

Three groups of interneurons account for nearly 100% of

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Citation Report

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Mechanisms of Inhibition within the Telencephalon: "Where the Wild Things Are" Annual Review of Neuroscience, 2011, 34, 535-567.  | 5.0 | 205       |
| 2  | GABAergic Dysfunction in Autism and Epilepsy. , 0, , .  |     | 3         |
| 3  | Local Connections of Layer 5 GABAergic Interneurons to Corticospinal Neurons. Frontiers in Neural Circuits, 2011, 5, 12.  | 1.4 | 37        |
| 4  | Genetics and Function of Neocortical GABAergic Interneurons in Neurodevelopmental Disorders. Neural Plasticity, 2011, 2011, 1-25.   | 1.0 | 181       |
| 5  | ATR maintains select progenitors during nervous system development. EMBO Journal, 2012, 31, 1177-1189.  | 3.5 | 74        |
| 6  | Somatostatinergic systems: an update on brain functions in normal and pathological aging. Frontiers in Endocrinology, 2012, 3, 154.   | 1.5 | 70        |
| 7  | Chronic reduction in inhibition reduces receptive field size in mouse auditory cortex. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13829-13834.                             | 3.3 | 30        |
| 8  | Laminarily Orthogonal Excitation of Fast-Spiking and Low-Threshold-Spiking Interneurons in Mouse Motor Cortex. Journal of Neuroscience, 2012, 32, 7021-7033.  | 1.7 | 72        |
| 9  | Spatial Profile of Excitatory and Inhibitory Synaptic Connectivity in Mouse Primary Auditory Cortex. Journal of Neuroscience, 2012, 32, 5609-5619.  | 1.7 | 226       |
| 10 | Satb1 Is an Activity-Modulated Transcription Factor Required for the Terminal Differentiation and Connectivity of Medial Ganglionic Eminence-Derived Cortical Interneurons. Journal of Neuroscience, 2012, 32, 17690-17705. | 1.7 | 122       |
| 11 | Prolonged Disynaptic Inhibition in the Cortex Mediated by Slow, Non- $\gamma$ 7 Nicotinic Excitation of a Specific Subset of Cortical Interneurons. Journal of Neuroscience, 2012, 32, 3859-3864.                           | 1.7 | 136       |
| 12 | Thalamic Control of Layer 1 Circuits in Prefrontal Cortex. Journal of Neuroscience, 2012, 32, 17813-17823.  | 1.7 | 190       |
| 13 | A Subpopulation of Dorsal Lateral/Caudal Ganglionic Eminence-Derived Neocortical Interneurons Expresses the Transcription Factor Sp8. Cerebral Cortex, 2012, 22, 2120-2130.   | 1.6 | 73        |
| 14 | Maturation-Promoting Activity of SATB1 in MGE-Derived Cortical Interneurons. Cell Reports, 2012, 2, 1351-1362.  | 2.9 | 100       |
| 15 | Cell-Type-Based Analysis of MicroRNA Profiles in the Mouse Brain. Neuron, 2012, 73, 35-48.  | 3.8 | 254       |
| 16 | Selective Functional Interactions between Excitatory and Inhibitory Cortical Neurons and Differential Contribution to Persistent Activity of the Slow Oscillation. Journal of Neuroscience, 2012, 32, 12165-12179.          | 1.7 | 72        |
| 17 | Neurons on the Move: Migration and Lamination of Cortical Interneurons. NeuroSignals, 2012, 20, 168-189.  | 0.5 | 67        |
| 18 | Arl13b in Primary Cilia Regulates the Migration and Placement of Interneurons in the Developing Cerebral Cortex. Developmental Cell, 2012, 23, 925-938.   | 3.1 | 203       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Division and subtraction by distinct cortical inhibitory networks in vivo. <i>Nature</i> , 2012, 488, 343-348.   | 13.7 | 490       |
| 20 | Reliable in vivo identification of both GABAergic and glutamatergic neurons using Emx1-Cre driven fluorescent reporter expression. <i>Cell Calcium</i> , 2012, 52, 182-189.                                | 1.1  | 16        |
| 21 | Effects of acetylcholine on neuronal properties in entorhinal cortex. <i>Frontiers in Behavioral Neuroscience</i> , 2012, 6, 32.   | 1.0  | 52        |
| 22 | Surround suppression and sparse coding in visual and barrel cortices. <i>Frontiers in Neural Circuits</i> , 2012, 6, 43.   | 1.4  | 61        |
| 23 | The origin of neocortical nitric oxide synthase-expressing inhibitory neurons. <i>Frontiers in Neural Circuits</i> , 2012, 6, 44.  | 1.4  | 34        |
| 24 | Activation of cortical 5-HT <sub>3</sub> receptor-expressing interneurons induces NO mediated vasodilatations and NPY mediated vasoconstrictions. <i>Frontiers in Neural Circuits</i> , 2012, 6, 50.       | 1.4  | 38        |
| 25 | Functional diversity of supragranular GABAergic neurons in the barrel cortex. <i>Frontiers in Neural Circuits</i> , 2012, 6, 52.   | 1.4  | 64        |
| 26 | Electrophysiological and morphological properties of neurons in layer 5 of the rat postrhinal cortex. <i>Hippocampus</i> , 2012, 22, 1912-1922.  | 0.9  | 13        |
| 27 | Alpha <sub>2</sub> -adrenergic receptor activation regulates cortical interneuron migration. <i>European Journal of Neuroscience</i> , 2012, 36, 2879-2887.  | 1.2  | 8         |
| 28 | Post hoc immunostaining of GABAergic neuronal subtypes following in vivo two-photon calcium imaging in mouse neocortex. <i>Pflugers Archiv European Journal of Physiology</i> , 2012, 463, 339-354.        | 1.3  | 22        |
| 29 | Development and specification of GABAergic cortical interneurons. <i>Cell and Bioscience</i> , 2013, 3, 19.  | 2.1  | 136       |
| 30 | Loss of GABAergic neurons in the hippocampus and cerebral cortex of <i>Engrailed-2</i> null mutant mice: Implications for autism spectrum disorders. <i>Experimental Neurology</i> , 2013, 247, 496-505.   | 2.0  | 83        |
| 31 | Hypoxia-Induced Developmental Delays of Inhibitory Interneurons Are Reversed by Environmental Enrichment in the Postnatal Mouse Forebrain. <i>Journal of Neuroscience</i> , 2013, 33, 13375-13387.         | 1.7  | 75        |
| 32 | The Neuron Identity Problem: Form Meets Function. <i>Neuron</i> , 2013, 80, 602-612.   | 3.8  | 86        |
| 33 | Localization of $\alpha 7$ nicotinic acetylcholine receptor immunoreactivity on GABAergic interneurons in layers I-III of the rat retrosplenial granular cortex. <i>Neuroscience</i> , 2013, 252, 443-459. | 1.1  | 21        |
| 34 | Subcortical origins of human and monkey neocortical interneurons. <i>Nature Neuroscience</i> , 2013, 16, 1588-1597.  | 7.1  | 265       |
| 35 | Dual origins of functionally distinct O-LM interneurons revealed by differential 5-HT <sub>3</sub> AR expression. <i>Nature Neuroscience</i> , 2013, 16, 1598-1607.  | 7.1  | 104       |
| 36 | Cortical interneurons that specialize in disinhibitory control. <i>Nature</i> , 2013, 503, 521-524.  | 13.7 | 936       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | A disinhibitory circuit mediates motor integration in the somatosensory cortex. <i>Nature Neuroscience</i> , 2013, 16, 1662-1670.   | 7.1  | 638       |
| 38 | Integrative Mechanisms of Oriented Neuronal Migration in the Developing Brain. <i>Annual Review of Cell and Developmental Biology</i> , 2013, 29, 299-353.  | 4.0  | 134       |
| 39 | Cortical connectivity and sensory coding. <i>Nature</i> , 2013, 503, 51-58.   | 13.7 | 536       |
| 40 | Intrinsic Electrophysiology of Mouse Corticospinal Neurons: a Class-Specific Triad of Spike-Related Properties. <i>Cerebral Cortex</i> , 2013, 23, 1965-1977.   | 1.6  | 83        |
| 41 | Meditation-Related Increases in GABAergic Modulated Cortical Inhibition. <i>Brain Stimulation</i> , 2013, 6, 397-402.   | 0.7  | 54        |
| 42 | Classification and function of GABAergic interneurons of the mammalian cerebral cortex. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2013, 7, 245-259.   | 0.3  | 2         |
| 43 | Integration of GABAergic Interneurons into Cortical Cell Assemblies: Lessons from Embryos and Adults. <i>Neuron</i> , 2013, 79, 849-864.  | 3.8  | 160       |
| 44 | Neocortical Somatostatin-Expressing GABAergic Interneurons Disinhibit the Thalamorecipient Layer 4. <i>Neuron</i> , 2013, 77, 155-167.  | 3.8  | 317       |
| 45 | Barrel cortex function. <i>Progress in Neurobiology</i> , 2013, 103, 3-27.  | 2.8  | 304       |
| 46 | Nuclear receptor COUP-TFII-expressing neocortical interneurons are derived from the medial and lateral/caudal ganglionic eminence and define specific subsets of mature interneurons. <i>Journal of Comparative Neurology</i> , 2013, 521, 479-497. | 0.9  | 44        |
| 47 | Dlx1&2-Dependent Expression of Zfhx1b (Sip1, Zeb2) Regulates the Fate Switch between Cortical and Striatal Interneurons. <i>Neuron</i> , 2013, 77, 83-98.   | 3.8  | 140       |
| 48 | Neocortical interneurons. <i>Neurology</i> , 2013, 81, 273-280.   | 1.5  | 15        |
| 49 | CNTNAP2 polymorphisms and structural brain connectivity: A diffusion-tensor imaging study. <i>Journal of Psychiatric Research</i> , 2013, 47, 1349-1356.  | 1.5  | 37        |
| 50 | Serotonergic modulation of LTP at excitatory and inhibitory synapses in the developing rat visual cortex. <i>Neuroscience</i> , 2013, 238, 148-158.   | 1.1  | 20        |
| 51 | Ca <sup>v</sup> 2.1 ablation in cortical interneurons selectively impairs fast-spiking basket cells and causes generalized seizures. <i>Annals of Neurology</i> , 2013, 74, 209-222.  | 2.8  | 95        |
| 52 | Sodium Channel Cleavage Is Associated with Aberrant Neuronal Activity and Cognitive Deficits in a Mouse Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2013, 33, 7020-7026.   | 1.7  | 80        |
| 53 | Erbin interacts with TARP $\beta$ -2 for surface expression of AMPA receptors in cortical interneurons. <i>Nature Neuroscience</i> , 2013, 16, 290-299.   | 7.1  | 47        |
| 54 | Decorrelating Action of Inhibition in Neocortical Networks. <i>Journal of Neuroscience</i> , 2013, 33, 9813-9830.   | 1.7  | 66        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | The LIM Homeodomain Protein Lhx6 Regulates Maturation of Interneurons and Network Excitability in the Mammalian Cortex. <i>Cerebral Cortex</i> , 2013, 23, 1811-1823.   | 1.6 | 54        |
| 56 | Convergence of genetic and environmental factors on parvalbumin-positive interneurons in schizophrenia. <i>Frontiers in Behavioral Neuroscience</i> , 2013, 7, 116.   | 1.0 | 78        |
| 57 | Altered Cortical GABA <sub>A</sub> Receptor Composition, Physiology, and Endocytosis in a Mouse Model of a Human Genetic Absence Epilepsy Syndrome. <i>Journal of Biological Chemistry</i> , 2013, 288, 21458-21472.  | 1.6 | 50        |
| 58 | Two specific populations of GABAergic neurons originating from the medial and the caudal ganglionic eminences aid in proper navigation of callosal axons. <i>Developmental Neurobiology</i> , 2013, 73, 647-672.  | 1.5 | 20        |
| 59 | Activity-regulated Somatostatin Expression Reduces Dendritic Spine Density and Lowers Excitatory Synaptic Transmission via Postsynaptic Somatostatin Receptor 4. <i>Journal of Biological Chemistry</i> , 2013, 288, 2501-2509.   | 1.6 | 25        |
| 61 | Repeated cocaine exposure increases fast-spiking interneuron excitability in the rat medial prefrontal cortex. <i>Journal of Neurophysiology</i> , 2013, 109, 2781-2792.  | 0.9 | 19        |
| 62 | Reduced brain somatostatin in mood disorders: a common pathophysiological substrate and drug target?. <i>Frontiers in Pharmacology</i> , 2013, 4, 110.  | 1.6 | 103       |
| 63 | The serotonin 5-HT <sub>3</sub> receptor: a novel neurodevelopmental target. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 76.   | 1.8 | 55        |
| 64 | Serotonin homeostasis and serotonin receptors as actors of cortical construction: special attention to the 5-HT <sub>3A</sub> and 5-HT <sub>6</sub> receptor subtypes. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 93.   | 1.8 | 65        |
| 65 | Production and organization of neocortical interneurons. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 221.  | 1.8 | 71        |
| 66 | Not all that glitters is gold: off-target recombination in the somatostatin <sup>Cre</sup> /IRES-Cre mouse line labels a subset of fast-spiking interneurons. <i>Frontiers in Neural Circuits</i> , 2013, 7, 195.   | 1.4 | 107       |
| 67 | Cell-type-specific modulation of neocortical activity by basal forebrain input. <i>Frontiers in Systems Neuroscience</i> , 2012, 6, 79.   | 1.2 | 120       |
| 68 | Trajectory of the main GABAergic interneuron populations from early development to old age in the rat primary auditory cortex. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 40.  | 0.9 | 64        |
| 69 | Spatio-temporal extension in site of origin for cortical calretinin neurons in primates. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 50.  | 0.9 | 72        |
| 70 | Revisiting enigmatic cortical calretinin-expressing interneurons. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 52.   | 0.9 | 70        |
| 71 | Characterization of excitatory and inhibitory neuron activation in the mouse medial prefrontal cortex following palatable food ingestion and food driven exploratory behavior. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 60.  | 0.9 | 34        |
| 72 | Genetic dissection of GABAergic neural circuits in mouse neocortex. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 8.   | 1.8 | 85        |
| 73 | GABAergic synapses: their plasticity and role in sensory cortex - See more at: <a href="http://journal.frontiersin.org/journal/10.3389/fncel.2014.00091/abstract#sthash.15jGe6MC.dpuf">http://journal.frontiersin.org/journal/10.3389/fncel.2014.00091/abstract#sthash.15jGe6MC.dpuf</a> . <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 91. | 1.8 | 57        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 74 | Altered GABAergic markers, increased binocularity and reduced plasticity in the visual cortex of Engrailed-2 knockout mice. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 163.  | 1.8 | 28        |
| 75 | Biologically inspired load balancing mechanism in neocortical competitive learning. <i>Frontiers in Neural Circuits</i> , 2014, 8, 18.   | 1.4 | 1         |
| 76 | mRNA expression profile of serotonin receptor subtypes and distribution of serotonergic terminations in marmoset brain. <i>Frontiers in Neural Circuits</i> , 2014, 8, 52.   | 1.4 | 31        |
| 77 | Mapping arealisation of the visual cortex of non-primate species: lessons for development and evolution. <i>Frontiers in Neural Circuits</i> , 2014, 8, 79.  | 1.4 | 16        |
| 78 | Dissecting inhibitory brain circuits with genetically-targeted technologies. <i>Frontiers in Neural Circuits</i> , 2014, 8, 124.   | 1.4 | 11        |
| 79 | Maturation of cortical circuits requires Semaphorin 7A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13978-13983.   | 3.3 | 34        |
| 80 | Opposing Effects of Acute versus Chronic Blockade of Frontal Cortex Somatostatin-Positive Inhibitory Neurons on Behavioral Emotionality in Mice. <i>Neuropsychopharmacology</i> , 2014, 39, 2252-2262.                                     | 2.8 | 132       |
| 81 | Characterization and Distribution of Reelin-Positive Interneuron Subtypes in the Rat Barrel Cortex. <i>Cerebral Cortex</i> , 2014, 24, 3046-3058.  | 1.6 | 39        |
| 82 | Channelrhodopsin-Assisted Patching: In Vivo Recording of Genetically and Morphologically Identified Neurons throughout the Brain. <i>Cell Reports</i> , 2014, 9, 2304-2316.  | 2.9 | 67        |
| 83 | 3D Clustering of GABAergic Neurons Enhances Inhibitory Actions on Excitatory Neurons in the Mouse Visual Cortex. <i>Cell Reports</i> , 2014, 9, 1896-1907.   | 2.9 | 16        |
| 84 | Age-related neurochemical changes in the rhesus macaque cochlear nucleus. <i>Journal of Comparative Neurology</i> , 2014, 522, 1527-1541.  | 0.9 | 23        |
| 85 | Age-related neurochemical changes in the rhesus macaque superior olivary complex. <i>Journal of Comparative Neurology</i> , 2014, 522, 573-591.  | 0.9 | 17        |
| 86 | Impaired excitability of somatostatin- and parvalbumin-expressing cortical interneurons in a mouse model of Dravet syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3139-48. | 3.3 | 216       |
| 87 | NPAS1 Represses the Generation of Specific Subtypes of Cortical Interneurons. <i>Neuron</i> , 2014, 84, 940-953.   | 3.8 | 60        |
| 88 | GABA-A Receptor Inhibition of Local Calcium Signaling in Spines and Dendrites. <i>Journal of Neuroscience</i> , 2014, 34, 15898-15911.   | 1.7 | 75        |
| 89 | Developmental abnormalities of cortical interneurons precede symptoms onset in a mouse model of Rett syndrome. <i>Journal of Neurochemistry</i> , 2014, 131, 115-127.  | 2.1 | 44        |
| 90 | Cortical parvalbumin and somatostatin GABA neurons express distinct endogenous modulators of nicotinic acetylcholine receptors. <i>Molecular Brain</i> , 2014, 7, 75.  | 1.3 | 51        |
| 91 | 3q27.3 microdeletional syndrome: a recognisable clinical entity associating dysmorphic features, marfanoid habitus, intellectual disability and psychosis with mood disorder. <i>Journal of Medical Genetics</i> , 2014, 51, 21-27.        | 1.5 | 12        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 92  | Expression of $\hat{1}$ - and $\hat{2}$ -adrenoceptors in different subtypes of interneurons in the medial prefrontal cortex of mice. <i>Neuroscience</i> , 2014, 257, 149-157.  | 1.1  | 20        |
| 93  | d-Serine and Serine Racemase are Localized to Neurons in the Adult Mouse and Human Forebrain. <i>Cellular and Molecular Neurobiology</i> , 2014, 34, 419-435.  | 1.7  | 107       |
| 94  | A Cortical Circuit for Gain Control by Behavioral State. <i>Cell</i> , 2014, 156, 1139-1152.   | 13.5 | 827       |
| 95  | Lhx6 Directly Regulates Arx and CXCR7 to Determine Cortical Interneuron Fate and Laminar Position. <i>Neuron</i> , 2014, 82, 350-364.  | 3.8  | 118       |
| 96  | Spatiotemporal specificity in cholinergic control of neocortical function. <i>Current Opinion in Neurobiology</i> , 2014, 26, 149-160.   | 2.0  | 117       |
| 97  | Amygdala interneuron subtypes control fear learning through disinhibition. <i>Nature</i> , 2014, 509, 453-458.   | 13.7 | 433       |
| 98  | Cell-type specific function of GABAergic neurons in layers 2 and 3 of mouse barrel cortex. <i>Current Opinion in Neurobiology</i> , 2014, 26, 1-6.   | 2.0  | 17        |
| 99  | The emerging role of GABAB receptors as regulators of network dynamics: fast actions from a "slow" receptor?. <i>Current Opinion in Neurobiology</i> , 2014, 26, 15-21.  | 2.0  | 52        |
| 100 | Somatostatin receptor sst2 reduces Akt activity and aggravates hypoxic/ischemic death in cerebral cortical neurons. <i>Neuropharmacology</i> , 2014, 77, 249-256.  | 2.0  | 5         |
| 101 | A blanket of inhibition: functional inferences from dense inhibitory connectivity. <i>Current Opinion in Neurobiology</i> , 2014, 26, 96-102.  | 2.0  | 148       |
| 102 | Interneuron cell types are fit to function. <i>Nature</i> , 2014, 505, 318-326.  | 13.7 | 919       |
| 103 | Strychnine-sensitive glycine receptors on pyramidal neurons in layers II/III of the mouse prefrontal cortex are tonically activated. <i>Journal of Neurophysiology</i> , 2014, 112, 1169-1178.                                   | 0.9  | 42        |
| 104 | Optogenetic astrocyte activation modulates response selectivity of visual cortex neurons in vivo. <i>Nature Communications</i> , 2014, 5, 3262.  | 5.8  | 195       |
| 105 | Local CRH Signaling Promotes Synaptogenesis and Circuit Integration of Adult-Born Neurons. <i>Developmental Cell</i> , 2014, 30, 645-659.  | 3.1  | 41        |
| 106 | Regional and age-related differences in GAD67 expression of parvalbumin- and calbindin-expressing neurons in the rhesus macaque auditory midbrain and brainstem. <i>Journal of Comparative Neurology</i> , 2014, 522, 4074-4084. | 0.9  | 20        |
| 107 | A Class of GABAergic Neurons in the Prefrontal Cortex Sends Long-Range Projections to the Nucleus Accumbens and Elicits Acute Avoidance Behavior. <i>Journal of Neuroscience</i> , 2014, 34, 11519-11525.                        | 1.7  | 152       |
| 108 | Localized GABAergic inhibition of dendritic Ca <sup>2+</sup> signalling. <i>Nature Reviews Neuroscience</i> , 2014, 15, 567-572.   | 4.9  | 73        |
| 109 | Synaptic biology of barrel cortex circuit assembly. <i>Seminars in Cell and Developmental Biology</i> , 2014, 35, 156-164.   | 2.3  | 19        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 110 | Behavioral state-dependent modulation of distinct interneuron subtypes and consequences for circuit function. <i>Current Opinion in Neurobiology</i> , 2014, 29, 118-125.  | 2.0  | 44        |
| 111 | Curtailing Effect of Awakening on Visual Responses of Cortical Neurons by Cholinergic Activation of Inhibitory Circuits. <i>Journal of Neuroscience</i> , 2014, 34, 10122-10133.                                       | 1.7  | 22        |
| 112 | Neural control of brain state. <i>Current Opinion in Neurobiology</i> , 2014, 29, 178-186.   | 2.0  | 142       |
| 113 | Toward a Genetic Dissection of Cortical Circuits in the Mouse. <i>Neuron</i> , 2014, 83, 1284-1302.  | 3.8  | 121       |
| 114 | Conditional deletion of <i>Mecp2</i> in parvalbumin-expressing GABAergic cells results in the absence of critical period plasticity. <i>Nature Communications</i> , 2014, 5, 5036.                                     | 5.8  | 96        |
| 115 | GABAergic interneuron to astrocyte signalling: a neglected form of cell communication in the brain. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130609.               | 1.8  | 50        |
| 116 | Oxytocin Modulates Female Sociosexual Behavior through a Specific Class of Prefrontal Cortical Interneurons. <i>Cell</i> , 2014, 159, 295-305.   | 13.5 | 223       |
| 117 | Development of Layer 1 Neurons in the Mouse Neocortex. <i>Cerebral Cortex</i> , 2014, 24, 2604-2618.   | 1.6  | 49        |
| 118 | Clonal origins of neocortical interneurons. <i>Current Opinion in Neurobiology</i> , 2014, 26, 125-131.  | 2.0  | 9         |
| 119 | <i>Npas4</i> Regulates Excitatory-Inhibitory Balance within Neural Circuits through Cell-Type-Specific Gene Programs. <i>Cell</i> , 2014, 157, 1216-1229.  | 13.5 | 315       |
| 120 | TRH regulates action potential shape in cerebral cortex pyramidal neurons. <i>Brain Research</i> , 2014, 1571, 1-11.   | 1.1  | 7         |
| 121 | Mechanism underlying unaltered cortical inhibitory synaptic transmission in contrast with enhanced excitatory transmission in <i>CaV2.1</i> knockin migraine mice. <i>Neurobiology of Disease</i> , 2014, 69, 225-234. | 2.1  | 50        |
| 122 | Molecular mechanisms of activity-dependent changes in dendritic morphology: role of R GK proteins. <i>Trends in Neurosciences</i> , 2014, 37, 399-407.   | 4.2  | 18        |
| 123 | Synaptic molecular imaging in spared and deprived columns of mouse barrel cortex with array tomography. <i>Scientific Data</i> , 2014, 1, 140046.  | 2.4  | 11        |
| 124 | Cellular and Axonal Constituents of Neocortical Molecular Layer Heterotopia. <i>Developmental Neuroscience</i> , 2014, 36, 477-489.  | 1.0  | 11        |
| 125 | An enhanced role and expanded developmental origins for gamma-aminobutyric acidergic interneurons in the human cerebral cortex. <i>Journal of Anatomy</i> , 2015, 227, 384-393.  | 0.9  | 30        |
| 126 | Building blocks of the cerebral cortex: from development to the dish. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2015, 4, 529-544.  | 5.9  | 4         |
| 127 | Cell-type specific connectivity accounts for diverse in vivo functional roles of inhibitory neurons in V1. <i>BMC Neuroscience</i> , 2015, 16, .   | 0.8  | 1         |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 128 | The Role of Inhibition in Epileptic Networks. <i>Journal of Clinical Neurophysiology</i> , 2015, 32, 227-234.  | 0.9 | 25        |
| 129 | Differential modulation of repetitive firing and synchronous network activity in neocortical interneurons by inhibition of A-type K <sup>+</sup> channels and Ih. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 89. | 1.8 | 22        |
| 130 | Interplay of environmental signals and progenitor diversity on fate specification of cortical GABAergic neurons. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 149.   | 1.8 | 25        |
| 131 | Estrogen administration modulates hippocampal GABAergic subpopulations in the hippocampus of trimethyltin-treated rats. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 433.  | 1.8 | 30        |
| 132 | Diversity and overlap of parvalbumin and somatostatin expressing interneurons in mouse presubiculum. <i>Frontiers in Neural Circuits</i> , 2015, 9, 20.  | 1.4 | 78        |
| 133 | Functional response properties of VIP-expressing inhibitory neurons in mouse visual and auditory cortex. <i>Frontiers in Neural Circuits</i> , 2015, 09, 22.   | 1.4 | 56        |
| 134 | The effects of anodal-tDCS on corticospinal excitability enhancement and its after-effects: conventional vs. unihemispheric concurrent dual-site stimulation. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 533.       | 1.0 | 38        |
| 135 | Coordination of dendritic inhibition through local disinhibitory circuits. <i>Frontiers in Synaptic Neuroscience</i> , 2015, 7, 5.   | 1.3 | 19        |
| 136 | Complementary control of sensory adaptation by two types of cortical interneurons. <i>ELife</i> , 2015, 4, .   | 2.8 | 165       |
| 137 | A survey of human brain transcriptome diversity at the single cell level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7285-7290.                                   | 3.3 | 1,194     |
| 138 | Local and afferent synaptic pathways in the striatal microcircuitry. <i>Current Opinion in Neurobiology</i> , 2015, 33, 182-187.   | 2.0 | 100       |
| 139 | What types of neocortical GABAergic neurons do really exist?. <i>E-Neuroforum</i> , 2015, 6, 49-56.  | 0.2 | 8         |
| 140 | Rac-GTPases Regulate Microtubule Stability and Axon Growth of Cortical GABAergic Interneurons. <i>Cerebral Cortex</i> , 2015, 25, 2370-2382.   | 1.6 | 37        |
| 141 | Conditional Loss of Arx From the Developing Dorsal Telencephalon Results in Behavioral Phenotypes Resembling Mild Human <i>ARX</i> Mutations. <i>Cerebral Cortex</i> , 2015, 25, 2939-2950.                                | 1.6 | 37        |
| 142 | Loss of MeCP2 in Parvalbumin-and Somatostatin-Expressing Neurons in Mice Leads to Distinct Rett Syndrome-like Phenotypes. <i>Neuron</i> , 2015, 88, 651-658.   | 3.8 | 144       |
| 143 | Traumatic Brain Injury Increases Cortical Glutamate Network Activity by Compromising GABAergic Control. <i>Cerebral Cortex</i> , 2015, 25, 2306-2320.  | 1.6 | 161       |
| 144 | A Barrel-Related Interneuron in Layer 4 of Rat Somatosensory Cortex with a High Intrabarrel Connectivity. <i>Cerebral Cortex</i> , 2015, 25, 713-725.  | 1.6 | 66        |
| 145 | A model of order-selectivity based on dynamic changes in the balance of excitation and inhibition produced by short-term synaptic plasticity. <i>Journal of Neurophysiology</i> , 2015, 113, 509-523.                      | 0.9 | 21        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 146 | Age-related changes in the central auditory system. <i>Cell and Tissue Research</i> , 2015, 361, 337-358.  | 1.5 | 118       |
| 147 | The neocortical circuit: themes and variations. <i>Nature Neuroscience</i> , 2015, 18, 170-181.  | 7.1 | 880       |
| 148 | Identification of a direct <scp>GABA</scp>ergic pallidocortical pathway in rodents. <i>European Journal of Neuroscience</i> , 2015, 41, 748-759.   | 1.2 | 66        |
| 149 | Cortical fast-spiking parvalbumin interneurons enwrapped in the perineuronal net express the metalloproteinases Adamts8, Adamts15 and Nephylisin. <i>Molecular Psychiatry</i> , 2015, 20, 154-161.                   | 4.1 | 87        |
| 150 | Prefrontal Cortical Gamma-Aminobutyric Acid Transmission and Cognitive Function: Drawing Links to Schizophrenia from Preclinical Research. <i>Biological Psychiatry</i> , 2015, 77, 929-939.                         | 0.7 | 56        |
| 151 | How Does Anodal Transcranial Direct Current Stimulation of the Pain Neuromatrix Affect Brain Excitability and Pain Perception? A Randomised, Double-Blind, Sham-Control Study. <i>PLoS ONE</i> , 2015, 10, e0118340. | 1.1 | 68        |
| 152 | Epigenomic Signatures of Neuronal Diversity in the Mammalian Brain. <i>Neuron</i> , 2015, 86, 1369-1384.   | 3.8 | 640       |
| 153 | Long-lasting changes in neural networks to compensate for altered nicotinic input. <i>Biochemical Pharmacology</i> , 2015, 97, 418-424.  | 2.0 | 10        |
| 154 | Cell-Type-Specific Activity in Prefrontal Cortex during Goal-Directed Behavior. <i>Neuron</i> , 2015, 87, 437-450.   | 3.8 | 298       |
| 155 | Vision Loss Shifts the Balance of Feedforward and Intracortical Circuits in Opposite Directions in Mouse Primary Auditory and Visual Cortices. <i>Journal of Neuroscience</i> , 2015, 35, 8790-8801.                 | 1.7 | 75        |
| 156 | Neurogliaform cells in cortical circuits. <i>Nature Reviews Neuroscience</i> , 2015, 16, 458-468.  | 4.9 | 119       |
| 157 | Dissecting the phenotypes of Dravet syndrome by gene deletion. <i>Brain</i> , 2015, 138, 2219-2233.  | 3.7 | 106       |
| 158 | Subtype-specific plasticity of inhibitory circuits in motor cortex during motor learning. <i>Nature Neuroscience</i> , 2015, 18, 1109-1115.  | 7.1 | 260       |
| 159 | The role of nicotinic acetylcholine receptors in autosomal dominant nocturnal frontal lobe epilepsy. <i>Frontiers in Physiology</i> , 2015, 6, 22.   | 1.3 | 86        |
| 160 | Cortical GABAergic Neurons. , 2015, , 69-80.   |     | 1         |
| 161 | An acetylcholine-activated microcircuit drives temporal dynamics of cortical activity. <i>Nature Neuroscience</i> , 2015, 18, 892-902.   | 7.1 | 182       |
| 162 | HCN channels are a novel therapeutic target for cognitive dysfunction in Neurofibromatosis type 1. <i>Molecular Psychiatry</i> , 2015, 20, 1311-1321.  | 4.1 | 66        |
| 163 | Interneuron epigenomes during the critical period of cortical plasticity: Implications for schizophrenia. <i>Neurobiology of Learning and Memory</i> , 2015, 124, 104-110.   | 1.0 | 36        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 164 | Duration of culture and sonic hedgehog signaling differentially specify PV versus SST cortical interneuron fates from embryonic stem cells. <i>Development (Cambridge)</i> , 2015, 142, 1267-1278.                                       | 1.2  | 38        |
| 165 | Compartmental organization of synaptic inputs to parvalbumin-expressing GABAergic neurons in mouse primary somatosensory cortex. <i>Anatomical Science International</i> , 2015, 90, 7-21.   | 0.5  | 10        |
| 166 | On the functions, mechanisms, and malfunctions of intracortical contextual modulation. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 52, 1-20.   | 2.9  | 90        |
| 167 | Cortical microarchitecture changes in genetic epilepsy. <i>Neurology</i> , 2015, 84, 1308-1316.  | 1.5  | 16        |
| 168 | The Mediodorsal Thalamus Drives Feedforward Inhibition in the Anterior Cingulate Cortex via Parvalbumin Interneurons. <i>Journal of Neuroscience</i> , 2015, 35, 5743-5753.  | 1.7  | 178       |
| 169 | Increased anxiety-like behavior and selective learning impairments are concomitant to loss of hippocampal interneurons in the presymptomatic SOD1(G93A) ALS mouse model. <i>Journal of Comparative Neurology</i> , 2015, 523, 1622-1638. | 0.9  | 30        |
| 170 | Converging models of schizophrenia – Network alterations of prefrontal cortex underlying cognitive impairments. <i>Progress in Neurobiology</i> , 2015, 134, 178-201.  | 2.8  | 71        |
| 171 | Synaptic Microcircuits in the Barrel Cortex. , 2015, , 59-108.   |      | 7         |
| 172 | Postnatal Phencyclidine (PCP) as a Neurodevelopmental Animal Model of Schizophrenia Pathophysiology and Symptomatology: A Review. <i>Current Topics in Behavioral Neurosciences</i> , 2015, 29, 403-428.                                 | 0.8  | 33        |
| 173 | Persistent Interneuronopathy in the Prefrontal Cortex of Young Adult Offspring Exposed to Ethanol In Utero. <i>Journal of Neuroscience</i> , 2015, 35, 10977-10988.  | 1.7  | 74        |
| 174 | Synaptic Basis for Differential Orientation Selectivity between Complex and Simple Cells in Mouse Visual Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 11081-11093.   | 1.7  | 14        |
| 175 | Distribution of serotonin receptor 5-HT6 mRNA in rat neuronal subpopulations: A double in situ hybridization study. <i>Neuroscience</i> , 2015, 310, 442-454.  | 1.1  | 58        |
| 176 | Reconstruction and Simulation of Neocortical Microcircuitry. <i>Cell</i> , 2015, 163, 456-492.   | 13.5 | 1,258     |
| 177 | Specific Early and Late Oddball-Evoked Responses in Excitatory and Inhibitory Neurons of Mouse Auditory Cortex. <i>Journal of Neuroscience</i> , 2015, 35, 12560-12573.  | 1.7  | 125       |
| 178 | Hypocretin (Orexin) Regulates Glutamate Input to Fast-Spiking Interneurons in Layer V of the Fr2 Region of the Murine Prefrontal Cortex. <i>Cerebral Cortex</i> , 2015, 25, 1330-1347.   | 1.6  | 63        |
| 179 | Generating Neuronal Diversity in the Mammalian Cerebral Cortex. <i>Annual Review of Cell and Developmental Biology</i> , 2015, 31, 699-720.  | 4.0  | 285       |
| 180 | Alteration by p11 of mGluR5 localization regulates depression-like behaviors. <i>Molecular Psychiatry</i> , 2015, 20, 1546-1556.   | 4.1  | 63        |
| 181 | Cortical Interneuron Subtypes Vary in Their Axonal Action Potential Properties. <i>Journal of Neuroscience</i> , 2015, 35, 15555-15567.  | 1.7  | 43        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 182 | Characterizing VIP Neurons in the Barrel Cortex of VIPcre/tdTomato Mice Reveals Layer-Specific Differences. <i>Cerebral Cortex</i> , 2015, 25, 4854-4868.   | 1.6 | 166       |
| 183 | miRNAs are Essential for the Survival and Maturation of Cortical Interneurons. <i>Cerebral Cortex</i> , 2015, 25, 1842-1857.  | 1.6 | 23        |
| 184 | GABA receptors in brain development, function, and injury. <i>Metabolic Brain Disease</i> , 2015, 30, 367-379.  | 1.4 | 215       |
| 185 | Tangential Migration in the Telencephalon. , 2015, , 45-58.   |     | 4         |
| 186 | Correlated Gene Expression and Target Specificity Demonstrate Excitatory Projection Neuron Diversity. <i>Cerebral Cortex</i> , 2015, 25, 433-449.   | 1.6 | 125       |
| 187 | Tasks for inhibitory interneurons in intact brain circuits. <i>Neuropharmacology</i> , 2015, 88, 10-23.   | 2.0 | 176       |
| 188 | Local corticotropin releasing hormone (CRH) signals to its receptor CRHR1 during postnatal development of the mouse olfactory bulb. <i>Brain Structure and Function</i> , 2016, 221, 1-20.  | 1.2 | 31        |
| 189 | Novel Striatal GABAergic Interneuron Populations Labeled in the 5HT3a <sup>&lt;sup&gt;EGFP&lt;/sup&gt; Mouse. <i>Cerebral Cortex</i>, 2016, 26, 96-105.</sup>   | 1.6 | 48        |
| 190 | Dravet Syndrome. , 2016, , 85-111.  |     | 0         |
| 191 | Neuronal Cell Types in the Neocortex. , 2016, , 183-202.  |     | 2         |
| 192 | A large fraction of neocortical myelin ensheathes axons of local inhibitory neurons. <i>ELife</i> , 2016, 5, .  | 2.8 | 226       |
| 193 | The Current Status of Somatostatin-Interneurons in Inhibitory Control of Brain Function and Plasticity. <i>Neural Plasticity</i> , 2016, 2016, 1-20.  | 1.0 | 53        |
| 194 | GABAergic Interneurons of the Striatum. <i>Handbook of Behavioral Neuroscience</i> , 2016, 24, 157-178.   | 0.7 | 19        |
| 195 | Differential Inputs to the Perisomatic and Distal-Dendritic Compartments of VIP-Positive Neurons in Layer 2/3 of the Mouse Barrel Cortex. <i>Frontiers in Neuroanatomy</i> , 2016, 10, 124.   | 0.9 | 29        |
| 196 | Activation of Pyramidal Neurons in Mouse Medial Prefrontal Cortex Enhances Food-Seeking Behavior While Reducing Impulsivity in the Absence of an Effect on Food Intake. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 63. | 1.0 | 38        |
| 197 | Lack of Cdkl5 Disrupts the Organization of Excitatory and Inhibitory Synapses and Parvalbumin Interneurons in the Primary Visual Cortex. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 261.                                 | 1.8 | 59        |
| 198 | The Diversity of Cortical Inhibitory Synapses. <i>Frontiers in Neural Circuits</i> , 2016, 10, 27.  | 1.4 | 115       |
| 199 | Inhibitory Circuits in Cortical Layer 5. <i>Frontiers in Neural Circuits</i> , 2016, 10, 35.  | 1.4 | 103       |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 200 | Somatostatin and Somatostatin-Containing Neurons in Shaping Neuronal Activity and Plasticity. <i>Frontiers in Neural Circuits</i> , 2016, 10, 48.  | 1.4 | 93        |
| 201 | Distinct Roles of SOM and VIP Interneurons during Cortical Up States. <i>Frontiers in Neural Circuits</i> , 2016, 10, 52.  | 1.4 | 33        |
| 202 | Somatostatin-Expressing Inhibitory Interneurons in Cortical Circuits. <i>Frontiers in Neural Circuits</i> , 2016, 10, 76.  | 1.4 | 150       |
| 203 | Cell-Type and State-Dependent Synchronization among Rodent Somatosensory, Visual, Perirhinal Cortex, and Hippocampus CA1. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 187.   | 1.2 | 47        |
| 204 | Microcircuits of the Neocortex. , 2016, , 85-95.   |     | 2         |
| 205 | Unihemispheric concurrent dual-site cathodal transcranial direct current stimulation: the effects on corticospinal excitability. <i>European Journal of Neuroscience</i> , 2016, 43, 1161-1172.                                  | 1.2 | 12        |
| 206 | Inferring cortical function in the mouse visual system through large-scale systems neuroscience. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 7337-7344.                  | 3.3 | 82        |
| 207 | Postnatal development of the electrophysiological properties of somatostatin interneurons in the anterior cingulate cortex of mice. <i>Scientific Reports</i> , 2016, 6, 28137.  | 1.6 | 18        |
| 208 | Neuronal activity controls the development of interneurons in the somatosensory cortex. <i>Frontiers in Biology</i> , 2016, 11, 459-470.   | 0.7 | 12        |
| 209 | Parvalbumin- and vasoactive intestinal polypeptide-expressing neocortical interneurons impose differential inhibition on Martinotti cells. <i>Nature Communications</i> , 2016, 7, 13664.  | 5.8 | 65        |
| 210 | Molecular control of two novel migratory paths for CGE-derived interneurons in the developing mouse brain. <i>Development (Cambridge)</i> , 2016, 143, 1753-65.  | 1.2 | 43        |
| 211 | Propagation of spontaneous slow-wave activity across columns and layers of the adult rat barrel cortex in vivo. <i>Brain Structure and Function</i> , 2016, 221, 4429-4449.  | 1.2 | 30        |
| 212 | Attenuation of oxidative and nitrosative stress in cortical area associates with antidepressant-like effects of tropisetron in male mice following social isolation stress. <i>Brain Research Bulletin</i> , 2016, 124, 150-163. | 1.4 | 45        |
| 213 | Inhibitory interneurons in visual cortical plasticity. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 3677-3691.  | 2.4 | 79        |
| 214 | Extracellular Molecular Markers and Soma Size of Inhibitory Neurons: Evidence for Four Subtypes of GABAergic Cells in the Inferior Colliculus. <i>Journal of Neuroscience</i> , 2016, 36, 3988-3999.                             | 1.7 | 50        |
| 215 | Talk Louder So I Can See You. <i>Neuron</i> , 2016, 89, 887-888.   | 3.8 | 2         |
| 216 | Postnatal development of GABAergic interneurons in the neocortical subplate of mice. <i>Neuroscience</i> , 2016, 322, 78-93.   | 1.1 | 16        |
| 217 | Inhibitory stabilization and visual coding in cortical circuits with multiple interneuron subtypes. <i>Journal of Neurophysiology</i> , 2016, 115, 1399-1409.  | 0.9 | 129       |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 218 | Diverse Ensembles of Inhibitory Interneurons. <i>Neuron</i> , 2016, 90, 4-6.   | 3.8 | 11        |
| 219 | Substantial DNA methylation differences between two major neuronal subtypes in human brain. <i>Nucleic Acids Research</i> , 2016, 44, 2593-2612.   | 6.5 | 97        |
| 220 | Immediate manifestation of acoustic trauma in the auditory cortex is layer specific and cell type dependent. <i>Journal of Neurophysiology</i> , 2016, 115, 1860-1874.   | 0.9 | 22        |
| 221 | Functional Differentiation of Cholecystokinin-Containing Interneurons Destined for the Cerebral Cortex. <i>Cerebral Cortex</i> , 2017, 27, bhw094.   | 1.6 | 19        |
| 222 | Cooperative Subnetworks of Molecularly Similar Interneurons in Mouse Neocortex. <i>Neuron</i> , 2016, 90, 86-100.  | 3.8 | 173       |
| 223 | In vivo imaging of cortical interneurons migrating in the intermediate/subventricular zones. <i>Neuroscience Research</i> , 2016, 110, 68-71.  | 1.0 | 6         |
| 224 | Strategies and Tools for Combinatorial Targeting of GABAergic Neurons in Mouse Cerebral Cortex. <i>Neuron</i> , 2016, 91, 1228-1243.   | 3.8 | 260       |
| 225 | Cell-Specific Targeting of Genetically Encoded Tools for Neuroscience. <i>Annual Review of Genetics</i> , 2016, 50, 571-594.   | 3.2 | 49        |
| 226 | Caudal Ganglionic Eminence Precursor Transplants Disperse and Integrate as Lineage-Specific Interneurons but Do Not Induce Cortical Plasticity. <i>Cell Reports</i> , 2016, 16, 1391-1404.   | 2.9 | 31        |
| 227 | Selective Maturation of Temporal Dynamics of Intracortical Excitatory Transmission at the Critical Period Onset. <i>Cell Reports</i> , 2016, 16, 1677-1689.  | 2.9 | 28        |
| 228 | Potential roles of cholinergic modulation in the neural coding of location and movement speed. <i>Journal of Physiology (Paris)</i> , 2016, 110, 52-64.  | 2.1 | 14        |
| 229 | Neuropeptides shaping the central nervous system development: Spatiotemporal actions of VIP and PACAP through complementary signaling pathways. <i>Journal of Neuroscience Research</i> , 2016, 94, 1472-1487.                         | 1.3 | 15        |
| 230 | Tyrosine hydroxylase-producing neurons in the human cerebral cortex do not colocalize with calcium-binding proteins or the serotonin 3A receptor. <i>Journal of Chemical Neuroanatomy</i> , 2016, 78, 1-9.                             | 1.0 | 2         |
| 231 | Major amyloid- $\beta$ degrading enzymes, endothelin-converting enzyme-2 and neprilysin, are expressed by distinct populations of GABAergic interneurons in hippocampus and neocortex. <i>Neurobiology of Aging</i> , 2016, 48, 83-92. | 1.5 | 34        |
| 232 | Differential regulation of spontaneous and evoked inhibitory synaptic transmission in somatosensory cortex by retinoic acid. <i>Synapse</i> , 2016, 70, 445-452.   | 0.6 | 12        |
| 233 | Psychedelics Recruit Multiple Cellular Types and Produce Complex Transcriptional Responses Within the Brain. <i>EBioMedicine</i> , 2016, 11, 262-277.  | 2.7 | 53        |
| 234 | Distinct Roles of Parvalbumin- and Somatostatin-Expressing Interneurons in Working Memory. <i>Neuron</i> , 2016, 92, 902-915.  | 3.8 | 155       |
| 235 | The antiepileptic and ictogenic effects of optogenetic neurostimulation of PV-expressing interneurons. <i>Journal of Neurophysiology</i> , 2016, 116, 1694-1704.   | 0.9 | 51        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 236 | Depth-specific optogenetic control in vivo with a scalable, high-density $\frac{1}{4}$ LED neural probe. <i>Scientific Reports</i> , 2016, 6, 28381.   | 1.6  | 118       |
| 237 | A viral strategy for targeting and manipulating interneurons across vertebrate species. <i>Nature Neuroscience</i> , 2016, 19, 1743-1749.  | 7.1  | 396       |
| 238 | Effects of Hypocretin/Orexin and Major Transmitters of Arousal on Fast Spiking Neurons in Mouse Cortical Layer 6B. <i>Cerebral Cortex</i> , 2016, 26, 3553-3562.   | 1.6  | 16        |
| 239 | Distinct Functional Groups Emerge from the Intrinsic Properties of Molecularly Identified Entorhinal Interneurons and Principal Cells. <i>Cerebral Cortex</i> , 2017, 27, bhw143.  | 1.6  | 24        |
| 240 | VIP+ interneurons control neocortical activity across brain states. <i>Journal of Neurophysiology</i> , 2016, 115, 3008-3017.  | 0.9  | 84        |
| 241 | Involvement of cortical fast-spiking parvalbumin-positive basket cells in epilepsy. <i>Progress in Brain Research</i> , 2016, 226, 81-126.   | 0.9  | 74        |
| 242 | Immunocytochemical heterogeneity of somatostatin-expressing GABAergic interneurons in layers II and III of the mouse cingulate cortex: A combined immunofluorescence/design-based stereologic study. <i>Journal of Comparative Neurology</i> , 2016, 524, 2281-2299. | 0.9  | 15        |
| 243 | Synaptic interactions and inhibitory regulation in auditory cortex. <i>Biological Psychology</i> , 2016, 116, 4-9.   | 1.1  | 10        |
| 244 | Cell migration in the developing rodent olfactory system. <i>Cellular and Molecular Life Sciences</i> , 2016, 73, 2467-2490.   | 2.4  | 24        |
| 245 | BCL11B/CTIP2 is highly expressed in GABAergic interneurons of the mouse somatosensory cortex. <i>Journal of Chemical Neuroanatomy</i> , 2016, 71, 1-5.   | 1.0  | 36        |
| 246 | Cross-Modality Sharpening of Visual Cortical Processing through Layer-1-Mediated Inhibition and Disinhibition. <i>Neuron</i> , 2016, 89, 1031-1045.  | 3.8  | 239       |
| 247 | Evidence That the Laminar Fate of LGE/CGE-Derived Neocortical Interneurons Is Dependent on Their Progenitor Domains. <i>Journal of Neuroscience</i> , 2016, 36, 2044-2056.   | 1.7  | 19        |
| 248 | GABAergic interneurons form transient layer-specific circuits in early postnatal neocortex. <i>Nature Communications</i> , 2016, 7, 10584.   | 5.8  | 66        |
| 249 | Closed-loop feedback control and bifurcation analysis of epileptiform activity via optogenetic stimulation in a mathematical model of human cortex. <i>Physical Review E</i> , 2016, 93, 012416.   | 0.8  | 14        |
| 250 | Early Somatostatin Interneuron Connectivity Mediates the Maturation of Deep Layer Cortical Circuits. <i>Neuron</i> , 2016, 89, 521-535.  | 3.8  | 154       |
| 251 | NPY+, but not PV+-GABAergic neurons mediated long-range inhibition from infra- to prelimbic cortex. <i>Translational Psychiatry</i> , 2016, 6, e736-e736.  | 2.4  | 39        |
| 252 | Sensory experience regulates cortical inhibition by inducing IGF1 in VIP neurons. <i>Nature</i> , 2016, 531, 371-375.  | 13.7 | 146       |
| 253 | Unaltered Network Activity and Interneuronal Firing During Spontaneous Cortical Dynamics In Vivo in a Mouse Model of Severe Myoclonic Epilepsy of Infancy. <i>Cerebral Cortex</i> , 2016, 26, 1778-1794.   | 1.6  | 62        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 254 | Adult mouse cortical cell taxonomy revealed by single cell transcriptomics. <i>Nature Neuroscience</i> , 2016, 19, 335-346.  | 7.1 | 1,522     |
| 255 | Neuronal factors determining high intelligence. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150180.   | 1.8 | 116       |
| 256 | Early rescue of interneuron disease trajectory in developmental epilepsies. <i>Current Opinion in Neurobiology</i> , 2016, 36, 82-88.  | 2.0 | 4         |
| 257 | Transgenic labeling of parvalbumin-expressing neurons with tdTomato. <i>Neuroscience</i> , 2016, 321, 236-245.   | 1.1 | 43        |
| 258 | Cotransmission of acetylcholine and GABA. <i>Neuropharmacology</i> , 2016, 100, 40-46.   | 2.0 | 81        |
| 259 | Two cellular hypotheses explaining the initiation of ketamine's antidepressant actions: Direct inhibition and disinhibition. <i>Neuropharmacology</i> , 2016, 100, 17-26.                                | 2.0 | 167       |
| 260 | Thalamocortical Innervation Pattern in Mouse Auditory and Visual Cortex: Laminar and Cell-Type Specificity. <i>Cerebral Cortex</i> , 2016, 26, 2612-2625.  | 1.6 | 141       |
| 261 | Fate determination of cerebral cortical GABAergic interneurons and their derivation from stem cells. <i>Brain Research</i> , 2017, 1655, 277-282.  | 1.1 | 11        |
| 262 | Mechanisms of memory storage in a model perirhinal network. <i>Brain Structure and Function</i> , 2017, 222, 183-200.  | 1.2 | 9         |
| 263 | Micro-connectomics: probing the organization of neuronal networks at the cellular scale. <i>Nature Reviews Neuroscience</i> , 2017, 18, 131-146.   | 4.9 | 103       |
| 264 | La Deletion from Mouse Brain Alters Pre-tRNA Metabolism and Accumulation of Pre-5.8S rRNA, with Neuron Death and Reactive Astrocytosis. <i>Molecular and Cellular Biology</i> , 2017, 37, .              | 1.1 | 8         |
| 265 | Cellular and Circuitry Bases of Autism: Lessons Learned from the Temporospatial Manipulation of Autism Genes in the Brain. <i>Neuroscience Bulletin</i> , 2017, 33, 205-218.                             | 1.5 | 13        |
| 266 | Quantification of neuronal density across cortical depth using automated 3D analysis of confocal image stacks. <i>Brain Structure and Function</i> , 2017, 222, 3333-3353.                               | 1.2 | 25        |
| 267 | A Back Door to Cortical Development. <i>Cell Stem Cell</i> , 2017, 20, 295-296.  | 5.2 | 2         |
| 268 | Reduced local input to fast-spiking interneurons in the somatosensory cortex in the GABA <sub>A</sub> $\gamma$ 2 R43Q mouse model of absence epilepsy. <i>Epilepsia</i> , 2017, 58, 597-607.             | 2.6 | 6         |
| 269 | A role for GABAergic interneuron diversity in circuit development and plasticity of the neonatal cerebral cortex. <i>Current Opinion in Neurobiology</i> , 2017, 43, 149-155.                            | 2.0 | 50        |
| 270 | Age-dependent decrease of GAD65/67 mRNAs but normal densities of GABAergic interneurons in the brain regions of Shank3-overexpressing manic mouse model. <i>Neuroscience Letters</i> , 2017, 649, 48-54. | 1.0 | 24        |
| 271 | Global Representations of Goal-Directed Behavior in Distinct Cell Types of Mouse Neocortex. <i>Neuron</i> , 2017, 94, 891-907.e6.  | 3.8 | 316       |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 272 | Visual processing mode switching regulated by VIP cells. <i>Scientific Reports</i> , 2017, 7, 1843.  | 1.6 | 15        |
| 273 | ARX polyalanine expansion mutations lead to migration impediment in the rostral cortex coupled with a developmental deficit of calbindin-positive cortical GABAergic interneurons. <i>Neuroscience</i> , 2017, 357, 220-231. | 1.1 | 16        |
| 274 | Molecular mechanisms of experience-dependent maturation in cortical GABAergic inhibition. <i>Journal of Neurochemistry</i> , 2017, 142, 649-661.   | 2.1 | 23        |
| 275 | Forty Years of Sodium Channels: Structure, Function, Pharmacology, and Epilepsy. <i>Neurochemical Research</i> , 2017, 42, 2495-2504.  | 1.6 | 125       |
| 276 | Somatostatin-Positive Gamma-Aminobutyric Acid Interneuron Deficits in Depression: Cortical Microcircuit and Therapeutic Perspectives. <i>Biological Psychiatry</i> , 2017, 82, 549-559.                                      | 0.7 | 238       |
| 277 | Atypical PKC and Notch Inhibition Differentially Modulate Cortical Interneuron Subclass Fate from Embryonic Stem Cells. <i>Stem Cell Reports</i> , 2017, 8, 1135-1143.   | 2.3 | 6         |
| 278 | A robot for high yield electrophysiology and morphology of single neurons in vivo. <i>Nature Communications</i> , 2017, 8, 15604.  | 5.8 | 19        |
| 279 | Single-cell RNA sequencing identifies distinct mouse medial ganglionic eminence cell types. <i>Scientific Reports</i> , 2017, 7, 45656.  | 1.6 | 67        |
| 280 | Epileptogenic high-frequency oscillations skip the motor area in children with multilobar drug-resistant epilepsy. <i>Clinical Neurophysiology</i> , 2017, 128, 1197-1205.   | 0.7 | 29        |
| 281 | Searching for Cross-Diagnostic Convergence: Neural Mechanisms Governing Excitation and Inhibition Balance in Schizophrenia and Autism Spectrum Disorders. <i>Biological Psychiatry</i> , 2017, 81, 848-861.                  | 0.7 | 217       |
| 282 | The related neuronal endosomal proteins NEEP21 (Nsg1) and P19 (Nsg2) have divergent expression profiles in vivo. <i>Journal of Comparative Neurology</i> , 2017, 525, 1861-1878.   | 0.9 | 14        |
| 283 | Transplantation of GABAergic interneurons for cell-based therapy. <i>Progress in Brain Research</i> , 2017, 231, 57-85.  | 0.9 | 17        |
| 284 | Trajectory of Parvalbumin Cell Impairment and Loss of Cortical Inhibition in Traumatic Brain Injury. <i>Cerebral Cortex</i> , 2017, 27, 5509-5524.   | 1.6 | 64        |
| 285 | Neuronal adaptation in the somatosensory system of rodents. <i>Neuroscience</i> , 2017, 343, 66-76.  | 1.1 | 25        |
| 286 | Gene-environment interactions in cortical interneuron development and dysfunction: A review of preclinical studies. <i>NeuroToxicology</i> , 2017, 58, 120-129.  | 1.4 | 13        |
| 287 | Unique Maturation Trajectories of Basket and Chandelier Cells in the Neocortex. <i>Journal of Neuroscience</i> , 2017, 37, 10255-10257.  | 1.7 | 0         |
| 288 | Cortical Interneurons Differentially Shape Frequency Tuning following Adaptation. <i>Cell Reports</i> , 2017, 21, 878-890.   | 2.9 | 89        |
| 289 | Cortical interneuron development: a tale of time and space. <i>Development (Cambridge)</i> , 2017, 144, 3867-3878.   | 1.2 | 166       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 290 | Brain-wide Maps Reveal Stereotyped Cell-Type-Based Cortical Architecture and Subcortical Sexual Dimorphism. <i>Cell</i> , 2017, 171, 456-469.e22.  | 13.5 | 301       |
| 291 | Parvalbumin-expressing interneurons can act solo while somatostatin-expressing interneurons act in chorus in most cases on cortical pyramidal cells. <i>Scientific Reports</i> , 2017, 7, 12764.   | 1.6  | 30        |
| 292 | Hippocampal GABAergic Inhibitory Interneurons. <i>Physiological Reviews</i> , 2017, 97, 1619-1747.   | 13.1 | 601       |
| 293 | Parvalbumin and Somatostatin Interneurons Control Different Space-Coding Networks in the Medial Entorhinal Cortex. <i>Cell</i> , 2017, 171, 507-521.e17.   | 13.5 | 100       |
| 294 | Cortical inhibitory interneurons control sensory processing. <i>Current Opinion in Neurobiology</i> , 2017, 46, 200-207.   | 2.0  | 98        |
| 295 | Serotonin Decreases the Gain of Visual Responses in Awake Macaque V1. <i>Journal of Neuroscience</i> , 2017, 37, 11390-11405.  | 1.7  | 47        |
| 296 | Disrupted cholinergic modulation can underlie abnormal gamma rhythms in schizophrenia and auditory hallucination. <i>Journal of Computational Neuroscience</i> , 2017, 43, 173-187.  | 0.6  | 5         |
| 297 | Heterotopic Transplantations Reveal Environmental Influences on Interneuron Diversity and Maturation. <i>Cell Reports</i> , 2017, 21, 721-731.   | 2.9  | 25        |
| 298 | Optogenetic Modulation of a Minor Fraction of Parvalbumin-Positive Interneurons Specifically Affects Spatiotemporal Dynamics of Spontaneous and Sensory-Evoked Activity in Mouse Somatosensory Cortex in Vivo. <i>Cerebral Cortex</i> , 2017, 27, 5784-5803. | 1.6  | 37        |
| 299 | Coevolution in the timing of GABAergic and pyramidal neuron maturation in primates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171169.  | 1.2  | 18        |
| 300 | Radial glia in the ventral telencephalon. <i>FEBS Letters</i> , 2017, 591, 3942-3959.  | 1.3  | 48        |
| 301 | Ephrin-A2 regulates excitatory neuron differentiation and interneuron migration in the developing neocortex. <i>Scientific Reports</i> , 2017, 7, 11813.   | 1.6  | 9         |
| 302 | Postnatal development of GABAergic interneurons and perineuronal nets in mouse temporal cortex subregions. <i>International Journal of Developmental Neuroscience</i> , 2017, 63, 27-37.   | 0.7  | 10        |
| 303 | Precise inhibitory microcircuit assembly of developmentally related neocortical interneurons in clusters. <i>Nature Communications</i> , 2017, 8, 16091.   | 5.8  | 26        |
| 304 | Auditory cortex interneuron development requires cadherins operating hair-cell mechano-electrical transduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7765-7774.                               | 3.3  | 35        |
| 305 | Neuronal cell-type classification: challenges, opportunities and the path forward. <i>Nature Reviews Neuroscience</i> , 2017, 18, 530-546.   | 4.9  | 664       |
| 306 | Interneuronopathies and their role in early life epilepsies and neurodevelopmental disorders. <i>Epilepsia Open</i> , 2017, 2, 284-306.  | 1.3  | 62        |
| 307 | Developmental Dysfunction of VIP Interneurons Impairs Cortical Circuits. <i>Neuron</i> , 2017, 95, 884-895.e9.   | 3.8  | 123       |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 308 | Characterization of GABAergic Marker Expression in the Chronic Unpredictable Stress Model of Depression. <i>Chronic Stress</i> , 2017, 1, 247054701772045.  | 1.7 | 81        |
| 309 | Dissecting Cell-Type Composition and Activity-Dependent Transcriptional State in Mammalian Brains by Massively Parallel Single-Nucleus RNA-Seq. <i>Molecular Cell</i> , 2017, 68, 1006-1015.e7.   | 4.5 | 143       |
| 310 | Default Patterning Produces Pan-cortical Glutamatergic and CGE/LGE-like GABAergic Neurons from Human Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2017, 9, 1463-1476.   | 2.3 | 14        |
| 311 | A small molecule activator of Na <sup>v</sup> 1.1 channels increases fast-spiking interneuron excitability and GABAergic transmission <i>in vitro</i> and has anti-convulsive effects <i>in vivo</i> . <i>European Journal of Neuroscience</i> , 2017, 46, 1887-1896. | 1.2 | 22        |
| 312 | Distinct cortical and sub-cortical neurogenic domains for GABAergic interneuron precursor transcription factors NKX2.1, OLIG2 and COUP-TFII in early fetal human telencephalon. <i>Brain Structure and Function</i> , 2017, 222, 2309-2328.                           | 1.2 | 37        |
| 313 | Antagonism of the 5-HT <sub>6</sub> receptor – Preclinical rationale for the treatment of Alzheimer's disease. <i>Neuropharmacology</i> , 2017, 125, 50-63.   | 2.0 | 60        |
| 314 | Modeling the neural substrates of learning through conditioning: A two-phased model. <i>IBM Journal of Research and Development</i> , 2017, 61, 9:1-9:11.   | 3.2 | 0         |
| 315 | ErbB4 signaling in the prelimbic cortex regulates fear expression. <i>Translational Psychiatry</i> , 2017, 7, e1168-e1168.  | 2.4 | 32        |
| 316 | Network-Level Control of Frequency Tuning in Auditory Cortex. <i>Neuron</i> , 2017, 95, 412-423.e4.   | 3.8 | 180       |
| 317 | Somatostatin Neurons in the Basal Forebrain Promote High-Calorie Food Intake. <i>Cell Reports</i> , 2017, 20, 112-123.  | 2.9 | 47        |
| 318 | Chronic nicotine differentially affects murine transcriptome profiling in isolated cortical interneurons and pyramidal neurons. <i>BMC Genomics</i> , 2017, 18, 194.  | 1.2 | 7         |
| 319 | Parallel processing by cortical inhibition enables context-dependent behavior. <i>Nature Neuroscience</i> , 2017, 20, 62-71.  | 7.1 | 307       |
| 320 | α4β2 – nicotinic receptors stimulate GABA release onto fast-spiking cells in layer V of mouse prefrontal (Fr2) cortex. <i>Neuroscience</i> , 2017, 340, 48-61.  | 1.1 | 20        |
| 321 | Disinhibition of somatostatin-positive GABAergic interneurons results in an anxiolytic and antidepressant-like brain state. <i>Molecular Psychiatry</i> , 2017, 22, 920-930.  | 4.1 | 153       |
| 322 | Anatomy of the Cerebral Cortex. , 2017, , 3-36.   |     | 0         |
| 323 | Functional dissection of inhibitory microcircuits in the visual cortex. <i>Neuroscience Research</i> , 2017, 116, 70-76.  | 1.0 | 7         |
| 324 | Spatial Embryonic Origin Delineates GABAergic Hub Neurons Driving Network Dynamics in the Developing Entorhinal Cortex. <i>Cerebral Cortex</i> , 2017, 27, 4649-4661.   | 1.6 | 26        |
| 325 | Distinct Inhibitory Circuits Orchestrate Cortical beta and gamma Band Oscillations. <i>Neuron</i> , 2017, 96, 1403-1418.e6.   | 3.8 | 256       |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 326 | Progress and challenges for understanding the function of cortical microcircuits in auditory processing. <i>Nature Communications</i> , 2017, 8, 2165.  | 5.8 | 32        |
| 327 | Sculpting Cerebral Cortex with Serotonin in Rodent and Primate. , 2017, , .   |     | 3         |
| 328 | The Cerebral Cortex. , 2017, , 263-288.   |     | 7         |
| 329 | DNA Methylation Profiling of Human Prefrontal Cortex Neurons in Heroin Users Shows Significant Difference between Genomic Contexts of Hyper- and Hypomethylation and a Younger Epigenetic Age. <i>Genes</i> , 2017, 8, 152. | 1.0 | 66        |
| 330 | A Laminar Organization for Selective Cortico-Cortical Communication. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 71.   | 0.9 | 96        |
| 331 | Cornu Ammonis Regionsâ€™ Antecedents of Cortical Layers?. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 83.  | 0.9 | 11        |
| 332 | HCN Channel Modulation of Synaptic Integration in GABAergic Interneurons in Malformed Rat Neocortex. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 109.   | 1.8 | 17        |
| 333 | NCAM Regulates Inhibition and Excitability in Layer 2/3 Pyramidal Cells of Anterior Cingulate Cortex. <i>Frontiers in Neural Circuits</i> , 2017, 11, 19.   | 1.4 | 4         |
| 334 | Plasticity during Sleep Is Linked to Specific Regulation of Cortical Circuit Activity. <i>Frontiers in Neural Circuits</i> , 2017, 11, 65.  | 1.4 | 57        |
| 335 | Modulation of Hippocampal Circuits by Muscarinic and Nicotinic Receptors. <i>Frontiers in Neural Circuits</i> , 2017, 11, 102.  | 1.4 | 72        |
| 336 | A Computational Analysis of the Function of Three Inhibitory Cell Types in Contextual Visual Processing. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 28.   | 1.2 | 31        |
| 337 | Rostro-Caudal and Caudo-Rostral Migrations in the Telencephalon: Going Forward or Backward?. <i>Frontiers in Neuroscience</i> , 2017, 11, 692.  | 1.4 | 12        |
| 338 | Architecture of the Entorhinal Cortex A Review of Entorhinal Anatomy in Rodents with Some Comparative Notes. <i>Frontiers in Systems Neuroscience</i> , 2017, 11, 46.   | 1.2 | 250       |
| 339 | Serotonin enhances excitability and gamma frequency temporal integration in mouse prefrontal fast-spiking interneurons. <i>ELife</i> , 2017, 6, .   | 2.8 | 39        |
| 340 | Paradoxical response reversal of top-down modulation in cortical circuits with three interneuron types. <i>ELife</i> , 2017, 6, .   | 2.8 | 47        |
| 341 | Information Integration from Distributed Threshold-Based Interactions. <i>Complexity</i> , 2017, 2017, 1-14.  | 0.9 | 4         |
| 342 | Chrna2-Martinotti Cells Synchronize Layer 5 Type A Pyramidal Cells via Rebound Excitation. <i>PLoS Biology</i> , 2017, 15, e2001392.  | 2.6 | 91        |
| 343 | Function and Evolution of the Reptilian Cerebral Cortex. , 2017, , 491-518.   |     | 8         |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 344 | Subcellular Targeting of VIP Boutons in Mouse Barrel Cortex is Layer-Dependent and not Restricted to Interneurons. <i>Cerebral Cortex</i> , 2017, 27, 5353-5368.  | 1.6  | 45        |
| 345 | Individual Variability in the Functional Organization of the Cerebral Cortex Across a Lifetime: A Substrate for Evolution Across Generations. , 2017, , 343-356.  |      | 2         |
| 346 | Loss of GABA <sub>B</sub> -mediated interhemispheric synaptic inhibition in stroke periphery. <i>Journal of Physiology</i> , 2018, 596, 1949-1964.  | 1.3  | 18        |
| 347 | Multiple long-range inputs evoke NMDA currents in prefrontal cortex fast-spiking interneurons. <i>Neuropsychopharmacology</i> , 2018, 43, 2101-2108.  | 2.8  | 16        |
| 348 | Developmental diversification of cortical inhibitory interneurons. <i>Nature</i> , 2018, 555, 457-462.  | 13.7 | 393       |
| 349 | Synaptic and circuit development of the primary sensory cortex. <i>Experimental and Molecular Medicine</i> , 2018, 50, 1-9.   | 3.2  | 14        |
| 350 | Cholinergic Behavior State-Dependent Mechanisms of Neocortical Gain Control: a Neurocomputational Study. <i>Molecular Neurobiology</i> , 2018, 55, 249-257.   | 1.9  | 6         |
| 351 | Entorhinal fast-spiking speed cells project to the hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E1627-E1636.                                | 3.3  | 44        |
| 352 | Neurochemical Characterization of PSA-NCAM + Cells in the Human Brain and Phenotypic Quantification in Alzheimer's Disease Entorhinal Cortex. <i>Neuroscience</i> , 2018, 372, 289-303.                         | 1.1  | 24        |
| 353 | Maternal thyroid hormone is required for parvalbumin neurone development in the anterior hypothalamic area. <i>Journal of Neuroendocrinology</i> , 2018, 30, e12573.  | 1.2  | 27        |
| 354 | Parvalbumin fast-spiking interneurons are selectively altered by paediatric traumatic brain injury. <i>Journal of Physiology</i> , 2018, 596, 1277-1293.  | 1.3  | 26        |
| 355 | Input-Specific NMDAR-Dependent Potentiation of Dendritic GABAergic Inhibition. <i>Neuron</i> , 2018, 97, 368-377.e3.  | 3.8  | 101       |
| 356 | Morphological and Functional Characterization of Non-fast-Spiking GABAergic Interneurons in Layer 4 Microcircuitry of Rat Barrel Cortex. <i>Cerebral Cortex</i> , 2018, 28, 1439-1457.                          | 1.6  | 29        |
| 357 | Optogenetic dissection of roles of specific cortical interneuron subtypes in GABAergic network synchronization. <i>Journal of Physiology</i> , 2018, 596, 901-919.  | 1.3  | 22        |
| 358 | NLGN1 and NLGN2 in the prefrontal cortex: their role in memory consolidation and strengthening. <i>Current Opinion in Neurobiology</i> , 2018, 48, 122-130.   | 2.0  | 26        |
| 359 | Dravet syndrome: a sodium channel interneuronopathy. <i>Current Opinion in Physiology</i> , 2018, 2, 42-50.   | 0.9  | 103       |
| 360 | Amyloid $\beta$ causes excitation/inhibition imbalance through dopamine receptor 1-dependent disruption of fast-spiking GABAergic input in anterior cingulate cortex. <i>Scientific Reports</i> , 2018, 8, 302. | 1.6  | 48        |
| 361 | The GABA <sub>A</sub> Receptor $\beta$ 2 Subunit Is Required for Inhibitory Transmission. <i>Neuron</i> , 2018, 98, 718-725.e3.   | 3.8  | 40        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 362 | Auditory Cortex Circuits. Springer Handbook of Auditory Research, 2018, , 199-233.   | 0.3 | 6         |
| 363 | Solving Constraint-Satisfaction Problems with Distributed Neocortical-Like Neuronal Networks. Neural Computation, 2018, 30, 1359-1393.   | 1.3 | 12        |
| 364 | Altered expression of schizophrenia-related genes in mice lacking mGlu5 receptors. European Archives of Psychiatry and Clinical Neuroscience, 2018, 268, 77-87.  | 1.8 | 6         |
| 365 | Neurobiological bases of autism's epilepsy comorbidity: a focus on excitation/inhibition imbalance. European Journal of Neuroscience, 2018, 47, 534-548.   | 1.2 | 187       |
| 366 | POm Thalamocortical Input Drives Layer-Specific Microcircuits in Somatosensory Cortex. Cerebral Cortex, 2018, 28, 1312-1328.   | 1.6 | 101       |
| 367 | Mild Traumatic Brain Injury Induces Structural and Functional Disconnection of Local Neocortical Inhibitory Networks via Parvalbumin Interneuron Diffuse Axonal Injury. Cerebral Cortex, 2018, 28, 1625-1644.                  | 1.6 | 38        |
| 368 | A Schizophrenia-Related Deletion Leads to KCNQ2-Dependent Abnormal Dopaminergic Modulation of Prefrontal Cortical Interneuron Activity. Cerebral Cortex, 2018, 28, 2175-2191.  | 1.6 | 19        |
| 369 | Inhibitory Interneurons and their Circuit Motifs in the Many Layers of the Barrel Cortex. Neuroscience, 2018, 368, 132-151.  | 1.1 | 104       |
| 370 | Parvalbumin-Positive Interneurons Regulate Neuronal Ensembles in Visual Cortex. Cerebral Cortex, 2018, 28, 1831-1845.  | 1.6 | 65        |
| 371 | Cortical Circuits of Callosal GABAergic Neurons. Cerebral Cortex, 2018, 28, 1154-1167.   | 1.6 | 54        |
| 372 | Synaptic Integration in Cortical Inhibitory Neuron Dendrites. Neuroscience, 2018, 368, 115-131.  | 1.1 | 18        |
| 373 | Anatomical Correlates of Local, Translaminar, and Transcolumnar Inhibition by Layer 6 GABAergic Interneurons in Somatosensory Cortex. Cerebral Cortex, 2018, 28, 2763-2774.  | 1.6 | 10        |
| 374 | <i>Dlx1</i> and <i>Dlx2</i> Promote Interneuron GABA Synthesis, Synaptogenesis, and Dendritogenesis. Cerebral Cortex, 2018, 28, 3797-3815.   | 1.6 | 72        |
| 375 | Blockade of 5-HT <sub>3</sub> receptors with granisetron does not affect trigeminothalamic nociceptive transmission in rats: Implication for migraine. Clinical and Experimental Pharmacology and Physiology, 2018, 45, 34-41. | 0.9 | 7         |
| 376 | Endogenous neurosteroids influence synaptic GABA <sub>A</sub> receptors during postnatal development. Journal of Neuroendocrinology, 2018, 30, e12537.   | 1.2 | 12        |
| 377 | Conserved rules in embryonic development of cortical interneurons. Seminars in Cell and Developmental Biology, 2018, 76, 86-100.   | 2.3 | 42        |
| 378 | Generation of diverse cortical inhibitory interneurons. Wiley Interdisciplinary Reviews: Developmental Biology, 2018, 7, e306.   | 5.9 | 30        |
| 379 | Age-dependent and region-specific alteration of parvalbumin neurons and perineuronal nets in the mouse cerebral cortex. Neurochemistry International, 2018, 112, 59-70.  | 1.9 | 53        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 380 | Selective activation of parvalbumin interneurons prevents stress-induced synapse loss and perceptual defects. <i>Molecular Psychiatry</i> , 2018, 23, 1614-1625.                                     | 4.1 | 80        |
| 381 | Neuromodulation of Hippocampal Cells and Circuits. <i>Springer Series in Computational Neuroscience</i> , 2018, , 227-325.   | 0.3 | 3         |
| 382 | Cell Type-Specific Gene Expression of Alpha 5 Subunit-Containing Gamma-Aminobutyric Acid Subtype A Receptors in Human and Mouse Frontal Cortex. <i>Molecular Neuropsychiatry</i> , 2018, 4, 204-215. | 3.0 | 20        |
| 383 | 5-HTR2A and 5-HTR3A but not 5-HTR1A antagonism impairs the cross-modal reactivation of deprived visual cortex in adulthood. <i>Molecular Brain</i> , 2018, 11, 65.                                   | 1.3 | 14        |
| 384 | Perineuronal nets decrease membrane capacitance of peritumoral fast spiking interneurons in a model of epilepsy. <i>Nature Communications</i> , 2018, 9, 4724.                                       | 5.8 | 129       |
| 385 | Cell Densities in the Mouse Brain: A Systematic Review. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 83.   | 0.9 | 260       |
| 386 | Heterogeneity and Diversity of Striatal GABAergic Interneurons: Update 2018. <i>Frontiers in Neuroanatomy</i> , 2018, 12, 91.  | 0.9 | 145       |
| 387 | Animal Models in Psychiatric Disease: A Circuit-Search Approach. <i>Harvard Review of Psychiatry</i> , 2018, 26, 298-303.  | 0.9 | 3         |
| 388 | Progressive divisions of multipotent neural progenitors generate late-born chandelier cells in the neocortex. <i>Nature Communications</i> , 2018, 9, 4595.  | 5.8 | 13        |
| 389 | Inhibitory control of the excitatory/inhibitory balance in psychiatric disorders. <i>F1000Research</i> , 2018, 7, 23.  | 0.8 | 149       |
| 390 | Cell Type Specific Representation of Vibro-tactile Stimuli in the Mouse Primary Somatosensory Cortex. <i>Frontiers in Neural Circuits</i> , 2018, 12, 109.   | 1.4 | 12        |
| 391 | Early Excitatory Activity-Dependent Maturation of Somatostatin Interneurons in Cortical Layer 2/3 of Mice. <i>Cerebral Cortex</i> , 2019, 29, 4107-4118.   | 1.6 | 9         |
| 392 | In vivo Optogenetic Approach to Study Neuron-Oligodendroglia Interactions in Mouse Pups. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 477.  | 1.8 | 14        |
| 393 | Electrophysiological Profiling of Neocortical Neural Subtypes: A Semi-Supervised Method Applied to in vivo Whole-Cell Patch-Clamp Data. <i>Frontiers in Neuroscience</i> , 2018, 12, 823.            | 1.4 | 17        |
| 394 | Loss of interneurons and disruption of perineuronal nets in the cerebral cortex following hypoxia-ischaemia in near-term fetal sheep. <i>Scientific Reports</i> , 2018, 8, 17686.                    | 1.6 | 22        |
| 395 | Ketamine and selective activation of parvalbumin interneurons inhibit stress-induced dendritic spine elimination. <i>Translational Psychiatry</i> , 2018, 8, 272.                                    | 2.4 | 60        |
| 396 | Lateral inhibition by Martinotti interneurons is facilitated by cholinergic inputs in human and mouse neocortex. <i>Nature Communications</i> , 2018, 9, 4101.                                       | 5.8 | 75        |
| 397 | Inhibitory Interneurons Regulate Temporal Precision and Correlations in Cortical Circuits. <i>Trends in Neurosciences</i> , 2018, 41, 689-700.   | 4.2 | 172       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 398 | A multi-scale layer-resolved spiking network model of resting-state dynamics in macaque visual cortical areas. <i>PLoS Computational Biology</i> , 2018, 14, e1006359.                                       | 1.5  | 91        |
| 399 | Development and Functional Diversification of Cortical Interneurons. <i>Neuron</i> , 2018, 100, 294-313.   | 3.8  | 470       |
| 400 | Shared and distinct transcriptomic cell types across neocortical areas. <i>Nature</i> , 2018, 563, 72-78.  | 13.7 | 1,323     |
| 401 | Voltage-Dependent Calcium Channels, Calcium Binding Proteins, and Their Interaction in the Pathological Process of Epilepsy. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2735.            | 1.8  | 41        |
| 402 | Adolescence as a neurobiological critical period for the development of higher-order cognition. <i>Neuroscience and Biobehavioral Reviews</i> , 2018, 94, 179-195.   | 2.9  | 374       |
| 403 | Laminar Distribution of Neurochemically-Identified Interneurons and Cellular Co-expression of Molecular Markers in Epileptic Human Cortex. <i>Neuroscience Bulletin</i> , 2018, 34, 992-1006.                | 1.5  | 17        |
| 404 | Ex Utero Electroporation and Organotypic Slice Cultures of Embryonic Mouse Brains for Live-Imaging of Migrating GABAergic Interneurons. <i>Journal of Visualized Experiments</i> , 2018, , .                 | 0.2  | 1         |
| 405 | Distinct learning-induced changes in stimulus selectivity and interactions of GABAergic interneuron classes in visual cortex. <i>Nature Neuroscience</i> , 2018, 21, 851-859.                                | 7.1  | 175       |
| 406 | Specialized Subpopulations of Deep-Layer Pyramidal Neurons in the Neocortex: Bridging Cellular Properties to Functional Consequences. <i>Journal of Neuroscience</i> , 2018, 38, 5441-5455.                  | 1.7  | 122       |
| 407 | Brain stimulation patterns emulating endogenous thalamocortical input to parvalbumin-expressing interneurons reduce nociception in mice. <i>Brain Stimulation</i> , 2018, 11, 1151-1160.                     | 0.7  | 6         |
| 408 | Peptide-Mediated Neurotransmission Takes Center Stage. <i>Trends in Neurosciences</i> , 2018, 41, 325-327.   | 4.2  | 9         |
| 409 | Preferential inputs from cholecystokinin-positive neurons to the somatic compartment of parvalbumin-expressing neurons in the mouse primary somatosensory cortex. <i>Brain Research</i> , 2018, 1695, 18-30. | 1.1  | 18        |
| 410 | Neural Circuits That Mediate Selective Attention: A Comparative Perspective. <i>Trends in Neurosciences</i> , 2018, 41, 789-805.   | 4.2  | 79        |
| 411 | Structural modularity and grid activity in the medial entorhinal cortex. <i>Journal of Neurophysiology</i> , 2018, 119, 2129-2144.   | 0.9  | 18        |
| 412 | Modulation of cortical circuits by top-down processing and arousal state in health and disease. <i>Current Opinion in Neurobiology</i> , 2018, 52, 172-181.  | 2.0  | 43        |
| 413 | Monoaminergic Neuromodulation of Sensory Processing. <i>Frontiers in Neural Circuits</i> , 2018, 12, 51.   | 1.4  | 99        |
| 414 | Layer 5 Callosal Parvalbumin-Expressing Neurons: A Distinct Functional Group of GABAergic Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 53.   | 1.8  | 22        |
| 415 | PV Interneurons: Critical Regulators of E/I Balance for Prefrontal Cortex-Dependent Behavior and Psychiatric Disorders. <i>Frontiers in Neural Circuits</i> , 2018, 12, 37.                                  | 1.4  | 403       |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 416 | Common Ribs of Inhibitory Synaptic Dysfunction in the Umbrella of Neurodevelopmental Disorders. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 132.  | 1.4 | 19        |
| 417 | Resveratrol Prevents Cellular and Behavioral Sensory Alterations in the Animal Model of Autism Induced by Valproic Acid. <i>Frontiers in Synaptic Neuroscience</i> , 2018, 10, 9.                  | 1.3 | 41        |
| 418 | Neurogliaform cortical interneurons derive from cells in the preoptic area. <i>ELife</i> , 2018, 7, .  | 2.8 | 40        |
| 419 | Excitable neuronal assemblies with adaptation as a building block of brain circuits for velocity-controlled signal propagation. <i>PLoS Computational Biology</i> , 2018, 14, e1006216.            | 1.5 | 12        |
| 420 | A MicroRNA-Based Gene-Targeting Tool for Virally Labeling Interneurons in the Rodent Cortex. <i>Cell Reports</i> , 2018, 24, 294-303.  | 2.9 | 32        |
| 421 | Two types of somatostatin-expressing GABAergic interneurons in the superficial layers of the mouse cingulate cortex. <i>PLoS ONE</i> , 2018, 13, e0200567.   | 1.1 | 14        |
| 422 | Single cell transcriptomics in neuroscience: cell classification and beyond. <i>Current Opinion in Neurobiology</i> , 2018, 50, 242-249.   | 2.0 | 71        |
| 423 | Rett syndrome: insights into genetic, molecular and circuit mechanisms. <i>Nature Reviews Neuroscience</i> , 2018, 19, 368-382.  | 4.9 | 164       |
| 424 | Synaptic Release of Acetylcholine Rapidly Suppresses Cortical Activity by Recruiting Muscarinic Receptors in Layer 4. <i>Journal of Neuroscience</i> , 2018, 38, 5338-5350.                        | 1.7 | 34        |
| 425 | The Evf2 Ultraconserved Enhancer lncRNA Functionally and Spatially Organizes Megabase Distant Genes in the Developing Forebrain. <i>Molecular Cell</i> , 2018, 71, 956-972.e9.                     | 4.5 | 61        |
| 426 | An Emerging Circuit Pharmacology of GABAA Receptors. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 710-732.  | 4.0 | 147       |
| 427 | Mechanisms of Cortical Differentiation. <i>International Review of Cell and Molecular Biology</i> , 2018, 336, 223-320.  | 1.6 | 24        |
| 428 | Dynamic interactions between GABAergic and astrocytic networks. <i>Neuroscience Letters</i> , 2019, 689, 14-20.  | 1.0 | 10        |
| 429 | Sp9 Regulates Medial Ganglionic Eminence-Derived Cortical Interneuron Development. <i>Cerebral Cortex</i> , 2019, 29, 2653-2667.   | 1.6 | 35        |
| 430 | Densities and Laminar Distributions of Kv3.1b-, PV-, GABA-, and SMI-32-Immunoreactive Neurons in Macaque Area V1. <i>Cerebral Cortex</i> , 2019, 29, 1921-1937.                                    | 1.6 | 13        |
| 431 | A Derived Positional Mapping of Inhibitory Subtypes in the Somatosensory Cortex. <i>Frontiers in Neuroanatomy</i> , 2019, 13, 78.  | 0.9 | 7         |
| 432 | GluA4-Targeted AAV Vectors Deliver Genes Selectively to Interneurons while Relying on the AAV Receptor for Entry. <i>Molecular Therapy - Methods and Clinical Development</i> , 2019, 14, 252-260. | 1.8 | 17        |
| 433 | Biphasic Impact of Prenatal Inflammation and Macrophage Depletion on the Wiring of Neocortical Inhibitory Circuits. <i>Cell Reports</i> , 2019, 28, 1119-1126.e4.                                  | 2.9 | 38        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 434 | New insights into the development of the human cerebral cortex. <i>Journal of Anatomy</i> , 2019, 235, 432-451.  | 0.9 | 224       |
| 435 | Neuromodulation Leads to a Burst-Tonic Switch in a Subset of VIP Neurons in Mouse Primary Somatosensory (Barrel) Cortex. <i>Cerebral Cortex</i> , 2020, 30, 488-504.                       | 1.6 | 31        |
| 436 | Extracellular Spike Waveform Dissociates Four Functionally Distinct Cell Classes in Primate Cortex. <i>Current Biology</i> , 2019, 29, 2973-2982.e5.                                       | 1.8 | 67        |
| 437 | Different Inhibitory Interneuron Cell Classes Make Distinct Contributions to Visual Contrast Perception. <i>ENeuro</i> , 2019, 6, ENEURO.0337-18.2019.                                     | 0.9 | 31        |
| 438 | Target specific functions of EPL interneurons in olfactory circuits. <i>Nature Communications</i> , 2019, 10, 3369.  | 5.8 | 15        |
| 439 | Loss of Foxg1 Impairs the Development of Cortical SST-Interneurons Leading to Abnormal Emotional and Social Behaviors. <i>Cerebral Cortex</i> , 2019, 29, 3666-3682.                       | 1.6 | 17        |
| 440 | Direct reprogramming into interneurons: potential for brain repair. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 3953-3967.   | 2.4 | 23        |
| 441 | Distribution Patterns of Three Molecularly Defined Classes of GABAergic Neurons Across Columnar Compartments in Mouse Barrel Cortex. <i>Frontiers in Neuroanatomy</i> , 2019, 13, 45.      | 0.9 | 23        |
| 442 | Pathophysiology of Epilepsy. , 2019, , 1-18.   |     | 1         |
| 443 | Sensory- and Motor-Related Responses of Layer 1 Neurons in the Mouse Visual Cortex. <i>Journal of Neuroscience</i> , 2019, 39, 10060-10070.  | 1.7 | 21        |
| 444 | The Chromatin Environment Around Interneuron Genes in Oligodendrocyte Precursor Cells and Their Potential for Interneuron Reprogramming. <i>Frontiers in Neuroscience</i> , 2019, 13, 829. | 1.4 | 11        |
| 445 | Recruitment of GABAergic Interneurons in the Barrel Cortex during Active Tactile Behavior. <i>Neuron</i> , 2019, 104, 412-427.e4.  | 3.8 | 150       |
| 446 | Intergenerational Metabolic Syndrome and Neuronal Network Hyperexcitability in Autism. <i>Trends in Neurosciences</i> , 2019, 42, 709-726.   | 4.2 | 25        |
| 447 | Cell type-specific transcriptional programs in mouse prefrontal cortex during adolescence and addiction. <i>Nature Communications</i> , 2019, 10, 4169.                                    | 5.8 | 100       |
| 448 | Inhibitory interneurons mediate autism-associated behaviors via 4E-BP2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18060-18067.   | 3.3 | 37        |
| 449 | ̳-Aminobutyric acid in adult brain: an update. <i>Behavioural Brain Research</i> , 2019, 376, 112224.  | 1.2 | 23        |
| 450 | New Insights Into Cholinergic Neuron Diversity. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 204.  | 1.4 | 60        |
| 451 | Intersectional monosynaptic tracing for dissecting subtype-specific organization of GABAergic interneuron inputs. <i>Nature Neuroscience</i> , 2019, 22, 492-502.                          | 7.1 | 39        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 452 | General Principles of Neuronal Co-transmission: Insights From Multiple Model Systems. <i>Frontiers in Neural Circuits</i> , 2018, 12, 117.  | 1.4  | 80        |
| 453 | Electrophysiological monitoring of inhibition in mammalian species, from rodents to humans. <i>Neurobiology of Disease</i> , 2019, 130, 104500.   | 2.1  | 16        |
| 454 | Neuronal cell-subtype specificity of neural synchronization in mouse primary visual cortex. <i>Nature Communications</i> , 2019, 10, 2533.  | 5.8  | 30        |
| 455 | From Hiring to Firing: Activation of Inhibitory Neurons and Their Recruitment in Behavior. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 168.  | 1.4  | 60        |
| 456 | The diversity of GABAergic neurons and neural communication elements. <i>Nature Reviews Neuroscience</i> , 2019, 20, 563-572.   | 4.9  | 167       |
| 457 | Diversity and Function of Somatostatin-Expressing Interneurons in the Cerebral Cortex. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2952.   | 1.8  | 45        |
| 458 | Distribution of GABAergic Neurons and VGluT1 and VGAT Immunoreactive Boutons in the Ferret ( <i>Mustela putorius</i> ) Piriform Cortex and Endopiriform Nucleus. Comparison With Visual Areas 17, 18 and 19. <i>Frontiers in Neuroanatomy</i> , 2019, 13, 54. | 0.9  | 3         |
| 459 | Nogo-A targeted therapy promotes vascular repair and functional recovery following stroke. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14270-14279.   | 3.3  | 94        |
| 460 | Single-Cell Multi-omic Integration Compares and Contrasts Features of Brain Cell Identity. <i>Cell</i> , 2019, 177, 1873-1887.e17.  | 13.5 | 844       |
| 461 | GABAergic astrocyte signaling: A refinement of inhibitory brain networks. <i>Glia</i> , 2019, 67, 1842-1851.  | 2.5  | 78        |
| 462 | Calretinin+ neurons-mediated GABAergic inhibition in mouse prefrontal cortex. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 94, 109658.   | 2.5  | 10        |
| 463 | Deep Survey of GABAergic Interneurons: Emerging Insights From Gene-Isoform Transcriptomics. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 115.   | 1.4  | 14        |
| 464 | Individual Oligodendrocytes Show Bias for Inhibitory Axons in the Neocortex. <i>Cell Reports</i> , 2019, 27, 2799-2808.e3.  | 2.9  | 83        |
| 465 | Dysmaturation of Somatostatin Interneurons Following Umbilical Cord Occlusion in Preterm Fetal Sheep. <i>Frontiers in Physiology</i> , 2019, 10, 563.   | 1.3  | 15        |
| 466 | Amplifying the redistribution of somato-dendritic inhibition by the interplay of three interneuron types. <i>PLoS Computational Biology</i> , 2019, 15, e1006999.   | 1.5  | 42        |
| 467 | Altered inhibition and excitation in neocortical circuits in congenital microcephaly. <i>Neurobiology of Disease</i> , 2019, 129, 130-143.  | 2.1  | 7         |
| 468 | Cellular, Synaptic and Network Effects of Acetylcholine in the Neocortex. <i>Frontiers in Neural Circuits</i> , 2019, 13, 24.   | 1.4  | 72        |
| 469 | Nicotine excites VIP interneurons to disinhibit pyramidal neurons in auditory cortex. <i>Synapse</i> , 2019, 73, e22116.  | 0.6  | 36        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 470 | Diminished Fear Extinction in Adolescents Is Associated With an Altered Somatostatin Interneuron-Mediated Inhibition in the Infralimbic Cortex. <i>Biological Psychiatry</i> , 2019, 86, 682-692.                         | 0.7 | 23        |
| 471 | Braking the Prefrontal Cortex: The Role of Glucocorticoids and Interneurons in Stress Adaptation and Pathology. <i>Biological Psychiatry</i> , 2019, 86, 669-681.   | 0.7 | 72        |
| 472 | Neocortical Projection Neurons Instruct Inhibitory Interneuron Circuit Development in a Lineage-Dependent Manner. <i>Neuron</i> , 2019, 102, 960-975.e6.  | 3.8 | 51        |
| 473 | A Disinhibitory Microcircuit Mediates Conditioned Social Fear in the Prefrontal Cortex. <i>Neuron</i> , 2019, 102, 668-682.e5.  | 3.8 | 119       |
| 474 | Functional Access to Neuron Subclasses in Rodent and Primate Forebrain. <i>Cell Reports</i> , 2019, 26, 2818-2832.e8.   | 2.9 | 60        |
| 475 | Preserving the balance: diverse forms of long-term GABAergic synaptic plasticity. <i>Nature Reviews Neuroscience</i> , 2019, 20, 272-281.   | 4.9 | 96        |
| 476 | Gad1-promotor-driven GFP expression in non-GABAergic neurons of the nucleus endopiriformis in a transgenic mouse line. <i>Journal of Comparative Neurology</i> , 2019, 527, 2215-2232.                                    | 0.9 | 4         |
| 477 | Cortical GABAergic Dysfunction in Stress and Depression: New Insights for Therapeutic Interventions. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 87.  | 1.8 | 225       |
| 478 | Cortical State Fluctuations across Layers of V1 during Visual Spatial Perception. <i>Cell Reports</i> , 2019, 26, 2868-2874.e3.   | 2.9 | 46        |
| 479 | Fast-acting antidepressant activity of ketamine: highlights on brain serotonin, glutamate, and GABA neurotransmission in preclinical studies. , 2019, 199, 58-90.   |     | 126       |
| 480 | Chronic Ethanol Exposure and Withdrawal Impair Synaptic GABA <sub>A</sub> Receptor-Mediated Neurotransmission in Deep Layer Prefrontal Cortex. <i>Alcoholism: Clinical and Experimental Research</i> , 2019, 43, 822-832. | 1.4 | 29        |
| 481 | Glutamate versus GABA in neuron-oligodendroglia communication. <i>Glia</i> , 2019, 67, 2092-2106.   | 2.5 | 44        |
| 482 | Inhibitory Units: An Organizing Nidus for Feature-Selective SubNetworks in Area V1. <i>Journal of Neuroscience</i> , 2019, 39, 4931-4944.   | 1.7 | 7         |
| 483 | Two Groups of eGFP-Expressing Neurons with Distinct Characteristics in the Neocortex of GIN Mice. <i>Neuroscience</i> , 2019, 404, 268-281.   | 1.1 | 1         |
| 484 | Aberrant Excitatory-Inhibitory Synaptic Mechanisms in Entorhinal Cortex Microcircuits During the Pathogenesis of Alzheimer's Disease. <i>Cerebral Cortex</i> , 2019, 29, 1834-1850.                                       | 1.6 | 90        |
| 485 | Estrus-Cycle Regulation of Cortical Inhibition. <i>Current Biology</i> , 2019, 29, 605-615.e6.  | 1.8 | 63        |
| 486 | Heterogeneity within classical cell types is the rule: lessons from hippocampal pyramidal neurons. <i>Nature Reviews Neuroscience</i> , 2019, 20, 193-204.  | 4.9 | 171       |
| 487 | SCN1A gain of function in early infantile encephalopathy. <i>Annals of Neurology</i> , 2019, 85, 514-525.   | 2.8 | 76        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 488 | COALIA: A Computational Model of Human EEG for Consciousness Research. <i>Frontiers in Systems Neuroscience</i> , 2019, 13, 59.   | 1.2 | 40        |
| 489 | The X-Linked Intellectual Disability Gene <i>Zdhhc9</i> Is Essential for Dendrite Outgrowth and Inhibitory Synapse Formation. <i>Cell Reports</i> , 2019, 29, 2422-2437.e8.                   | 2.9 | 45        |
| 490 | Neurovascular Coupling under Chronic Stress Is Modified by Altered GABAergic Interneuron Activity. <i>Journal of Neuroscience</i> , 2019, 39, 10081-10095.                                    | 1.7 | 25        |
| 491 | Alteration of Extracellular Matrix Molecules and Perineuronal Nets in the Hippocampus of Pentylentetrazol-Kindled Mice. <i>Neural Plasticity</i> , 2019, 2019, 1-14.                          | 1.0 | 6         |
| 492 | Hyperexcitability and impaired intracortical inhibition in patients with fragile-X syndrome. <i>Translational Psychiatry</i> , 2019, 9, 312.  | 2.4 | 27        |
| 493 | Rapid Anti-Depressant Relief by Ketamine: Exploring A Complex Mechanism of Action. <i>Current Psychopharmacology</i> , 2019, 8, 99-112.   | 0.1 | 2         |
| 494 | Differential distributions of parvalbumin-positive interneurons in the sulci and gyri of the adult ferret cerebral cortex. <i>NeuroReport</i> , 2019, 30, 993-997.                            | 0.6 | 0         |
| 495 | Chronic voluntary alcohol consumption causes persistent cognitive deficits and cortical cell loss in a rodent model. <i>Scientific Reports</i> , 2019, 9, 18651.                              | 1.6 | 22        |
| 496 | Prefrontal circuit organization for executive control. <i>Neuroscience Research</i> , 2019, 140, 23-36.   | 1.0 | 40        |
| 497 | Cell-Type-Specific D1 Dopamine Receptor Modulation of Projection Neurons and Interneurons in the Prefrontal Cortex. <i>Cerebral Cortex</i> , 2019, 29, 3224-3242.                             | 1.6 | 72        |
| 498 | The Epigenetic Factor CBP Is Required for the Differentiation and Function of Medial Ganglionic Eminence-Derived Interneurons. <i>Molecular Neurobiology</i> , 2019, 56, 4440-4454.           | 1.9 | 16        |
| 499 | Ceftriaxone Treatment Preserves Cortical Inhibitory Interneuron Function via Transient Salvage of GLT-1 in a Rat Traumatic Brain Injury Model. <i>Cerebral Cortex</i> , 2019, 29, 4506-4518.  | 1.6 | 28        |
| 500 | The Na <sup>+</sup> /H <sup>+</sup> Exchanger Nhe1 Modulates Network Excitability via GABA Release. <i>Cerebral Cortex</i> , 2019, 29, 4263-4276.   | 1.6 | 13        |
| 501 | Function of local circuits in the hippocampal dentate gyrus-CA3 system. <i>Neuroscience Research</i> , 2019, 140, 43-52.  | 1.0 | 40        |
| 502 | Four Unique Interneuron Populations Reside in Neocortical Layer 1. <i>Journal of Neuroscience</i> , 2019, 39, 125-139.  | 1.7 | 131       |
| 503 | Subregion-specific Protective Effects of Fluoxetine and Clozapine on Parvalbumin Expression in Medial Prefrontal Cortex of Chronically Isolated Rats. <i>Neuroscience</i> , 2019, 396, 24-35. | 1.1 | 28        |
| 504 | Neural microvascular pericytes contribute to human adult neurogenesis. <i>Journal of Comparative Neurology</i> , 2019, 527, 780-796.  | 0.9 | 29        |
| 505 | Cortical interneuron function in autism spectrum condition. <i>Pediatric Research</i> , 2019, 85, 146-154.  | 1.1 | 32        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 506 | Sparse Representation in Awake Auditory Cortex: Cell-type Dependence, Synaptic Mechanisms, Developmental Emergence, and Modulation. <i>Cerebral Cortex</i> , 2019, 29, 3796-3812.   | 1.6 | 40        |
| 507 | High Sensitivity Mapping of Cortical Dopamine D2 Receptor Expressing Neurons. <i>Cerebral Cortex</i> , 2019, 29, 3813-3827.   | 1.6 | 32        |
| 508 | Subtypes of GABAergic cells in the inferior colliculus. <i>Hearing Research</i> , 2019, 376, 1-10.  | 0.9 | 25        |
| 509 | Presynaptic GABAA Receptors Modulate Thalamocortical Inputs in Layer 4 of Rat V1. <i>Cerebral Cortex</i> , 2019, 29, 921-936.   | 1.6 | 22        |
| 510 | The Prolonged Masking of Temporal Acoustic Inputs with Noise Drives Plasticity in the Adult Rat Auditory Cortex. <i>Cerebral Cortex</i> , 2019, 29, 1032-1046.  | 1.6 | 13        |
| 511 | A Neural Model of Empathic States in Attachment-Based Psychotherapy. <i>Computational Psychiatry</i> , 2020, 1, 132.  | 1.1 | 7         |
| 512 | Ankyrin-G regulates forebrain connectivity and network synchronization via interaction with GABARAP. <i>Molecular Psychiatry</i> , 2020, 25, 2800-2817.   | 4.1 | 40        |
| 513 | Enriched Environment Reverts Somatostatin Interneuron Loss in MK-801 Model of Schizophrenia. <i>Molecular Neurobiology</i> , 2020, 57, 125-134.   | 1.9 | 12        |
| 514 | Chronic ethanol exposure alters prelimbic prefrontal cortical Fast-Spiking and Martinotti interneuron function with differential sex specificity in rat brain. <i>Neuropharmacology</i> , 2020, 162, 107805.                                    | 2.0 | 36        |
| 515 | Maternal inflammation has a profound effect on cortical interneuron development in a stage and subtype-specific manner. <i>Molecular Psychiatry</i> , 2020, 25, 2313-2329.  | 4.1 | 54        |
| 516 | Characterizing the morphology of somatostatin-expressing interneurons and their synaptic innervation pattern in the barrel cortex of the GFP-expressing inhibitory neurons mouse. <i>Journal of Comparative Neurology</i> , 2020, 528, 244-260. | 0.9 | 13        |
| 517 | Optogenetic assessment of VIP, PV, SOM and NOS inhibitory neuron activity and cerebral blood flow regulation in mouse somato-sensory cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 1427-1440.                        | 2.4 | 56        |
| 518 | Interneuron Types as Attractors and Controllers. <i>Annual Review of Neuroscience</i> , 2020, 43, 1-30.   | 5.0 | 127       |
| 519 | Inhibitory neuronal changes following a mixed diffuse-focal model of traumatic brain injury. <i>Journal of Comparative Neurology</i> , 2020, 528, 175-198.  | 0.9 | 12        |
| 520 | microRNA Deficiency in VIP+ Interneurons Leads to Cortical Circuit Dysfunction. <i>Cerebral Cortex</i> , 2020, 30, 2229-2249.   | 1.6 | 16        |
| 521 | A Distinct Class of Bursting Neurons with Strong Gamma Synchronization and Stimulus Selectivity in Monkey V1. <i>Neuron</i> , 2020, 105, 180-197.e5.  | 3.8 | 45        |
| 522 | Distribution of neuronal structures immunoreactive for parvalbumin in the midcingulate cortex of the rabbit. <i>Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia</i> , 2020, 49, 150-156.                               | 0.3 | 1         |
| 523 | Distinct disease-sensitive GABAergic neurons in the perirhinal cortex of Alzheimer's mice and patients. <i>Brain Pathology</i> , 2020, 30, 345-363.   | 2.1 | 49        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 524 | Genome-Wide Analysis of Differential Gene Expression and Splicing in Excitatory Neurons and Interneuron Subtypes. <i>Journal of Neuroscience</i> , 2020, 40, 958-973.   | 1.7  | 51        |
| 525 | Somatostatin receptors (SSTR1-5) on inhibitory interneurons in the barrel cortex. <i>Brain Structure and Function</i> , 2020, 225, 387-401.   | 1.2  | 17        |
| 526 | Excitatory and Inhibitory Subnetworks Are Equally Selective during Decision-Making and Emerge Simultaneously during Learning. <i>Neuron</i> , 2020, 105, 165-179.e8.  | 3.8  | 82        |
| 527 | Key Aspects of Neurovascular Control Mediated by Specific Populations of Inhibitory Cortical Interneurons. <i>Cerebral Cortex</i> , 2020, 30, 2452-2464.  | 1.6  | 46        |
| 528 | Sociability development in mice with cell-specific deletion of the NMDA receptor NR1 subunit gene. <i>Genes, Brain and Behavior</i> , 2020, 19, e12624.   | 1.1  | 11        |
| 529 | Citalopram prevents sleep-deprivation-induced reduction in CaMKII-CREB-BDNF signaling in mouse prefrontal cortex. <i>Brain Research Bulletin</i> , 2020, 155, 11-18.  | 1.4  | 13        |
| 530 | Anatomy and Physiology of Macaque Visual Cortical Areas V1, V2, and V5/MT: Bases for Biologically Realistic Models. <i>Cerebral Cortex</i> , 2020, 30, 3483-3517.   | 1.6  | 31        |
| 531 | Cross-modal reaction of auditory and visual cortices after long-term bilateral hearing deprivation in the rat. <i>Brain Structure and Function</i> , 2020, 225, 129-148.  | 1.2  | 8         |
| 532 | Switching Operation Modes in the Neocortex via Cholinergic Neuromodulation. <i>Molecular Neurobiology</i> , 2020, 57, 139-149.  | 1.9  | 4         |
| 533 | Prefrontal somatostatin interneurons encode fear memory. <i>Nature Neuroscience</i> , 2020, 23, 61-74.  | 7.1  | 139       |
| 534 | GABAergic Restriction of Network Dynamics Regulates Interneuron Survival in the Developing Cortex. <i>Neuron</i> , 2020, 105, 75-92.e5.   | 3.8  | 66        |
| 535 | Reverse engineering human brain evolution using organoid models. <i>Brain Research</i> , 2020, 1729, 146582.  | 1.1  | 25        |
| 536 | A Quantitative Comparison of Inhibitory Interneuron Size and Distribution between Mouse and Macaque V1, Using Calcium-Binding Proteins. <i>Cerebral Cortex Communications</i> , 2020, 1, tgaa068.                         | 0.7  | 11        |
| 537 | Synaptic Transmission from Somatostatin-expressing Interneurons to Excitatory Neurons Mediated by $\beta$ 5-subunit-containing GABAA Receptors in the Developing Visual Cortex. <i>Neuroscience</i> , 2020, 449, 147-156. | 1.1  | 2         |
| 538 | Inhibition of GABA interneurons in the mPFC is sufficient and necessary for rapid antidepressant responses. <i>Molecular Psychiatry</i> , 2021, 26, 3277-3291.  | 4.1  | 54        |
| 539 | Innovations present in the primate interneuron repertoire. <i>Nature</i> , 2020, 586, 262-269.  | 13.7 | 206       |
| 540 | The $\beta$ 3-Protocadherins Regulate the Survival of GABAergic Interneurons during Developmental Cell Death. <i>Journal of Neuroscience</i> , 2020, 40, 8652-8668.   | 1.7  | 26        |
| 541 | Excitation-Inhibition Imbalance Leads to Alteration of Neuronal Coherence and Neurovascular Coupling under Acute Stress. <i>Journal of Neuroscience</i> , 2020, 40, 9148-9162.  | 1.7  | 20        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 542 | DNA Methylation-Dependent Dysregulation of GABAergic Interneuron Functionality in Neuropsychiatric Diseases. <i>Frontiers in Neuroscience</i> , 2020, 14, 586133.  | 1.4  | 6         |
| 543 | Incubation of depression: ECM assembly and parvalbumin interneurons after stress. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 118, 65-79.  | 2.9  | 28        |
| 544 | Quantitative patterns of motor cortex proteinopathy across ALS genotypes. <i>Acta Neuropathologica Communications</i> , 2020, 8, 98.   | 2.4  | 27        |
| 545 | Region and Cell Type Distribution of TCF4 in the Postnatal Mouse Brain. <i>Frontiers in Neuroanatomy</i> , 2020, 14, 42.   | 0.9  | 28        |
| 546 | Moderate prenatal alcohol exposure alters the number and function of GABAergic interneurons in the murine orbitofrontal cortex. <i>Alcohol</i> , 2020, 88, 33-41.  | 0.8  | 13        |
| 547 | Prelimbic cortical targets of ventromedial thalamic projections include inhibitory interneurons and corticostriatal pyramidal neurons in the rat. <i>Brain Structure and Function</i> , 2020, 225, 2057-2076.      | 1.2  | 3         |
| 548 | Expanding the focus on female brain and behaviour. <i>Brain, Behavior, and Immunity</i> , 2020, 90, 1-2.   | 2.0  | 1         |
| 549 | Layer- and Cell Type-Specific Response Properties of Gustatory Cortex Neurons in Awake Mice. <i>Journal of Neuroscience</i> , 2020, 40, 9676-9691.   | 1.7  | 14        |
| 550 | Phenotypic variation of transcriptomic cell types in mouse motor cortex. <i>Nature</i> , 2021, 598, 144-150.   | 13.7 | 196       |
| 551 | Disinhibition of somatostatin interneurons confers resilience to stress in male but not female mice. <i>Neurobiology of Stress</i> , 2020, 13, 100238.   | 1.9  | 9         |
| 552 | Auditory Long-Range Parvalbumin Cortico-Striatal Neurons. <i>Frontiers in Neural Circuits</i> , 2020, 14, 45.  | 1.4  | 15        |
| 553 | Cell type-specific differential modulation of prefrontal cortical GABAergic interneurons on low gamma rhythm and social interaction. <i>Science Advances</i> , 2020, 6, eaay4073.                                  | 4.7  | 44        |
| 554 | Analysis of pallial/cortical interneurons in key vertebrate models of Testudines, Anurans and Polypteriform fishes. <i>Brain Structure and Function</i> , 2020, 225, 2239-2269.                                    | 1.2  | 4         |
| 555 | Complex $\text{IV}$ subunit isoform $\text{COX6A2}$ protects fast-spiking interneurons from oxidative stress and supports their function. <i>EMBO Journal</i> , 2020, 39, e105759.                                 | 3.5  | 16        |
| 556 | Neuromorphological Aspects of the GABAergic Hypothesis of the Pathogenesis of Schizophrenia. <i>Neuroscience and Behavioral Physiology</i> , 2020, 50, 663-668.  | 0.2  | 0         |
| 557 | Somatostatin expressing GABAergic interneurons in the medial entorhinal cortex preferentially inhibit layer III-V pyramidal cells. <i>Communications Biology</i> , 2020, 3, 754.                                   | 2.0  | 10        |
| 558 | Endocannabinoid Signaling Contributes to Experience-Induced Increase of Synaptic Release Sites From Parvalbumin Interneurons in Mouse Visual Cortex. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 571133. | 1.8  | 3         |
| 559 | Whole-Brain Profiling of Cells and Circuits in Mammals by Tissue Clearing and Light-Sheet Microscopy. <i>Neuron</i> , 2020, 106, 369-387.  | 3.8  | 145       |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 560 | PDK1 regulates the survival of the developing cortical interneurons. <i>Molecular Brain</i> , 2020, 13, 65.   | 1.3 | 13        |
| 561 | Arid1b haploinsufficiency in parvalbumin- or somatostatin-expressing interneurons leads to distinct ASD-like and ID-like behavior. <i>Scientific Reports</i> , 2020, 10, 7834.  | 1.6 | 24        |
| 562 | Serotonergic modulation across sensory modalities. <i>Journal of Neurophysiology</i> , 2020, 123, 2406-2425.  | 0.9 | 19        |
| 563 | Mining the jewels of the cortexâ€™s crowning mystery. <i>Current Opinion in Neurobiology</i> , 2020, 63, 154-161.   | 2.0 | 22        |
| 564 | Parallel RNA and DNA analysis after deep sequencing (PRDD-seq) reveals cell type-specific lineage patterns in human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13886-13895. | 3.3 | 33        |
| 565 | GABAergic Neurons in the Dorsal Raphe Nucleus that Express 5-HT3A Receptors Participate in Responses to Stress Hormones. <i>Neuroscience</i> , 2020, 441, 217-225.  | 1.1 | 3         |
| 566 | LTP of inhibition at PV interneuron output synapses requires developmental BMP signaling. <i>Scientific Reports</i> , 2020, 10, 10047.  | 1.6 | 4         |
| 567 | Exciting Complexity: The Role of Motor Circuit Elements in ALS Pathophysiology. <i>Frontiers in Neuroscience</i> , 2020, 14, 573.   | 1.4 | 40        |
| 568 | Disrupted inhibitory plasticity and homeostasis in Fragile X syndrome. <i>Neurobiology of Disease</i> , 2020, 142, 104959.  | 2.1 | 9         |
| 569 | Absence of parvalbumin increases mitochondria volume and branching of dendrites in inhibitory Pvalb neurons in vivo: a point of convergence of autism spectrum disorder (ASD) risk gene phenotypes. <i>Molecular Autism</i> , 2020, 11, 47. | 2.6 | 18        |
| 570 | Drugâ€™Responsive Inhomogeneous Cortical Modulation by Direct Current Stimulation. <i>Annals of Neurology</i> , 2020, 88, 489-502.  | 2.8 | 16        |
| 571 | A novel mouse model of glucagonâ€™like peptideâ€™1 receptor expression: A look at the brain. <i>Journal of Comparative Neurology</i> , 2020, 528, 2445-2470.  | 0.9 | 40        |
| 572 | Growth-Promoting Treatment Screening for Corticospinal Neurons in Mouse and Man. <i>Cellular and Molecular Neurobiology</i> , 2020, 40, 1327-1338.  | 1.7 | 3         |
| 573 | Developmental characterization of <i>Zswim5</i> expression in the progenitor domains and tangential migration pathways of cortical interneurons in the mouse forebrain. <i>Journal of Comparative Neurology</i> , 2020, 528, 2404-2419.     | 0.9 | 5         |
| 574 | Repurposed molecules for antiepileptogenesis: Missing an opportunity to prevent epilepsy?. <i>Epilepsia</i> , 2020, 61, 359-386.  | 2.6 | 57        |
| 575 | Interneuron Desynchronization Precedes Seizures in a Mouse Model of Dravet Syndrome. <i>Journal of Neuroscience</i> , 2020, 40, 2764-2775.  | 1.7 | 62        |
| 576 | Somatostatin-Expressing Interneurons in the Auditory Cortex Mediate Sustained Suppression by Spectral Surround. <i>Journal of Neuroscience</i> , 2020, 40, 3564-3575.   | 1.7 | 39        |
| 577 | Histological characterization of interneurons in Alzheimer's disease reveals a loss of somatostatin interneurons in the temporal cortex. <i>Neuropathology</i> , 2020, 40, 336-346.   | 0.7 | 19        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 578 | Cellular effects of serotonin in the CNS. Handbook of Behavioral Neuroscience, 2020, 31, 279-288.  | 0.7 | 2         |
| 579 | MAP/ERK Signaling in Developing Cognitive and Emotional Function and Its Effect on Pathological and Neurodegenerative Processes. International Journal of Molecular Sciences, 2020, 21, 4471.  | 1.8 | 96        |
| 580 | Coordination of different modes of neuronal migration and functional organization of the cerebral cortex. , 2020, , 531-553.   |     | 0         |
| 581 | Antidepressant mechanisms of ketamine: Focus on GABAergic inhibition. Advances in Pharmacology, 2020, 89, 43-78.   | 1.2 | 15        |
| 582 | Itinerant complexity in networks of intrinsically bursting neurons. Chaos, 2020, 30, 061106.   | 1.0 | 4         |
| 583 | GABAergic Inhibitory Interneuron Deficits in Alzheimer's Disease: Implications for Treatment. Frontiers in Neuroscience, 2020, 14, 660.  | 1.4 | 111       |
| 584 | The generation of cortical interneurons. , 2020, , 461-479.  |     | 3         |
| 585 | Function and Evolution of the Reptilian Cerebral Cortex. , 2020, , 213-245.  |     | 4         |
| 586 | Barrel cortex VIP/CHAT interneurons suppress sensory responses in vivo. PLoS Biology, 2020, 18, e3000613.  | 2.6 | 19        |
| 587 | Synaptic Mechanisms Underlying the Network State-Dependent Recruitment of VIP-Expressing Interneurons in the CA1 Hippocampus. Cerebral Cortex, 2020, 30, 3667-3685.  | 1.6 | 36        |
| 588 | Activity-Dependent Plasticity of Axo-axonic Synapses at the Axon Initial Segment. Neuron, 2020, 106, 265-276.e6.   | 3.8 | 66        |
| 589 | Synaptic Zinc Enhances Inhibition Mediated by Somatostatin, but not Parvalbumin, Cells in Mouse Auditory Cortex. Cerebral Cortex, 2020, 30, 3895-3909.   | 1.6 | 15        |
| 590 | Distinct roles of parvalbumin- and somatostatin-expressing neurons in flexible representation of task variables in the prefrontal cortex. Progress in Neurobiology, 2020, 187, 101773.   | 2.8 | 9         |
| 591 | Enhanced accumulation of N-terminally truncated A $\beta$ 2 with and without pyroglutamate-11 modification in parvalbumin-expressing GABAergic neurons in idiopathic and dup15q11.2-q13 autism. Acta Neuropathologica Communications, 2020, 8, 58. | 2.4 | 4         |
| 592 | Modelling acute and lasting effects of tDCS on epileptic activity. Journal of Computational Neuroscience, 2020, 48, 161-176.   | 0.6 | 11        |
| 593 | Extinction of cue-evoked food-seeking recruits a GABAergic interneuron ensemble in the dorsal medial prefrontal cortex of mice. European Journal of Neuroscience, 2020, 52, 3723-3737.   | 1.2 | 1         |
| 594 | Opposed hemodynamic responses following increased excitation and parvalbumin-based inhibition. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 841-856.   | 2.4 | 23        |
| 595 | Deviance detection in physiologically identified cell types in the rat auditory cortex. Hearing Research, 2021, 399, 107997.   | 0.9 | 13        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 596 | Interplay between perivascular and perineuronal extracellular matrix remodelling in neurological and psychiatric diseases. <i>European Journal of Neuroscience</i> , 2021, 53, 3811-3830.         | 1.2  | 26        |
| 597 | Sparse Labeling and Neural Tracing in Brain Circuits by STARS Strategy: Revealing Morphological Development of Type II Spiral Ganglion Neurons. <i>Cerebral Cortex</i> , 2021, 31, 2759-2772.     | 1.6  | 5         |
| 598 | Circuit Mechanisms Underlying Epileptogenesis in a Mouse Model of Focal Cortical Malformation. <i>Current Biology</i> , 2021, 31, 334-345.e4.   | 1.8  | 9         |
| 599 | Topographic gradients define the projection patterns of the claustrum core and shell in mice. <i>Journal of Comparative Neurology</i> , 2021, 529, 1607-1627.                                     | 0.9  | 26        |
| 600 | Novel Therapeutic Approach for Excitatory/Inhibitory Imbalance in Neurodevelopmental and Neurodegenerative Diseases. <i>Annual Review of Pharmacology and Toxicology</i> , 2021, 61, 701-721.     | 4.2  | 24        |
| 601 | Detailed neuronal distribution of GPR3 and its co-expression with EF-hand calcium-binding proteins in the mouse central nervous system. <i>Brain Research</i> , 2021, 1750, 147166.               | 1.1  | 7         |
| 602 | Inhibitory stabilization and cortical computation. <i>Nature Reviews Neuroscience</i> , 2021, 22, 21-37.  | 4.9  | 80        |
| 603 | Warped rhythms: Epileptic activity during critical periods disrupts the development of neural networks for human communication. <i>Behavioural Brain Research</i> , 2021, 399, 113016.            | 1.2  | 3         |
| 604 | Mediodorsal and Ventromedial Thalamus Engage Distinct L1 Circuits in the Prefrontal Cortex. <i>Neuron</i> , 2021, 109, 314-330.e4.  | 3.8  | 85        |
| 605 | The emerging role of chromatin remodelers in neurodevelopmental disorders: a developmental perspective. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 2517-2563.                        | 2.4  | 58        |
| 606 | Cortical VIP <sup>+</sup> /ChAT <sup>+</sup> interneurons: From genetics to function. <i>Journal of Neurochemistry</i> , 2021, 158, 1320-1333.  | 2.1  | 13        |
| 607 | Neuronal Circuits in Barrel Cortex for Whisker Sensory Perception. <i>Physiological Reviews</i> , 2021, 101, 353-415.   | 13.1 | 66        |
| 608 | Flexible Frequency Switching in Adult Mouse Visual Cortex Is Mediated by Competition Between Parvalbumin and Somatostatin Expressing Interneurons. <i>Neural Computation</i> , 2021, 33, 926-966. | 1.3  | 7         |
| 609 | Expansion sequencing: Spatially precise in situ transcriptomics in intact biological systems. <i>Science</i> , 2021, 371, .   | 6.0  | 197       |
| 610 | Conditional Pten knockout in parvalbumin- or somatostatin-positive neurons sufficiently leads to autism-related behavioral phenotypes. <i>Molecular Brain</i> , 2021, 14, 24.                     | 1.3  | 12        |
| 612 | Flexible Stoichiometry: Implications for KCNQ2- and KCNQ3-Associated Neurodevelopmental Disorders. <i>Developmental Neuroscience</i> , 2021, 43, 191-200.   | 1.0  | 17        |
| 613 | Anatomical asymmetries in the tectofugal pathway of dark-incubated domestic chicks: Rightwards lateralization of parvalbumin neurons in the entopallium. <i>Laterality</i> , 2021, 26, 163-185.   | 0.5  | 12        |
| 614 | Contribution of Interneuron Subtype-Specific GABAergic Signaling to Emergent Sensory Processing in Mouse Somatosensory Whisker Barrel Cortex. <i>Cerebral Cortex</i> , 2022, 32, 2538-2554.       | 1.6  | 7         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 615 | Densities and numbers of calbindin and parvalbumin positive neurons across the rat and mouse brain. <i>IScience</i> , 2021, 24, 101906.  | 1.9 | 35        |
| 616 | Immunohistological Examination of AKT Isoforms in the Brain: Cell-Type Specificity That May Underlie AKT's Role in Complex Brain Disorders and Neurological Disease. <i>Cerebral Cortex Communications</i> , 2021, 2, tgab036. | 0.7 | 7         |
| 617 | Behavioral Deficits Induced by Somatostatin-Positive GABA Neuron Silencing Are Rescued by Alpha 5 GABA-A Receptor Potentiation. <i>International Journal of Neuropsychopharmacology</i> , 2021, 24, 505-518.                   | 1.0 | 31        |
| 618 | Distinct Spiking Patterns of Excitatory and Inhibitory Neurons and LFP Oscillations in Prefrontal Cortex During Sensory Discrimination. <i>Frontiers in Physiology</i> , 2021, 12, 618307.                                     | 1.3 | 9         |
| 619 | Morpho-physiological properties and connectivity of vasoactive intestinal polypeptide-expressing interneurons in the mouse hippocampal dentate gyrus. <i>Journal of Comparative Neurology</i> , 2021, 529, 2658-2675.          | 0.9 | 2         |
| 621 | Aberrant development of excitatory circuits to inhibitory neurons in the primary visual cortex after neonatal binocular enucleation. <i>Scientific Reports</i> , 2021, 11, 3163.   | 1.6 | 4         |
| 622 | GABAergic neuron-specific whole-brain transduction by AAV-PHP.B incorporated with a new GAD65 promoter. <i>Molecular Brain</i> , 2021, 14, 33.   | 1.3 | 27        |
| 623 | Criticality, Connectivity, and Neural Disorder: A Multifaceted Approach to Neural Computation. <i>Frontiers in Computational Neuroscience</i> , 2021, 15, 611183.  | 1.2 | 22        |
| 625 | Sensing and processing whisker deflections in rodents. <i>PeerJ</i> , 2021, 9, e10730.   | 0.9 | 4         |
| 626 | Comparison of Acute Effects of Neurotoxic Compounds on Network Activity in Human and Rodent Neural Cultures. <i>Toxicological Sciences</i> , 2021, 180, 295-312.   | 1.4 | 12        |
| 628 | Hyperactive MEK1 Signaling in Cortical GABAergic Neurons Promotes Embryonic Parvalbumin Neuron Loss and Defects in Behavioral Inhibition. <i>Cerebral Cortex</i> , 2021, 31, 3064-3081.  | 1.6 | 10        |
| 629 | Neuronal activity regulated pentraxin (narp) and GluA4 subunit of AMPA receptor may be targets for fluoxetine modulation. <i>Metabolic Brain Disease</i> , 2021, 36, 711-722.  | 1.4 | 6         |
| 630 | Role of Medial Prefrontal Cortical Neurons and Oxytocin Modulation in the Establishment of Social Buffering. <i>Experimental Neurobiology</i> , 2021, 30, 48-58.   | 0.7 | 5         |
| 632 | Conduction Velocity Along the Local Axons of Parvalbumin Interneurons Correlates With the Degree of Axonal Myelination. <i>Cerebral Cortex</i> , 2021, 31, 3374-3392.  | 1.6 | 20        |
| 634 | Neuron-Oligodendrocyte Communication in Myelination of Cortical GABAergic Cells. <i>Life</i> , 2021, 11, 216.  | 1.1 | 13        |
| 635 | Dissociable Roles of Pallidal Neuron Subtypes in Regulating Motor Patterns. <i>Journal of Neuroscience</i> , 2021, 41, 4036-4059.  | 1.7 | 36        |
| 636 | Somatostatin interneurons activated by 5-HT2A receptor suppress slow oscillations in medial entorhinal cortex. <i>ELife</i> , 2021, 10, .  | 2.8 | 13        |
| 639 | The Role of Parvalbumin Interneuron GIRK Signaling in the Regulation of Affect and Cognition in Male and Female Mice. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 621751.  | 1.0 | 9         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 640 | Defining early changes in Alzheimer's disease from RNA sequencing of brain regions differentially affected by pathology. <i>Scientific Reports</i> , 2021, 11, 4865.  | 1.6 | 23        |
| 641 | Interneuron development and dysfunction. <i>FEBS Journal</i> , 2022, 289, 2318-2336.  | 2.2 | 23        |
| 642 | Propofol sedation-induced alterations in brain connectivity reflect parvalbumin interneurone distribution in human cerebral cortex. <i>British Journal of Anaesthesia</i> , 2021, 126, 835-844.             | 1.5 | 10        |
| 643 | Development of Auditory Cortex Circuits. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2021, 22, 237-259.   | 0.9 | 8         |
| 644 | Critical aspects of neurodevelopment. <i>Neurobiology of Learning and Memory</i> , 2021, 180, 107415.   | 1.0 | 5         |
| 645 | 4E-BP2-dependent translation in parvalbumin neurons controls epileptic seizure threshold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .             | 3.3 | 10        |
| 646 | Contribution of Excitatory and Inhibitory Neuronal Activity to BOLD fMRI. <i>Cerebral Cortex</i> , 2021, 31, 4053-4067.   | 1.6 | 38        |
| 647 | Alcohol reduces the activity of somatostatin interneurons in the mouse prefrontal cortex: A neural basis for its disinhibitory effect?. <i>Neuropharmacology</i> , 2021, 188, 108501.                       | 2.0 | 15        |
| 648 | Regulation of Perineuronal Nets in the Adult Cortex by the Activity of the Cortical Network. <i>Journal of Neuroscience</i> , 2021, 41, 5779-5790.  | 1.7 | 31        |
| 649 | GABAergic Axosomatic Synapses of Rat Brain Cortex. <i>Cell and Tissue Biology</i> , 2021, 15, 267-272.  | 0.2 | 1         |
| 650 | Changing the Cortical Conductor's Tempo: Neuromodulation of the Claustrum. <i>Frontiers in Neural Circuits</i> , 2021, 15, 658228.  | 1.4 | 11        |
| 651 | How stress physically re-shapes the brain: Impact on brain cell shapes, numbers and connections in psychiatric disorders. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 124, 193-215.               | 2.9 | 33        |
| 652 | Behavioural impairments after exposure of neonatal mice to propofol are accompanied by reductions in neuronal activity in cortical circuitry. <i>British Journal of Anaesthesia</i> , 2021, 126, 1141-1156. | 1.5 | 21        |
| 655 | Functional Contribution of the Medial Prefrontal Circuitry in Major Depressive Disorder and Stress-Induced Depressive-Like Behaviors. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 699592.       | 1.0 | 35        |
| 656 | Enhanced modulation of cell-type specific neuronal responses in mouse dorsal auditory field during locomotion. <i>Cell Calcium</i> , 2021, 96, 102390.  | 1.1 | 10        |
| 658 | Prefrontal GABAergic Interneurons Gate Long-Range Afferents to Regulate Prefrontal Cortex-Associated Complex Behaviors. <i>Frontiers in Neural Circuits</i> , 2021, 15, 716408.                             | 1.4 | 18        |
| 659 | A Neuronal Model of the Primary Visual Cortex: Simulation of Visual Evoked Potentials. , 2021, , .  |     | 0         |
| 660 | NDNF interneurons, Spartans of the cortical column: Small in number, strong in impact. <i>Neuron</i> , 2021, 109, 2041-2042.  | 3.8 | 0         |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 661 | The impact of (ab)normal maternal environment on cortical development. <i>Progress in Neurobiology</i> , 2021, 202, 102054.  | 2.8  | 11        |
| 662 | A Characterization of the Electrophysiological and Morphological Properties of Vasoactive Intestinal Peptide (VIP) Interneurons in the Medial Entorhinal Cortex (MEC). <i>Frontiers in Neural Circuits</i> , 2021, 15, 653116.   | 1.4  | 4         |
| 663 | Corticofugal VIP Gabaergic Projection Neurons in the Mouse Auditory and Motor Cortex. <i>Frontiers in Neural Circuits</i> , 2021, 15, 714780.  | 1.4  | 9         |
| 664 | Reelin Affects Signaling Pathways of a Group of Inhibitory Neurons and the Development of Inhibitory Synapses in Primary Neurons. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7510.   | 1.8  | 1         |
| 665 | FLRT2 and FLRT3 cooperate in maintaining the tangential migratory streams of cortical interneurons during development. <i>Journal of Neuroscience</i> , 2021, 41, JN-RM-0380-20.   | 1.7  | 7         |
| 669 | Characterization and Stage-Dependent Lineage Analysis of Intermediate Progenitors of Cortical GABAergic Interneurons. <i>Frontiers in Neuroscience</i> , 2021, 15, 607908.   | 1.4  | 2         |
| 670 | Differential Excitability of PV and SST Neurons Results in Distinct Functional Roles in Inhibition Stabilization of Up States. <i>Journal of Neuroscience</i> , 2021, 41, 7182-7196.   | 1.7  | 4         |
| 671 | The distribution, number, and certain neurochemical identities of infracortical white matter neurons in the brains of a southern lesser galago, a black-capped squirrel monkey, and a crested macaque. <i>Journal of Comparative Neurology</i> , 2021, 529, 3676-3708. | 0.9  | 1         |
| 672 | Islet1 Precursors Contribute to Mature Interneuron Subtypes in Mouse Neocortex. <i>Cerebral Cortex</i> , 2021, 31, 5206-5224.  | 1.6  | 3         |
| 673 | Interrogating theoretical models of neural computation with emergent property inference. <i>ELife</i> , 2021, 10, .  | 2.8  | 16        |
| 674 | Microcircuits for spatial coding in the medial entorhinal cortex. <i>Physiological Reviews</i> , 2022, 102, 653-688.   | 13.1 | 36        |
| 675 | The role of mTORC1 activation in seizure-induced exacerbation of Alzheimer's disease. <i>Brain</i> , 2022, 145, 324-339.   | 3.7  | 15        |
| 676 | Lateralized Decrease of Parvalbumin+ Cells in the Somatosensory Cortex of ASD Models Is Correlated with Unilateral Tactile Hypersensitivity. <i>Cerebral Cortex</i> , 2022, 32, 554-568.   | 1.6  | 9         |
| 677 | Cortical disinhibitory circuits: cell types, connectivity and function. <i>Trends in Neurosciences</i> , 2021, 44, 643-657.  | 4.2  | 35        |
| 678 | Cholinergic modulation of dentate gyrus processing through dynamic reconfiguration of inhibitory circuits. <i>Cell Reports</i> , 2021, 36, 109572.   | 2.9  | 8         |
| 679 | Development, Diversity, and Death of MGE-Derived Cortical Interneurons. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9297.   | 1.8  | 13        |
| 680 | Neocortical inhibitory interneuron subtypes are differentially attuned to synchrony- and rate-coded information. <i>Communications Biology</i> , 2021, 4, 935.   | 2.0  | 3         |
| 681 | Adaptive Mechanisms of Somatostatin-Positive Interneurons after Traumatic Brain Injury through a Switch of $\beta$ Subunits in L-Type Voltage-Gated Calcium Channels. <i>Cerebral Cortex</i> , 2022, 32, 1093-1109.  | 1.6  | 4         |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 682 | Neurophysiological basis of the N400 deflection, from Mismatch Negativity to Semantic Prediction Potentials and late positive components. <i>International Journal of Psychophysiology</i> , 2021, 166, 134-150.            | 0.5  | 10        |
| 683 | Optogenetic Activation of Interneuron Subtypes Modulates Visual Contrast Responses of Mouse V1 Neurons. <i>Cerebral Cortex</i> , 2022, 32, 1110-1124.   | 1.6  | 6         |
| 684 | Excitatory synapses and gap junctions cooperate to improve Pv neuronal burst firing and cortical social cognition in Shank2-mutant mice. <i>Nature Communications</i> , 2021, 12, 5116.                                     | 5.8  | 18        |
| 685 | Reliable Sensory Processing in Mouse Visual Cortex through Cooperative Interactions between Somatostatin and Parvalbumin Interneurons. <i>Journal of Neuroscience</i> , 2021, 41, 8761-8778.                                | 1.7  | 17        |
| 686 | Infralimbic cortex pyramidal neuron GIRK signaling contributes to regulation of cognitive flexibility but not affect-related behavior in male mice.. <i>Physiology and Behavior</i> , 2021, 242, 113597.                    | 1.0  | 3         |
| 687 | Somatostatin Interneurons of the Insula Mediate QR2-Dependent Novel Taste Memory Enhancement. <i>ENeuro</i> , 2021, 8, ENEURO.0152-21.2021.   | 0.9  | 5         |
| 688 | Gephyrin-Lacking PV Synapses on Neocortical Pyramidal Neurons. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10032.  | 1.8  | 3         |
| 690 | CellExplorer: A framework for visualizing and characterizing single neurons. <i>Neuron</i> , 2021, 109, 3594-3608.e2.   | 3.8  | 56        |
| 691 | Somatostatin-Positive Interneurons Contribute to Seizures in <i>SCN8A</i> Epileptic Encephalopathy. <i>Journal of Neuroscience</i> , 2021, 41, 9257-9273.   | 1.7  | 11        |
| 692 | The Engram's Dark Horse: How Interneurons Regulate State-Dependent Memory Processing and Plasticity. <i>Frontiers in Neural Circuits</i> , 2021, 15, 750541.  | 1.4  | 8         |
| 693 | Reduction of cortical parvalbumin-expressing GABAergic interneurons in a rodent hyperoxia model of preterm birth brain injury with deficits in social behavior and cognition. <i>Development (Cambridge)</i> , 2021, 148, . | 1.2  | 7         |
| 694 | Mu opioid receptors on hippocampal GABAergic interneurons are critical for the antidepressant effects of tianeptine. <i>Neuropsychopharmacology</i> , 2022, 47, 1387-1397.  | 2.8  | 12        |
| 695 | Neuronal identity and cognitive control dynamics in the PFC. <i>Seminars in Cell and Developmental Biology</i> , 2022, 129, 14-21.  | 2.3  | 3         |
| 696 | Vasoactive intestinal peptide (VIP) conducts the neuronal activity during absence seizures: GABA seems to be the main mediator of VIP. <i>Neuroscience Letters</i> , 2021, 765, 136268.                                     | 1.0  | 1         |
| 697 | Extensive Structural Remodeling of the Axonal Arbors of Parvalbumin Basket Cells during Development in Mouse Neocortex. <i>Journal of Neuroscience</i> , 2021, 41, 9326-9339.   | 1.7  | 10        |
| 698 | Sodium channelopathies of skeletal muscle and brain. <i>Physiological Reviews</i> , 2021, 101, 1633-1689.   | 13.1 | 55        |
| 699 | Cholinergic boutons are closely associated with excitatory cells and four subtypes of inhibitory cells in the inferior colliculus. <i>Journal of Chemical Neuroanatomy</i> , 2021, 116, 101998.                             | 1.0  | 10        |
| 700 | Wiring of higher-order cortical areas: Spatiotemporal development of cortical hierarchy. <i>Seminars in Cell and Developmental Biology</i> , 2021, 118, 35-49.  | 2.3  | 14        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 701 | Depression-like behavior associated with E/I imbalance of mPFC and amygdala without TRPC channels in mice of knockout IL-10 from microglia. <i>Brain, Behavior, and Immunity</i> , 2021, 97, 68-78.               | 2.0 | 21        |
| 702 | Regulation of Parvalbumin Interactome in the Perilesional Cortex after Experimental Traumatic Brain Injury. <i>Neuroscience</i> , 2021, 475, 52-72.   | 1.1 | 2         |
| 703 | OUP accepted manuscript. <i>Cerebral Cortex</i> , 2021, 32, 76-92.  | 1.6 | 1         |
| 704 | A Role for Vasoactive Intestinal Peptide Interneurons in Neurodevelopmental Disorders. <i>Developmental Neuroscience</i> , 2021, 43, 168-180.   | 1.0 | 11        |
| 705 | Perineuronal nets stabilize the grid cell network. <i>Nature Communications</i> , 2021, 12, 253.  | 5.8 | 1,386     |
| 706 | Combining Optogenetics with MEA, Depth-Resolved LFPs and Assessing the Scope of Optogenetic Network Modulation. <i>NeuroMethods</i> , 2018, , 133-152.  | 0.2 | 5         |
| 707 | Inhibitory Cell Types, Circuits and Receptive Fields in Mouse Visual Cortex. <i>Research and Perspectives in Neurosciences</i> , 2016, , 11-18.   | 0.4 | 8         |
| 708 | Excitatory and Inhibitory Synaptic Placement and Functional Implications. , 2016, , 467-487.  |     | 7         |
| 709 | 3D Ultrastructure of Synaptic Inputs to Distinct GABAergic Neurons in the Mouse Primary Visual Cortex. <i>Cerebral Cortex</i> , 2021, 31, 2610-2624.  | 1.6 | 7         |
| 710 | A Role for Somatostatin-Positive Interneurons in Neuro-Oscillatory and Information Processing Deficits in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2021, 47, 1385-1398.                                     | 2.3 | 21        |
| 744 | VIPergic neurons of the infralimbic and prelimbic cortices control palatable food intake through separate cognitive pathways. <i>JCI Insight</i> , 2019, 4, .   | 2.3 | 7         |
| 745 | Identifying local and descending inputs for primary sensory neurons. <i>Journal of Clinical Investigation</i> , 2015, 125, 3782-3794.   | 3.9 | 90        |
| 746 | Profiling parvalbumin interneurons using iPSC: challenges and perspectives for Autism Spectrum Disorder (ASD). <i>Molecular Autism</i> , 2020, 11, 10.  | 2.6 | 10        |
| 747 | Independent Neuronal Origin of Seizures and Behavioral Comorbidities in an Animal Model of a Severe Childhood Genetic Epileptic Encephalopathy. <i>PLoS Genetics</i> , 2015, 11, e1005347.                        | 1.5 | 31        |
| 748 | Low Density Lipoprotein-Receptor Related Protein 1 Is Differentially Expressed by Neuronal and Glial Populations in the Developing and Mature Mouse Central Nervous System. <i>PLoS ONE</i> , 2016, 11, e0155878. | 1.1 | 56        |
| 749 | A Single Vector Platform for High-Level Gene Transduction of Central Neurons: Adeno-Associated Virus Vector Equipped with the Tet-Off System. <i>PLoS ONE</i> , 2017, 12, e0169611.                               | 1.1 | 41        |
| 750 | Rate and Temporal Coding Convey Multisensory Information in Primary Sensory Cortices. <i>ENeuro</i> , 2017, 4, ENEURO.0037-17.2017.   | 0.9 | 33        |
| 751 | LSPS/Optogenetics to Improve Synaptic Connectivity Mapping: Unmasking the Role of Basket Cell-Mediated Feedforward Inhibition. <i>ENeuro</i> , 2016, 3, ENEURO.0142-15.2016.                                      | 0.9 | 7         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 752 | Identification of Mouse Claustral Neuron Types Based on Their Intrinsic Electrical Properties. <i>ENeuro</i> , 2020, 7, ENEURO.0216-20.2020.  | 0.9 | 22        |
| 753 | Serotonergic Suppression of Mouse Prefrontal Circuits Implicated in Task Attention. <i>ENeuro</i> , 2016, 3, ENEURO.0269-16.2016.   | 0.9 | 16        |
| 754 | Inhibitory Projections from the Inferior Colliculus to the Medial Geniculate body Originate from Four Subtypes of GABAergic Cells. <i>ENeuro</i> , 2018, 5, ENEURO.0406-18.2018.        | 0.9 | 17        |
| 755 | Parvalbumin Interneuron Dysfunction in a Thalamo-Prefrontal Cortical Circuit in <i>Disc1</i> Locus Impairment Mice. <i>ENeuro</i> , 2020, 7, ENEURO.0496-19.2020.                       | 0.9 | 19        |
| 756 | Updating the picture of layer 2/3 VIP-expressing interneuron function in the mouse cerebral cortex. <i>Acta Neurobiologiae Experimentalis</i> , 2020, 79, 328-337.                      | 0.4 | 4         |
| 757 | Prefrontal Disinhibition in Social Fear: A Vital Action of Somatostatin Interneurons. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 611732.                                     | 1.8 | 12        |
| 758 | Regenerative Therapies to Restore Interneuron Disturbances in Experimental Models of Encephalopathy of Prematurity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 211. | 1.8 | 8         |
| 761 | A deleterious Nav1.1 mutation selectively impairs telencephalic inhibitory neurons derived from Dravet Syndrome patients. <i>ELife</i> , 2016, 5, .                                     | 2.8 | 101       |
| 762 | Somatostatin-positive interneurons in the dentate gyrus of mice provide local- and long-range septal synaptic inhibition. <i>ELife</i> , 2017, 6, .                                     | 2.8 | 73        |
| 763 | Attentional modulation of neuronal variability in circuit models of cortex. <i>ELife</i> , 2017, 6, .   | 2.8 | 74        |
| 764 | Parvalbumin-positive interneurons mediate neocortical-hippocampal interactions that are necessary for memory consolidation. <i>ELife</i> , 2017, 6, .                                   | 2.8 | 151       |
| 765 | Rem2 stabilizes intrinsic excitability and spontaneous firing in visual circuits. <i>ELife</i> , 2018, 7, .   | 2.8 | 16        |
| 766 | Sensory experience inversely regulates feedforward and feedback excitation-inhibition ratio in rodent visual cortex. <i>ELife</i> , 2018, 7, .  | 2.8 | 53        |
| 767 | Altered hippocampal interneuron activity precedes ictal onset. <i>ELife</i> , 2018, 7, .  | 2.8 | 59        |
| 768 | Complementary networks of cortical somatostatin interneurons enforce layer specific control. <i>ELife</i> , 2019, 8, .  | 2.8 | 89        |
| 769 | Early-generated interneurons regulate neuronal circuit formation during early postnatal development. <i>ELife</i> , 2019, 8, .  | 2.8 | 14        |
| 770 | A scalable platform for the development of cell-type-specific viral drivers. <i>ELife</i> , 2019, 8, .  | 2.8 | 67        |
| 771 | Spatiotemporal constraints on optogenetic inactivation in cortical circuits. <i>ELife</i> , 2019, 8, .  | 2.8 | 150       |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 772 | Mechanisms underlying the response of mouse cortical networks to optogenetic manipulation. <i>ELife</i> , 2020, 9, .  | 2.8  | 47        |
| 773 | Auditory cortex shapes sound responses in the inferior colliculus. <i>ELife</i> , 2020, 9, .  | 2.8  | 45        |
| 774 | Developmental loss of MeCP2 from VIP interneurons impairs cortical function and behavior. <i>ELife</i> , 2020, 9, .   | 2.8  | 40        |
| 775 | Learning prediction error neurons in a canonical interneuron circuit. <i>ELife</i> , 2020, 9, .   | 2.8  | 35        |
| 776 | Cortical ChAT+ neurons co-transmit acetylcholine and GABA in a target- and brain-region-specific manner. <i>ELife</i> , 2020, 9, .  | 2.8  | 57        |
| 777 | Heterogeneous somatostatin-expressing neuron population in mouse ventral tegmental area. <i>ELife</i> , 2020, 9, .  | 2.8  | 9         |
| 778 | Spatially resolved cell atlas of the mouse primary motor cortex by MERFISH. <i>Nature</i> , 2021, 598, 137-143.   | 13.7 | 205       |
| 780 | Comprehensive characterization of oscillatory signatures in a model circuit with PV- and SOM-expressing interneurons. <i>Biological Cybernetics</i> , 2021, 115, 487-517. | 0.6  | 8         |
| 781 | GABAergic Gene Regulatory Elements Used in Adeno-Associated Viral Vectors. <i>Frontiers in Neurology</i> , 2021, 12, 745159.  | 1.1  | 4         |
| 782 | PV network plasticity mediated by neuregulin1-ErbB4 signalling controls fear extinction. <i>Molecular Psychiatry</i> , 2022, 27, 896-906.                                 | 4.1  | 19        |
| 783 | Neocortex in the Spotlight: Concepts, Questions, and Methods. <i>NeuroMethods</i> , 2014, , 3-18.   | 0.2  | 0         |
| 785 | Imaging the Cortical Representation of Active Sensing in the Vibrissa System. , 2015, , 109-128.  |      | 0         |
| 790 | Behavior-State Dependent Modulation of Perception Based on a Model of Conditioning. <i>Lecture Notes in Computer Science</i> , 2017, , 387-393.                           | 1.0  | 0         |
| 810 | Excitatory and inhibitory circuits differentially regulate local and distant cerebral hemodynamics. , 2019, , .   |      | 0         |
| 811 | Development of the Central Nervous System. , 2019, , 1-99.  |      | 0         |
| 813 | Coarse-grained descriptions of oscillations in neuronal network models. <i>Communications in Mathematical Sciences</i> , 2019, 17, 1437-1458.                             | 0.5  | 0         |
| 814 | Neuronal Cell-Subtype Specificity of Neural Synchronization in Mouse Primary Visual Cortex. <i>SSRN Electronic Journal</i> , 0, , .                                       | 0.4  | 0         |
| 816 | Effect of Somatostatin-Expressing Interneuron Deficits in Depression. <i>Advances in Psychology</i> , 2019, 09, 1767-1777.  | 0.0  | 0         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 827 | Development of the Central Nervous System. , 2020, , 3-77.   |     | 0         |
| 828 | Loss of Clustered Protocadherin Diversity Alters the Spatial Distribution of Cortical Interneurons in Mice. Cerebral Cortex Communications, 2020, 1, tgaa089.                          | 0.7 | 1         |
| 832 | Interneuron transplantation: a prospective surgical therapy for medically refractory epilepsy. Neurosurgical Focus, 2020, 48, E18.   | 1.0 | 5         |
| 836 | ErbB4 in parvalbumin-positive interneurons mediates proactive interference in olfactory associative reversal learning. Neuropsychopharmacology, 2021, , .                              | 2.8 | 4         |
| 837 | Visualizing Oscillations in Brain Slices With Genetically Encoded Voltage Indicators. Frontiers in Neuroanatomy, 2021, 15, 741711.   | 0.9 | 4         |
| 839 | Intracortical Localization of a Promising Pain Biomarker. Journal of Neuroscience, 2020, 40, 9549-9551.  | 1.7 | 0         |
| 840 | Altered White Matter and Layer Vlb Neurons in Heterozygous Disc1 Mutant, a Mouse Model of Schizophrenia. Frontiers in Neuroanatomy, 2020, 14, 605029.                                  | 0.9 | 3         |
| 842 | Neurobiology of Self-Injurious Behavior. Autism and Child Psychopathology Series, 2020, , 51-110.  | 0.1 | 0         |
| 843 | Wide field mapping of cell-specific contributions to brain function. , 2020, , .   |     | 0         |
| 848 | Heterogeneous GAD65 Expression in Subtypes of GABAergic Neurons Across Layers of the Cerebral Cortex and Hippocampus. Frontiers in Behavioral Neuroscience, 2021, 15, 750869.          | 1.0 | 12        |
| 849 | Sex Differences in Affective Dysfunction and Alterations in Parvalbumin in Rodent Models of Early Life Adversity. Frontiers in Behavioral Neuroscience, 2021, 15, 741454.              | 1.0 | 12        |
| 850 | Interneuron origin and molecular diversity in the human fetal brain. Nature Neuroscience, 2021, 24, 1745-1756.   | 7.1 | 49        |
| 851 | mGlu1 potentiation enhances prelimbic somatostatin interneuron activity to rescue schizophrenia-like physiological and cognitive deficits. Cell Reports, 2021, 37, 109950.             | 2.9 | 21        |
| 860 | Regulatory Elements Inserted into AAVs Confer Preferential Activity in Cortical Interneurons. ENeuro, 2020, 7, .   | 0.9 | 4         |
| 862 | Reduced GABAergic neuropil and interneuron profiles in schizophrenia: Complementary analysis of disease course-related differences. Journal of Psychiatric Research, 2022, 145, 50-59. | 1.5 | 3         |
| 863 | Inhibition in the auditory cortex. Neuroscience and Biobehavioral Reviews, 2022, 132, 61-75.   | 2.9 | 13        |
| 865 | Dynamics of a disinhibitory prefrontal microcircuit in controlling social competition. Neuron, 2022, 110, 516-531.e6.  | 3.8 | 45        |
| 866 | Inhibitory control of synaptic signals preceding locomotion in mouse frontal cortex. Cell Reports, 2021, 37, 110035.   | 2.9 | 3         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 868 | A Cortico-Cortical Pathway Targets Inhibitory Interneurons and Modulates Paw Movement during Locomotion in Mice. <i>Journal of Neuroscience</i> , 2022, 42, 44-57.   | 1.7 | 5         |
| 869 | Structural changes in the neocortex as correlates of variations in EEG spectra and seizure susceptibility in rat brains with different degrees of dysplasia. <i>Journal of Comparative Neurology</i> , 2021, , .                               | 0.9 | 1         |
| 870 | Deletion of <i>Fmr1</i> in Parvalbumin Inhibitory Neurons Leads to Dysregulated Translation and Selective Behavioral Deficits Associated with Fragile X Syndrome. <i>SSRN Electronic Journal</i> , 0, , .                                      | 0.4 | 0         |
| 871 | Ablation of microRNAs in VIP <sup>+</sup> interneurons impairs olfactory discrimination and decreases neural activity in the olfactory bulb. <i>Acta Physiologica</i> , 2022, 234, e13767.   | 1.8 | 5         |
| 872 | Long-Term Enhancement of NMDA Receptor Function in Inhibitory Neurons Preferentially Modulates Potassium Channels and Cell Adhesion Molecules. <i>Frontiers in Pharmacology</i> , 2021, 12, 796179.  | 1.6 | 3         |
| 873 | Therapeutic potential of GABAA receptor subunit expression abnormalities in fragile X syndrome. <i>Expert Review of Precision Medicine and Drug Development</i> , 0, , 1-16.   | 0.4 | 2         |
| 874 | Gabaergic Interneurons in Early Brain Development: Conducting and Orchestrated by Cortical Network Activity. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 807969.  | 1.4 | 20        |
| 875 | Single Circuit in V1 Capable of Switching Contexts During Movement Using an Inhibitory Population as a Switch. <i>Neural Computation</i> , 2022, 34, 541-594.  | 1.3 | 1         |
| 876 | A selective serotonin reuptake inhibitor ameliorates obsessive-compulsive disorder-like perseverative behavior by attenuating 5-HT <sub>2C</sub> receptor signaling in the orbitofrontal cortex. <i>Neuropharmacology</i> , 2022, 206, 108926. | 2.0 | 3         |
| 877 | Regulatory Elements Inserted into AAVs Confer Preferential Activity in Cortical Interneurons. <i>ENeuro</i> , 2020, 7, ENEURO.0211-20.2020.  | 0.9 | 12        |
| 878 | SLC6A1 and Neuropsychiatric Diseases: The Role of Mutations and Prospects for Treatment with Genome Editing Systems. <i>Neurochemical Journal</i> , 2021, 15, 376-389.   | 0.2 | 0         |
| 879 | Local Connections of Pyramidal Neurons to Parvalbumin-Producing Interneurons in Motor-Associated Cortical Areas of Mice. <i>ENeuro</i> , 2022, 9, ENEURO.0567-20.2021.   | 0.9 | 5         |
| 880 | The Organization of Somatostatin-Immunoreactive Cells in the Visual Cortex of the Gerbil. <i>Biomedicines</i> , 2022, 10, 92.  | 1.4 | 2         |
| 881 | Stimulus-Selective Response Plasticity in Primary Visual Cortex: Progress and Puzzles. <i>Frontiers in Neural Circuits</i> , 2021, 15, 815554.   | 1.4 | 14        |
| 884 | Kinetics and Connectivity Properties of Parvalbumin- and Somatostatin-Positive Inhibition in Layer 2/3 Medial Entorhinal Cortex. <i>ENeuro</i> , 2022, 9, ENEURO.0441-21.2022.   | 0.9 | 18        |
| 885 | Disruption of KCC2 in Parvalbumin-Positive Interneurons Is Associated With a Decreased Seizure Threshold and a Progressive Loss of Parvalbumin-Positive Interneurons. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 807090.           | 1.4 | 3         |
| 886 | DNA-methylation dynamics across short-term, exposure-containing CBT in patients with panic disorder. <i>Translational Psychiatry</i> , 2022, 12, 46.   | 2.4 | 4         |
| 887 | Cortical Hyperexcitability in the Driver's Seat in ALS. <i>Clinical and Translational Neuroscience</i> , 2022, 6, 5.   | 0.4 | 4         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 888 | <i>In vivo</i> electrophysiological study of the targeting of 5-HT <sub>3</sub> receptor-expressing cortical interneurons by the multimodal antidepressant, vortioxetine. <i>European Journal of Neuroscience</i> , 2022, 55, 1409-1423. | 1.2 | 2         |
| 889 | Ipsilateral Stimulus Encoding in Primary and Secondary Somatosensory Cortex of Awake Mice. <i>Journal of Neuroscience</i> , 2022, 42, 2701-2715.   | 1.7 | 17        |
| 891 | VIP-Expressing GABAergic Neurons: Disinhibitory vs. Inhibitory Motif and Its Role in Communication Across Neocortical Areas. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 811484.   | 1.8 | 11        |
| 892 | Mouse and human share conserved transcriptional programs for interneuron development. <i>Science</i> , 2021, 374, eabj6641.  | 6.0 | 75        |
| 893 | Effects of Altered Excitation-Inhibition Balance on Decision Making in a Cortical Circuit Model. <i>Journal of Neuroscience</i> , 2022, 42, 1035-1053.   | 1.7 | 33        |
| 894 | Malformations of Cortical Development. , 2021, , 1-237.  |     | 1         |
| 895 | Hyper-Excitability of Corticothalamic PT Neurons in MPFC Promotes Irritability in the Mouse Model of Alzheimer's Disease. <i>SSRN Electronic Journal</i> , 0, , .  | 0.4 | 0         |
| 896 | The Signature of Moderate Perinatal Hypoxia on Cortical Organization and Behavior: Altered PNN-Parvalbumin Interneuron Connectivity of the Cingulate Circuitries. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 810980. | 1.8 | 5         |
| 897 | Lower Levels of GABAergic Function Markers in Corticotropin-Releasing Hormone-Expressing Neurons in the sgACC of Human Subjects With Depression. <i>Frontiers in Psychiatry</i> , 2022, 13, 827972.                                      | 1.3 | 3         |
| 898 | VIP interneurons regulate olfactory bulb output and contribute to odor detection and discrimination. <i>Cell Reports</i> , 2022, 38, 110383.   | 2.9 | 10        |
| 899 | Somatostatin and Somatostatin-Containing Interneurons—From Plasticity to Pathology. <i>Biomolecules</i> , 2022, 12, 312.   | 1.8 | 13        |
| 901 | The Neuron Phenotype Ontology: A FAIR Approach to Proposing and Classifying Neuronal Types. <i>Neuroinformatics</i> , 2022, 20, 793-809.   | 1.5 | 3         |
| 902 | Neuroprotective Effects of TRPM7 Deletion in Parvalbumin GABAergic vs. Glutamatergic Neurons following Ischemia. <i>Cells</i> , 2022, 11, 1178.  | 1.8 | 6         |
| 904 | Genetic mosaicism in the human brain: from lineage tracing to neuropsychiatric disorders. <i>Nature Reviews Neuroscience</i> , 2022, 23, 275-286.  | 4.9 | 39        |
| 905 | A Novel LHX6 Reporter Cell Line for Tracking Human iPSC-Derived Cortical Interneurons. <i>Cells</i> , 2022, 11, 853.   | 1.8 | 2         |
| 906 | Long-Range GABAergic Projections of Cortical Origin in Brain Function. <i>Frontiers in Systems Neuroscience</i> , 2022, 16, 841869.  | 1.2 | 13        |
| 908 | The Role of Inhibitory Interneurons in Circuit Assembly and Refinement Across Sensory Cortices. <i>Frontiers in Neural Circuits</i> , 2022, 16, 866999.  | 1.4 | 5         |
| 909 | Transforming Discoveries About Cortical Microcircuits and Gamma Oscillations Into New Treatments for Cognitive Deficits in Schizophrenia. <i>American Journal of Psychiatry</i> , 2022, 179, 267-276.                                    | 4.0 | 16        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 910 | The neural hierarchy of consciousness: A theoretical model and review on neurophysiology and NCCs. <i>Neuropsychologia</i> , 2022, 169, 108202.   | 0.7 | 3         |
| 911 | Dopaminergic modulation of primary motor cortex: From cellular and synaptic mechanisms underlying motor learning to cognitive symptoms in Parkinson's disease. <i>Neurobiology of Disease</i> , 2022, 167, 105674.  | 2.1 | 15        |
| 912 | Perinatal Penicillin Exposure Affects Cortical Development and Sensory Processing. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 704219.   | 1.4 | 4         |
| 913 | A subpopulation of cortical VIP-expressing interneurons with highly dynamic spines. <i>Communications Biology</i> , 2022, 5, 352.   | 2.0 | 7         |
| 914 | Cellular and molecular signatures of in vivo imaging measures of GABAergic neurotransmission in the human brain. <i>Communications Biology</i> , 2022, 5, 372.  | 2.0 | 1         |
| 915 | Transcranial Magnetic Stimulation and Neocortical Neurons: The Micro-Macro Connection. <i>Frontiers in Neuroscience</i> , 2022, 16, 866245.   | 1.4 | 8         |
| 940 | Computational Concepts for Reconstructing and Simulating Brain Tissue. <i>Advances in Experimental Medicine and Biology</i> , 2022, 1359, 237-259.  | 0.8 | 2         |
| 941 | Role of NMDA receptor-mediated abnormalities of GABAergic interneurons in psychiatric disorders. <i>Journal of Central South University (Medical Sciences)</i> , 2020, 45, 176-180.   | 0.1 | 0         |
| 943 | Differential effects of group III metabotropic glutamate receptors on spontaneous inhibitory synaptic currents in spine-innervating double bouquet and parvalbumin-expressing dendrite-targeting GABAergic interneurons in human neocortex. <i>Cerebral Cortex</i> , 2023, 33, 2101-2142. | 1.6 | 2         |
| 944 | Genetic Regulation of Vertebrate Forebrain Development by Homeobox Genes. <i>Frontiers in Neuroscience</i> , 2022, 16, 843794.  | 1.4 | 14        |
| 945 | Parvalbumin-Positive Interneurons Regulate Cortical Sensory Plasticity in Adulthood and Development Through Shared Mechanisms. <i>Frontiers in Neural Circuits</i> , 2022, 16, .  | 1.4 | 19        |
| 946 | Patterns of functional connectivity alterations induced by alcohol reflect somatostatin interneuron expression in the human cerebral cortex. <i>Scientific Reports</i> , 2022, 12, 7896.  | 1.6 | 8         |
| 948 | Modulation of epileptiform activity by three subgroups of GABAergic interneurons in mouse somatosensory cortex. <i>Epilepsy Research</i> , 2022, 183, 106937.   | 0.8 | 5         |
| 949 | Global and subtype-specific modulation of cortical inhibitory neurons regulated by acetylcholine during motor learning. <i>Neuron</i> , 2022, 110, 2334-2350.e8.  | 3.8 | 24        |
| 950 | Single-cell transcriptomic classification of rabies-infected cortical neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .  | 3.3 | 19        |
| 951 | Selective Inhibitory Circuit Dysfunction after Chronic Frontal Lobe Contusion. <i>Journal of Neuroscience</i> , 2022, 42, 5361-5372.  | 1.7 | 2         |
| 953 | Neonatal Oxidative Stress Impairs Cortical Synapse Formation and GABA Homeostasis in Parvalbumin-Expressing Interneurons. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-12.  | 1.9 | 9         |
| 955 | The Distinct Characteristics of Somatostatin Neurons in the Human Brain. <i>Molecular Neurobiology</i> , 2022, 59, 4953-4965.   | 1.9 | 5         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 956 | Single-cell transcriptomic analysis of neuroepithelial cells and other cell types of the gills of zebrafish ( <i>Danio rerio</i> ) exposed to hypoxia. <i>Scientific Reports</i> , 2022, 12, .                                      | 1.6 | 22        |
| 958 | Biophysical Kv3 channel alterations dampen excitability of cortical PV interneurons and contribute to network hyperexcitability in early Alzheimer's. <i>ELife</i> , 0, 11, .   | 2.8 | 14        |
| 959 | Somatostatin interneurons exhibit enhanced functional output and resilience to axotomy after mild traumatic brain injury. <i>Neurobiology of Disease</i> , 2022, 171, 105801.   | 2.1 | 2         |
| 960 | Increasing the Excitatory Drive Rescues Excitatory/Inhibitory Imbalance and Mismatch Negativity Deficit Caused by Parvalbumin Specific GluA1 Deletion. <i>Neuroscience</i> , 2022, 496, 190-204.                                    | 1.1 | 3         |
| 961 | GABA System Modifications During Periods of Hormonal Flux Across the Female Lifespan. <i>Frontiers in Behavioral Neuroscience</i> , 0, 16, .  | 1.0 | 9         |
| 962 | Neuropeptide System Regulation of Prefrontal Cortex Circuitry: Implications for Neuropsychiatric Disorders. <i>Frontiers in Neural Circuits</i> , 0, 16, .  | 1.4 | 10        |
| 963 | Stiff person syndrome spectrum disorders; more than meets the eye. <i>Journal of Neuroimmunology</i> , 2022, 369, 577915.   | 1.1 | 23        |
| 964 | Loss of SST and PV positive interneurons in the ventral hippocampus results in anxiety-like behavior in 5xFAD mice. <i>Neurobiology of Aging</i> , 2022, 117, 165-178.  | 1.5 | 8         |
| 965 | Deletion of <i>Fmr1</i> in parvalbumin-expressing neurons results in dysregulated translation and selective behavioral deficits associated with fragile X syndrome. <i>Molecular Autism</i> , 2022, 13, .                           | 2.6 | 11        |
| 967 | Serotonergic regulation of bipolar cell survival in the developing cerebral cortex. <i>Cell Reports</i> , 2022, 40, 111037.   | 2.9 | 7         |
| 968 | Application of Medial Ganglionic Eminence Cell Transplantation in Diseases Associated With Interneuron Disorders. <i>Frontiers in Cellular Neuroscience</i> , 0, 16, .  | 1.8 | 4         |
| 970 | Long-term changes of parvalbumin- and somatostatin-positive interneurons of the primary motor cortex after chronic social defeat stress depend on individual stress-vulnerability. <i>Frontiers in Psychiatry</i> , 0, 13, .        | 1.3 | 6         |
| 971 | Understanding the effects of serotonin in the brain through its role in the gastrointestinal tract. <i>Brain</i> , 2022, 145, 2967-2981.  | 3.7 | 21        |
| 972 | GABA tonic currents and glial cells are altered during epileptogenesis in a mouse model of Dravet syndrome. <i>Frontiers in Cellular Neuroscience</i> , 0, 16, .  | 1.8 | 3         |
| 973 | Control of fear by discrete prefrontal GABAergic populations encoding valence-specific information. <i>Neuron</i> , 2022, 110, 3036-3052.e5.  | 3.8 | 20        |
| 974 | Cell-type specific DNA methylome signatures reveal epigenetic mechanisms for neuronal diversity and neurodevelopmental disorder. <i>Human Molecular Genetics</i> , 0, , .   | 1.4 | 1         |
| 975 | Hippocampal circuit dysfunction in psychosis. <i>Translational Psychiatry</i> , 2022, 12, .   | 2.4 | 8         |
| 976 | Juvenile social isolation immediately affects the synaptic activity and firing property of fast-spiking parvalbumin-expressing interneuron subtype in mouse medial prefrontal cortex. <i>Cerebral Cortex</i> , 2023, 33, 3591-3606. | 1.6 | 5         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 977 | The effect of self-administered methamphetamine on GABAergic interneuron populations and functional connectivity of the nucleus accumbens and prefrontal cortex. <i>Psychopharmacology</i> , 2022, 239, 2903-2919.                         | 1.5 | 1         |
| 979 | Early postnatal serotonin modulation prevents adult-stage deficits in <i>Arid1b</i> -deficient mice through synaptic transcriptional reprogramming. <i>Nature Communications</i> , 2022, 13, .   | 5.8 | 5         |
| 980 | Semantic processing and neurobiology in Alzheimer's disease and Mild Cognitive Impairment. <i>Neuropsychologia</i> , 2022, 174, 108337.  | 0.7 | 8         |
| 981 | Knock-in mouse models for studying somatostatin and cholecystokinin expressing cells. <i>Journal of Neuroscience Methods</i> , 2022, 381, 109704.  | 1.3 | 0         |
| 982 | <i>Sncg</i> , <i>Mybpc1</i> , and <i>Parm1</i> Classify subpopulations of VIP-expressing interneurons in layers 2/3 of the somatosensory cortex. <i>Cerebral Cortex</i> , 2023, 33, 4293-4304.   | 1.6 | 1         |
| 985 | N-acetylcysteine treatment mitigates loss of cortical parvalbumin-positive interneuron and perineuronal net integrity resulting from persistent oxidative stress in a rat TBI model. <i>Cerebral Cortex</i> , 2023, 33, 4070-4084.         | 1.6 | 3         |
| 987 | Quantitative analysis of the GABAergic innervation of the soma and axon initial segment of pyramidal cells in the human and mouse neocortex. <i>Cerebral Cortex</i> , 2023, 33, 3882-3909.   | 1.6 | 2         |
| 989 | A microcircuit model involving parvalbumin, somatostatin, and vasoactive intestinal polypeptide inhibitory interneurons for the modulation of neuronal oscillation during visual processing. <i>Cerebral Cortex</i> , 2023, 33, 4459-4477. | 1.6 | 7         |
| 990 | In vivo extracellular recordings of thalamic and cortical visual responses reveal V1 connectivity rules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .                             | 3.3 | 5         |
| 991 | NLRP3-Mediated Piezo1 Upregulation in ACC Inhibitory Parvalbumin-Expressing Interneurons Is Involved in Pain Processing after Peripheral Nerve Injury. <i>International Journal of Molecular Sciences</i> , 2022, 23, 13035.               | 1.8 | 6         |
| 992 | Impact of somatostatin interneurons on interactions between barrels in plasticity induced by whisker deprivation. <i>Scientific Reports</i> , 2022, 12, .  | 1.6 | 3         |
| 993 | Connectomic analysis of thalamus-driven disinhibition in cortical layer 4. <i>Cell Reports</i> , 2022, 41, 111476.   | 2.9 | 6         |
| 994 | Distinct organization of two cortico-cortical feedback pathways. <i>Nature Communications</i> , 2022, 13, .  | 5.8 | 11        |
| 995 | Embryonic Deletion of TXNIP in GABAergic Neurons Enhanced Oxidative Stress in PV+ Interneurons in Primary Somatosensory Cortex of Aging Mice: Relevance to Schizophrenia. <i>Brain Sciences</i> , 2022, 12, 1395.                          | 1.1 | 1         |
| 996 | Cortical control of chandelier cells in neural codes. <i>Frontiers in Cellular Neuroscience</i> , 0, 16, .   | 1.8 | 4         |
| 997 | Parvalbumin and parvalbumin chandelier interneurons in autism and other psychiatric disorders. <i>Frontiers in Psychiatry</i> , 0, 13, .   | 1.3 | 13        |
| 998 | Contingent Social Interaction Does Not Prevent Habituation towards Playback of Pro-Social 50-kHz Calls: Behavioral Responses and Brain Activation Patterns. <i>Brain Sciences</i> , 2022, 12, 1474.  | 1.1 | 0         |
| 999 | An efficient rAAV vector for protein expression in cortical parvalbumin expressing interneurons. <i>Scientific Reports</i> , 2022, 12, .   | 1.6 | 3         |



| #    | ARTICLE   | IF  | CITATIONS |
|------|---|-----|-----------|
| 1001 | Cortical circuit-based lossless neural integrator for perceptual decision-making: A computational modeling study. <i>Frontiers in Computational Neuroscience</i> , 0, 16, .   | 1.2 | 0         |
| 1002 | Disinhibitory circuit mediated by connections from vasoactive intestinal polypeptide to somatostatin interneurons underlies the paradoxical decrease in spike synchrony with increased border ownership selective neuron firing rate. <i>Frontiers in Computational Neuroscience</i> , 0, 16, . | 1.2 | 0         |
| 1003 | Neurotransmitter phenotype and axonal projection patterns of VIP-expressing neurons in the inferior colliculus. <i>Journal of Chemical Neuroanatomy</i> , 2022, 126, 102189.  | 1.0 | 7         |
| 1004 | Identification of visual cortex cell types and species differences using single-cell RNA sequencing. <i>Nature Communications</i> , 2022, 13, .   | 5.8 | 12        |
| 1005 | Prefrontal Interneurons: Populations, Pathways, and Plasticity Supporting Typical and Disordered Cognition in Rodent Models. <i>Journal of Neuroscience</i> , 2022, 42, 8468-8476.  | 1.7 | 8         |
| 1006 | Key role of neuronal diversity in structured reservoir computing. <i>Chaos</i> , 2022, 32, 113130.  | 1.0 | 0         |
| 1008 | Effects of optogenetic inhibition of a small fraction of parvalbumin-positive interneurons on the representation of sensory stimuli in mouse barrel cortex. <i>Scientific Reports</i> , 2022, 12, .   | 1.6 | 4         |
| 1009 | Cell-Type Specific Inhibition Controls the High-Frequency Oscillations in the Medial Entorhinal Cortex. <i>International Journal of Molecular Sciences</i> , 2022, 23, 14087.   | 1.8 | 3         |
| 1010 | Atypical antidepressant mirtazapine inhibits 5-hydroxytryptamine <sub>3</sub> receptor currents in NCB-20 cells. <i>Journal of Pharmacological Sciences</i> , 2023, 151, 63-71.   | 1.1 | 1         |
| 1011 | Circadian time- and sleep-dependent modulation of cortical parvalbumin-positive inhibitory neurons. <i>EMBO Journal</i> , 2023, 42, .   | 3.5 | 5         |
| 1012 | The local and long-range input landscape of inhibitory neurons in mouse auditory cortex. <i>Journal of Comparative Neurology</i> , 2023, 531, 502-514.  | 0.9 | 1         |
| 1015 | Simulations of cortical networks using spatially extended conductance-based neuronal models. <i>Journal of Physiology</i> , 2023, 601, 3123-3139.   | 1.3 | 6         |
| 1016 | Spikebench: An open benchmark for spike train time-series classification. <i>PLoS Computational Biology</i> , 2023, 19, e1010792.   | 1.5 | 2         |
| 1017 | Cell-type-specific synaptic modulation of mAChR on SST and PV interneurons. <i>Frontiers in Psychiatry</i> , 0, 13, .   | 1.3 | 2         |
| 1018 | The plasticitome of cortical interneurons. <i>Nature Reviews Neuroscience</i> , 2023, 24, 80-97.  | 4.9 | 17        |
| 1019 | Prefrontal Cortical (PFC) circuits. , 2023, , 125-169.  |     | 0         |
| 1020 | Adolescent Parvalbumin Expression in the Left Orbitofrontal Cortex Shapes Sociability in Female Mice. <i>Journal of Neuroscience</i> , 2023, 43, 1555-1571.   | 1.7 | 7         |
| 1021 | Interacting rhythms enhance sensitivity of target detection in a fronto-parietal computational model of visual attention. <i>ELife</i> , 0, 12, .   | 2.8 | 0         |

| #    | ARTICLE   | IF  | CITATIONS |
|------|---|-----|-----------|
| 1023 | Transcriptomic cell type structures in <i>in vivo</i> neuronal activity across multiple timescales. <i>Cell Reports</i> , 2023, 42, 112318.   | 2.9 | 2         |
| 1024 | Leveraging circuits to understand addiction. , 2023, , 1-44.  |     | 1         |
| 1027 | HCN channels at the cell soma ensure the rapid electrical reactivity of fast-spiking interneurons in human neocortex. <i>PLoS Biology</i> , 2023, 21, e3002001.                                 | 2.6 | 7         |
| 1029 | Therapeutic Hypothermia Attenuates Cortical Interneuron Loss after Cerebral Ischemia in Near-Term Fetal Sheep. <i>International Journal of Molecular Sciences</i> , 2023, 24, 3706.             | 1.8 | 0         |
| 1031 | Involvement of GABAergic Interneuron Subtypes in 4-Aminopyridine-Induced Seizure-Like Events in Mouse Entorhinal Cortex <i>in Vitro</i> . <i>Journal of Neuroscience</i> , 2023, 43, 1987-2001. | 1.7 | 2         |
| 1032 | GABAB Inhibition through Feedback Is Involved in the Synchronization of Interictal Spikes in the Cortex. <i>Neuroscience and Behavioral Physiology</i> , 0, , .                                 | 0.2 | 0         |
| 1033 | Propofol-Induced Developmental Neurotoxicity: From Mechanisms to Therapeutic Strategies. <i>ACS Chemical Neuroscience</i> , 2023, 14, 1017-1032.  | 1.7 | 1         |
| 1034 | Visual assessment of global chromatin intranuclear localization and its cellular diversification in mouse cells. <i>Acta Biochimica Et Biophysica Sinica</i> , 2023, , .                        | 0.9 | 0         |
| 1038 | Plasticity in auditory cortex during parenthood. <i>Hearing Research</i> , 2023, 431, 108738.   | 0.9 | 2         |
| 1042 | Cellular signaling impacts upon GABAergic cortical interneuron development. <i>Frontiers in Neuroscience</i> , 0, 17, .   | 1.4 | 1         |
| 1044 | Inhibitory circuits in fear memory and fear-related disorders. <i>Frontiers in Neural Circuits</i> , 0, 17, .   | 1.4 | 8         |
| 1048 | Neurotransmission-related gene expression in the frontal pole is altered in subjects with bipolar disorder and schizophrenia. <i>Translational Psychiatry</i> , 2023, 13, .                     | 2.4 | 1         |
| 1050 | In-silico EEG biomarkers of reduced inhibition in human cortical microcircuits in depression. <i>PLoS Computational Biology</i> , 2023, 19, e1010986.   | 1.5 | 3         |
| 1051 | Responses of Cortical Neurons to Intracortical Microstimulation in Awake Primates. <i>ENeuro</i> , 2023, 10, ENEURO.0336-22.2023.   | 0.9 | 4         |
| 1052 | Regulation of the E/I-balance by the neural matrisome. <i>Frontiers in Molecular Neuroscience</i> , 0, 16, .  | 1.4 | 3         |
| 1121 | Morphological Features of Human Dendritic Spines. <i>Advances in Neurobiology</i> , 2023, , 367-496.  | 1.3 | 0         |
| 1137 | Glial Cells During the Life Cycle. , 2023, , 29-57.   |     | 0         |
| 1141 | Imbalances of Inhibitory and Excitatory Systems in Autism Spectrum Disorders. , 2023, , 209-226.  |     | 0         |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
|---|---------|----|-----------|