# Developmental diversification of cortical inhibitory int

Nature

555, 457-462

DOI: 10.1038/nature25999

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Integrating single-cell transcriptomic data across different conditions, technologies, and species. Nature Biotechnology, 2018, 36, 411-420. | 9.4 | 8,878 |
| 2 | Brain Theranostics and Radiotheranostics: Exosomes and Graphenes In Vivo as Novel Brain Theranostics. Nuclear Medicine and Molecular Imaging, 2018, 52, 407-419. | 0.6 | 8 |
| 3 | Single-Cell RNA-Seq of Mouse Olfactory Bulb Reveals Cellular Heterogeneity and Activity-Dependent Molecular Census of Adult-Born Neurons. Cell Reports, 2018, 25, 2689-2703.e3. | 2.9 | 109 |
| 4 | In vivo pulse labeling of isochronic cohorts of cells in the central nervous system using FlashTag. Nature Protocols, 2018, 13, 2297-2311. | 5.5 | 50 |
| 5 | Rbfox1 Mediates Cell-type-Specific Splicing in Cortical Interneurons. Neuron, 2018, 100, 846-859.e7. | 3.8 | 92 |
| 6 | Development and Functional Diversification of Cortical Interneurons. Neuron, 2018, 100, 294-313. | 3.8 | 470 |
| 7 | Decoding neuronal diversity in the developing cerebral cortex: from single cells to functional networks. Current Opinion in Neurobiology, 2018, 53, 146-155. | 2.0 | 25 |
| 8 | Transcriptional Convergence of Oligodendrocyte Lineage Progenitors during Development. Developmental Cell, 2018, 46, 504-517.e7. | 3.1 | 199 |
| 9 | More than one way to induce a neuron. Nature, 2018, 557, 316-317. | 13.7 | 3 |
| 10 | Developing neurons are innately inclined to learn on the job. Nature, 2018, 560, 39-40. | 13.7 | 3 |
| 11 | Homochronic Transplantation of Interneuron Precursors into Early Postnatal Mouse Brains. Journal of Visualized Experiments, 2018, , . | 0.2 | 0 |
| 12 | A mixed model of neuronal diversity. Nature, 2018, 555, 452-454. | 13.7 | 15 |
| 13 | Novel insights into the spatial and temporal complexity of hypothalamic organization through precision methods allowing nanoscale resolution. Journal of Internal Medicine, 2018, 284, 568-580. | 2.7 | 4 |
| 14 | Regulation of Neuronal Differentiation, Function, and Plasticity by Alternative Splicing. Annual Review of Cell and Developmental Biology, 2018, 34, 451-469. | 4.0 | 108 |
| 15 | Single cell transcriptomics in neuroscience: cell classification and beyond. Current Opinion in Neurobiology, 2018, 50, 242-249. | 2.0 | 71 |
| 16 | A cellular passage to the root interior. Nature, 2018, 555, 454-455. | 13.7 | 2 |
| 17 | In situ transcriptome characteristics are lost following culture adaptation of adult cardiac stem cells. Scientific Reports, 2018, 8, 12060. | 1.6 | 30 |
| 18 | Contributions of Single-Cell Approaches for Probing Heterogeneity and Dynamics of Neural Progenitors Throughout Life: Concise Review. Stem Cells, 2019, 37, 1381-1388. | 1.4 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Genomic Resolution of DLX-Orchestrated Transcriptional Circuits Driving Development of Forebrain GABAergic Neurons. Cell Reports, 2019, 28, 2048-2063.e8. | 2.9 | 68 |
| 20 | InÂVivo Single-Cell Genotyping of Mouse Cortical Neurons Transfected with CRISPR/Cas9. Cell Reports, 2019, 28, 325-331.e4. | 2.9 | 5 |
| 21 | Genetic diversity underlying behavioral plasticity in human adaptation. Progress in Brain Research, 2019, 250, 41-58. | 0.9 | 2 |
| 22 | Tsc1 represses parvalbumin expression and fast-spiking properties in somatostatin lineage cortical interneurons. Nature Communications, 2019, 10, 4994. | 5.8 | 39 |
| 23 | Current best practices in singleâ€cell RNAâ€seq analysis: a tutorial. Molecular Systems Biology, 2019, 15, e8746. | 3.2 | 1,322 |
| 24 | Landscape of ribosome-engaged transcript isoforms reveals extensive neuronal-cell-class-specific alternative splicing programs. Nature Neuroscience, 2019, 22, 1709-1717. | 7.1 | 89 |
| 25 | scBFA: modeling detection patterns to mitigate technical noise in large-scale single-cell genomics data. Genome Biology, 2019, 20, 193. | 3.8 | 18 |
| 26 | Cell type-specific transcriptional programs in mouse prefrontal cortex during adolescence and addiction. Nature Communications, 2019, 10, 4169. | 5.8 | 100 |
| 27 | Zfhx3 is required for the differentiation of late born D1-type medium spiny neurons. Experimental Neurology, 2019, 322, 113055. | 2.0 | 17 |
| 28 | Deciphering Brain Complexity Using Single-cell Sequencing. Genomics, Proteomics and Bioinformatics, 2019, 17, 344-366. | 3.0 | 52 |
| 29 | Single-cell RNA-Sequencing in Neuroscience. Neuroforum, 2019, 25, 251-258. | 0.2 | 2 |
| 30 | Dysregulated protocadherin-pathway activity as an intrinsic defect in induced pluripotent stem cellâ€“derived cortical interneurons from subjects with schizophrenia. Nature Neuroscience, 2019, 22, 229-242. | 7.1 | 84 |
| 31 | Droplet Barcoding-Based Single Cell Transcriptomics of Adult Mammalian Tissues. Journal of Visualized Experiments, 2019, , . | 0.2 | 4 |
| 32 | Distinct molecular programs regulate synapse specificity in cortical inhibitory circuits. Science, 2019, 363, 413-417. | 6.0 | 153 |
| 33 | Precision in the development of neocortical architecture: From progenitors to cortical networks. Progress in Neurobiology, 2019, 175, 77-95. | 2.8 | 45 |
| 34 | The diversity of GABAergic neurons and neural communication elements. Nature Reviews Neuroscience, 2019, 20, 563-572. | 4.9 | 167 |
| 35 | Subpopulation Detection and Their Comparative Analysis across Single-Cell Experiments with scPopCorn. Cell Systems, 2019, 8, 506-513.e5. | 2.9 | 13 |
| 36 | Comprehensive Integration of Single-Cell Data. Cell, 2019, 177, 1888-1902.e21. | 13.5 | 9,755 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Emerging roles for MEF2 in brain development and mental disorders. Current Opinion in Neurobiology, 2019, 59, 49-58. | 2.0 | 40 |
| 38 | Deep Survey of GABAergic Interneurons: Emerging Insights From Gene-Isoform Transcriptomics. Frontiers in Molecular Neuroscience, 2019, 12, 115. | 1.4 | 14 |
| 39 | Single-Cell RNA-Seq Analysis of Retinal Development Identifies NFI Factors as Regulating Mitotic Exit and Late-Born Cell Specification. Neuron, 2019, 102, 1111-1126.e5. | 3.8 | 343 |
| 40 | Temporal patterning of apical progenitors and their daughter neurons in the developing neocortex. Science, 2019, 364, . | 6.0 | 275 |
| 41 | Transcription Factors Sp8 and Sp9 Regulate Medial Ganglionic Eminence-Derived Cortical Interneuron Migration. Frontiers in Molecular Neuroscience, 2019, 12, 75. | 1.4 | 11 |
| 42 | Neocortical Projection Neurons Instruct Inhibitory Interneuron Circuit Development in a Lineage-Dependent Manner. Neuron, 2019, 102, 960-975.e6. | 3.8 | 51 |
| 43 | Simplified Drop-seq workflow with minimized bead loss using a bead capture and processing microfluidic chip. Lab on A Chip, 2019, 19, 1610-1620. | 3.1 | 22 |
| 44 | Cell migration promotes dynamic cellular interactions to control cerebral cortex morphogenesis. Nature Reviews Neuroscience, 2019, 20, 318-329. | 4.9 | 88 |
| 45 | The bone marrow microenvironment at single-cell resolution. Nature, 2019, 569, 222-228. | 13.7 | 624 |
| 46 | Research in Computational Molecular Biology. Lecture Notes in Computer Science, 2019, , . | 1.0 | 0 |
| 47 | The accessible chromatin landscape of the murine hippocampus at single-cell resolution. Genome Research, 2019, 29, 857-869. | 2.4 | 67 |
| 48 | The single-cell transcriptional landscape of mammalian organogenesis. Nature, 2019, 566, 496-502. | 13.7 | 2,292 |
| 49 | Myc controls a distinct transcriptional program in fetal thymic epithelial cells that determines thymus growth. Nature Communications, 2019, 10, 5498. | 5.8 | 39 |
| 50 | Stalled developmental programs at the root of pediatric brain tumors. Nature Genetics, 2019, 51, 1702-1713. | 9.4 | 136 |
| 51 | Dosage dependent requirements of Magoh for cortical interneuron generation and survival. Development (Cambridge), 2019, 147, . | 1.2 | 14 |
| 52 | Organoid single-cell genomic atlas uncovers human-specific features of brain development. Nature, 2019, 574, 418-422. | 13.7 | 496 |
| 53 | Elucidating the developmental trajectories of GABAergic cortical interneuron subtypes. Neuroscience Research, 2019, 138, 26-32. | 1.0 | 22 |
| 54 | The Epigenetic Factor CBP Is Required for the Differentiation and Function of Medial Ganglionic Eminence-Derived Interneurons. Molecular Neurobiology, 2019, 56, 4440-4454. | 1.9 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Cell-type-specific programs for activity-regulated gene expression. Current Opinion in Neurobiology, 2019, 56, 33-39. | 2.0 | 25 |
| 56 | Single-cell transcriptomic analysis of mouse neocortical development. Nature Communications, 2019, 10, 134. | 5.8 | 199 |
| 57 | Perspectives on defining cell types in the brain. Current Opinion in Neurobiology, 2019, 56, 61-68. | 2.0 | 44 |
| 58 | Modeling neuropsychiatric disorders using human induced pluripotent stem cells. Protein and Cell, 2020, 11, 45-59. | 4.8 | 58 |
| 59 | N-cadherin (Cdh2) Maintains Migration and Postmitotic Survival of Cortical Interneuron Precursors in a Cell-Type-Specific Manner. Cerebral Cortex, 2020, 30, 1318-1329. | 1.6 | 9 |
| 60 | Interneuron Types as Attractors and Controllers. Annual Review of Neuroscience, 2020, 43, 1-30. | 5.0 | 127 |
| 61 | ALK4 coordinates extracellular and intrinsic signals to regulate development of cortical somatostatin interneurons. Journal of Cell Biology, 2020, 219, . | 2.3 | 6 |
| 62 | Siah2 control of T-regulatory cells limits anti-tumor immunity. Nature Communications, 2020, 11, 99. | 5.8 | 15 |
| 63 | The emergence of transcriptional identity in somatosensory neurons. Nature, 2020, 577, 392-398. | 13.7 | 288 |
| 64 | Single cell RNA-sequencing reveals cellular heterogeneity and trajectories of lineage specification during murine embryonic limb development. Matrix Biology, 2020, 89, 1-10. | 1.5 | 53 |
| 65 | Single-cell transcriptome analysis reveals differential nutrient absorption functions in human intestine. Journal of Experimental Medicine, 2020, 217, . | 4.2 | 227 |
| 66 | Recent Advances in Droplet Microfluidics. Analytical Chemistry, 2020, 92, 132-149. | 3.2 | 189 |
| 67 | Development and plasticity of the corpus callosum. Development (Cambridge), 2020, 147, . | 1.2 | 40 |
| 68 | SERGIO: A Single-Cell Expression Simulator Guided by Gene Regulatory Networks. Cell Systems, 2020, 11, 252-271.e11. | 2.9 | 59 |
| 69 | Innovations present in the primate interneuron repertoire. Nature, 2020, 586, 262-269. | 13.7 | 206 |
| 70 | Emergence of Neuronal Diversity during Vertebrate Brain Development. Neuron, 2020, 108, 1058-1074.e6. | 3.8 | 51 |
| 71 | Molecular targets for endogenous glial cell line-derived neurotrophic factor modulation in striatal parvalbumin interneurons. Brain Communications, 2020, 2, fcaa105. | 1.5 | 13 |
| 72 | Integrated Transcriptome and Network Analysis Reveals Spatiotemporal Dynamics of Calvarial Suturogenesis. Cell Reports, 2020, 32, 107871. | 2.9 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Lessons from single cell sequencing in CNS cell specification and function. Current Opinion in Genetics and Development, 2020, 65, 138-143. | 1.5 | 11 |
| 74 | Functional maturation of neocortical inhibitory interneurons. , 2020, , 423-442. | | 2 |
| 75 | Distinct oligodendrocyte populations have spatial preference and different responses to spinal cord injury. Nature Communications, 2020, 11, 5860. | 5.8 | 84 |
| 76 | Biological and Medical Importance of Cellular Heterogeneity Deciphered by Single-Cell RNA Sequencing. Cells, 2020, 9, 1751. | 1.8 | 31 |
| 77 | Single-cell RNA-seq analysis revealed long-lasting adverse effects of tamoxifen on neurogenesis in prenatal and adult brains. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19578-19589. | 3.3 | 33 |
| 78 | InÂVivo Chimeric Alzheimerâ€™s Disease Modeling of Apolipoprotein E4 Toxicity in Human Neurons. Cell Reports, 2020, 32, 107962. | 2.9 | 30 |
| 79 | Cell-Type Specificity of Genomic Imprinting in Cerebral Cortex. Neuron, 2020, 107, 1160-1179.e9. | 3.8 | 33 |
| 80 | Single-Cell Profiling Shows Murine Forebrain Neural Stem Cells Reacquire a Developmental State when Activated for Adult Neurogenesis. Cell Reports, 2020, 32, 108022. | 2.9 | 40 |
| 81 | Hippocampal hub neurons maintain distinct connectivity throughout their lifetime. Nature Communications, 2020, 11, 4559. | 5.8 | 30 |
| 82 | Paracrine Role for Somatostatin Interneurons in the Assembly of Perisomatic Inhibitory Synapses. Journal of Neuroscience, 2020, 40, 7421-7435. | 1.7 | 16 |
| 83 | Looking at neurodevelopment through a big data lens. Science, 2020, 369, . | 6.0 | 28 |
| 84 | A community-based transcriptomics classification and nomenclature of neocortical cell types. Nature Neuroscience, 2020, 23, 1456-1468. | 7.1 | 183 |
| 85 | Molecular design of hypothalamus development. Nature, 2020, 582, 246-252. | 13.7 | 105 |
| 86 | Vascularized human cortical organoids (vOrganoids) model cortical development in vivo. PLoS Biology, 2020, 18, e3000705. | 2.6 | 202 |
| 87 | Mining the jewels of the cortexâ€™s crowning mystery. Current Opinion in Neurobiology, 2020, 63, 154-161. | 2.0 | 22 |
| 88 | Parallel RNA and DNA analysis after deep sequencing (PRDD-seq) reveals cell type-specific lineage patterns in human brain. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13886-13895. | 3.3 | 33 |
| 89 | Shedding Light on Chandelier Cell Development, Connectivity, and Contribution to Neural Disorders. Trends in Neurosciences, 2020, 43, 565-580. | 4.2 | 28 |
| 90 | Neuronâ€“glial interactions and neurotransmitter signaling to cells of the oligodendrocyte lineage. , 2020, , 891-918. | | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Parcellation of the striatal complex into dorsal and ventral districts. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7418-7429. | 3.3 | 23 |
| 92 | PBX1 acts as terminal selector for olfactory bulb dopaminergic neurons. Development (Cambridge), 2020, 147, . | 1.2 | 18 |
| 93 | Nf1deletion results in depletion of theLhx6transcription factor and a specific loss of parvalbumin+cortical interneurons. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6189-6195. | 3.3 | 19 |
| 94 | Developmental characterization of <i>Zswim5</i> expression in the progenitor domains and tangential migration pathways of cortical interneurons in the mouse forebrain. Journal of Comparative Neurology, 2020, 528, 2404-2419. | 0.9 | 5 |
| 95 | Mechanisms of tangential migration of interneurons in the developing forebrain. , 2020, , 345-363. | | 2 |
| 96 | Neurogenesis in the basal ganglia. , 2020, , 399-426. | | 6 |
| 97 | The generation of cortical interneurons. , 2020, , 461-479. | | 3 |
| 98 | Gene regulatory networks controlling neuronal development. , 2020, , 699-730. | | 0 |
| 99 | Generation of cerebral cortical GABAergic interneurons from pluripotent stem cells. Stem Cells, 2020, 38, 1375-1386. | 1.4 | 14 |
| 100 | Identification of a Zeb1 expressing basal stem cell subpopulation in the prostate. Nature Communications, 2020, 11, 706. | 5.8 | 42 |
| 101 | Inferring TF activation order in time series scRNA-Seq studies. PLoS Computational Biology, 2020, 16, e1007644. | 1.5 | 9 |
| 102 | The Temporal Neurogenesis Patterning of Spinal p3â€“V3 Interneurons into Divergent Subpopulation Assemblies. Journal of Neuroscience, 2020, 40, 1440-1452. | 1.7 | 27 |
| 103 | Cell stress in cortical organoids impairs molecular subtype specification. Nature, 2020, 578, 142-148. | 13.7 | 387 |
| 104 | MEF2C Hypofunction in Neuronal and Neuroimmune Populations Produces MEF2C Haploinsufficiency Syndromeâ€"like Behaviors in Mice. Biological Psychiatry, 2020, 88, 488-499. | 0.7 | 33 |
| 105 | Modeling Psychiatric Disorder Biology with Stem Cells. Current Psychiatry Reports, 2020, 22, 24. | 2.1 | 25 |
| 106 | A combinatorial code of transcription factors specifies subtypes of visual motion-sensing neurons in <i>Drosophila</i>. Development (Cambridge), 2020, 147, . | 1.2 | 17 |
| 107 | Translatome Analyses Using Conditional Ribosomal Tagging in GABAergic Interneurons and Other Sparse Cell Types. Current Protocols in Neuroscience, 2020, 92, e93. | 2.6 | 5 |
| 108 | New insights into CNS development from multiomics approaches. Current Opinion in Neurobiology, 2021, 66, 116-124. | 2.0 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Novel Therapeutic Approach for Excitatory/Inhibitory Imbalance in Neurodevelopmental and Neurodegenerative Diseases. Annual Review of Pharmacology and Toxicology, 2021, 61, 701-721. | 4.2 | 24 |
| 110 | Maternal immune activation targeted to a window of parvalbumin interneuron development improves spatial working memory: Implications for autism. Brain, Behavior, and Immunity, 2021, 91, 339-349. | 2.0 | 21 |
| 111 | Temporally Distinct Roles for the Zinc Finger Transcription Factor Sp8 in the Generation and Migration of Dorsal Lateral Ganglionic Eminence (dLGE)-Derived Neuronal Subtypes in the Mouse. Cerebral Cortex, 2021, 31, 1744-1762. | 1.6 | 6 |
| 112 | Postnatal connectomic development of inhibition in mouse barrel cortex. Science, 2021, 371, . | 6.0 | 46 |
| 113 | Genetic mapping of developmental trajectories for complex traits and diseases. Computational and Structural Biotechnology Journal, 2021, 19, 3458-3469. | 1.9 | 1 |
| 114 | Single-Cell Sequencing of Brain Cell Transcriptomes and Epigenomes. Neuron, 2021, 109, 11-26. | 3.8 | 135 |
| 115 | Immunohistological Examination of AKT Isoforms in the Brain: Cell-Type Specificity That May Underlie AKTâ€™s Role in Complex Brain Disorders and Neurological Disease. Cerebral Cortex Communications, 2021, 2, tgab036. | 0.7 | 7 |
| 117 | Transcriptional and morphological profiling of parvalbumin interneuron subpopulations in the mouse hippocampus. Nature Communications, 2021, 12, 108. | 5.8 | 40 |
| 118 | The Logic of Developing Neocortical Circuits in Health and Disease. Journal of Neuroscience, 2021, 41, 813-822. | 1.7 | 20 |
| 119 | Subcellular sequencing of single neurons reveals the dendritic transcriptome of GABAergic interneurons. ELife, 2021, 10, . | 2.8 | 48 |
| 120 | PlexinA4-Semaphorin3A-mediated crosstalk between main cortical interneuron classes is required for superficial interneuron lamination. Cell Reports, 2021, 34, 108644. | 2.9 | 10 |
| 121 | A spatially resolved brain region- and cell type-specific isoform atlas of the postnatal mouse brain. Nature Communications, 2021, 12, 463. | 5.8 | 109 |
| 123 | Exploring the secrets of brain transcriptional regulation: developing methodologies, recent significant findings, and perspectives. Brain Structure and Function, 2021, 226, 313-322. | 1.2 | 1 |
| 124 | Direct reprogramming of oligodendrocyte precursor cells into GABAergic inhibitory neurons by a single homeodomain transcription factor Dlx2. Scientific Reports, 2021, 11, 3552. | 1.6 | 14 |
| 126 | Neuronal fate acquisition and specification: time for a change. Current Opinion in Neurobiology, 2021, 66, 195-204. | 2.0 | 27 |
| 127 | Activity-dependent regulome of human GABAergic neurons reveals new patterns of gene regulation and neurological disease heritability. Nature Neuroscience, 2021, 24, 437-448. | 7.1 | 33 |
| 128 | Comprehensive analysis of single cell ATAC-seq data with SnapATAC. Nature Communications, 2021, 12, 1337. | 5.8 | 253 |
| 129 | Hyperactive MEK1 Signaling in Cortical GABAergic Neurons Promotes Embryonic Parvalbumin Neuron Loss and Defects in Behavioral Inhibition. Cerebral Cortex, 2021, 31, 3064-3081. | 1.6 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 130 | Semaphorins and Plexins in central nervous system patterning: the key to it all?. Current Opinion in Neurobiology, 2021, 66, 224-232. | 2.0 | 33 |
| 132 | Endocannabinoid system in the neurodevelopment of GABAergic interneurons: implications for neurological and psychiatric disorders. Reviews in the Neurosciences, 2021, 32, 803-831. | 1.4 | 5 |
| 133 | Integration and transfer learning of single-cell transcriptomes via cFIT. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 19 |
| 135 | Comprehensive characterization of migration profiles of murine cerebral cortical neurons during development using FlashTag labeling. IScience, 2021, 24, 102277. | 1.9 | 15 |
| 136 | Deep learning of gene relationships from single cell time-course expression data. Briefings in Bioinformatics, 2021, 22, . | 3.2 | 15 |
| 137 | Sevoflurane impairs m6A-mediated mRNA translation and leads to fine motor and cognitive deficits. Cell Biology and Toxicology, 2022, 38, 347-369. | 2.4 | 19 |
| 138 | Using organoids to study human brain development and evolution. Developmental Neurobiology, 2021, 81, 608-622. | 1.5 | 5 |
| 140 | Circular RNA circ_DROSHA alleviates the neural damage in a cell model of temporal lobe epilepsy through regulating miR-106b-5p/MEF2C axis. Cellular Signalling, 2021, 80, 109901. | 1.7 | 17 |
| 142 | Involvement of myocyte enhancer factor 2c in the pathogenesis of autism spectrum disorder. Heliyon, 2021, 7, e06854. | 1.4 | 6 |
| 144 | Astrocytes and neurons share region-specific transcriptional signatures that confer regional identity to neuronal reprogramming. Science Advances, 2021, 7, . | 4.7 | 65 |
| 145 | Developmental Characterization of Schizophrenia-Associated Gene Zswim6 in Mouse Forebrain. Frontiers in Neuroanatomy, 2021, 15, 669631. | 0.9 | 4 |
| 147 | Inducible uniparental chromosome disomy to probe genomic imprinting at single-cell level in brain and beyond. Neurochemistry International, 2021, 145, 104986. | 1.9 | 3 |
| 148 | The neutrotime transcriptional signature defines a single continuum of neutrophils across biological compartments. Nature Communications, 2021, 12, 2856. | 5.8 | 149 |
| 149 | Cadherin-13 is a critical regulator of GABAergic modulation in human stem-cell-derived neuronal networks. Molecular Psychiatry, 2022, 27, 1-18. | 4.1 | 77 |
| 150 | A robust method of nuclei isolation for single-cell RNA sequencing of solid tissues from the plant genus Populus. PLoS ONE, 2021, 16, e0251149. | 1.1 | 23 |
| 151 | FoxG1 regulates the formation of cortical GABAergic circuit during an early postnatal critical period resulting in autism spectrum disorder-like phenotypes. Nature Communications, 2021, 12, 3773. | 5.8 | 30 |
| 152 | Resolving organoid brain region identities by mapping single-cell genomic data to reference atlases. Cell Stem Cell, 2021, 28, 1148-1159.e8. | 5.2 | 63 |
| 153 | Transient developmental imbalance of cortical interneuron subtypes presages long-term changes in behavior. Cell Reports, 2021, 35, 109249. | 2.9 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 154 | Molecular logic of cellular diversification in the mouse cerebral cortex. Nature, 2021, 595, 554-559. | 13.7 | 212 |
| 155 | Early role for a Na <sup>+</sup> ,K <sup>+</sup> -ATPase ( <i>ATP1A3</i> ) in brain development. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 20 |
| 157 | Generation of excitatory and inhibitory neurons from common progenitors via Notch signaling in the cerebellum. Cell Reports, 2021, 35, 109208. | 2.9 | 18 |
| 159 | The impact of (ab)normal maternal environment on cortical development. Progress in Neurobiology, 2021, 202, 102054. | 2.8 | 11 |
| 162 | Characterization and Stage-Dependent Lineage Analysis of Intermediate Progenitors of Cortical GABAergic Interneurons. Frontiers in Neuroscience, 2021, 15, 607908. | 1.4 | 2 |
| 163 | Single-cell transcriptomics of the early developing mouse cerebral cortex disentangle the spatial and temporal components of neuronal fate acquisition. Development (Cambridge), 2021, 148, . | 1.2 | 32 |
| 164 | Transcription factor encoding of neuron subtype: Strategies that specify arbor pattern. Current Opinion in Neurobiology, 2021, 69, 149-158. | 2.0 | 5 |
| 165 | <i>Zfhx3</i> modulates retinal sensitivity and circadian responses to light. FASEB Journal, 2021, 35, e21802. | 0.2 | 5 |
| 167 | Identification of neural oscillations and epileptiform changes in human brain organoids. Nature Neuroscience, 2021, 24, 1488-1500. | 7.1 | 112 |
| 168 | Cascade diversification directs generation of neuronal diversity in the hypothalamus. Cell Stem Cell, 2021, 28, 1483-1499.e8. | 5.2 | 24 |
| 170 | Postmitotic Prox1 Expression Controls the Final Specification of Cortical VIP Interneuron Subtypes. Journal of Neuroscience, 2021, 41, 8150-8162. | 1.7 | 7 |
| 172 | Identification of Vulnerable Interneuron Subtypes in 15q13.3 Microdeletion Syndrome Using Single-Cell Transcriptomics. Biological Psychiatry, 2022, 91, 727-739. | 0.7 | 12 |
| 173 | Genetic and epigenetic coordination of cortical interneuron development. Nature, 2021, 597, 693-697. | 13.7 | 56 |
| 174 | Defining the nature of human pluripotent stem cell-derived interneurons via single-cell analysis. Stem Cell Reports, 2021, 16, 2548-2564. | 2.3 | 5 |
| 175 | Developmental programming and lineage branching of early human telencephalon. EMBO Journal, 2021, 40, e107277. | 3.5 | 10 |
| 176 | Conservation of neural progenitor identity and the emergence of neocortical neuronal diversity. Seminars in Cell and Developmental Biology, 2021, 118, 4-13. | 2.3 | 8 |
| 177 | Genetic and activity dependent-mechanisms wiring the cortex: Two sides of the same coin. Seminars in Cell and Developmental Biology, 2021, 118, 24-34. | 2.3 | 5 |
| 178 | Evolution of glutamatergic signaling and synapses. Neuropharmacology, 2021, 199, 108740. | 2.0 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 179 | Gene regulatory networks controlling differentiation, survival, and diversification of hypothalamic Lhx6-expressing GABAergic neurons. Communications Biology, 2021, 4, 95. | 2.0 | 26 |
| 180 | Elucidating the cellular dynamics of the brain with single-cell RNA sequencing. RNA Biology, 2021, 18, 1063-1084. | 1.5 | 14 |
| 210 | Rod and cone interactions in the retina. F1000Research, 2018, 7, 657. | 0.8 | 44 |
| 211 | Recent advances in understanding neocortical development. F1000Research, 2019, 8, 1791. | 0.8 | 29 |
| 212 | Systematic Analysis of Transmitter Coexpression Reveals Organizing Principles of Local Interneuron Heterogeneity. ENeuro, 2018, 5, ENEURO.0212-18.2018. | 0.9 | 10 |
| 213 | Effect of Ionizing Radiation on Transcriptome during Neural Differentiation of Human Embryonic Stem Cells. Radiation Research, 2020, 193, 460. | 0.7 | 5 |
| 214 | Maf and Mafb control mouse pallial interneuron fate and maturation through neuropsychiatric disease gene regulation. ELife, 2020, 9, . | 2.8 | 22 |
| 215 | Activity-dependent tuning of intrinsic excitability in mouse and human neurogliaform cells. ELife, 2020, 9, . | 2.8 | 29 |
| 216 | Establishment and maintenance of motor neuron identity via temporal modularity in terminal selector function. ELife, 2020, 9, . | 2.8 | 24 |
| 217 | Folding brains: from development to disease modeling. Physiological Reviews, 2022, 102, 511-550. | 13.1 | 28 |
| 218 | How many markers are needed to robustly determine a cell's type?. IScience, 2021, 24, 103292. | 1.9 | 14 |
| 219 | Decoding molecular and cellular heterogeneity of mouse nucleus accumbens. Nature Neuroscience, 2021, 24, 1757-1771. | 7.1 | 87 |
| 220 | Neurotransmitter signaling regulates distinct phases of multimodal human interneuron migration. EMBO Journal, 2021, 40, e108714. | 3.5 | 16 |
| 227 | Genomic Resolution of DLX-Orchestrated Transcriptional Circuits Driving Development of Forebrain GABAergic Neurons. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 249 | Interneuron origin and molecular diversity in the human fetal brain. Nature Neuroscience, 2021, 24, 1745-1756. | 7.1 | 49 |
| 254 | From Progenitors to Progeny: Shaping Striatal Circuit Development and Function. Journal of Neuroscience, 2021, 41, 9483-9502. | 1.7 | 18 |
| 255 | Identification of TGFÎ² signalling as a regulator of interneuron neurogenesis in a human pluripotent stem cell model. Neuronal Signaling, 2021, 5, NS20210020. | 1.7 | 3 |
| 256 | The organization and development of cortical interneuron presynaptic circuits are area specific. Cell Reports, 2021, 37, 109993. | 2.9 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 257 | Singleâ€cell transcriptomics identifies Gadd45b as a regulator of herpesvirusâ€reactivating neurons. EMBO Reports, 2022, 23, e53543. | 2.0 | 16 |
| 258 | Sox6 expression distinguishes dorsally and ventrally biased dopamine neurons in the substantia nigra with distinctive properties and embryonic origins. Cell Reports, 2021, 37, 109975. | 2.9 | 33 |
| 259 | Transcriptional profiling of sequentially generated septal neuron fates. ELife, 2021, 10, . | 2.8 | 12 |
| 260 | Dissecting the molecular basis of human interneuron migration in forebrain assembloids from Timothy syndrome. Cell Stem Cell, 2022, 29, 248-264.e7. | 5.2 | 61 |
| 261 | Single-cell analysis of early chick hypothalamic development reveals that hypothalamic cells are induced from prethalamic-like progenitors. Cell Reports, 2022, 38, 110251. | 2.9 | 19 |
| 262 | Human cortical interneuron development unraveled. Science, 2022, 375, 383-384. | 6.0 | 2 |
| 263 | EMBEDR: Distinguishing signal from noise in single-cell omics data. Patterns, 2022, 3, 100443. | 3.1 | 13 |
| 264 | An Efficient Method for the Isolation and Cultivation of Hypothalamic Neural Stem/Progenitor Cells From Mouse Embryos. Frontiers in Neuroanatomy, 2022, 16, 711138. | 0.9 | 5 |
| 266 | Individual human cortical progenitors can produce excitatory and inhibitory neurons. Nature, 2022, 601, 397-403. | 13.7 | 73 |
| 267 | Mouse and human share conserved transcriptional programs for interneuron development. Science, 2021, 374, eabj6641. | 6.0 | 75 |
| 268 | Single-cell delineation of lineage and genetic identity in the mouse brain. Nature, 2022, 601, 404-409. | 13.7 | 93 |
| 269 | Single-cell droplet microfluidics for biomedical applications. Analyst, The, 2022, 147, 2294-2316. | 1.7 | 33 |
| 270 | Transcriptional heterogeneity of ventricular zone cells in the ganglionic eminences of the mouse forebrain. ELife, 2022, 11, . | 2.8 | 19 |
| 271 | Deciphering the Retinal Epigenome during Development, Disease and Reprogramming: Advancements, Challenges and Perspectives. Cells, 2022, 11, 806. | 1.8 | 3 |
| 273 | Guidelines for bioinformatics of single-cell sequencing data analysis in Alzheimerâ€™s disease: review, recommendation, implementation and application. Molecular Neurodegeneration, 2022, 17, 17. | 4.4 | 40 |
| 274 | The development and evolution of inhibitory neurons in primate cerebrum. Nature, 2022, 603, 871-877. | 13.7 | 58 |
| 275 | A Novel LHX6 Reporter Cell Line for Tracking Human iPSC-Derived Cortical Interneurons. Cells, 2022, 11, 853. | 1.8 | 2 |
| 276 | <i>BRN2</i> as a key gene drives the early primate telencephalon development. Science Advances, 2022, 8, eabl7263. | 4.7 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 277 | Evolutionarily conservative and non-conservative regulatory networks during primate interneuron development revealed by single-cell RNA and ATAC sequencing. Cell Research, 2022, 32, 425-436. | 5.7 | 25 |
| 278 | Single cell enhancer activity distinguishes GABAergic and cholinergic lineages in embryonic mouse basal ganglia. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2108760119. | 3.3 | 15 |
| 279 | Maturation Delay of Human GABAergic Neurogenesis in Fragile X Syndrome Pluripotent Stem Cells. Stem Cells Translational Medicine, 2022, 11, 613-629. | 1.6 | 9 |
| 280 | Step by step: cells with multiple functions in cortical circuit assembly. Nature Reviews Neuroscience, 2022, 23, 395-410. | 4.9 | 14 |
| 281 | Gene-Environment Interactions During the First Thousand Days Influence Childhood Neurological Diagnosis. Seminars in Pediatric Neurology, 2022, 42, 100970. | 1.0 | 6 |
| 282 | Genetic Regulation of Vertebrate Forebrain Development by Homeobox Genes. Frontiers in Neuroscience, 2022, 16, 843794. | 1.4 | 14 |
| 283 | Single Cell Multiomic Approaches to Disentangle T Cell Heterogeneity. Immunology Letters, 2022, 246, 37-51. | 1.1 | 1 |
| 284 | Targeted proteoform mapping uncovers specific Neurexin-3 variants required for dendritic inhibition. Neuron, 2022, 110, 2094-2109.e10. | 3.8 | 18 |
| 285 | Cross-species single-cell transcriptomic analysis reveals divergence of cell composition and functions in mammalian ileum epithelium. Cell Regeneration, 2022, 11, 19. | 1.1 | 13 |
| 287 | Transcriptomic mapping uncovers Purkinje neuron plasticity driving learning. Nature, 2022, 605, 722-727. | 13.7 | 24 |
| 288 | Machine learning sequence prioritization for cell type-specific enhancer design. ELife, 2022, 11, . | 2.8 | 10 |
| 289 | Single-cell RNA-sequencing of mammalian brain development: insights and future directions. Development (Cambridge), 2022, 149, . | 1.2 | 12 |
| 291 | Altered patterning of trisomy 21 interneuron progenitors. Stem Cell Reports, 2022, 17, 1366-1379. | 2.3 | 11 |
| 292 | Temporal regulation of neural diversity in Drosophila and vertebrates. Seminars in Cell and Developmental Biology, 2023, 142, 13-22. | 2.3 | 9 |
| 293 | Ketamine exerts its sustained antidepressant effects via cell-type-specific regulation of Kcnq2. Neuron, 2022, 110, 2283-2298.e9. | 3.8 | 40 |
| 294 | Occult polyclonality of preclinical pancreatic cancer models drives in vitro evolution. Nature Communications, 2022, 13, . | 5.8 | 13 |
| 296 | Morphological pseudotime ordering and fate mapping reveal diversification of cerebellar inhibitory interneurons. Nature Communications, 2022, 13, . | 5.8 | 7 |
| 297 | Generating neural diversity through spatial and temporal patterning. Seminars in Cell and Developmental Biology, 2023, 142, 54-66. | 2.3 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 299 | Origin, Development, and Synaptogenesis of Cortical Interneurons. Frontiers in Neuroscience, 0, 16, . | 1.4 | 12 |
| 300 | Identification of cortical interneuron cell markers in mouse embryos based on machine learning analysis of single-cell transcriptomics. Frontiers in Neuroscience, 0, 16, . | 1.4 | 2 |
| 302 | Applications of singleâ€cell multiâ€omics sequencing in deep understanding of brain diseases. Clinical and Translational Discovery, 2022, 2, . | 0.2 | 0 |
| 303 | Serotonergic regulation of bipolar cell survival in the developing cerebral cortex. Cell Reports, 2022, 40, 111037. | 2.9 | 7 |
| 304 | A house divided: A multilevel bibliometric review of the job search literature 1973â€"2020. Journal of Business Research, 2022, 151, 100-117. | 5.8 | 3 |
| 305 | An epigenome atlas of neural progenitors within the embryonic mouse forebrain. Nature Communications, 2022, 13, . | 5.8 | 15 |
| 306 | Shh activation restores interneurons and cognitive function in newborns with intraventricular haemorrhage. Brain, 2023, 146, 629-644. | 3.7 | 2 |
| 308 | Distortion-free PCA on sample space for highly variable gene detection from single-cell RNA-seq data. Frontiers of Computer Science, 2023, 17, . | 1.6 | 1 |
| 310 | Molecular and cellular evolution of the primate dorsolateral prefrontal cortex. Science, 2022, 377, . | 6.0 | 61 |
| 312 | Calcium and activity-dependent signaling in the developing cerebral cortex. Development (Cambridge), 2022, 149, . | 1.2 | 11 |
| 314 | Integrated analysis of multimodal single-cell data with structural similarity. Nucleic Acids Research, 2022, 50, e121-e121. | 6.5 | 29 |
| 315 | Loss of oligodendrocyte ErbB receptor signaling leads to hypomyelination, reduced density of parvalbuminâ€expressing interneurons, and inhibitory function in the auditory cortex. Glia, 0, , . | 2.5 | 2 |
| 316 | MTG8 interacts with LHX6 to specify cortical interneuron subtype identity. Nature Communications, 2022, 13, . | 5.8 | 13 |
| 317 | Pax6 limits the competence of developing cerebral cortical cells to respond to inductive intercellular signals. PLoS Biology, 2022, 20, e3001563. | 2.6 | 8 |
| 318 | Genesis and Migration of Cerebral Cortical Inhibitory Interneurons: An Overview. , 2022, , 291-305. | | 0 |
| 321 | A Spacetime Odyssey of Neural Progenitors to Generate Neuronal Diversity. Neuroscience Bulletin, 2023, 39, 645-658. | 1.5 | 3 |
| 322 | Setting the programmatic agenda: A comprehensive bibliometric overview of team mechanism research. Journal of Business Research, 2023, 154, 113297. | 5.8 | 0 |
| 323 | Genetics of Cortical Development. , 2022, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 324 | Identification of visual cortex cell types and species differences using single-cell RNA sequencing. Nature Communications, 2022, 13, . | 5.8 | 12 |
| 326 | Clustering of vomeronasal receptor genes is required for transcriptional stability but not for choice. Science Advances, 2022, 8, . | 4.7 | 4 |
| 327 | St18 specifies globus pallidus projection neuron identity in MGE lineage. Nature Communications, 2022, 13, . | 5.8 | 0 |
| 328 | Coordinated control of neuronal differentiation and wiring by sustained transcription factors. Science, 2022, 378, . | 6.0 | 10 |
| 330 | A transcription factor atlas of directed differentiation. Cell, 2023, 186, 209-229.e26. | 13.5 | 45 |
| 332 | Identifying foetal forebrain interneurons as a target for monogenic autism risk factors and the polygenic 16p11.2 microdeletion. BMC Neuroscience, 2023, 24, . | 0.8 | 2 |
| 333 | Cortical interneuron specification and diversification in the era of big data. Current Opinion in Neurobiology, 2023, 80, 102703. | 2.0 | 0 |
| 334 | Transcriptional networks of transient cell states during human prefrontal cortex development. Frontiers in Molecular Neuroscience, 0, 16, . | 1.4 | 0 |
| 336 | Generation of glutamatergic/GABAergic neuronal co-cultures derived from human induced pluripotent stem cells for characterizing E/I balance inÂvitro. STAR Protocols, 2023, 4, 101967. | 0.5 | 5 |
| 337 | Cortical Parvalbumin-Positive Interneuron Development and Function Are Altered in the APC Conditional Knockout Mouse Model of Infantile and Epileptic Spasms Syndrome. Journal of Neuroscience, 2023, 43, 1422-1440. | 1.7 | 2 |
| 338 | Developmental deficits of MGE-derived interneurons in the Cntnap2 knockout mouse model of autism spectrum disorder. Frontiers in Cell and Developmental Biology, 0, 11, . | 1.8 | 1 |
| 339 | Deciphering inhibitory neuron development: The paths to diversity. Current Opinion in Neurobiology, 2023, 79, 102691. | 2.0 | 7 |
| 340 | Basal forebrain cholinergic signalling: development, connectivity and roles in cognition. Nature Reviews Neuroscience, 2023, 24, 233-251. | 4.9 | 17 |
| 341 | Principles of neural stem cell lineage progression: Insights from developing cerebral cortex. Current Opinion in Neurobiology, 2023, 79, 102695. | 2.0 | 4 |
| 344 | RNA regulation in brain function and disease 2022 (NeuroRNA): A conference report. Frontiers in Molecular Neuroscience, 0, 16, . | 1.4 | 0 |
| 345 | Cellular complexity of the peripheral nervous system: Insights from single-cell resolution. Frontiers in Neuroscience, 0, 17, . | 1.4 | 2 |
| 346 | Cellular signaling impacts upon GABAergic cortical interneuron development. Frontiers in Neuroscience, 0, 17, . | 1.4 | 1 |
| 347 | Recent advances in understanding neuronal diversity and neural circuit complexity across different brain regions using single-cell sequencing. Frontiers in Neural Circuits, 0, 17, . | 1.4 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 348 | Mapping human adult hippocampal neurogenesis with single-cell transcriptomics: Reconciling controversy or fueling the debate?. Neuron, 2023, 111, 1714-1731.e3. | 3.8 | 15 |
| 349 | DSCAM gene triplication causes excessive GABAergic synapses in the neocortex in Down syndrome mouse models. PLoS Biology, 2023, 21, e3002078. | 2.6 | 7 |
| 352 | Single-cell and spatial transcriptomics: deciphering brain complexity in health and disease. Nature Reviews Neurology, 2023, 19, 346-362. | 4.9 | 33 |
| 366 | Development and Developmental Disorders of the Cerebral Cortex. , 2023, , 725-891. | | 0 |
| 370 | Mechanisms of Development. , 2023, , 77-169. | | 0 |
| 376 | Human neuronal maturation comes of age: cellular mechanisms and species differences. Nature Reviews Neuroscience, 2024, 25, 7-29. | 4.9 | 3 |
| 382 | Multimodal Nature of the Single-cell Primate Brain Atlas: Morphology, Transcriptome, Electrophysiology, and Connectivity. Neuroscience Bulletin, 2024, 40, 517-532. | 1.5 | 0 |
| 385 | GROD: Joint Inference of Gene Regulatory Networks and Data Imputation in Single-Cell RNA Sequencing with Temporal Consideration. , 2023, , . | | 0 |