

Neuroscience Bulletin 2021.01–2022.12 Article List

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Addiction and Addictive Behavior ^[1-3]

1. Vázquez-León P, Miranda-Páez A, Chávez-Reyes J, Allende G, Barragán-Iglesias P, Marichal-Cancino BA. The Periaqueductal Gray and Its Extended Participation in Drug Addiction Phenomena. *Neurosci Bull* 2021, 37(10): 1493–1509.
2. Xu W, He Y, Zhang J, Li H, Wan X, Li M, Wang Y, Xu R, Zhang H, Dai Y, Liu H, Jiang L, Zhao Y, Cen X. Simvastatin Blocks Reinstatement of Cocaine-induced Conditioned Place Preference in Male Mice with Brain Lipidome Remodeling. *Neurosci Bull* 2021, 37(12): 1683–1702.
3. Han Y, Cao L, Yuan K, Shi J, Yan W, Lu L. Unique Pharmacology, Brain Dysfunction, and Therapeutic Advancements for Fentanyl Misuse and Abuse. *Neurosci Bull* 2022, 38(11): 1365–1382.

Anatomy, Connectome, Tracing^[1–8]

1. Yang H, Xiong F, Song YG, Jiang HF, Qin HB, Zhou J, Lu S, Grieco SF, Xu X, Zeng WB, Zhao F, Luo MH. HSV-1 H129-derived Anterograde Neural Circuit Tracers: Improvements, Production, and Applications. *Neurosci Bull* 2021, 37(5): 701–719.
2. Wu X, Zhang Q, Gong L, He M. Sequencing-based High-throughput Neuroanatomy: From Mapseq to Bricseq and Beyond. *Neurosci Bull* 2021, 37(5): 746–750.
3. Vickery S, Eickhoff SB, Friedrich P. Hemispheric Specialization of the Primate Inferior Parietal Lobule. *Neurosci Bull* 2022, 38(3): 334–336.
4. Guo W, Geng S, Cao M, Feng J. The Brain Connectome for Chinese Reading. *Neurosci Bull* 2022, 38(9): 1097–1113.
5. Yang Y, Jiang T, Jia X, Yuan J, Li X, Gong H. Whole-Brain Connectome of GABAergic Neurons in the Mouse Zona Incerta. *Neurosci Bull* 2022, 38(11): 1315–1329.
6. Liu X, Huang H, Zhang Y, Wang L, Wang F. Sexual Dimorphism of Inputs to the Lateral Habenula in Mice. *Neurosci Bull* 2022, 38(12): 1439–1456.
7. Liu Q, Wu Y, Wang H, Jia F, Xu F. Viral Tools for Neural Circuit Tracing. *Neurosci Bull* 2022, 38(12): 1508–1518.
8. Zhang J, Luo F, Ren S, Wang Y, Li W, Xu K, Zheng Z, He C, Xia J, Xiong W, Hu ZA. Spinal Cord Mapping of Respiratory Intercostal Motoneurons in Adult Mice. *Neurosci Bull* 2022, 38(12): 1588–1592.

Autophagy ^[1-5]

1. Zhang H, An P, Fei Y, Lu B. Modeling the Degradation Effects of Autophagosome Tethering Compounds. *Neurosci Bull* 2021, 37(2): 255–260.
2. Cui W, Wu X, Feng D, Luo J, Shi Y, Guo W, Liu H, Wang Q, Wang L, Ge S, Qu Y. Acrolein Induces Systemic Coagulopathy *via* Autophagy-dependent Secretion of von Willebrand Factor in Mice after Traumatic Brain Injury. *Neurosci Bull* 2021, 37(8): 1160–1175.
3. Zhang X, Wen X, Al-Ramahi I, Botas J, Lu B, Fu Y. Inhibition of HIPK3 by AST487 Ameliorates Mutant HTT-Induced Neurotoxicity and Apoptosis *via* Enhanced Autophagy. *Neurosci Bull* 2022, 38(1): 99–103.
4. Liu H, Yong Y, Li X, Ye P, Tao K, Peng G, Mo M, Guo W, Chen X, Luo Y, Lin Y, Qiu J, Zhang Z, Ding L, Zhou M, Yang X, Lu L, Yang Q, Xu P. Chaperone-mediated Autophagy Regulates Cell Growth by Targeting SMAD3 in Glioma. *Neurosci Bull* 2022, 38(6): 637–651.
5. Zheng J, Wang Y, Liu Y, Han S, Zhang Y, Luo Y, Yan Y, Li J, Zhao L. cPKC γ Deficiency Exacerbates Autophagy Impairment and Hyperphosphorylated Tau Buildup through the AMPK/mTOR Pathway in Mice with Type 1 Diabetes Mellitus. *Neurosci Bull* 2022, 38(10): 1153–1169.

Behavior ^[1–15]

1. Yuan J, Li H, Long Q, Yang J, Lee TMC, Zhang D. Gender Role, But Not Sex, Shapes Humans' Susceptibility to Emotion. *Neurosci Bull* 2021, 37(2): 201–216.
2. Wang Y, Yang X, Tang Z, Xiao S, Hewig J. Hierarchical Neural Prediction of Interpersonal Trust. *Neurosci Bull* 2021, 37(4): 511–522.
3. Yao Y, Gao G, Liu K, Shi X, Cheng M, Xiong Y, Song S. Projections from D2 Neurons in Different Subregions of Nucleus Accumbens Shell to Ventral Pallidum Play Distinct Roles in Reward and Aversion. *Neurosci Bull* 2021, 37(5): 623–640.
4. Mir FA, Jha SK. Locus Coeruleus Acid-sensing Ion Channels Modulate Sleep-wakefulness and State Transition from NREM to REM Sleep in the Rat. *Neurosci Bull* 2021, 37(5): 684–700.
5. Cao X, Yin HY, Ulrich H, Semyanov A, Tang Y. A Neural Circuit for Gut-induced Sugar Preference. *Neurosci Bull* 2021, 37(5): 754–756.
6. Cheng Q, Li CT. Top-down Modulation of Outcome Processing in Primary Sensory Cortex for Flexible Behavior. *Neurosci Bull* 2021, 37(6): 889–891.
7. Cheng Y, Liu W, Yuan X, Jiang Y. The Eyes Have It: Perception of Social Interaction Unfolds Through Pupil Dilation. *Neurosci Bull* 2021, 37(11): 1595–1598.
8. Wang W, Fu C, Kong X, Osinsky R, Hewig J, Wang Y. Neuro-Behavioral Dynamic Prediction of Interpersonal Cooperation and Aggression. *Neurosci Bull* 2022, 38(3): 275–289.
9. Yang J, Gu R, Liu J, Deng K, Huang X, Luo YJ, Cui F. To Blame or Not? Modulating Third-Party Punishment with the Framing Effect. *Neurosci Bull* 2022, 38(5): 533–547.
10. Zheng D, Fu JY, Tang MY, Yu XD, Zhu Y, Shen CJ, Li CY, Xie SZ, Lin S, Luo M, Li XM. A Deep Mesencephalic Nucleus Circuit Regulates Licking Behavior. *Neurosci Bull* 2022, 38(6): 565–575.

11. Chen S, Tan H, Wang Z, Tseng YT, Li X, Wang L. Formation of the Looming-evoked Innate Defensive Response during Postnatal Development in Mice. *Neurosci Bull* 2022, 38(7): 741–752.
12. Yan JJ, Zhang W, Xu XH. Can You Feel the Love Tonight: A Dipeptidergic Circuit for Pleasant Touch. *Neurosci Bull* 2022, 38(8): 966–968.
13. Xie J, Yan T, Zhang J, Ma Z, Zhou H. Modulation of Neuronal Activity and Saccades at Theta Rhythm During Visual Search in Non-human Primates. *Neurosci Bull* 2022, 38(10): 1183–1198.
14. Zhou H, Shi K, Wu F, Wang B, Li J, Deng B, Zhou C. Dual Effects of Light on Regulating *Aedes aegypti* Heat-Seeking Behavior. *Neurosci Bull* 2022, 38(11): 1420–1424.
15. Jiang X, Pan Y. Neural Control of Action Selection Among Innate Behaviors. *Neurosci Bull* 2022, 38(12): 1541–1558.

Brain Imaging^[1–12]

1. Zuo N, Hu T, Liu H, Sui J, Liu Y, Jiang T. Gray Matter-based Age Prediction Characterizes Different Regional Patterns. *Neurosci Bull* 2021, 37(1): 94–98.
2. Huang W, Yan H, Wang C, Yang X, Li J, Zuo Z, Zhang J, Chen H. Deep Natural Image Reconstruction from Human Brain Activity Based on Conditional Progressively Growing Generative Adversarial Networks. *Neurosci Bull* 2021, 37(3): 369–379.
3. Wang J, Sun P, Lv X, Jin S, Li A, Kuang J, Li N, Gang Y, Guo R, Zeng S, Xu F, Zhang YH. Divergent Projection Patterns Revealed by Reconstruction of Individual Neurons in Orbitofrontal Cortex. *Neurosci Bull* 2021, 37(4): 461–477.
4. Hao L, Li L, Chen M, Xu J, Jiang M, Wang Y, Jiang L, Chen X, Qiu J, Tan S, Gao JH, He Y, Tao S, Dong Q, Qin S. Mapping Domain- and Age-Specific Functional Brain Activity for Children's Cognitive and Affective Development. *Neurosci Bull* 2021, 37(6): 763–776.
5. Jiang L, Li C, Li M, Yin X, Wu T, Duan C, Cao Y, Lu H, Hu J. Simultaneous 3D Visualization of the Microvascular and Neural Network in Mouse Spinal Cord Using Synchrotron Radiation Micro-Computed Tomography. *Neurosci Bull* 2021, 37(10): 1469–1480.
6. Shi W, Fan L, Jiang T. Developing Neuroimaging Biomarker for Brain Diseases with a Machine Learning Framework and the Brainnetome Atlas. *Neurosci Bull* 2021, 37(10): 1523–1525.
7. Wang L, Chen X, Xu Y, Cao M, Liao X, He Y. Frequency-Resolved Connectome Hubs and Their Test-Retest Reliability in the Resting Human Brain. *Neurosci Bull* 2022, 38(5): 519–532.
8. Song M, Yang Z, Jiang T. Multimodal Brain Imaging Fusion for the White-Matter Fiber Architecture in the Human Brain. *Neurosci Bull* 2022, 38(5): 561–564.
9. Chu C, Guan H, Xie S, Wang Y, Luo J, Zhao G, Pan Z, Hu M, Men W, Tan S, Gao JH, Qin S, He Y, Fan L, Dong Q, Tao S. The SACT Template: A Human Brain Diffusion Tensor Template for

School-age Children. *Neurosci Bull* 2022, 38(6): 607–621.

10. Sun L, Zhang W, Wang M, Wang S, Li Z, Zhao C, Lin M, Si Q, Li X, Liang Y, Wei J, Zhang X, Chen R, Li C. Reading-related Brain Function Restored to Normal After Articulation Training in Patients with Cleft Lip and Palate: An fMRI Study. *Neurosci Bull* 2022, 38(10): 1215–1228.
11. Bai L, Zhang Z, Ye L, Cong L, Zhao Y, Zhang T, Shi Z, Wang K. Volumetric Imaging of Neural Activity by Light Field Microscopy. *Neurosci Bull* 2022, 38(12): 1559–1568.
12. Liu X, Yan W, Lu T, Han Y, Lu L. Longitudinal Abnormalities in Brain Structure in COVID-19 Patients. *Neurosci Bull* 2022, 38(12): 1608–1612.

Brain Immunity and Neuroinflammation ^[1–13]

1. Luo J, Wu X, Liu H, Cui W, Guo W, Guo K, Guo H, Tao K, Li F, Shi Y, Feng D, Yan H, Gao G, Qu Y. Antagonism of Protease-activated Receptor 4 Protects Against Traumatic Brain Injury by Suppressing Neuroinflammation *via* Inhibition of Tab2/NF- κ B Signaling. *Neurosci Bull* 2021, 37(2): 242–254.
2. Cao K, Hu Y, Gao Z. Brain Macrophages: Close or Distant Relatives? *Neurosci Bull* 2021, 37(2): 278–280.
3. Zhang B, Zhong J, Gao Z. A Brain-Spleen Axis Regulates Humoral Immunity. *Neurosci Bull* 2021, 37(3): 427–429.
4. Waubant E. Incidence of Acute Disseminated Encephalomyelitis in China: First National Survey. *Neurosci Bull* 2021, 37(6): 761–762.
5. Xiu Y, Gu H, Li X, Li Z, Jin WN, Liu Q, Shi FD. Incidence and Mortality of Acute Disseminated Encephalomyelitis in China: A Nationwide Population-Based Study. *Neurosci Bull* 2021, 37(6): 804–808.
6. Zhao J, Roberts A, Wang Z, Savage J, Ji RR. Emerging Role of PD-1 in the Central Nervous System and Brain Diseases. *Neurosci Bull* 2021, 37(8): 1188–1202.
7. Su F, Wang G, Li T, Jiang S, Yu A, Wang X, Xu W. Neuroinflammation Mediates Faster Brachial Plexus Regeneration in Subjects with Cerebral Injury. *Neurosci Bull* 2021, 37(11): 1542–1554.
8. Tan Z, Lin ZJ, Wu LJ, Zhou LJ. The Macrophage IL-23/IL-17A Pathway: A New Neuro-Immune Mechanism in Female Mechanical Pain. *Neurosci Bull* 2022, 38(4): 453–455.
9. Huang Z, Luo Z, Ovcjak A, Wan J, Chen NH, Hu W, Sun HS, Feng ZP. AD-16 Protects Against Hypoxic-Ischemic Brain Injury by Inhibiting Neuroinflammation. *Neurosci Bull* 2022, 38(8): 857–870.

10. Tang F, Pan Z, Wang Y, Lan T, Wang M, Li F, Quan W, Liu Z, Wang Z, Li Z. Advances in the Immunotherapeutic Potential of Isocitrate Dehydrogenase Mutations in Glioma. *Neurosci Bull* 2022, 38(9): 1069–1084.
11. Kerezoudis P, Howe CL, Wu LJ, Lundstrom BN, Van Gompel JJ. Insula and the Immune System: More than Mere Co-existence? *Neurosci Bull* 2022, 38(10): 1271–1273.
12. Shi J, Xiao Y, Zhang N, Jiao M, Tang X, Dai C, Wang C, Xu Y, Tan Z, Gong F, Zheng F. HMGB1 from Astrocytes Promotes EAE by Influencing the Immune Cell Infiltration-Associated Functions of BMECs in Mice. *Neurosci Bull* 2022, 38(11): 1303–1314.
13. Yang L, Feng S, Wu C, Yang L. The Lung Microbiome: A Potential Target in Regulating Autoimmune Inflammation of the Brain. *Neurosci Bull* 2022, 38(11): 1435–1437.

Cell Signaling ^[1-3]

1. Zhou X, Huang Z, Zhang J, Chen JL, Yao PW, Mai CL, Mai JZ, Zhang H, Liu XG. Chronic Oral Administration of Magnesium-L-Threonate Prevents Oxaliplatin-induced Memory and Emotional Deficits by Normalization of TNF- α /NF- κ B Signaling in Rats. *Neurosci Bull* 2021, 37(1): 55–69.
2. Luo J, Wu X, Liu H, Cui W, Guo W, Guo K, Guo H, Tao K, Li F, Shi Y, Feng D, Yan H, Gao G, Qu Y. Antagonism of Protease-activated Receptor 4 Protects Against Traumatic Brain Injury by Suppressing Neuroinflammation via Inhibition of Tab2/NF- κ B Signaling. *Neurosci Bull* 2021, 37(2): 242–254.
3. He X, Wang Y, Zhou G, Yang J, Li J, Li T, Hu H, Ma H. A Critical Role for γ CaMKII in Decoding NMDA Signaling to Regulate AMPA Receptors in Putative Inhibitory Interneurons. *Neurosci Bull* 2022, 38(8): 916–926.

Circadian Rhythmicity ^[1–6]

1. Taufique SKT, Wang H. Neuronal and Non-neuronal Cell Types Displaying Circadian Rhythmicity in the Mammalian Suprachiasmatic Nucleus. *Neurosci Bull* 2021, 37(1): 138–140.
2. Li X, Guan J, Jiang Z, Cheng S, Hou W, Yao J, Wang Z. Microglial Exosome miR-7239-3p Promotes Glioma Progression by Regulating Circadian Genes. *Neurosci Bull* 2021, 37(4): 497–510.
3. Zhao J, Xue J, Zhu T, He H, Kang H, Jiang X, Huang W, Duan R. Dysregulated CRMP Mediates Circadian Deficits in a *Drosophila* Model of Fragile X Syndrome. *Neurosci Bull* 2021, 37(7): 973–984.
4. Mei Y, Teng H, Li Z, Zeng C, Li Y, Song W, Zhang K, Sun ZS, Wang Y. Restricted Feeding Resets Endogenous Circadian Rhythm in Female Mice Under Constant Darkness. *Neurosci Bull* 2021, 37(7): 1005–1009.
5. Liu Y, Niu L, Liu X, Cheng C, Le W. Recent Progress in Non-motor Features of Parkinson's Disease with a Focus on Circadian Rhythm Dysregulation. *Neurosci Bull* 2021, 37(7): 1010–1024.
6. Liu H, Qiu Z. Overexpression of MECP2 in the Suprachiasmatic Nucleus Alters Circadian Rhythm and Induces Abnormal Social Behaviors. *Neurosci Bull* 2021, 37(12): 1713–1717.

Cognitive Function and Cognitive Impairment^[1–9]

1. Zhu W, Huang H, Yang S, Luo X, Zhu W, Xu S, Meng Q, Zuo C, Liu Y, Wang W. Cortical and Subcortical Grey Matter Abnormalities in White Matter Hyperintensities and Subsequent Cognitive Impairment. *Neurosci Bull* 2021, 37(6): 789–803.
2. Zhang W, Ou H, Zhang B, Zheng M, Yan L, Chen Y, So KF, Zhang L. Treadmill Exercise Relieves Chronic Restraint Stress-induced Cognitive Impairments in Mice *via* Activating Protein Phosphatase 2A. *Neurosci Bull* 2021, 37(10): 1487–1492.
3. Chen J, Shan L, Dai J. Distinct Recovery Process of Consciousness and Cognition After Anesthesia. *Neurosci Bull* 2022, 38(1): 110–112.
4. Cao J, Yao D, Li R, Guo X, Hao J, Xie M, Li J, Pan D, Luo X, Yu Z, Wang M, Wang W. Digoxin Ameliorates Glymphatic Transport and Cognitive Impairment in a Mouse Model of Chronic Cerebral Hypoperfusion. *Neurosci Bull* 2022, 38(2): 181–199.
5. Sterling K, Xing M, Song W. Do Systemic Infections Contribute to the Pathogenesis of Dementia? *Neurosci Bull* 2022, 38(3): 331–333.
6. Hu Q, Hu W, Liu K, Bu X, Hu L, Li L, Chai X, Chen Y. Modulation of Spike Count Correlations Between Macaque Primary Visual Cortex Neurons by Difficulty of Attentional Task. *Neurosci Bull* 2022, 38(5): 489–504.
7. Wang SD, Wang X, Zhao Y, Xue BH, Wang XT, Chen YX, Zhang ZQ, Tian YR, Xie F, Qian LJ. Homocysteine-Induced Disturbances in DNA Methylation Contribute to Development of Stress-Associated Cognitive Decline in Rats. *Neurosci Bull* 2022, 38(8): 887–900.
8. Xiao H, Hu F, Ding J, Ye Z. Cognitive Impairment in Idiopathic Normal Pressure Hydrocephalus. *Neurosci Bull* 2022, 38(9): 1085–1096.
9. Lin Y, Li Q, Zhang M, Su Y, Wang X, Li H, Chen A. Evidence in Support of Analogical Reasoning

Improvements with Executive Attention Intervention in Healthy Young Adults. *Neurosci Bull* 2022, 38(12): 1476–1490.

Consciousness ^[1-2]

1. Song M, He J, Yang Y, Jiang T. Combination of Biomedical Techniques and Paradigms to Improve Prognostications for Disorders of Consciousness. *Neurosci Bull* 2021, 37(7): 1082–1084.
2. Xue XJ, Su R, Li ZF, Bu XO, Dang P, Yu SF, Wang ZX, Chen DM, Zeng TA, Liu M, Ma HL, Zhang DL. Oxygen Metabolism-induced Stress Response Underlies Heart-brain Interaction Governing Human Consciousness-breaking and Attention. *Neurosci Bull* 2022, 38(2): 166–180.

Decision Making^[1-1]

1. Si Y, Jiang L, Yi C, Zhang Q, Li C, Yu J, Li P, Liu Q, Wan F, Li F, Yao D, Xu P. The Decision Strategies of Adolescents with Different Emotional Stabilities in Unfair Situations. *Neurosci Bull* 2021, 37(10): 1481–1486.

Developmental Disorders (ASD, ADHD, etc.) ^[1–13]

1. Li X, Zhang K, He X, Zhou J, Jin C, Shen L, Gao Y, Tian M, Zhang H. Structural, Functional, and Molecular Imaging of Autism Spectrum Disorder. *Neurosci Bull* 2021, 37(7): 1051–1071.
2. Zhang R, He H, Yuan B, Wu Z, Wang X, Du Y, Chen Y, Qiu Z. An Intronic Variant of CHD7 Identified in Autism Patients Interferes with Neuronal Differentiation and Development. *Neurosci Bull* 2021, 37(8): 1091–1106.
3. Zheng F, Liu G, Dang T, Chen Q, An Y, Wu M, Kong X, Qiu Z, Wu BL. GABA Signaling Pathway-associated Gene PLCL1 Rare Variants May be Associated with Autism Spectrum Disorders. *Neurosci Bull* 2021, 37(8): 1240–1245.
4. Yu L, Huang D, Wang S, Wu X, Chen Y, Zhang Y. Evidence of Altered Cortical Processing of Dynamic Lexical Tone Pitch Contour in Chinese Children with Autism. *Neurosci Bull* 2021, 37(11): 1605–1608.
5. Liu H, Qiu Z. Overexpression of MECP2 in the Suprachiasmatic Nucleus Alters Circadian Rhythm and Induces Abnormal Social Behaviors. *Neurosci Bull* 2021, 37(12): 1713–1717.
6. Wu N, Wang Y, Jia JY, Pan YH, Yuan XB. Association of CDH11 with Autism Spectrum Disorder Revealed by Matched-gene Co-expression Analysis and Mouse Behavioral Studies. *Neurosci Bull* 2022, 38(1): 29–46.
7. Li J, Rubini P, Tang Y, Illes P. Astrocyte-derived ATP: A New Etiological Factor for Autism Spectrum Disorder. *Neurosci Bull* 2022, 38(1): 104–106.
8. Cheng J, Zhao Z, Chen L, Li Y, Du R, Wu Y, Zhu Q, Fan M, Duan X, Wu H. Loss of O-GlcNAcylation on MeCP2 at Threonine 203 Leads to Neurodevelopmental Disorders. *Neurosci Bull* 2022, 38(2): 113–134.
9. Wei C, Sun M, Sun X, Meng H, Li Q, Gao K, Yue W, Wang L, Zhang D, Li J. RhoGEF Trio

- Regulates Radial Migration of Projection Neurons *via* Its Distinct Domains. *Neurosci Bull* 2022, 38(3): 249–262.
10. Xia S, Xu HT. Astrocytic Gap Junctions Contribute to Aberrant Neuronal Synchronization in a Mouse Model of MeCP2 Duplication Syndrome. *Neurosci Bull* 2022, 38(6): 591–606.
11. Yang G, Geng H, Hu C. Targeting 5-HT as a Potential Treatment for Social Deficits in Autism. *Neurosci Bull* 2022, 38(10): 1263–1266.
12. Li X, Nie Y, Niu Q, Guo X, Qiu Z, Wang S. Abnormal Prefrontal Neural Oscillations are Associated with Social Deficits in MECP2 Duplication Syndrome. *Neurosci Bull* 2022, 38(12): 1598–1602.
13. Dai Y, Liu Y, Zhang L, Ren T, Wang H, Yu J, Liu X, Chen Z, Deng L, Tao M, Tan H, Huang CC, Zhang J, Luo Q, Feng J, Cao M, Li F. Shanghai Autism Early Development: An Integrative Chinese ASD Cohort. *Neurosci Bull* 2022, 38(12): 1603–1607.

EEG ^[1-2]

1. Xu M, Meng J, Yu H, Jung TP, Ming D. Dynamic Brain Responses Modulated by Precise Timing Prediction in an Opposing Process. *Neurosci Bull* 2021, 37(1): 70–80.
2. Zhao X, Wang Y, Zhang Y, Wang H, Ren J, Yan F, Song D, Du R, Wang Q, Huang L. Propofol-induced Anesthesia Alters Corticocortical Functional Connectivity in the Human Brain: An EEG Source Space Analysis. *Neurosci Bull* 2021, 37(4): 563–568.

Epilepsy^[1–10]

1. Ruan Y, Chen R, Yu J, Wen C, Xu Z. Adding Fuel to the Fire by Increased GABAergic Inhibition: A Seizure-amplifying Nigra-parafascicular Pathway. *Neurosci Bull* 2021, 37(1): 135–137.
2. Liu X, Hu L, Xu C, Xu S, Wang S, Chen Z, Shen J. An Automatic HFO Detection Method Combining Visual Inspection Features with Multi-Domain Features. *Neurosci Bull* 2021, 37(6): 777–788.
3. Wang S, He H, Long J, Sui X, Yang J, Lin G, Wang Q, Wang Y, Luo Y. TRPV4 Regulates Somato-Induced Status Epilepticus and Secondary Brain Injury *via* NMDA Receptor and NLRP3 Inflammasome. *Neurosci Bull* 2021, 37(7): 905–920.
4. Jiang GT, Shao L, Kong S, Zeng ML, Cheng JJ, Chen TX, Han S, Yin J, Liu WH, He XH, Liu YM, Gongga L, Peng BW. Complement C3 Aggravates Post-epileptic Neuronal Injury *via* Activation of TRPV1. *Neurosci Bull* 2021, 37(10): 1427–1440.
5. Wang T, Zhou M, Zhang Q, Zhang C, Peng G. *ubtor* Mutation Causes Motor Hyperactivity by Activating mTOR Signaling in Zebrafish. *Neurosci Bull* 2021, 37(12): 1658–1670.
6. Qi Y, Cheng H, Wang Y, Chen Z. Revealing the Precise Role of Calretinin Neurons in Epilepsy: We Are on the Way. *Neurosci Bull* 2022, 38(2): 209–222.
7. Liu Y, Tian X, Ke P, Gu J, Ma Y, Guo Y, Xu X, Chen Y, Yang M, Wang X, Xiao F. KIF17 Modulates Epileptic Seizures and Membrane Expression of the NMDA Receptor Subunit NR2B. *Neurosci Bull* 2022, 38(8): 841–856.
8. Tang Y, Quan J, Zhou W, Zhou H. Time to Reconsider Routine Timely Anti-epileptic Medication: Raising Hope with a "Smart" Nanoengineered System. *Neurosci Bull* 2022, 38(8): 973–975.
9. Yu J, Cheng Y, Cui Y, Zhai Y, Zhang W, Zhang M, Xin W, Liang J, Pan X, Wang Q, Sun H. Anti-Seizure and Neuronal Protective Effects of Irisin in Kainic Acid-Induced Chronic Epilepsy Model

with Spontaneous Seizures. *Neurosci Bull* 2022, 38(11): 1347–1364.

10. Zhang Z, Jiang S, Shi K, Li Y, Jin WN, Liu Q, Zhao T, Cheng H, Shi FD. Visualizing Seizure Propagation in Freely-moving Mice *via* Miniature Two-photon Microscopy. *Neurosci Bull* 2022, 38(12): 1593–1597.

Fear^[1–6]

1. Lv Y, Chen P, Shan QH, Qin XY, Qi XH, Zhou JN. Regulation of Cued Fear Expression *via* Corticotropin-releasing-factor Neurons in the Ventral Anteromedial Thalamic Nucleus. *Neurosci Bull* 2021, 37(2): 217–228.
2. Tao Y, Cai CY, Xian JY, Kou XL, Lin YH, Qin C, Wu HY, Chang L, Luo CX, Zhu DY. Projections from Infralimbic Cortex to Paraventricular Thalamus Mediate Fear Extinction Retrieval. *Neurosci Bull* 2021, 37(2): 229–241.
3. Fan XC, Ma CN, Song JC, Liao ZH, Huang N, Liu X, Ma L. Rac1 Signaling in Amygdala Astrocytes Regulates Fear Memory Acquisition and Retrieval. *Neurosci Bull* 2021, 37(7): 947–958.
4. Liu N, Huang K, Wei P, Liu X, Wang L. Modulation of Predator Cue-Evoked Tonic Immobility by Acetylcholine Released in the Basolateral Complex of the Amygdala. *Neurosci Bull* 2021, 37(11): 1599–1604.
5. Zheng J, Tian Y, Xu H, Gu L, Xu H. A Standardized Protocol for the Induction of Specific Social Fear in Mice. *Neurosci Bull* 2021, 37(12): 1708–1712.
6. Zheng J, Liu N, Xu H. Pathway Matters: Prefrontal Control of Negative Emotions *via* Distinct Downstream Regions. *Neurosci Bull* 2022, 38(2): 226–228.

Genetic Studies^[1–10]

1. Liu T, Wang L, Li Q. Drosophila Ortholog of Mammalian Immediate-early Gene Npas4 is Specifically Responsive to Reversal Learning. *Neurosci Bull* 2021, 37(1): 99–102.
2. Wu Q, Jia Z. Wiring the Brain by Clustered Protocadherin Neural Codes. *Neurosci Bull* 2021, 37(1): 117–131.
3. Tian K, Wang A, Wang J, Li W, Shen W, Li Y, Luo Z, Liu Y, Zhou Y. Transcriptome Analysis Identifies SenZfp536, a Sense LncRNA that Suppresses Self-renewal of Cortical Neural Progenitors. *Neurosci Bull* 2021, 37(2): 183–200.
4. Ni Y, Liu B, Wu X, Liu J, Ba R, Zhao C. FOXP1 Directly Suppresses Wnt5a During the Development of the Hippocampus. *Neurosci Bull* 2021, 37(3): 298–310.
5. Li J, Liu Y, Li Q, Huang X, Zhou D, Xu H, Zhao F, Mi X, Wang R, Jia F, Xu F, Yang J, Liu D, Deng X, Zhang Y. Mutation in ϵ -Sarcoglycan Induces a Myoclonus-Dystonia Syndrome-like Movement Disorder in Mice. *Neurosci Bull* 2021, 37(3): 311–322.
6. Sun H, Zheng J, Yi M, Wan Y. Conditional Genome Editing in the Mammalian Brain Using CRISPR-Cas9. *Neurosci Bull* 2021, 37(3): 423–426.
7. Li Q, Qian C, Feng H, Lin T, Zhu Q, Huang Y, Zhou FQ. N6-methyladenine DNA Demethylase ALKBH1 Regulates Mammalian Axon Regeneration. *Neurosci Bull* 2021, 37(6): 809–814.
8. Li H, Wu S, Ma X, Li X, Cheng T, Chen Z, Wu J, Lv L, Li L, Xu L, Wang W, Hu Y, Jiang H, Yin Y, Qiu Z, Hu X. Co-editing PINK1 and DJ-1 Genes *Via* Adeno-Associated Virus-Delivered CRISPR/Cas9 System in Adult Monkey Brain Elicits Classical Parkinsonian Phenotype. *Neurosci Bull* 2021, 37(9): 1271–1288.
9. Shu L, Xu Y, Tian Q, Chen Y, Wang Y, Xi H, Wang H, Xiao N, Mao X. A Frameshift Variant in the SEMA6B Gene Causes Global Developmental Delay and Febrile Seizures. *Neurosci Bull* 2021,

37(9): 1357–1360.

10. Li D, Xie Y. An Evolved Human-specific Epigenetic Mechanism for Cortical Expansion and Gyrification. *Neurosci Bull* 2021, 37(9): 1370–1372.

Glia ^[1–34]

1. Yin YN, Hu J, Wei YL, Li ZL, Luo ZC, Wang RQ, Yang KX, Li SJ, Li XW, Yang JM, Gao TM. Astrocyte-derived Lactate Modulates the Passive Coping Response to Behavioral Challenge in Male Mice. *Neurosci Bull* 2021, 37(1): 1–14.
2. Descalzi G. Cortical Astrocyte-neuronal Metabolic Coupling Emerges as a Critical Modulator of Stress-induced Hopelessness. *Neurosci Bull* 2021, 37(1): 132–134.
3. Jiang Y, Wang Y, Huang Z. Targeting PTB as a One-step Procedure for In Situ Astrocyte-to-Dopamine Neuron Reprogramming in Parkinson's Disease. *Neurosci Bull* 2021, 37(3): 430–432.
4. Huang H, Rubenstein JL, Qiu M. Cracking the Codes of Cortical Glial Progenitors: Evidence for the Common Lineage of Astrocytes and Oligodendrocytes. *Neurosci Bull* 2021, 37(4): 437–439.
5. Li X, Liu G, Yang L, Li Z, Zhang Z, Xu Z, Cai Y, Du H, Su Z, Wang Z, Duan Y, Chen H, Shang Z, You Y, Zhang Q, He M, Chen B, Yang Z. Decoding Cortical Glial Cell Development. *Neurosci Bull* 2021, 37(4): 440–460.
6. Li X, Guan J, Jiang Z, Cheng S, Hou W, Yao J, Wang Z. Microglial Exosome miR-7239-3p Promotes Glioma Progression by Regulating Circadian Genes. *Neurosci Bull* 2021, 37(4): 497–510.
7. Peng J, Pan BX. Microglial Calcium: An Exquisite Sensor for Neuronal Activity. *Neurosci Bull* 2021, 37(4): 582–584.
8. Cheng W, Sun Y, Wu Q, Ooi K, Feng Y, Xia C, Zhu D. Paraventricular Nucleus P2X7 Receptors Aggravate Acute Myocardial Infarction Injury *via* ROS-induced Vasopressin-V1b Activation in Rats. *Neurosci Bull* 2021, 37(5): 641–656.
9. Song N, Chen L, Xie J. Alpha-Synuclein Handling by Microglia: Activating, Combating, and Worsening. *Neurosci Bull* 2021, 37(5): 751–753.

10. Bai X, Kirchhoff F, Scheller A. Oligodendroglial GABAergic Signaling: More Than Inhibition! *Neurosci Bull* 2021, 37(7): 1039–1050.
11. Liu K, Yu B, Chen JF, Li RX, Chen L, Ren SY, Wang F, Mei F, Xiao L. Dicer Deletion in Astrocytes Inhibits Oligodendroglial Differentiation and Myelination. *Neurosci Bull* 2021, 37(8): 1135–1146.
12. Zhang Y, Cui D. Evolving Models and Tools for Microglial Studies in the Central Nervous System. *Neurosci Bull* 2021, 37(8): 1218–1233.
13. Luo T, Gao TM. A Novel Phagocytic Role of Astrocytes in Activity-dependent Elimination of Mature Excitatory Synapses. *Neurosci Bull* 2021, 37(8): 1256–1259.
14. Chen YH, Gao TM. Heteromolecular Plasticity in Striatal Astrocytes. *Neurosci Bull* 2021, 37(8): 1264–1266.
15. Wang F, Cheng L, Zhang X. Reprogramming Glial Cells into Functional Neurons for Neuroregeneration: Challenges and Promise. *Neurosci Bull* 2021, 37(11): 1625–1636.
16. Peng Z, Li X, Li J, Dong Y, Gao Y, Liao Y, Yan M, Yuan Z, Cheng J. *Dlg1* Knockout Inhibits Microglial Activation and Alleviates Lipopolysaccharide-Induced Depression-Like Behavior in Mice. *Neurosci Bull* 2021, 37(12): 1671–1682.
17. Li J, Rubini P, Tang Y, Illes P. Astrocyte-derived ATP: A New Etiological Factor for Autism Spectrum Disorder. *Neurosci Bull* 2022, 38(1): 104–106.
18. Huang Y, Wang Y, Huang Z. A Specific Peptide Vaccine Against IDH1(R132H) Glioma. *Neurosci Bull* 2022, 38(2): 223–225.
19. Wu C, Yang L, Youngblood H, Liu TC, Duan R. Microglial SIRP α Deletion Facilitates Synapse Loss in Preclinical Models of Neurodegeneration. *Neurosci Bull* 2022, 38(2): 232–234.

20. Wang M, Jiang Y, Huang Z. Loss of C9orf72 in Microglia Drives Neuronal Injury by Enhancing Synaptic Pruning in Aged and Alzheimer's Disease Mice. *Neurosci Bull* 2022, 38(3): 327–330.
21. Wu YY, Zhang HL, Lu X, Du H, Li YC, Zhang PA, Xu GY. Targeting GATA1 and p2x7r Locus Binding in Spinal Astrocytes Suppresses Chronic Visceral Pain by Promoting DNA Demethylation. *Neurosci Bull* 2022, 38(4): 359–372.
22. Lin Z, You F, Li T, Feng Y, Zhao X, Yang J, Yao Z, Gao Y, Chen JF. Entrainment of Astrocytic and Neuronal Ca²⁺ Population Dynamics During Information Processing of Working Memory in Mice. *Neurosci Bull* 2022, 38(5): 474–488.
23. Xia S, Xu HT. Astrocytic Gap Junctions Contribute to Aberrant Neuronal Synchronization in a Mouse Model of MeCP2 Duplication Syndrome. *Neurosci Bull* 2022, 38(6): 591–606.
24. Liu H, Yong Y, Li X, Ye P, Tao K, Peng G, Mo M, Guo W, Chen X, Luo Y, Lin Y, Qiu J, Zhang Z, Ding L, Zhou M, Yang X, Lu L, Yang Q, Xu P. Chaperone-mediated Autophagy Regulates Cell Growth by Targeting SMAD3 in Glioma. *Neurosci Bull* 2022, 38(6): 637–651.
25. Wang Q, Xue X, Huang Z, Wang Y. Microglia Share the Burden. *Neurosci Bull* 2022, 38(6): 695–698.
26. Qian Y, Wang M, Dong J, Jiang Y, Huang Z. Astrocyte-Derived Saturated Lipids Mediate Cell Toxicity in the Central Nervous System. *Neurosci Bull* 2022, 38(6): 699–702.
27. Zheng L, Wang Y, Shao B, Zhou H, Li X, Zhang C, Sun N, Shi J. Multiple Mild Stimulations Reduce Membrane Distribution of CX3CR1 Promoted by Annexin a1 in Microglia to Attenuate Excessive Dendritic Spine Pruning and Cognitive Deficits Caused by a Transient Ischemic Attack in Mice. *Neurosci Bull* 2022, 38(7): 753–768.
28. Xu MX, Zhao GL, Hu X, Zhou H, Li SY, Li F, Miao Y, Lei B, Wang Z. P2X7/P2X4 Receptors Mediate Proliferation and Migration of Retinal Microglia in Experimental Glaucoma in Mice.

Neurosci Bull 2022, 38(8): 901–915.

29. Li B, Zhang D, Verkhratsky A. Astrocytes in Post-traumatic Stress Disorder. *Neurosci Bull* 2022, 38(8): 953–965.
30. Tang F, Pan Z, Wang Y, Lan T, Wang M, Li F, Quan W, Liu Z, Wang Z, Li Z. Advances in the Immunotherapeutic Potential of Isocitrate Dehydrogenase Mutations in Glioma. *Neurosci Bull* 2022, 38(9): 1069–1084.
31. Wu JL, Gao TM. Monitoring the Activity of Astrocytes in Learning and Memory. *Neurosci Bull* 2022, 38(9): 1117–1120.
32. Yang L, Feng S, Wu C, Yang L. Microglia-Mediated A β Propagation in Alzheimer's Disease. *Neurosci Bull* 2022, 38(10): 1274–1276.
33. Shi J, Xiao Y, Zhang N, Jiao M, Tang X, Dai C, Wang C, Xu Y, Tan Z, Gong F, Zheng F. HMGB1 from Astrocytes Promotes EAE by Influencing the Immune Cell Infiltration-Associated Functions of BMECs in Mice. *Neurosci Bull* 2022, 38(11): 1303–1314.
34. Li Q, Ru X, Yang Y, Zhao H, Qu J, Chen W, Pan P, Ruan H, Li C, Chen Y, Feng H. Lipocalin-2-Mediated Insufficient Oligodendrocyte Progenitor Cell Remyelination for White Matter Injury After Subarachnoid Hemorrhage *via* SCL22A17 Receptor/Early Growth Response Protein 1 Signaling. *Neurosci Bull* 2022, 38(12): 1457–1475.

Ion Channel^[1–6]

1. Shibata M, Tang C. Implications of Transient Receptor Potential Cation Channels in Migraine Pathophysiology. *Neurosci Bull* 2021, 37(1): 103–116.
2. Song XL, Liu DS, Qiang M, Li Q, Liu MG, Li WG, Qi X, Xu NJ, Yang G, Zhu MX, Xu TL. Postsynaptic Targeting and Mobility of Membrane Surface-localized hASIC1a. *Neurosci Bull* 2021, 37(2): 145–165.
3. Zhang W, Li SS, Han Y, Xu XH. Sex Differences in Electrophysiological Properties of Mouse Medial Preoptic Area Neurons Revealed by In Vitro Whole-cell Recordings. *Neurosci Bull* 2021, 37(2): 166–182.
4. Wang HR, Hu SW, Zhang S, Song Y, Wang XY, Wang L, Li YY, Yu YM, Liu H, Liu D, Ding HL, Cao JL. KCNQ Channels in the Mesolimbic Reward Circuit Regulate Nociception in Chronic Pain in Mice. *Neurosci Bull* 2021, 37(5): 597–610.
5. Mir FA, Jha SK. Locus Coeruleus Acid-sensing Ion Channels Modulate Sleep-wakefulness and State Transition from NREM to REM Sleep in the Rat. *Neurosci Bull* 2021, 37(5): 684–700.
6. Li Z, Dong W, Zhang X, Lu JM, Mei YA, Hu C. Protein Kinase C Controls the Excitability of Cortical Pyramidal Neurons by Regulating Kv2.2 Channel Activity. *Neurosci Bull* 2022, 38(2): 135–148.

Ischemia and Brain Injury ^[1–18]

1. Luo J, Wu X, Liu H, Cui W, Guo W, Guo K, Guo H, Tao K, Li F, Shi Y, Feng D, Yan H, Gao G, Qu Y. Antagonism of Protease-activated Receptor 4 Protects Against Traumatic Brain Injury by Suppressing Neuroinflammation *via* Inhibition of Tab2/NF- κ B Signaling. *Neurosci Bull* 2021, 37(2): 242–254.
2. Cao Y, Li Y, He C, Yan F, Li JR, Xu HZ, Zhuang JF, Zhou H, Peng YC, Fu XJ, Lu XY, Yao Y, Wei YY, Tong Y, Zhou YF, Wang L. Selective Ferroptosis Inhibitor Liproxstatin-1 Attenuates Neurological Deficits and Neuroinflammation After Subarachnoid Hemorrhage. *Neurosci Bull* 2021, 37(4): 535–549.
3. Yu WX, Huang SH, Wang YJ, Zhang M. Recanalization Treatment for Acute Stroke: Can We Skip the Bridge? *Neurosci Bull* 2021, 37(4): 585–587.
4. Li ZX, Xie XW, Xian Y. In the THALES Trial, Past, Present, and Future Meet. *Neurosci Bull* 2021, 37(4): 588–591.
5. Cheng W, Sun Y, Wu Q, Ooi K, Feng Y, Xia C, Zhu D. Paraventricular Nucleus P2X7 Receptors Aggravate Acute Myocardial Infarction Injury *via* ROS-induced Vasopressin-V1b Activation in Rats. *Neurosci Bull* 2021, 37(5): 641–656.
6. Wang Y, Tian D, Zhao Y, Qu M, Pan Y, Wei C, Zhu Y, Wu A. Propofol Protects Regulatory T Cells, Suppresses Neurotoxic Astroglia, and Potentiates Neurological Recovery After Ischemic Stroke. *Neurosci Bull* 2021, 37(5): 725–728.
7. Wang S, He H, Long J, Sui X, Yang J, Lin G, Wang Q, Wang Y, Luo Y. TRPV4 Regulates Soman-Induced Status Epilepticus and Secondary Brain Injury *via* NMDA Receptor and NLRP3 Inflammasome. *Neurosci Bull* 2021, 37(7): 905–920.
8. Cui W, Wu X, Feng D, Luo J, Shi Y, Guo W, Liu H, Wang Q, Wang L, Ge S, Qu Y. Acrolein Induces Systemic Coagulopathy *via* Autophagy-dependent Secretion of von Willebrand Factor in

- Mice after Traumatic Brain Injury. *Neurosci Bull* 2021, 37(8): 1160–1175.
9. Lushnikova I, Nikandrova Y, Skibo G. Mitochondrial Events Determine the Status of Hippocampal Cells in the Post-Ischemic Period. *Neurosci Bull* 2021, 37(8): 1246–1250.
 10. Li J, Li Z, Lyu TJ, Cheng S, Pu Y, Wang Y. Residual Recurrence Risk of Ischemic Cerebrovascular Events: Elements and Implications. *Neurosci Bull* 2021, 37(9): 1361–1364.
 11. Xu C, Chen H, Zhou S, Sun C, Xia X, Peng Y, Zhuang J, Fu X, Zeng H, Zhou H, Cao Y, Yu Q, Li Y, Hu L, Zhou G, Yan F, Chen G, Li J. Pharmacological Activation of RXR- α Promotes Hematoma Absorption *via* a PPAR- γ -dependent Pathway After Intracerebral Hemorrhage. *Neurosci Bull* 2021, 37(10): 1412–1426.
 12. Su F, Wang G, Li T, Jiang S, Yu A, Wang X, Xu W. Neuroinflammation Mediates Faster Brachial Plexus Regeneration in Subjects with Cerebral Injury. *Neurosci Bull* 2021, 37(11): 1542–1554.
 13. Zheng L, Wang Y, Shao B, Zhou H, Li X, Zhang C, Sun N, Shi J. Multiple Mild Stimulations Reduce Membrane Distribution of CX3CR1 Promoted by Annexin a1 in Microglia to Attenuate Excessive Dendritic Spine Pruning and Cognitive Deficits Caused by a Transient Ischemic Attack in Mice. *Neurosci Bull* 2022, 38(7): 753–768.
 14. Huang Z, Luo Z, Ovcjak A, Wan J, Chen NH, Hu W, Sun HS, Feng ZP. AD-16 Protects Against Hypoxic-Ischemic Brain Injury by Inhibiting Neuroinflammation. *Neurosci Bull* 2022, 38(8): 857–870.
 15. Liu YW, Zhang J, Bi W, Zhou M, Li J, Xiong T, Yang N, Zhao L, Chen X, Zhou Y, He W, Yang T, Wang H, Xu L, Dai SS. Histones of Neutrophil Extracellular Traps Induce CD11b Expression in Brain Pericytes *via* Dectin-1 after Traumatic Brain Injury. *Neurosci Bull* 2022, 38(10): 1199–1214.
 16. Mao R, Zong N, Hu Y, Chen Y, Xu Y. Neuronal Death Mechanisms and Therapeutic Strategy in Ischemic Stroke. *Neurosci Bull* 2022, 38(10): 1229–1247.

17. Li Q, Ru X, Yang Y, Zhao H, Qu J, Chen W, Pan P, Ruan H, Li C, Chen Y, Feng H. Lipocalin-2-Mediated Insufficient Oligodendrocyte Progenitor Cell Remyelination for White Matter Injury After Subarachnoid Hemorrhage *via* SCL22A17 Receptor/Early Growth Response Protein 1 Signaling. *Neurosci Bull* 2022, 38(12): 1457–1475.

18. Gao Z, Pang Z, Chen Y, Lei G, Zhu S, Li G, Shen Y, Xu W. Restoring After Central Nervous System Injuries: Neural Mechanisms and Translational Applications of Motor Recovery. *Neurosci Bull* 2022, 38(12): 1569–1587.

Learning and Memory ^[1–19]

1. Zhou X, Huang Z, Zhang J, Chen JL, Yao PW, Mai CL, Mai JZ, Zhang H, Liu XG. Chronic Oral Administration of Magnesium-L-Threonate Prevents Oxaliplatin-induced Memory and Emotional Deficits by Normalization of TNF- α /NF- κ B Signaling in Rats. *Neurosci Bull* 2021, 37(1): 55–69.
2. Liu T, Wang L, Li Q. Drosophila Ortholog of Mammalian Immediate-early Gene *Npas4* is Specifically Responsive to Reversal Learning. *Neurosci Bull* 2021, 37(1): 99–102.
3. Lv Y, Chen P, Shan QH, Qin XY, Qi XH, Zhou JN. Regulation of Cued Fear Expression *via* Corticotropin-releasing-factor Neurons in the Ventral Anteromedial Thalamic Nucleus. *Neurosci Bull* 2021, 37(2): 217–228.
4. Tao Y, Cai CY, Xian JY, Kou XL, Lin YH, Qin C, Wu HY, Chang L, Luo CX, Zhu DY. Projections from Infralimbic Cortex to Paraventricular Thalamus Mediate Fear Extinction Retrieval. *Neurosci Bull* 2021, 37(2): 229–241.
5. Hu Z, Ma J, Gu Y. *Lin28a* is Essential for Synaptic Plasticity in Dentate Granule Cells and Spatial Memory. *Neurosci Bull* 2021, 37(2): 261–266.
6. Adel M, Griffith LC. The Role of Dopamine in Associative Learning in *Drosophila*: An Updated Unified Model. *Neurosci Bull* 2021, 37(6): 831–852.
7. Long X, Tao Y, Chen XC, Deng B, Cai J, Zhang SJ. Getting Lost: Place Cells and Grid Cells in Rodent Models of Alzheimer’s Disease. *Neurosci Bull* 2021, 37(6): 894–897.
8. Fan XC, Ma CN, Song JC, Liao ZH, Huang N, Liu X, Ma L. *Rac1* Signaling in Amygdala Astrocytes Regulates Fear Memory Acquisition and Retrieval. *Neurosci Bull* 2021, 37(7): 947–958.
9. Diao Z, Di Y, Wu M, Zhai C, Kang M, Li Y, Liu Y, Wei C, Zheng Q, Han J, Liu Z, Tian Y, Ren W. Single Exposure to Cocaine Impairs Reinforcement Learning by Potentiating the Activity of

- Neurons in the Direct Striatal Pathway in Mice. *Neurosci Bull* 2021, 37(8): 1119–1134.
10. Zhang WW, Li RR, Zhang J, Yan J, Zhang QH, Hu ZA, Hu B, Yao ZX, Chen H. Hippocampal Interneurons are Required for Trace Eyeblick Conditioning in Mice. *Neurosci Bull* 2021, 37(8): 1147–1159.
 11. Hou X, Xiao X, Gong Y, Jiang Y, Sun P, Li J, Li Z, Zhao X, Yao L, Chen A, Zhu C. Functional Near-Infrared Spectroscopy Neurofeedback of Cortical Target Enhances Hippocampal Activation and Memory Performance. *Neurosci Bull* 2021, 37(8): 1251–1255.
 12. Zhang HL, Zhao B, Yang P, Du YQ, Han W, Xu J, Yin DM. Steroid Receptor Coactivator 3 Regulates Synaptic Plasticity and Hippocampus-dependent Memory. *Neurosci Bull* 2021, 37(12): 1645–1657.
 13. Shao MS, Yang X, Zhang CC, Jiang CY, Mao Y, Xu WD, Ma L, Wang FF. O-GlcNAcylation in Ventral Tegmental Area Dopaminergic Neurons Regulates Motor Learning and the Response to Natural Reward. *Neurosci Bull* 2022, 38(3): 263–274.
 14. Dang R, Zhou Y, Zhang Y, Liu D, Wu M, Liu A, Jia Z, Xie W. Regulation of Social Memory by Lateral Entorhinal Cortical Projection to Dorsal Hippocampal CA2. *Neurosci Bull* 2022, 38(3): 318–322.
 15. Lin Z, You F, Li T, Feng Y, Zhao X, Yang J, Yao Z, Gao Y, Chen JF. Entrainment of Astrocytic and Neuronal Ca²⁺ Population Dynamics During Information Processing of Working Memory in Mice. *Neurosci Bull* 2022, 38(5): 474–488.
 16. Zhao B, Zhang X, Zhao J, Li Q. Exclusion and Co-expression of Aversive Olfactory Long-Term Memories in *Drosophila*. *Neurosci Bull* 2022, 38(6): 657–660.
 17. Gan L, Wu J, Dai J, Funahashi S. The Mechanism for Allocating Limited Working Memory Resources in Multitasking. *Neurosci Bull* 2022, 38(7): 829–833.

18. Wu JL, Gao TM. Monitoring the Activity of Astrocytes in Learning and Memory. *Neurosci Bull* 2022, 38(9): 1117–1120.

19. Xu YL, Zhu L, Chen ZJ, Deng XF, Liu PD, Li S, Lin BC, Yang CZ, Xu W, Zhou KK, Zhu YJ. Release of Endogenous Brain-derived Neurotrophic Factor into the Lateral Entorhinal Cortex from the Paraventricular Thalamus Ameliorates Social Memory Deficits in a Mouse Model of Alzheimer's Disease. *Neurosci Bull* 2022, 38(11): 1425–1430.

Mental Disorders ^[1–18]

1. Yin YN, Hu J, Wei YL, Li ZL, Luo ZC, Wang RQ, Yang KX, Li SJ, Li XW, Yang JM, Gao TM. Astrocyte-derived Lactate Modulates the Passive Coping Response to Behavioral Challenge in Male Mice. *Neurosci Bull* 2021, 37(1): 1–14.
2. Li Q, Yan J, Liao J, Zhang X, Liu L, Fu X, Tan HY, Zhang D, Yan H. Distinct Effects of Social Stress on Working Memory in Obsessive-Compulsive Disorder. *Neurosci Bull* 2021, 37(1): 81–93.
3. Liang S, Li T. Functional Striatal Abnormalities: A Distinct Brain Signature of Schizophrenia. *Neurosci Bull* 2021, 37(2): 284–286.
4. Ma J, Liu F, Yang B, Xue K, Wang P, Zhou J, Wang Y, Niu Y, Zhang J. Selective Aberrant Functional-Structural Coupling of Multiscale Brain Networks in Subcortical Vascular Mild Cognitive Impairment. *Neurosci Bull* 2021, 37(3): 287–297.
5. Li Z, Ruan M, Chen J, Fang Y. Major Depressive Disorder: Advances in Neuroscience Research and Translational Applications. *Neurosci Bull* 2021, 37(6): 863–880.
6. Tang W, Zhou D, Wang S, Hao S, Wang X, Helmy M, Zhu J, Wang H. CRH Neurons in the Laterodorsal Tegmentum Mediate Acute Stress-induced Anxiety. *Neurosci Bull* 2021, 37(7): 999–1004.
7. Zhu Y, Wu X, Zhou R, Sie O, Niu Z, Wang F, Fang Y. Hypothalamic-Pituitary-End-Organ Axes: Hormone Function in Female Patients with Major Depressive Disorder. *Neurosci Bull* 2021, 37(8): 1176–1187.
8. Wang Q, Kong Y, Lin S, Wu DY, Hu J, Huang L, Zang WS, Li XW, Yang JM, Gao TM. The ATP Level in the mPFC Mediates the Antidepressant Effect of Calorie Restriction. *Neurosci Bull* 2021, 37(9): 1303–1313.

9. Zhou X, Wu B, Liu W, Xiao Q, He W, Zhou Y, Wei P, Zhang X, Liu Y, Wang J, He J, Zhang Z, Li W, Wang L, Tu J. Reduced Firing of Nucleus Accumbens Parvalbumin Interneurons Impairs Risk Avoidance in DISC1 Transgenic Mice. *Neurosci Bull* 2021, 37(9): 1325–1338.
10. Wu XS, Yan TC, Wang XY, Cao Y, Liu XF, Fu YF, Wu L, Jin YC, Yin H, Cui LB. Magnetic Resonance Imaging-Guided and Navigated Individualized Repetitive Transcranial Magnetic Stimulation for Cognitive Impairment in Schizophrenia. *Neurosci Bull* 2021, 37(9): 1365–1369.
11. Wu Q, Wang X, Wang Y, Long YJ, Zhao JP, Wu RR. Developments in Biological Mechanisms and Treatments for Negative Symptoms and Cognitive Dysfunction of Schizophrenia. *Neurosci Bull* 2021, 37(11): 1609-1624.
12. Peng Z, Li X, Li J, Dong Y, Gao Y, Liao Y, Yan M, Yuan Z, Cheng J. Dlg1 Knockout Inhibits Microglial Activation and Alleviates Lipopolysaccharide-Induced Depression-Like Behavior in Mice. *Neurosci Bull* 2021, 37(12): 1671–1682.
13. Huang SH, Liu WZ, Qin X, Guo CY, Xiong QC, Wang Y, Hu P, Pan BX, Zhang WH. Association of Increased Amygdala Activity with Stress-Induced Anxiety but not Social Avoidance Behavior in Mice. *Neurosci Bull* 2022, 38(1): 16–28.
14. Liu H, Wu X, Chen J, Fang Y. A Breakthrough in Understanding the Rapid Antidepressant Effect of Ketamine Based on Structural Analysis. *Neurosci Bull* 2022, 38(2): 229–231.
15. Ren D, Li JN, Qiu XT, Wan FP, Wu ZY, Fan BY, Zhang MM, Chen T, Li H, Bai Y, Li YQ. Anterior Cingulate Cortex Mediates Hyperalgesia and Anxiety Induced by Chronic Pancreatitis in Rats. *Neurosci Bull* 2022, 38(4): 342–358.
16. Wu S, Gao C, Han F, Cheng H. Histamine H1 Receptor in Basal Forebrain Cholinergic Circuit: A Novel Target for the Negative Symptoms of Schizophrenia? *Neurosci Bull* 2022, 38(5): 558–560.
17. Li X, Gao TM. Epigenetic Mechanism of Depression after Early Life Stress. *Neurosci Bull* 2022,

38(6): 692–694.

18. Niu Z, Wu X, Zhu Y, Yang L, Shi Y, Wang Y, Qiu H, Gu W, Wu Y, Long X, Lu Z, Hu S, Yao Z, Yang H, Liu T, Xia Y, Chen Z, Chen J, Fang Y. Early Diagnosis of Bipolar Disorder Coming Soon: Application of an Oxidative Stress Injury Biomarker (BIOS) Model. *Neurosci Bull* 2022, 38(9): 979–991.

Model Organism^[0-0]

Myelin and Demyelination ^[1–7]

1. Dong F, Liu D, Jiang F, Liu Y, Wu X, Qu X, Liu J, Chen Y, Fan H, Yao R. Conditional Deletion of Foxg1 Alleviates Demyelination and Facilitates Remyelination *via* the Wnt Signaling Pathway in Cuprizone-induced Demyelinated Mice. *Neurosci Bull* 2021, 37(1): 15–30.
2. Mei R, Fu J, Jiang C, Yang J, Zheng K, Yang A, Qiu M, Zhao X. TAPP1 Represses the Differentiation of Oligodendrocyte and its Deficiency Accelerates Myelin Regeneration after Demyelinating Injuries. *Neurosci Bull* 2021, 37(3): 385–388.
3. Huang H, Zhou F, Zhou S, Qiu M. MYRF: A Mysterious Membrane-Bound Transcription Factor Involved in Myelin Development and Human Diseases. *Neurosci Bull* 2021, 37(6): 881–884.
4. Shao Q, Zhao M, Pei W, Pu Y, Liu M, Liu W, Yu Z, Chen K, Liu H, Deng B, Cao L. Pinocembrin Promotes OPC Differentiation and Remyelination *via* the mTOR Signaling Pathway. *Neurosci Bull* 2021, 37(9): 1314–1324.
5. Chen L, Ren SY, Li RX, Liu K, Chen JF, Yang YJ, Deng YB, Wang HZ, Xiao L, Mei F, Wang F. Chronic Exposure to Hypoxia Inhibits Myelinogenesis and Causes Motor Coordination Deficits in Adult Mice. *Neurosci Bull* 2021, 37(10): 1397–1411.
6. Zhang B, Su W, Hu J, Xu J, Askar P, Bao S, Zhou S, Chen G, Gu Y. Transcriptome Analysis of Schwann Cells at Various Stages of Myelination Implicates Chromatin Regulator Sin3A in Control of Myelination Identity. *Neurosci Bull* 2022, 38(7): 720–740.
7. Li Q, Ru X, Yang Y, Zhao H, Qu J, Chen W, Pan P, Ruan H, Li C, Chen Y, Feng H. Lipocalin-2-Mediated Insufficient Oligodendrocyte Progenitor Cell Remyelination for White Matter Injury After Subarachnoid Hemorrhage *via* SCL22A17 Receptor/Early Growth Response Protein 1 Signaling. *Neurosci Bull* 2022, 38(12): 1457–1475.

Neural Plasticity ^[1–6]

1. Hu Z, Ma J, Gu Y. Lin28a is Essential for Synaptic Plasticity in Dentate Granule Cells and Spatial Memory. *Neurosci Bull* 2021, 37(2): 261–266.
2. Li Y, Zhang L, Li J, Wang C, Chen Y, Yuan Y, Xie K, Wang G, Yu Y. A Role for Transmembrane Protein 16C/Slack Impairment in Excitatory Nociceptive Synaptic Plasticity in the Pathogenesis of Remifentanil-induced Hyperalgesia in Rats. *Neurosci Bull* 2021, 37(5): 669–683.
3. Yang L, Tucker L, Zhang Q. Vasopressin Signaling Buffers Synaptic Metaplasticity in a Sex-specific Manner. *Neurosci Bull* 2021, 37(9): 1377–1380.
4. Su LD, Shen Y. PQBP1: A New Player in Metabotropic Glutamate Receptor Signaling and Synaptic Plasticity. *Neurosci Bull* 2021, 37(11): 1637–1638.
5. Zhang HL, Zhao B, Yang P, Du YQ, Han W, Xu J, Yin DM. Steroid Receptor Coactivator 3 Regulates Synaptic Plasticity and Hippocampus-dependent Memory. *Neurosci Bull* 2021, 37(12): 1645–1657.
6. Wu X, Li H, Huang J, Xu M, Xiao C, He S. Regulation of Axon Initial Segment Diameter by COUP-TFI Fine-tunes Action Potential Generation. *Neurosci Bull* 2022, 38(5): 505–518.

Neurocircuitry ^[1–18]

1. Liu N, Fu C, Yu H, Wang Y, Shi L, Hao Y, Yuan F, Zhang X, Wang S. Respiratory Control by Phox2b-expressing Neurons in a Locus Coeruleus-preBotzinger Complex Circuit. *Neurosci Bull* 2021, 37(1): 31–44.
2. Yao Y, Gao G, Liu K, Shi X, Cheng M, Xiong Y, Song S. Projections from D2 Neurons in Different Subregions of Nucleus Accumbens Shell to Ventral Pallidum Play Distinct Roles in Reward and Aversion. *Neurosci Bull* 2021, 37(5): 623–640.
3. Cui L, Guo B, Zhao D, Li J, Luo Y, Meng M. Amygdala-based Functional Network Reveals Dissociated Neural Correlates of Consensual and Idiosyncratic Emotional Movie Experiences. *Neurosci Bull* 2021, 37(5): 729–734.
4. Cao X, Yin HY, Ulrich H, Semyanov A, Tang Y. A Neural Circuit for Gut-induced Sugar Preference. *Neurosci Bull* 2021, 37(5): 754–756.
5. Zhao S, Li R, Li H, Wang S, Zhang X, Wang D, Guo J, Li H, Li A, Tong T, Zhong H, Yang Q, Dong H. Lateral Hypothalamic Area Glutamatergic Neurons and Their Projections to the Lateral Habenula Modulate the Anesthetic Potency of Isoflurane in Mice. *Neurosci Bull* 2021, 37(7): 934–946.
6. Ying Y, Wang JZ. Illuminating Neural Circuits in Alzheimer’s Disease. *Neurosci Bull* 2021, 37(8): 1203–1217.
7. Ma KY, Cai XY, Wang XT, Wang ZX, Huang WM, Wu ZY, Feng ZY, Shen Y. Three-Dimensional Heterogeneity of Cerebellar Interposed Nucleus-Recipient Zones in the Thalamic Nuclei. *Neurosci Bull* 2021, 37(11): 1529–1541.
8. Yu H, Shi L, Chen J, Jun S, Hao Y, Wang S, Fu C, Zhang X, Lu H, Wang S, Yuan F. A Neural Circuit Mechanism Controlling Breathing by Leptin in the Nucleus Tractus Solitarii. *Neurosci Bull* 2022, 38(2): 149–165.

9. Zheng J, Liu N, Xu H. Pathway Matters: Prefrontal Control of Negative Emotions *via* Distinct Downstream Regions. *Neurosci Bull* 2022, 38(2): 226–228.
10. Guo F, Du Y, Qu FH, Lin SD, Chen Z, Zhang SH. Dissecting the Neural Circuitry for Pain Modulation and Chronic Pain: Insights from Optogenetics. *Neurosci Bull* 2022, 38(4): 440–452.
11. Yan H, Mo G, Ha NT, Deng J. The Spinal-Parabrachial-Mesencephalic Circuit: A Possible Explanation of How Pain Leads to Emotional Disorders. *Neurosci Bull* 2022, 38(4): 456–458.
12. Zhang J, Chen H, Zhang LB, Li RR, Wang B, Zhang QH, Tong LX, Zhang WW, Yao ZX, Hu B. Ventromedial Thalamus-Projecting DCN Neurons Modulate Associative Sensorimotor Responses in Mice. *Neurosci Bull* 2022, 38(5): 459–473.
13. Zheng D, Fu JY, Tang MY, Yu XD, Zhu Y, Shen CJ, Li CY, Xie SZ, Lin S, Luo M, Li XM. A Deep Mesencephalic Nucleus Circuit Regulates Licking Behavior. *Neurosci Bull* 2022, 38(6): 565–575.
14. Zhao M, Ren M, Jiang T, Jia X, Wang X, Li A, Li X, Luo Q, Gong H. Whole-Brain Direct Inputs to and Axonal Projections from Excitatory and Inhibitory Neurons in the Mouse Primary Auditory Area. *Neurosci Bull* 2022, 38(6): 576–590.
15. Wang T, Chen Y, Cui H. From Parametric Representation to Dynamical System: Shifting Views of the Motor Cortex in Motor Control. *Neurosci Bull* 2022, 38(7): 796–808.
16. Hu J, Hu W, Tang L, Wang Y. Fundamental Neurocircuit of Anti-inflammatory Effect by Electroacupuncture Stimulation Identified. *Neurosci Bull* 2022, 38(7): 837–839.
17. Sun Z, Dicke PW, Thier P. Differential Kinematic Encoding of Saccades and Smooth-pursuit Eye Movements by Fastigial Neurons. *Neurosci Bull* 2022, 38(8): 927–932.
18. Yan JJ, Zhang W, Xu XH. Can You Feel the Love Tonight: A Dipeptidergic Circuit for Pleasant Touch. *Neurosci Bull* 2022, 38(8): 966–968.

Neurodegeneration ^[1–45]

1. Chen L, Li C, Xie J. Axonal Iron Transport might Contribute to Iron Deposition in Parkinson's Disease. *Neurosci Bull* 2021, 37(2): 275–277.
2. Zhang Q, Xie C. Apolipoprotein E Drives Early Blood-brain Barrier Damage in Alzheimer's Disease. *Neurosci Bull* 2021, 37(2): 281–283.
3. Chapp AD, Behnke JE, Driscoll KM, Hahka T, LaLonde Z, Shan Z, Chen QH. Elevated L-lactate Promotes Major Cellular Pathologies Associated with Neurodegenerative Diseases. *Neurosci Bull* 2021, 37(3): 380–384.
4. Jiang Y, Wang Y, Huang Z. Targeting PTB as a One-step Procedure for In Situ Astrocyte-to-Dopamine Neuron Reprogramming in Parkinson's Disease. *Neurosci Bull* 2021, 37(3): 430–432.
5. Tang F, Wang Q, Guo J, Lei P. Tau Modulates Neurovascular Coupling. *Neurosci Bull* 2021, 37(3): 433–435.
6. Lu S, Lu B. Degeneration Versus Development: Hunting-out the D-unit of Huntington's Disease. *Neurosci Bull* 2021, 37(5): 757–760.
7. Zheng J, Li Y. Compensation for Neurodegeneration by Hippocampal Neurogenesis in Alzheimer's Disease: Where is the Way? *Neurosci Bull* 2021, 37(6): 885–888.
8. Pan X, Sang S, Zhong C. Brain Energy Improvement as an Emerging Approach for Alzheimer's Disease Treatment. *Neurosci Bull* 2021, 37(6): 892–893.
9. Long X, Tao Y, Chen XC, Deng B, Cai J, Zhang SJ. Getting Lost: Place Cells and Grid Cells in Rodent Models of Alzheimer's Disease. *Neurosci Bull* 2021, 37(6): 894–897.
10. Wang X. A Bridge Between the Innate Immunity System and Amyloid- β Production in Alzheimer's Disease. *Neurosci Bull* 2021, 37(6): 898–901.

11. Liu Y, Niu L, Liu X, Cheng C, Le W. Recent Progress in Non-motor Features of Parkinson's Disease with a Focus on Circadian Rhythm Dysregulation. *Neurosci Bull* 2021, 37(7): 1010–1024.
12. Jia J, Xu J, Liu J, Wang Y, Wang Y, Cao Y, Guo Q, Qu Q, Wei C, Wei W, Zhang J, Yu E. Comprehensive Management of Daily Living Activities, behavioral and Psychological Symptoms, and Cognitive Function in Patients with Alzheimer's Disease: A Chinese Consensus on the Comprehensive Management of Alzheimer's Disease. *Neurosci Bull* 2021, 37(7): 1025–1038.
13. Zhang Q, Wang Y, Wang Y, Liu H, Sun H, Wang Z, Shi C, Yang J, Xu Y. Autologous Transplantation for Parkinson's Disease Patients: Feasibility and Challenge. *Neurosci Bull* 2021, 37(7): 1085–1086.
14. Ying Y, Wang JZ. Illuminating Neural Circuits in Alzheimer's Disease. *Neurosci Bull* 2021, 37(8): 1203–1217.
15. Yao Y, Dai J. Naturally Occurring Parkinson's Disease Raises the Need for Nonhuman Primates in Neurodegenerative Diseases Research. *Neurosci Bull* 2021, 37(8): 1267–1269.
16. Li H, Wu S, Ma X, Li X, Cheng T, Chen Z, Wu J, Lv L, Li L, Xu L, Wang W, Hu Y, Jiang H, Yin Y, Qiu Z, Hu X. Co-editing PINK1 and DJ-1 Genes *Via* Adeno-Associated Virus-Delivered CRISPR/Cas9 System in Adult Monkey Brain Elicits Classical Parkinsonian Phenotype. *Neurosci Bull* 2021, 37(9): 1271–1288.
17. Liu Y, Wu G, Shu X, Wang X. Targeting the Transnitrosylation Cascade Provides a Novel Therapeutic Strategy for Alzheimer's Disease. *Neurosci Bull* 2021, 37(9): 1373–1376.
18. Zhu X, Li B, Lou P, Dai T, Chen Y, Zhuge A, Yuan Y, Li L. The Relationship Between the Gut Microbiome and Neurodegenerative Diseases. *Neurosci Bull* 2021, 37(10): 1510–1522.
19. Li S, Jia C, Li T, Le W. Hot Topics in Recent Parkinson's Disease Research: Where We Are and Where We Should Go. *Neurosci Bull* 2021, 37(12): 1735–1744.

20. Li LX, Li YL, Wu JT, Song JZ, Li XM. Glutamatergic Neurons in the Caudal Zona Incerta Regulate Parkinsonian Motor Symptoms in Mice. *Neurosci Bull* 2022, 38(1): 1–15.
21. Yang CC, Cheng Y, Yang HM, Chen Y, Wang YJ, Xu ZQ, Wang YR. Peripheral Delivery of Ganglioside GM1 Exacerbates the Pathogenesis of Alzheimer's Disease in a Mouse Model. *Neurosci Bull* 2022, 38(1): 95–98.
22. Liu J, Wang YJ. Rejuvenating the Immune System: Insights for Anti-Neurodegeneration Strategies. *Neurosci Bull* 2022, 38(1): 107–109.
23. Wu C, Yang L, Youngblood H, Liu TC, Duan R. Microglial SIRP α Deletion Facilitates Synapse Loss in Preclinical Models of Neurodegeneration. *Neurosci Bull* 2022, 38(2): 232–234.
24. Chen SH, He CY, Shen YY, Zeng GH, Tian DY, Cheng Y, Xu MY, Fan DY, Tan CR, Shi AY, Bu XL, Wang YJ. Polysaccharide Krestin Prevents Alzheimer's Disease-type Pathology and Cognitive Deficits by Enhancing Monocyte Amyloid- β Processing. *Neurosci Bull* 2022, 38(3): 290–302.
25. Xu MY, Xu ZQ, Wang YJ. White Matter "Matters" in Alzheimer's Disease. *Neurosci Bull* 2022, 38(3): 323–326.
26. Wang M, Jiang Y, Huang Z. Loss of C9orf72 in Microglia Drives Neuronal Injury by Enhancing Synaptic Pruning in Aged and Alzheimer's Disease Mice. *Neurosci Bull* 2022, 38(3): 327–330.
27. Bowirrat A, Ashkenazi S, Bowirrat A, Pinhasov A. Does the Application of Deep Brain Stimulation to Modulate Memory and Neural Circuitry in AD Hold Substantial Promise? *Neurosci Bull* 2022, 38(5): 553–557.
28. Ma C, Wang X, Smith WW, Liu Z. VPS35 Protects Against TMEM230-mutation-induced Progressive Locomotor Deficits in *Drosophila*. *Neurosci Bull* 2022, 38(6): 652–656.
29. Huang S, Wang YJ, Guo J. Biofluid Biomarkers of Alzheimer's Disease: Progress, Problems, and

Perspectives. *Neurosci Bull* 2022, 38(6): 677–691.

30. Zhang R, Xu X, Yu H, Xu X, Wang M, Le W. Factors Influencing Alzheimer's Disease Risk: Whether and How They are Related to the APOE Genotype. *Neurosci Bull* 2022, 38(7): 809–819.
31. Xu H, Cheng X, Song Q, Yang Y, Wang C, Kang X. Induced Dopaminergic Neurons for Parkinson's Disease Therapy: Targeting the Striatum or Midbrain/Substantia Nigra Pars Compacta? *Neurosci Bull* 2022, 38(7): 820–824.
32. Yuan Y, Ma X, Song N, Xie J. Expanding Views of Mitochondria in Parkinson's Disease: Focusing on PINK1 and GBA1 Mutations. *Neurosci Bull* 2022, 38(7): 825–828.
33. Peng H, Yu S, Zhang Y, Yin Y, Zhou J. Intestinal Dopamine Receptor D2 is Required for Neuroprotection Against 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced Dopaminergic Neurodegeneration. *Neurosci Bull* 2022, 38(8): 871–886.
34. Dang X, Huan X, Du X, Chen X, Bi M, Yan C, Jiao Q, Jiang H. Correlation of Ferroptosis and Other Types of Cell Death in Neurodegenerative Diseases. *Neurosci Bull* 2022, 38(8): 938–952.
35. Gao XL, Wang J, Wang YJ, Bu XL. Combining Multiple Factors to Predict Alzheimer's Disease. *Neurosci Bull* 2022, 38(8): 969–972.
36. Cui W, Xue B, Xie J, Xu H. Targeting the Cuneiform Nucleus in Parkinson's Disease: Option to Improve Locomotor Activity. *Neurosci Bull* 2022, 38(8): 976–978.
37. Jian JM, Fan DY, Tian DY, Cheng Y, Sun PY, Tan CR, Zeng GH, He CY, Wang YR, Zhu J, Yao XQ, Wang YJ, Liu YH. Naturally-Occurring Antibodies Against Bim are Decreased in Alzheimer's Disease and Attenuate AD-type Pathology in a Mouse Model. *Neurosci Bull* 2022, 38(9): 1025–1040.
38. Liu F, Sun J, Wang X, Jin S, Sun F, Wang T, Yuan B, Qiu W, Ma C. Focal-type, but not Diffuse-type, Amyloid Beta Plaques are Correlated with Alzheimer's Neuropathology, Cognitive

- Dysfunction, and Neuroinflammation in the Human Hippocampus. *Neurosci Bull* 2022, 38(10): 1125–1138.
39. Liu X, Yu H, Wang Y, Li S, Cheng C, Al-Nusaif M, Le W. Altered Motor Performance, Sleep EEG, and Parkinson's Disease Pathology Induced by Chronic Sleep Deprivation in *Lrrk2^{G2019S}* Mice. *Neurosci Bull* 2022, 38(10): 1170–1182.
40. Juranek J, Mukherjee K, Kordas B, Załęcki M, Korytko A, Zglejc-Waszak K, Szuszkiewicz J, Banach M. Role of RAGE in the Pathogenesis of Neurological Disorders. *Neurosci Bull* 2022, 38(10): 1248–1262.
41. Zhang J, Shen Q, Ma Y, Liu L, Jia W, Chen L, Xie J. Calcium Homeostasis in Parkinson's Disease: From Pathology to Treatment. *Neurosci Bull* 2022, 38(10): 1267–1270.
42. Yang L, Feng S, Wu C, Yang L. Microglia-Mediated A β Propagation in Alzheimer's Disease. *Neurosci Bull* 2022, 38(10): 1274–1276.
43. Qin Y, Li S, Li XJ, Yang S. CRISPR-Based Genome-Editing Tools for Huntington's Disease Research and Therapy. *Neurosci Bull* 2022, 38(11): 1397–1408.
44. Xu YL, Zhu L, Chen ZJ, Deng XF, Liu PD, Li S, Lin BC, Yang CZ, Xu W, Zhou KK, Zhu YJ. Release of Endogenous Brain-derived Neurotrophic Factor into the Lateral Entorhinal Cortex from the Paraventricular Thalamus Ameliorates Social Memory Deficits in a Mouse Model of Alzheimer's Disease. *Neurosci Bull* 2022, 38(11): 1425–1430.
45. Chen X, Chu H, Dong Y. UNC13A Gene Brings New Hope for ALS Disease-Modifying Drugs. *Neurosci Bull* 2022, 38(11): 1431–1434.

Neurodevelopment, Neurogenesis ^[1–10]

1. Tian K, Wang A, Wang J, Li W, Shen W, Li Y, Luo Z, Liu Y, Zhou Y. Transcriptome Analysis Identifies SenZfp536, a Sense LncRNA that Suppresses Self-renewal of Cortical Neural Progenitors. *Neurosci Bull* 2021, 37(2): 183–200.
2. Ni Y, Liu B, Wu X, Liu J, Ba R, Zhao C. FOXP1 Directly Suppresses Wnt5a During the Development of the Hippocampus. *Neurosci Bull* 2021, 37(3): 298–310.
3. Huang H, Rubenstein JL, Qiu M. Cracking the Codes of Cortical Glial Progenitors: Evidence for the Common Lineage of Astrocytes and Oligodendrocytes. *Neurosci Bull* 2021, 37(4): 437–439.
4. Li X, Liu G, Yang L, Li Z, Zhang Z, Xu Z, Cai Y, Du H, Su Z, Wang Z, Duan Y, Chen H, Shang Z, You Y, Zhang Q, He M, Chen B, Yang Z. Decoding Cortical Glial Cell Development. *Neurosci Bull* 2021, 37(4): 440–460.
5. Song X, Chen H, Shang Z, Du H, Li Z, Wen Y, Liu G, Qi D, You Y, Yang Z, Zhang Z, Xu Z. Homeobox Gene Six3 is Required for the Differentiation of D2-Type Medium Spiny Neurons. *Neurosci Bull* 2021, 37(7): 985–998.
6. Cuapio A, Ljunggren HG. Activated Natural Killer Cells Hit Neurogenesis in the Aging Brain. *Neurosci Bull* 2021, 37(7): 1072–1074.
7. Yang L, Li Z, Liu G, Li X, Yang Z. Developmental Origins of Human Cortical Oligodendrocytes and Astrocytes. *Neurosci Bull* 2022, 38(1): 47–68.
8. Ma L, Du Y, Xu X, Feng H, Hui Y, Li N, Jiang G, Zhang X, Li X, Liu L. β -Catenin Deletion in Regional Neural Progenitors Leads to Congenital Hydrocephalus in Mice. *Neurosci Bull* 2022, 38(1): 81–94.
9. Wei C, Sun M, Sun X, Meng H, Li Q, Gao K, Yue W, Wang L, Zhang D, Li J. RhoGEF Trio Regulates Radial Migration of Projection Neurons *via* Its Distinct Domains. *Neurosci Bull* 2022,

38(3): 249–262.

10. Li P, Chen Y. Progress in Modeling Neural Tube Development and Defects by Organoid Reconstruction. *Neurosci Bull* 2022, 38(11): 1409–1419.

Neuroendocrine^[1–2]

1. Lv Y, Chen P, Shan QH, Qin XY, Qi XH, Zhou JN. Regulation of Cued Fear Expression *via* Corticotropin-releasing-factor Neurons in the Ventral Anteromedial Thalamic Nucleus. *Neurosci Bull* 2021, 37(2): 217–228.
2. Ma B, Wang R, Liu Y, Deng B, Wang T, Wu F, Zhou C. Serotonin Signaling Modulates Sexual Receptivity of Virgin Female *Drosophila*. *Neurosci Bull* 2022, 38(11): 1277–1291.

Neuroprotection ^[1-2]

1. Chen W, Zhang HT, Qin SC. Neuroprotective Effects of Molecular Hydrogen: A Critical Review. *Neurosci Bull* 2021, 37(3): 389–404.
2. Zhou XF. ESCAPE-NA1 Trial Brings Hope of Neuroprotective Drugs for Acute Ischemic Stroke: Highlights of the Phase 3 Clinical Trial on Nerinetide. *Neurosci Bull* 2021, 37(4): 579–581.

Neurotransmission ^[1–6]

1. Bai G, Zhang M. Mesophasic Assembly of Inhibitory Postsynaptic Density. *Neurosci Bull* 2021, 37(1): 141–143.
2. Hu Z, Ma J, Gu Y. Lin28a is Essential for Synaptic Plasticity in Dentate Granule Cells and Spatial Memory. *Neurosci Bull* 2021, 37(2): 261–266.
3. Li Y, Zhang L, Li J, Wang C, Chen Y, Yuan Y, Xie K, Wang G, Yu Y. A Role for Transmembrane Protein 16C/Slack Impairment in Excitatory Nociceptive Synaptic Plasticity in the Pathogenesis of Remifentanyl-induced Hyperalgesia in Rats. *Neurosci Bull* 2021, 37(5): 669–683.
4. Zhang T, Ruan HZ, Wang YC, Shao YQ, Zhou W, Weng SJ, Zhong YM. Signaling Mechanism for Modulation by GLP-1 and Exendin-4 of GABA Receptors on Rat Retinal Ganglion Cells. *Neurosci Bull* 2022, 38(6): 622–636.
5. Liu Y, Tian X, Ke P, Gu J, Ma Y, Guo Y, Xu X, Chen Y, Yang M, Wang X, Xiao F. KIF17 Modulates Epileptic Seizures and Membrane Expression of the NMDA Receptor Subunit NR2B. *Neurosci Bull* 2022, 38(8): 841–856.
6. Tian W, Peng L, Zhao M, Tao L, Zou P, Zhang Y. Dendritic Morphology Affects the Velocity and Amplitude of Back-propagating Action Potentials. *Neurosci Bull* 2022, 38(11): 1330–1346.

Other Diseases^[1–11]

1. Li J, Liu Y, Li Q, Huang X, Zhou D, Xu H, Zhao F, Mi X, Wang R, Jia F, Xu F, Yang J, Liu D, Deng X, Zhang Y. Mutation in ϵ -Sarcoglycan Induces a Myoclonus-Dystonia Syndrome-like Movement Disorder in Mice. *Neurosci Bull* 2021, 37(3): 311–322.
2. Chen J, Wang Q, Li N, Huang S, Li M, Cai J, Wang Y, Wen H, Lv S, Wang N, Wang J, Luo F, Zhang W. Dyskinesia is Closely Associated with Synchronization of Theta Oscillatory Activity Between the Substantia Nigra Pars Reticulata and Motor Cortex in the Off L-dopa State in Rats. *Neurosci Bull* 2021, 37(3): 323–338.
3. Waubant E. Incidence of Acute Disseminated Encephalomyelitis in China: First National Survey. *Neurosci Bull* 2021, 37(6): 761–762.
4. Xiu Y, Gu H, Li X, Li Z, Jin WN, Liu Q, Shi FD. Incidence and Mortality of Acute Disseminated Encephalomyelitis in China: A Nationwide Population-Based Study. *Neurosci Bull* 2021, 37(6): 804–808.
5. Zhao J, Xue J, Zhu T, He H, Kang H, Jiang X, Huang W, Duan R. Dysregulated CRMP Mediates Circadian Deficits in a *Drosophila* Model of Fragile X Syndrome. *Neurosci Bull* 2021, 37(7): 973–984.
6. Zheng L, Hong F, Huang F, Wang W. Inhibition of PI4KIII α as a Novel Potential Approach for Gaucher Disease Treatment. *Neurosci Bull* 2021, 37(8): 1234–1239.
7. Shi Q, Chen C, Xiao K, Zhou W, Gao LP, Chen DD, Wu YZ, Wang Y, Hu C, Gao C, Dong XP. Genetic Prion Disease: Insight from the Features and Experience of China National Surveillance for Creutzfeldt-Jakob Disease. *Neurosci Bull* 2021, 37(11): 1570–1582.
8. Shao Y, Ge Q, Yang J, Wang M, Zhou Y, Guo JX, Zhu M, Shi J, Hu Y, Shen L, Chen Z, Li XM, Zhu JM, Zhang J, Duan S, Chen J. Pathological Networks Involving Dysmorphic Neurons in Type II Focal Cortical Dysplasia. *Neurosci Bull* 2022, 38(9): 1007–1024.

9. Xiao H, Hu F, Ding J, Ye Z. Cognitive Impairment in Idiopathic Normal Pressure Hydrocephalus. *Neurosci Bull* 2022, 38(9): 1085–1096.
10. Zheng J, Wang Y, Liu Y, Han S, Zhang Y, Luo Y, Yan Y, Li J, Zhao L. cPKC γ Deficiency Exacerbates Autophagy Impairment and Hyperphosphorylated Tau Buildup through the AMPK/mTOR Pathway in Mice with Type 1 Diabetes Mellitus. *Neurosci Bull* 2022, 38(10): 1153–1169.
11. Juranek J, Mukherjee K, Kordas B, Załęcki M, Korytko A, Zglejc-Waszak K, Szuszkiewicz J, Banach M. Role of RAGE in the Pathogenesis of Neurological Disorders. *Neurosci Bull* 2022, 38(10): 1248–1262.

Pain and Itch ^[1–39]

1. Fang Y, Han S, Li X, Xie Y, Zhu B, Gao X, Ma C. Cutaneous Hypersensitivity as an Indicator of Visceral Inflammation *via* C-Nociceptor Axon Bifurcation. *Neurosci Bull* 2021, 37(1): 45–54.
2. Shibata M, Tang C. Implications of Transient Receptor Potential Cation Channels in Migraine Pathophysiology. *Neurosci Bull* 2021, 37(1): 103–116.
3. Kong YF, Sha WL, Wu XB, Zhao LX, Ma LJ, Gao YJ. CXCL10/CXCR3 Signaling in the DRG Exacerbates Neuropathic Pain in Mice. *Neurosci Bull* 2021, 37(3): 339–352.
4. Xiao X, Ding M, Zhang YQ. Role of the Anterior Cingulate Cortex in Translational Pain Research. *Neurosci Bull* 2021, 37(3): 405–422.
5. Han WJ, Ma SB, Wu WB, Wang FD, Cao XL, Wang DH, Wu HN, Xie RG, Li ZZ, Wang F, Wu SX, Zheng MH, Luo C, Han H. Tweety-homolog 1 Facilitates Pain *via* Enhancement of Nociceptor Excitability and Spinal Synaptic Transmission. *Neurosci Bull* 2021, 37(4): 478–496.
6. Zhao LX, Jiang M, Bai XQ, Cao DL, Wu XB, Zhang J, Guo JS, Chen TT, Wang J, Wu H, Gao YJ, Zhang ZJ. TLR8 in the Trigeminal Ganglion Contributes to the Maintenance of Trigeminal Neuropathic Pain in Mice. *Neurosci Bull* 2021, 37(4): 550–562.
7. Zhao X, Wang Y, Zhang Y, Wang H, Ren J, Yan F, Song D, Du R, Wang Q, Huang L. Propofol-induced Anesthesia Alters Corticocortical Functional Connectivity in the Human Brain: An EEG Source Space Analysis. *Neurosci Bull* 2021, 37(4): 563–568.
8. Hu Y, Shan WQ, Wu B, Liu T. New Insight into the Origins of Itch and Pain: How are Itch and Pain Signals Coded and Discriminated by Primary Sensory Neurons? *Neurosci Bull* 2021, 37(4): 575–578.
9. Wang HR, Hu SW, Zhang S, Song Y, Wang XY, Wang L, Li YY, Yu YM, Liu H, Liu D, Ding HL,

- Cao JL. KCNQ Channels in the Mesolimbic Reward Circuit Regulate Nociception in Chronic Pain in Mice. *Neurosci Bull* 2021, 37(5): 597–610.
10. Li Y, Zhang L, Li J, Wang C, Chen Y, Yuan Y, Xie K, Wang G, Yu Y. A Role for Transmembrane Protein 16C/Slack Impairment in Excitatory Nociceptive Synaptic Plasticity in the Pathogenesis of Remifentanil-induced Hyperalgesia in Rats. *Neurosci Bull* 2021, 37(5): 669–683.
 11. Wang Y, Tian D, Zhao Y, Qu M, Pan Y, Wei C, Zhu Y, Wu A. Propofol Protects Regulatory T Cells, Suppresses Neurotoxic Astrogliosis, and Potentiates Neurological Recovery After Ischemic Stroke. *Neurosci Bull* 2021, 37(5): 725–728.
 12. Wu XB, Zhu Q, Gao YJ. CCL2/CCR2 Contributes to the Altered Excitatory-inhibitory Synaptic Balance in the Nucleus Accumbens Shell Following Peripheral Nerve Injury-induced Neuropathic Pain. *Neurosci Bull* 2021, 37(7): 921–933.
 13. Zhao S, Li R, Li H, Wang S, Zhang X, Wang D, Guo J, Li H, Li A, Tong T, Zhong H, Yang Q, Dong H. Lateral Hypothalamic Area Glutamatergic Neurons and Their Projections to the Lateral Habenula Modulate the Anesthetic Potency of Isoflurane in Mice. *Neurosci Bull* 2021, 37(7): 934–946.
 14. Liedtke W. STING-ing Pain: How Can Pro-inflammatory Signaling Attenuate Pain? *Neurosci Bull* 2021, 37(7): 1075–1078.
 15. Wang Z, Xu ZZ. The Parabrachial Nucleus as a Key Regulator of Neuropathic Pain. *Neurosci Bull* 2021, 37(7): 1079–1081.
 16. Lin W, Zhang WW, Lyu N, Cao H, Xu WD, Zhang YQ. Growth Differentiation Factor-15 Produces Analgesia by Inhibiting Tetrodotoxin-Resistant Nav1.8 Sodium Channel Activity in Rat Primary Sensory Neurons. *Neurosci Bull* 2021, 37(9): 1289–1302.
 17. Du Y, Wu YX, Guo F, Qu FH, Hu TT, Tan B, Wang Y, Hu WW, Chen Z, Zhang SH. Lateral

- Habenula Serves as a Potential Therapeutic Target for Neuropathic Pain. *Neurosci Bull* 2021, 37(9): 1339–1344.
18. Wu ZH, Shao HY, Fu YY, Wu XB, Cao DL, Yan SX, Sha WL, Gao YJ, Zhang ZJ. Descending Modulation of Spinal Itch Transmission by Primary Somatosensory Cortex. *Neurosci Bull* 2021, 37(9): 1345–1350.
 19. Xie YK, Luo H, Qiu XY, Xu ZZ. Resolution of Inflammatory Pain by Endogenous Chemerin and G Protein-Coupled Receptor ChemR23. *Neurosci Bull* 2021, 37(9): 1351–1356.
 20. Teng G, Zhang F, Li Z, Zhang C, Zhang L, Chen L, Zhou T, Yue L, Zhang J. Quantitative Electrophysiological Evaluation of the Analgesic Efficacy of Two Lappaconitine Derivatives: A Window into Antinociceptive Drug Mechanisms. *Neurosci Bull* 2021, 37(11): 1555–1569.
 21. Fatima M, Hor CC, Duan B. Know Thy Enemy: Untangling the Mysteries of Neuropathic Pain. *Neurosci Bull* 2021, 37(11): 1639–1641.
 22. Ji RR, Lee SY. Molecular Sensors of Temperature, Pressure, and Pain with Special Focus on TRPV1, TRPM8, and PIEZO2 Ion Channels. *Neurosci Bull* 2021, 37(12): 1745–1749.
 23. Chen J, Shan L, Dai J. Distinct Recovery Process of Consciousness and Cognition After Anesthesia. *Neurosci Bull* 2022, 38(1): 110–112.
 24. Ji RR. Third Special Issue on Mechanisms of Pain and Itch. *Neurosci Bull* 2022, 38(4): 339–341.
 25. Ren D, Li JN, Qiu XT, Wan FP, Wu ZY, Fan BY, Zhang MM, Chen T, Li H, Bai Y, Li YQ. Anterior Cingulate Cortex Mediates Hyperalgesia and Anxiety Induced by Chronic Pancreatitis in Rats. *Neurosci Bull* 2022, 38(4): 342–358.
 26. Wu YY, Zhang HL, Lu X, Du H, Li YC, Zhang PA, Xu GY. Targeting GATA1 and p2x7r Locus Binding in Spinal Astrocytes Suppresses Chronic Visceral Pain by Promoting DNA Demethylation. *Neurosci Bull* 2022, 38(4): 359–372.

27. Kim SA, Jang JH, Kim W, Lee PR, Kim YH, Vang H, Lee K, Oh SB. Mitochondrial Reactive Oxygen Species Elicit Acute and Chronic Itch *via* Transient Receptor Potential Canonical 3 Activation in Mice. *Neurosci Bull* 2022, 38(4): 373–385.
28. Cui X, Sun G, Cao H, Liu Q, Liu K, Wang S, Zhu B, Gao X. Referred Somatic Hyperalgesia Mediates Cardiac Regulation by the Activation of Sympathetic Nerves in a Rat Model of Myocardial Ischemia. *Neurosci Bull* 2022, 38(4): 386–402.
29. Zhai FJ, Han SP, Song TJ, Huo R, Lan XY, Zhang R, Han JS. Involvement of Opioid Peptides in the Analgesic Effect of Spinal Cord Stimulation in a Rat Model of Neuropathic Pain. *Neurosci Bull* 2022, 38(4): 403–416.
30. Song Y, Chu R, Cao F, Wang Y, Liu Y, Cao J, Guo Y, Mi W, Tong L. Dopaminergic Neurons in the Ventral Tegmental-Prelimbic Pathway Promote the Emergence of Rats from Sevoflurane Anesthesia. *Neurosci Bull* 2022, 38(4): 417–428.
31. Lei Y, Xie MX, Cao XY, Zhang X, Xiao YB, Tian XY, Zhu YX, Zhang XL. Parkin Inhibits Static Mechanical Pain by Suppressing Membrane Trafficking of Mechano-transducing Ion Channel TACAN. *Neurosci Bull* 2022, 38(4): 429–434.
32. Tong F, He Q, Du WJ, Yang H, Du D, Pu S, Han Q. Sympathetic Nerve Mediated Spinal Glia Activation Underlies Itch in a Cutaneous T-Cell Lymphoma Model. *Neurosci Bull* 2022, 38(4): 435–439.
33. Guo F, Du Y, Qu FH, Lin SD, Chen Z, Zhang SH. Dissecting the Neural Circuitry for Pain Modulation and Chronic Pain: Insights from Optogenetics. *Neurosci Bull* 2022, 38(4): 440–452.
34. Tan Z, Lin ZJ, Wu LJ, Zhou LJ. The Macrophage IL-23/IL-17A Pathway: A New Neuro-Immune Mechanism in Female Mechanical Pain. *Neurosci Bull* 2022, 38(4): 453–455.
35. Yan H, Mo G, Ha NT, Deng J. The Spinal-Parabrachial-Mesencephalic Circuit: A Possible

Explanation of How Pain Leads to Emotional Disorders. *Neurosci Bull* 2022, 38(4): 456–458.

36. Zhang Y, Li H, Zhang X, Wang S, Wang D, Wang J, Tong T, Zhang Z, Yang Q, Dong H. Estrogen Receptor-A in Medial Preoptic Area Contributes to Sex Difference of Mice in Response to Sevoflurane Anesthesia. *Neurosci Bull* 2022, 38(7): 703–719.
37. Gao SH, Tao Y, Zhu Y, Huang H, Shen LL, Gao CY. Activation of Dopamine D2 Receptors Alleviates Neuronal Hyperexcitability in the Lateral Entorhinal Cortex *via* Inhibition of HCN Current in a Rat Model of Chronic Inflammatory Pain. *Neurosci Bull* 2022, 38(9): 1041–1056.
38. Guo M, Wu Y, Zheng D, Chen L, Xiong B, Wu J, Li K, Wang L, Lin K, Zhang Z, Manyande A, Xu F, Wang J, Peng M. Preoperative Acute Sleep Deprivation Causes Postoperative Pain Hypersensitivity and Abnormal Cerebral Function. *Neurosci Bull* 2022, 38(12): 1491–1507.
39. Xue X, Wang Q, Huang Z, Wang Y. An Empathic Pain-Regulated Neural Circuit. *Neurosci Bull* 2022, 38(12): 1613–1616.

Physiology ^[1-1]

1. Zhang W, Li SS, Han Y, Xu XH. Sex Differences in Electrophysiological Properties of Mouse Medial Preoptic Area Neurons Revealed by *In Vitro* Whole-cell Recordings. *Neurosci Bull* 2021, 37(2): 166–182.

Purinergic Signaling^[1–3]

1. Wu YY, Zhang HL, Lu X, Du H, Li YC, Zhang PA, Xu GY. Targeting GATA1 and p2x7r Locus Binding in Spinal Astrocytes Suppresses Chronic Visceral Pain by Promoting DNA Demethylation. *Neurosci Bull* 2022, 38(4): 359–372.
2. Umpierre AD, Haruwaka K, Wu LJ. Getting a Sense of ATP in Real Time. *Neurosci Bull* 2022, 38(7): 834–836.
3. Xu MX, Zhao GL, Hu X, Zhou H, Li SY, Li F, Miao Y, Lei B, Wang Z. P2X7/P2X4 Receptors Mediate Proliferation and Migration of Retinal Microglia in Experimental Glaucoma in Mice. *Neurosci Bull* 2022, 38(8): 901–915.

Sensory Processing (Vision, Audition, Mechanosensation, and Thermosensation) ^[1–30]

1. Yu Q, Fu H, Wang G, Zhang J, Yan B. Short-term Visual Experience Leads to Potentiation of Spontaneous Activity in Mouse Superior Colliculus. *Neurosci Bull* 2021, 37(3): 353–368.
2. Huang W, Yan H, Wang C, Yang X, Li J, Zuo Z, Zhang J, Chen H. Deep Natural Image Reconstruction from Human Brain Activity Based on Conditional Progressively Growing Generative Adversarial Networks. *Neurosci Bull* 2021, 37(3): 369–379.
3. Li B, Li S, Yan Z. Axonemal Dynein DNAH5 is Required for Sound Sensation in *Drosophila* Larvae. *Neurosci Bull* 2021, 37(4): 523–534.
4. Liu N, Zhang H, Zhang X, Yang J, Weng X, Chen L. In Memory of Leslie G. Ungerleider. *Neurosci Bull* 2021, 37(4): 592–595.
5. Fan Y, Zou W, Liu J, Al-Sheikh U, Cheng H, Duan D, Du C, Liu S, Chen L, Xu J, Ruhomutally F, Kang L. Polymodal Functionality of *C. elegans* OLL Neurons in Mechanosensation and Thermosensation. *Neurosci Bull* 2021, 37(5): 611–622.
6. Xiong H, Lai L, Ye Y, Zheng Y. Glucose Protects Cochlear Hair Cells Against Oxidative Stress and Attenuates Noise-induced Hearing Loss in Mice. *Neurosci Bull* 2021, 37(5): 657–668.
7. Luan Y, Salvi R, Liu L, Lu C, Jiao Y, Tang T, Liu H, Teng GJ. High-frequency Noise-induced Hearing Loss Disrupts Functional Connectivity in Non-auditory Areas with Cognitive Disturbances. *Neurosci Bull* 2021, 37(5): 720–724.
8. Xu H, Geng C, Hua X, Liu P, Xu J, Li A. Distinct Characteristics of Odor-evoked Calcium and Electrophysiological Signals in Mitral/Tufted Cells in the Mouse Olfactory Bulb. *Neurosci Bull* 2021, 37(7): 959–972.
9. Chen Y, Ni Y, Zhou J, Zhou H, Zhong Q, Li X, Zhang J, Ma Y, Wei J. The Amygdala Responds Rapidly to Flashes Linked to Direct Retinal Innervation: A Flash-evoked Potential Study Across

Cortical and Subcortical Visual Pathways. *Neurosci Bull* 2021, 37(8): 1107–1118.

10. Yan X, Zhang S, Zhao H, Liu P, Huang H, Niu W, Wang W, Zhang C. ASIC2 Synergizes with TRPV1 in the Mechano-Electrical Transduction of Arterial Baroreceptors. *Neurosci Bull* 2021, 37(10): 1381–1396.
11. Fan S, Wang X, Wang X, Wei T, Bi Y. Topography of Visual Features in the Human Ventral Visual Pathway. *Neurosci Bull* 2021, 37(10): 1454–1468.
12. Shi J, Sun S, Wang Y, Huang Z. Reprogramming Restores Vision in Mice by Changing DNA Methylation. *Neurosci Bull* 2021, 37(10): 1526–1528.
13. Ren S, Shao H, He S. Interaction Between Conscious and Unconscious Information-Processing of Faces and Words. *Neurosci Bull* 2021, 37(11): 1583–1594.
14. Yu L, Huang D, Wang S, Wu X, Chen Y, Zhang Y. Evidence of Altered Cortical Processing of Dynamic Lexical Tone Pitch Contour in Chinese Children with Autism. *Neurosci Bull* 2021, 37(11): 1605–1608.
15. Wang C, Deng H, Kuang S. Restoring Vision Naturally and Noninvasively. *Neurosci Bull* 2021, 37(11): 1642–1644.
16. Luo Z, Zhang J, Qiao L, Lu F, Liu Z. Mapping Genome-wide Binding Sites of Prox1 in Mouse Cochlea Using the CUT&RUN Approach. *Neurosci Bull* 2021, 37(12): 1703–1707.
17. Ji RR, Lee SY. Molecular Sensors of Temperature, Pressure, and Pain with Special Focus on TRPV1, TRPM8, and PIEZO2 Ion Channels. *Neurosci Bull* 2021, 37(12): 1745–1749.
18. Fan T, Xiang MY, Zhou RQ, Li W, Wang LQ, Guan PF, Li GL, Wang YF, Li J. Effect of Sodium Salicylate on Calcium Currents and Exocytosis in Cochlear Inner Hair Cells: Implications for Tinnitus Generation. *Neurosci Bull* 2022, 38(1): 69–80.

19. Wang J, Zhao W, Zhao Q, Zhou J, Li X, He Y, Gong Z. *Drosophila* Larval Light-Avoidance is Negatively Regulated by Temperature Through Two Pairs of Central Brain Neurons. *Neurosci Bull* 2022, 38(2): 200–204.
20. Liu B, Wang X, Wang L, Qu Q, Zhang W, Wang B, Xiang J, Yan T, Yan T, Zhang H. Attention Field Size Alters Patterns of Population Receptive Fields in the Early Visual Cortex. *Neurosci Bull* 2022, 38(2): 205–208.
21. Liu J, Wang S, Lu Y, Wang H, Wang F, Qiu M, Xie Q, Han H, Hua Y. Aligned Organization of Synapses and Mitochondria in Auditory Hair Cells. *Neurosci Bull* 2022, 38(3): 235–248.
22. Hu Q, Hu W, Liu K, Bu X, Hu L, Li L, Chai X, Chen Y. Modulation of Spike Count Correlations Between Macaque Primary Visual Cortex Neurons by Difficulty of Attentional Task. *Neurosci Bull* 2022, 38(5): 489–504.
23. Zhang T, Ruan HZ, Wang YC, Shao YQ, Zhou W, Weng SJ, Zhong YM. Signaling Mechanism for Modulation by GLP-1 and Exendin-4 of GABA Receptors on Rat Retinal Ganglion Cells. *Neurosci Bull* 2022, 38(6): 622–636.
24. Li J, Liu S, Song C, Zhu T, Zhao Z, Sun W, Wang Y, Song L, Xiong W. Prestin-Mediated Frequency Selectivity Does not Cover Ultrahigh Frequencies in Mice. *Neurosci Bull* 2022, 38(7): 769–784.
25. Gong Y, Zhai Y, Du X, Song P, Xu H, Zhang Q, Yu X. Cross-Modal Interaction and Integration Through Stimulus-Specific Adaptation in the Thalamic Reticular Nucleus of Rats. *Neurosci Bull* 2022, 38(7): 785–795.
26. Wang CM, Green DP, Dong X. Transcription Factor MAFA Regulates Mechanical Sensation by Modulating Piezo2 Expression. *Neurosci Bull* 2022, 38(8): 933–937.
27. Qian KW, Li YY, Wu XH, Gong X, Liu AL, Chen WH, Yang Z, Cui LJ, Liu YF, Ma YY, Yu CX,

- Huang F, Wang Q, Zhou X, Qu J, Zhong YM, Yang XL, Weng SJ. Altered Retinal Dopamine Levels in a Melatonin-proficient Mouse Model of Form-deprivation Myopia. *Neurosci Bull* 2022, 38(9): 992–1006.
28. Xiao YJ, Wang L, Liu YZ, Chen J, Zhang H, Gao Y, He H, Zhao Z, Wang Z. Excitatory Crossmodal Input to a Widespread Population of Primary Sensory Cortical Neurons. *Neurosci Bull* 2022, 38(10): 1139–1152.
29. Tang B, Li K, Cheng Y, Zhang G, An P, Sun Y, Fang Y, Liu H, Shen Y, Zhang Y, Shan Y, de Villers-Sidani É, Zhou X. Developmental Exposure to Bisphenol A Degrades Auditory Cortical Processing in Rats. *Neurosci Bull* 2022, 38(11): 1292–1302.
30. Liu X, Huang H, Snutch TP, Cao P, Wang L, Wang F. The Superior Colliculus: Cell Types, Connectivity, and Behavior. *Neurosci Bull* 2022, 38(12): 1519–1540.

Sleep^[1–5]

1. Mir FA, Jha SK. Locus Coeruleus Acid-Sensing Ion Channels Modulate Sleep-Wakefulness and State Transition from NREM to REM Sleep in the Rat. *Neurosci Bull* 2021, 37(5): 684–700.
2. Aime M, Adamantidis AR. Sleep to Survive Predators. *Neurosci Bull* 2022, 38(9): 1114–1116.
3. Liu X, Yu H, Wang Y, Li S, Cheng C, Al-Nusaif M, Le W. Altered Motor Performance, Sleep EEG, and Parkinson's Disease Pathology Induced by Chronic Sleep Deprivation in *Lrrk2*^{G2019S} Mice. *Neurosci Bull* 2022, 38(10): 1170–1182.
4. Guo M, Wu Y, Zheng D, Chen L, Xiong B, Wu J, Li K, Wang L, Lin K, Zhang Z, Manyande A, Xu F, Wang J, Peng M. Preoperative Acute Sleep Deprivation Causes Postoperative Pain Hypersensitivity and Abnormal Cerebral Function. *Neurosci Bull* 2022, 38(12): 1491–1507.
5. Zhang C, Huang L, Xu M. Dopamine Control of REM Sleep and Cataplexy. *Neurosci Bull* 2022, 38(12): 1617–1619.

Spinal Cord Injury ^[1-2]

1. Cao L, Wang Y, Huang Z. Reversion of Injured Adult Neurons to an Embryonic State by Grafts of Neural Progenitor Cells After Spinal Cord Injury. *Neurosci Bull* 2021, 37(2): 271–274.
2. Zhao L, Gong L, Li P, Qin J, Xu L, Wei Q, Xie H, Mao S, Yu B, Gu X, Zhou S. miR-20a Promotes the Axon Regeneration of DRG Neurons by Targeting Nr4a3. *Neurosci Bull* 2021, 37(4): 569–574.

Stem Cell ^[1–1]

1. Yuan TF, Dong Y, Zhang L, Qi J, Yao C, Wang Y, Chai R, Liu Y, So KF. Neuromodulation-based Stem Cell Therapy in Brain Repair: Recent Advances and Future Perspectives. *Neurosci Bull* 2021, 37(5): 735–745.

Sympathetic Nervous System ^[1-2]

1. Cui X, Sun G, Cao H, Liu Q, Liu K, Wang S, Zhu B, Gao X. Referred Somatic Hyperalgesia Mediates Cardiac Regulation by the Activation of Sympathetic Nerves in a Rat Model of Myocardial Ischemia. *Neurosci Bull* 2022, 38(4): 386–402.
2. Tong F, He Q, Du WJ, Yang H, Du D, Pu S, Han Q. Sympathetic Nerve Mediated Spinal Glia Activation Underlies Itch in a Cutaneous T-Cell Lymphoma Model. *Neurosci Bull* 2022, 38(4): 435–439.

Techniques and Methods^[1–18]

1. Chen D, Cheng X, Yang X, Zhang Y, He Z, Wang Q, Yao G, Liu X, Zeng S, Chen J, Xiang H. Mapping the Brain-wide Cholinergic Neurons Projecting to Skeletal Muscle in Mice by High-throughput Light Sheet Tomography. *Neurosci Bull* 2021, 37(2): 267–270.
2. Yang H, Xiong F, Song YG, Jiang HF, Qin HB, Zhou J, Lu S, Grieco SF, Xu X, Zeng WB, Zhao F, Luo MH. HSV-1 H129-derived Anterograde Neural Circuit Tracers: Improvements, Production, and Applications. *Neurosci Bull* 2021, 37(5): 701–719.
3. Wu X, Zhang Q, Gong L, He M. Sequencing-based High-throughput Neuroanatomy: From Mapseq to Bricseq and Beyond. *Neurosci Bull* 2021, 37(5): 746–750.
4. Liu X, Hu L, Xu C, Xu S, Wang S, Chen Z, Shen J. An Automatic HFO Detection Method Combining Visual Inspection Features with Multi-Domain Features. *Neurosci Bull* 2021, 37(6): 777–788.
5. Liu Q, Yang X, Song R, Su J, Luo M, Zhong J, Wang L. An Infrared Touch System for Automatic Behavior Monitoring. *Neurosci Bull* 2021, 37(6): 815–830.
6. Wang Y, Li SY, Wang D, Wu MZ, He JK, Zhang JL, Zhao B, Hou LW, Wang JY, Wang L, Wang YF, Zhang Y, Zhang ZX, Rong PJ. Transcutaneous Auricular Vagus Nerve Stimulation: From Concept to Application. *Neurosci Bull* 2021, 37(6): 853–862.
7. Wang Y, Xu H, Zhang X. Breakthrough in Structural and Functional Dissection of the Hypothalamo-Neurohypophysial System. *Neurosci Bull* 2021, 37(7): 1087–1089.
8. Sun S, Shi J, Wang Y, Cheng J, Huang Z. A Temporal Precision Approach for Deep Transcranial Optogenetics with Non-invasive Surgery. *Neurosci Bull* 2021, 37(8): 1260–1263.
9. Wang F, Sun W, Chang L, Sun K, Hou L, Qian L, Jin C, Chen J, Pu J, Ye P, Qiu S, Luo J, Duan S, Zhang B, Gao Z, Hu X. cFos-ANAB: A cFos-based Web Tool for Exploring Activated Neurons

- and Associated Behaviors. *Neurosci Bull* 2021, 37(10): 1441–1453.
10. Zheng J, Tian Y, Xu H, Gu L, Xu H. A Standardized Protocol for the Induction of Specific Social Fear in Mice. *Neurosci Bull* 2021, 37(12): 1708–1712.
 11. Zhong G, Yang Z, Jiang T. Precise Modulation Strategies for Transcranial Magnetic Stimulation: Advances and Future Directions. *Neurosci Bull* 2021, 37(12): 1718–1734.
 12. Han Y, Huang K, Chen K, Pan H, Ju F, Long Y, Gao G, Wu R, Wang A, Wang L, Wei P. MouseVenue3D: A Markerless Three-Dimension Behavioral Tracking System for Matching Two-Photon Brain Imaging in Free-Moving Mice. *Neurosci Bull* 2022, 38(3): 303–317.
 13. Chen J, Li C, Lu Z, Zhan C. Optimal Timing of a Commonly-Used Rabies Virus for Neural Recording and Manipulation. *Neurosci Bull* 2022, 38(5): 548–552.
 14. Huang K, Yang Q, Han Y, Zhang Y, Wang Z, Wang L, Wei P. An Easily Compatible Eye-tracking System for Freely-moving Small Animals. *Neurosci Bull* 2022, 38(6): 661–676.
 15. He W, Tang H, Li J, Hou C, Shen X, Li C, Liu H, Yu W. Feature-based Quality Assessment of Middle Cerebral Artery Occlusion Using 18F-Fluorodeoxyglucose Positron Emission Tomography. *Neurosci Bull* 2022, 38(9): 1057–1068.
 16. Qiu L, Zhang B, Gao Z. Lighting Up Neural Circuits by Viral Tracing. *Neurosci Bull* 2022, 38(11): 1383–1396.
 17. Qin Y, Li S, Li XJ, Yang S. CRISPR-Based Genome-Editing Tools for Huntington's Disease Research and Therapy. *Neurosci Bull* 2022, 38(11): 1397–1408.
 18. Liu Q, Wu Y, Wang H, Jia F, Xu F. Viral Tools for Neural Circuit Tracing. *Neurosci Bull* 2022, 38(12): 1508–1518.