal Root Ganglia, and Whisker Pad. Cell Stem Cell, 2008, 2, 392-403. | 11.1 | 347 |
| 4 | Sema3A regulates bone-mass accrual through sensory innervations. Nature, 2013, 497, 490-493. | 27.8 | 329 |
| 5 | RNA-binding protein Musashi family: Roles for CNS stem cells and a subpopulation of ependymal cells revealed by targeted disruption and antisense ablation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15194-15199. | 7.1 | 320 |
| 6 | Dysfunction of fibroblasts of extrarenal origin underlies renal fibrosis and renal anemia in mice. Journal of Clinical Investigation, 2011, 121, 3981-3990. | 8.2 | 307 |
| 7 | Novel bile acid biosynthetic pathways are enriched in the microbiome of centenarians. Nature, 2021, 599, 458-464. | 27.8 | 251 |
| 8 | SAMD9 mutations cause a novel multisystem disorder, MIRAGE syndrome, and are associated with loss of chromosome 7. Nature Genetics, 2016, 48, 792-797. | 21.4 | 243 |
| 9 | Visualization of peripheral nerve degeneration and regeneration: Monitoring with diffusion tensor tractography. NeuroImage, 2009, 44, 884-892. | 4.2 | 229 |
| 10 | The Neural Stem/Progenitor Cell Marker Nestin Is Expressed in Proliferative Endothelial Cells, but Not in Mature Vasculature. Journal of Histochemistry and Cytochemistry, 2010, 58, 721-730. | 2.5 | 199 |
| 11 | The RNA-binding protein HuD regulates neuronal cell identity and maturation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4625-4630. | 7.1 | 196 |
| 12 | Grafted Human iPS Cell-Derived Oligodendrocyte Precursor Cells Contribute to Robust Remyelination of Demyelinated Axons after Spinal Cord Injury. Stem Cell Reports, 2016, 6, 1-8. | 4.8 | 168 |
| 13 | Blockade of interleukin-6 signaling suppressed cochlear inflammatory response and improved hearing impairment in noise-damaged mice cochlea. Neuroscience Research, 2010, 66, 345-352. | 1.9 | 159 |
| 14 | SOX10 is a novel marker of acinus and intercalated duct differentiation in salivary gland tumors: a clue to the histogenesis for tumor diagnosis. Modern Pathology, 2013, 26, 1041-1050. | 5.5 | 146 |
| 15 | Hepatocyte growth factor promotes endogenous repair and functional recovery after spinal cord injury. Journal of Neuroscience Research, 2007, 85, 2332-2342. | 2.9 | 144 |
| 16 | Significance of Remyelination by Neural Stem/Progenitor Cells Transplanted into the Injured Spinal Cord. Stem Cells, 2011, 29, 1983-1994. | 3.2 | 129 |
| 17 | The liverâ€“brainâ€“gut neural arc maintains the Treg cell niche in the gut. Nature, 2020, 585, 591-596. | 27.8 | 126 |
| 18 | Image-based detection and targeting of therapy resistance in pancreatic adenocarcinoma. Nature, 2016, 534, 407-411. | 27.8 | 114 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Roles of ES Cell-Derived Gliogenic Neural Stem/Progenitor Cells in Functional Recovery after Spinal Cord Injury. PLoS ONE, 2009, 4, e7706. | 2.5 | 109 |
| 20 | Spinal cord injury: Emerging beneficial role of reactive astrocytesâ€™ migration. International Journal of Biochemistry and Cell Biology, 2008, 40, 1649-1653. | 2.8 | 101 |
| 21 | Involvement of ER Stress in Dysmyelination of Pelizaeus-Merzbacher Disease with PLP1 Missense Mutations Shown by iPSC-Derived Oligodendrocytes. Stem Cell Reports, 2014, 2, 648-661. | 4.8 | 100 |
| 22 | Human Oligodendrogenic Neural Progenitor Cells Delivered with Chondroitinase ABC Facilitate Functional Repair of Chronic Spinal Cord Injury. Stem Cell Reports, 2018, 11, 1433-1448. | 4.8 | 81 |
| 23 | Human Spinal Oligodendrogenic Neural Progenitor Cells Promote Functional Recovery After Spinal Cord Injury by Axonal Remyelination and Tissue Sparing. Stem Cells Translational Medicine, 2018, 7, 806-818. | 3.3 | 76 |
| 24 | Neural stem cell mediated recovery is enhanced by Chondroitinase ABC pretreatment in chronic cervical spinal cord injury. PLoS ONE, 2017, 12, e0182339. | 2.5 | 73 |
| 25 | Sox10- Venus mice: a new tool for real-time labeling of neural crest lineage cells and oligodendrocytes. Molecular Brain, 2010, 3, 31. | 2.6 | 70 |
| 26 | Fbxo45, a Novel Ubiquitin Ligase, Regulates Synaptic Activity. Journal of Biological Chemistry, 2010, 285, 3840-3849. | 3.4 | 69 |
| 27 | Selective Ablation of Tumorigenic Cells Following Human Induced Pluripotent Stem Cell-Derived Neural Stem/Progenitor Cell Transplantation in Spinal Cord Injury. Stem Cells Translational Medicine, 2019, 8, 260-270. | 3.3 | 68 |
| 28 | Treatment with a Gamma-Secretase Inhibitor Promotes Functional Recovery in Human iPSC- Derived Transplants for Chronic Spinal Cord Injury. Stem Cell Reports, 2018, 11, 1416-1432. | 4.8 | 66 |
| 29 | YAP-dependent necrosis occurs in early stages of Alzheimerâ€™s disease and regulates mouse model pathology. Nature Communications, 2020, 11, 507. | 12.8 | 62 |
| 30 | Allogeneic Neural Stem/Progenitor Cells Derived From Embryonic Stem Cells Promote Functional Recovery After Transplantation Into Injured Spinal Cord of Nonhuman Primates. Stem Cells Translational Medicine, 2015, 4, 708-719. | 3.3 | 58 |
| 31 | GDNF rescues the fate of neural progenitor grafts by attenuating Notch signals in the injured spinal cord in rodents. Science Translational Medicine, 2020, 12, . | 12.4 | 57 |
| 32 | Beneficial compaction of spinal cord lesion by migrating astrocytes through glycogen synthase kinaseâ€3 inhibition. EMBO Molecular Medicine, 2011, 3, 682-696. | 6.9 | 56 |
| 33 | Application ofq-Space Diffusion MRI for the Visualization of White Matter. Journal of Neuroscience, 2016, 36, 2796-2808. | 3.6 | 56 |
| 34 | Expression of RNA-Binding Protein Musashi in Hair Follicle Development and Hair Cycle Progression. American Journal of Pathology, 2006, 168, 80-92. | 3.8 | 55 |
| 35 | Combined treatment with chondroitinase ABC and treadmill rehabilitation for chronic severe spinal cord injury in adult rats. Neuroscience Research, 2016, 113, 37-47. | 1.9 | 53 |
| 36 | Cell therapy for spinal cord injury by using human iPSC-derived region-specific neural progenitor cells. Molecular Brain, 2020, 13, 120. | 2.6 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Rewiring of regenerated axons by combining treadmill training with semaphorin3A inhibition. Molecular Brain, 2014, 7, 14. | 2.6 | 45 |
| 38 | Neural crestâ€derived stem cells display a wide variety of characteristics. Journal of Cellular Biochemistry, 2009, 107, 1046-1052. | 2.6 | 44 |
| 39 | Enhanced Functional Recovery from Spinal Cord Injury in Aged Mice after Stem Cell Transplantation through HGF Induction. Stem Cell Reports, 2017, 8, 509-518. | 4.8 | 43 |
| 40 | Stem cells purified from human induced pluripotent stem cell-derived neural crest-like cells promote peripheral nerve regeneration. Scientific Reports, 2018, 8, 10071. | 3.3 | 39 |
| 41 | Very-long-chain fatty acid elongase Elo2 rescues lethal defects associated with loss of the nuclear barrier function. Journal of Cell Science, 2019, 132, . | 2.0 | 38 |
| 42 | Musashi-1, an RNA-binding protein, is indispensable for survival of photoreceptors. Experimental Eye Research, 2009, 88, 347-355. | 2.6 | 37 |
| 43 | In UteroExposure to Valproic Acid Induces Neocortical Dysgenesis via Dysregulation of Neural Progenitor Cell Proliferation/Differentiation. Journal of Neuroscience, 2016, 36, 10908-10919. | 3.6 | 37 |
| 44 | Skin-Derived Precursors as a Source of Progenitors for Corneal Endothelial Regeneration. Stem Cells Translational Medicine, 2017, 6, 788-798. | 3.3 | 37 |
| 45 | The Semaphorin 3A Inhibitor SM-345431 Accelerates Peripheral Nerve Regeneration and Sensitivity in a Murine Corneal Transplantation Model. PLoS ONE, 2012, 7, e47716. | 2.5 | 35 |
| 46 | Long-term selective stimulation of transplanted neural stem/progenitor cells for spinal cord injury improves locomotor function. Cell Reports, 2021, 37, 110019. | 6.4 | 34 |
| 47 | Global gene expression analysis following spinal cord injury in non-human primates. Experimental Neurology, 2014, 261, 171-179. | 4.1 | 33 |
| 48 | Schwann cell plasticity after spinal cord injury shown by neural crest lineage tracing. Glia, 2011, 59, 771-784. | 4.9 | 31 |
| 49 | Induction of neural crest cells from mouse embryonic stem cells in a serum-free monolayer culture. International Journal of Developmental Biology, 2010, 54, 1287-1294. | 0.6 | 30 |
| 50 | Functional brain mapping using specific sensory-circuit stimulation and a theoretical graph network analysis in mice with neuropathic allodynia. Scientific Reports, 2016, 6, 37802. | 3.3 | 30 |
| 51 | A Human Induced Pluripotent Stem Cell-Derived Tissue Model of a Cerebral Tract Connecting Two Cortical Regions. IScience, 2019, 14, 301-311. | 4.1 | 30 |
| 52 | The orientation of a decellularized uterine scaffold determines the tissue topology and architecture of the regenerated uterus in ratsâ€. Biology of Reproduction, 2019, 100, 1215-1227. | 2.7 | 30 |
| 53 | Lem2 and Lnp1 maintain the membrane boundary between the nuclear envelope and endoplasmic reticulum. Communications Biology, 2020, 3, 276. | 4.4 | 29 |
| 54 | Modulation by DREADD reveals the therapeutic effect of human iPSC-derived neuronal activity on functional recovery after spinal cord injury. Stem Cell Reports, 2022, 17, 127-142. | 4.8 | 29 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Musashi-1 Post-Transcriptionally Enhances Phosphotyrosine-Binding Domain-Containing m-Numb Protein Expression in Regenerating Gastric Mucosa. PLoS ONE, 2013, 8, e53540. | 2.5 | 26 |
| 56 | Senescenceâ€associated secretory phenotype promotes chronic ocular graftâ€vsâ€host disease in mice and humans. FASEB Journal, 2020, 34, 10778-10800. | 0.5 | 26 |
| 57 | FGF2 antagonizes aberrant TGFÎ² regulation of tropomyosin: role for posterior capsule opacity. Journal of Cellular and Molecular Medicine, 2017, 21, 916-928. | 3.6 | 25 |
| 58 | Novel In Vivo Imaging Analysis of an Inner Ear Drug Delivery System in Mice: Comparison of Inner Ear Drug Concentrations over Time after Transtympanic and Systemic Injections. PLoS ONE, 2012, 7, e48480. | 2.5 | 23 |
| 59 | Connectomics: comprehensive approaches for whole-brain mapping. Microscopy (Oxford, England), 2015, 64, 57-67. | 1.5 | 22 |
| 60 | Large-Area Fluorescence and Electron Microscopic Correlative Imaging With Multibeam Scanning Electron Microscopy. Frontiers in Neural Circuits, 2019, 13, 29. | 2.8 | 22 |
| 61 | Pathological processes in aqueous humor due to iris atrophy predispose to early corneal graft failure in humans and mice. Science Advances, 2020, 6, eaaz5195. | 10.3 | 22 |
| 62 | A robust culture system to generate neural progenitors with gliogenic competence from clinically relevant induced pluripotent stem cells for treatment of spinal cord injury. Stem Cells Translational Medicine, 2021, 10, 398-413. | 3.3 | 22 |
| 63 | Sustained bFGF-Release Tubes for Peripheral Nerve Regeneration. Plastic and Reconstructive Surgery, 2012, 130, 866-876. | 1.4 | 21 |
| 64 | Immuno-Electron Microscopy and Electron Microscopic In Situ Hybridization for Visualizing piRNA Biogenesis Bodies in Drosophila Ovaries. Methods in Molecular Biology, 2015, 1328, 163-178. | 0.9 | 21 |
| 65 | Cell surface Nâ€glycans mediated isolation of mouse neural stem cells. Journal of Neurochemistry, 2009, 110, 1575-1584. | 3.9 | 20 |
| 66 | Characterization of the RNA-binding protein Musashi1 in zebrafish. Brain Research, 2012, 1462, 162-173. | 2.2 | 20 |
| 67 | LNGFR+THY-1+ human pluripotent stem cell-derived neural crest-like cells have the potential to develop into mesenchymal stem cells. Differentiation, 2016, 92, 270-280. | 1.9 | 20 |
| 68 | Tropomyosin 2 heterozygous knockout in mice using CRISPR-Cas9 system displays the inhibition of injury-induced epithelial-mesenchymal transition, and lens opacity. Mechanisms of Ageing and Development, 2018, 171, 24-30. | 4.6 | 19 |
| 69 | Correlative study using structural MRI and super-resolution microscopy to detect structural alterations induced by long-term optogenetic stimulation of striatal medium spiny neurons. Neurochemistry International, 2019, 125, 163-174. | 3.8 | 18 |
| 70 | MRI Characterization of Paranodal Junction Failure and Related Spinal Cord Changes in Mice. PLoS ONE, 2012, 7, e52904. | 2.5 | 16 |
| 71 | Migration and differentiation of transplanted enteric neural crest-derived cells in murine model of Hirschsprungâ€™s disease. Cytotechnology, 2015, 67, 661-670. | 1.6 | 16 |
| 72 | The role of Prdx6 in the protection of cells of the crystalline lens from oxidative stress induced by UV exposure. Japanese Journal of Ophthalmology, 2016, 60, 408-418. | 1.9 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Innervation of the tibial epiphysis through the intercondylar foramen. Bone, 2019, 120, 297-304. | 2.9 | 16 |
| 74 | Gene expression ontogeny of spermatogenesis in the marmoset uncovers primate characteristics during testicular development. Developmental Biology, 2015, 400, 43-58. | 2.0 | 15 |
| 75 | Cytokine Levels in the Aqueous Humor Are Associated With Corneal Thickness in Eyes With Bullous Keratopathy. American Journal of Ophthalmology, 2019, 198, 174-180. | 3.3 | 14 |
| 76 | Transfected plasmid DNA is incorporated into the nucleus via nuclear envelope reformation at telophase. Communications Biology, 2022, 5, 78. | 4.4 | 14 |
| 77 | Schwann-Spheres Derived from Injured Peripheral Nerves in Adult Mice - Their In Vitro Characterization and Therapeutic Potential. PLoS ONE, 2011, 6, e21497. | 2.5 | 13 |
| 78 | Expression and Function of Sox21 During Mouse Cochlea Development. Neurochemical Research, 2011, 36, 1261-1269. | 3.3 | 12 |
| 79 | Optical simulation for subsurface nanoglistening. Journal of Cataract and Refractive Surgery, 2015, 41, 193-198. | 1.5 | 12 |
| 80 | The Japan Monkey Centre Primates Brain Imaging Repository for comparative neuroscience: an archive of digital records including records for endangered species. Primates, 2018, 59, 553-570. | 1.1 | 12 |
| 81 | The adeno-associated virus rh10 vector is an effective gene transfer system for chronic spinal cord injury. Scientific Reports, 2019, 9, 9844. | 3.3 | 12 |
| 82 | Obesity-induced kidney injury is attenuated by amelioration of aberrant PHD2 activation in proximal tubules. Scientific Reports, 2016, 6, 36533. | 3.3 | 11 |
| 83 | Brief exposure to small molecules allows induction of mouse embryonic fibroblasts into neural crestâ€like precursors. FEBS Letters, 2017, 591, 590-602. | 2.8 | 11 |
| 84 | Ocular Surface and Tear Film Characteristics in a Sclerodermatous Chronic Graft-Versus-Host Disease Mouse Model. Cornea, 2018, 37, 486-494. | 1.7 | 11 |
| 85 | Novel inÂvivo imaging analysis of an inner ear drug delivery system: Drug availability in inner ear following different dose of systemic drug injections. Hearing Research, 2015, 330, 142-146. | 2.0 | 9 |
| 86 | Fluorescence Visualization of the Enteric Nervous Network in a Chemically Induced Aganglionosis Model. PLoS ONE, 2016, 11, e0150579. | 2.5 | 9 |
| 87 | Applications of Mesenchymal Stem Cells and Neural Crest Cells in Craniofacial Skeletal Research. Stem Cells International, 2016, 2016, 1-8. | 2.5 | 8 |
| 88 | Polyvinyl alcohol-iodine induced corneal epithelial injury in vivo and its protection by topical rebamipide treatment. PLoS ONE, 2018, 13, e0208198. | 2.5 | 7 |
| 89 | Ddx20, <scp>DEAD</scp> box helicase 20, is essential for the differentiation of oligodendrocyte and maintenance of myelin gene expression. Glia, 2021, 69, 2559-2574. | 4.9 | 7 |
| 90 | Eyelid blood vessel and meibomian gland changes in a sclerodermatous chronic GVHD mouse model. Ocular Surface, 2022, 26, 328-341. | 4.4 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Development of Human Gut Organoids With Resident Tissue Macrophages as a Model of Intestinal Immune Responses. Cellular and Molecular Gastroenterology and Hepatology, 2022, 14, 726-729.e5. | 4.5 | 6 |
| 92 | Sustained Effect of Hyaluronic Acid in Subcutaneous Administration to the Cochlear Spiral Ganglion. PLoS ONE, 2016, 11, e0153957. | 2.5 | 5 |
| 93 | Administration of C5a Receptor Antagonist Improves the Efficacy of Human Induced Pluripotent Stem Cellâ€"Derived Neural Stem/Progenitor Cell Transplantation in the Acute Phase of Spinal Cord Injury. Journal of Neurotrauma, 2022, 39, 667-682. | 3.4 | 5 |
| 94 | Critical roles of FGF, RA, and WNT signalling in the development of the human otic placode and subsequent lineages in a dish. Regenerative Therapy, 2022, 20, 165-186. | 3.0 | 4 |
| 95 | Regulation of Fetal Genes by Transitions among RNA-Binding Proteins during Liver Development. International Journal of Molecular Sciences, 2020, 21, 9319. | 4.1 | 3 |
| 96 | Macrophages fine-tune pupil shape during development. Developmental Biology, 2020, 464, 137-144. | 2.0 | 1 |
| 97 | Glycosaminoglycans promote osteogenesis from human induced pluripotent stem cells via neural crest induction. Biochemical and Biophysical Research Communications, 2022, 603, 49-56. | 2.1 | 1 |
| 98 | <p>Sequential Matrix Metalloproteinase-1 Expression Triggered by Infiltrating Monocytic Lineage Cells Modulates Pathophysiological Aspects of Human Nonalcoholic Steatohepatitis</p>. Metalloproteinases in Medicine, 0, Volume 7, 1-13. | 1.0 | 0 |