

1. Neurobiology		
P1-001	Fangqian Zhou	Effect of Low-Energy Gallium-Aluminum-Arsenide Laser on Optic Nerve Repair After Injury
P1-002	Yajie Wang	Treadmill exercise relieves cortical interneuron hyperactivation to prevent stress-induced anxiety like behaviors in male mice
P1-003	Kun Zhang	Decoding Neural Network Dynamics in Brain Slices: An Integrated Approach with High-Speed Imaging and Electrophysiology
P1-004	Zichang Gui	The Role of Astrocyte in the Effects of EMR Exposure and Exercise Intervention on Depressive Behaviors in Mice
P1-005	Yijing Zhao	Spatial Competition Between Heterotypic Tunneling Nanotubes Drives Mitochondrial Transfer Imbalance After Ischemic Stroke
P1-006	Yuyan Shi	Neuroimmunological mechanisms of inflammation regulation by glucagon-like peptide-1 receptor (GLP-1R) and its agonists.
P1-007	Xixin Bao	Effects of monoterpenoid diol (Protremine) and its active metabolite epoxydiol on MPTP-induced Parkinsonian-like behavioral deficits in zebrafish: assessment of motor symptoms and cognitive dysfunction
P1-008	Shenghao Wang	Transcriptomic Analysis of Laser-Induced Telencephalic Traumatic Brain Injury in Adult Zebrafish Reveals Time-Dependent Neuroinflammation, Programmed Cell Death, and Impaired Neurogenesis
P1-009	Siyang Zheng	Levo-Tetrahydropalmatine Alleviates Demyelination-Induced Neuropathic Pain via Modulating Glial Activation and Neuroinflammation
P1-010	Jiaqi Li	Hyperbaric Oxygen-Induced CNS Oxygen Toxicity Activates a DG-Sympathetic-Lung Circuit Driving Epilepsy and Acute Lung Injury
P1-011	Zhenyin Liu	A Control-Theory Framework for Dissociating Autonomic Output, Behavioral Policy, and Valence in Preoptic Opn5-Mediated Thermoregulation
P1-012	Chen Lou	TRPM2-CaMKII α axis serves as a brake for Parkin-dependent mitophagy
P1-013	Xiaoshuo Fan	The Role and Mechanisms of IL-19 and IL-20R α in the Insular Cortex in Regulating Methamphetamine Addictive Behaviors
P1-014	Diancun Xuan	Long-term Learning Induces Plastic Changes in Frontostriatal Circuits
P1-015	Yunze Liu	Hippocampal Neuronal Progranulin Maintains Autophagy-Dependent Resilience to Perimenopausal Mood Disorders
P1-016	Guochao Yang	Pen2 deficiency in cerebellar granule cells impairs Adcy8-cAMP-dependent Synaptic Transmission and causes SCA1-like ataxia
P1-017	Qing Li	Exercise-induced extracellular vesicles alleviate depression-like behaviors via activating glutamatergic neurons in the mPFC
P1-018	Qianting Xu	Dopaminergic Modulation of Inhibitory Synaptic Transmission in the Song Motor Pallial Nucleus RA of Songbirds
P1-019	Xin Lyu	Dopaminergic Modulation of Premotor Song Circuits in Adult Female Zebra Finches
P1-020	Bin Xiao	Dopamine D2 receptor signaling in the dentate gyrus maintains fear memory retrieval accuracy and limits generalization
P1-021	Zejie Lin	Neural mechanisms underlying the shift from fear extinction to renewal mediated by parvalbumin neurons in the lateral amygdala
P1-022	Yingao Yang	Design, Synthesis and Functional Evaluation of Acetamide Derivatives as α 7 Nicotinic Acetylcholine Receptor Agonist-Positive Allosteric Modulators for Improving Cognitive Impairment
P1-023	Yanru Li	Investigation of Astrocyte-Mediated GABAergic Inhibitory Synaptic Dysfunction Based on the P301S Alzheimer's Disease Mouse Model
P1-024	Yanghuizi Yang	Neuroprotective Effects and Mechanisms of Retigabine Oxidative Derivatives on Epilepsy and Associated Behavioral Deficits
P1-025	Yan Wang	Suppressed Mitophagy Mediates Aggravated Nigral Dopaminergic Damage Induced by Impaired GHSR Constitutive Activity

P1-026	Zhen Zhang	CXCL1 Induces Dopaminergic Neuron Degeneration in Parkinson's Disease via NF- κ B-Mediated Microglial Activation
P1-027	Lu Chen	CDK5-Induced HCN2 Channel Dysfunction in the Prelimbic Cortex Drives Allodynia and Anxiety-Like Behaviors in Neuropathic Pain
P1-028	Chengyan Yang	PPAR- γ mediates the antidepressant effects of Akebia saponin D by inhibiting NLRP3-mediated pyroptosis and remodeling microglial phenotype
P1-029	Yimeng Wang	Targeting blood-brain barrier functional remodeling in glioblastoma to enhance the efficacy of drug delivery
P1-030	Shizhuang Wei	The Role of Microglial Deubiquitinase OTUD3 in Neuroinflammation and Its Underlying Mechanisms
P1-031	Peiyao Liu	Loss of TRPM2 Sulfhydrylation Potentiates Tau Aggregation-Triggered Neural Injury in Alzheimer's Disease
P1-032	Zhicheng Tian	Targeting Microglial C1qb-Neuronal Sdc3 Signaling Prevents Synaptic Pathology and Affective Sequelae of Repetitive Mild Traumatic Brain Injury
P1-033	Qian Liu	Amygdala copes against stress via Cx43-mediated breakdown of inter-astrocytic coupling
P1-034	Xinxin Chen	Whole-brain input and output connectivity mapping of Brs3 neurons in the lateral parabrachial nucleus
P1-035	Chenglong Cui	Evidence of Disulfidoptosis in Alzheimer's Disease Models and Its Association with Neuronal Loss
P1-036	Jingxin Chang	NOVA1 Knockdown Reverses the Neuroprotective Effects of LincRNA-EPS in a Transgenic Mouse Model of Alzheimer's Disease
P1-037	Xuan Dong	Effects of endomorphin-2 on descending activating pathways to spinal motor neurons in rats and its receptor mechanism of action
P1-038	Ke Chen	Study on the Mechanism of Music Therapy Alleviating Postpartum Depression through Regulating GABA _A Receptors in Prefrontal Cortex
P1-039	Yixuan Li	Ejaculation-induced CCK signaling remodels the hypothalamic circuit to enable paternal care
P1-040	Xueyan Wang	5-HT ₃ Receptor-Dependent Nigro-Hippocampal Circuit Remodeling Mediates Exercise-Enhanced Cognition in Parkinson's Disease
P1-041	Jiangling Shi	Upregulation of NR4A3 induces glycolysis dysregulation leading to cognitive dysfunction in Alzheimer's disease mice
P1-042	Wenxuan Zeng	Mechanisms of Astrocytic Glutamine Synthetase-Mediated Glutamate Cycle Dysregulation in Neuromyelitis Optica Spectrum Disorders
P1-043	Yuhan Cheng	Neural mechanisms underlying estrogen regulation of alcohol use disorder-like behavior in female mice
P1-044	Siyu Wang	Multimodal Neural Activity Imaging with ASAP-X, an Optimized Sensor Featuring Boosted Subthreshold Responsivity
P1-045	Yuting Song	Role of the Medial Prefrontal Cortex – Lateral Part of the Mediodorsal Thalamic Nucleus Circuit in the Antidepressant Effects of Electroconvulsive Stimulation
P1-046	Xinyu Mao	Electroconvulsive Stimulation Exerts Rapid Antidepressant Effects by Restoring Microcircuit Excitation-Inhibition Balance via Prelimbic SST Interneurons
P1-047	Zhiyi Zhou	Schisandra Chinensis -Derived Extracellular Vesicles Inhibit Aluminum Maltolate-Induced Oxidative Stress and Inflammatory Responses
P1-048	Mingxuan Yang	Association Between Chronic Musculoskeletal Pain and Cognitive Impairment: A Systematic Review and Meta-analysis
P1-049	Huiyi Li	Neuroigin-3 Is Essential for Oligodendrocyte Maturation and Myelination during Early Postnatal Development
P1-050	Cuiying Wu	O-GlcNAcylation at CDKL5 S476 Promotes Dendritic Spine Maturation via a Phase-Separated Network

P1-051	Zhiyuan Li	Social memory engram formation impairment in neuroligin-3 R451C knock-in mice is caused by disrupted prefrontal NMDA receptor-dependent potentiation
P1-052	Yan Yu	Graded traumatic brain injury severity differentially modulates microglial and astrocytic polarization states and response to minocycline
P1-053	Feifei Wang	Distinct projections of PVN oxytocin neurons regulate the divergent defensive behaviors in response to social threat
P1-054	Mingming Wang	Disrupted Mitochondrial Dynamics and Lipid Homeostasis in Parkinson's Disease: From Mechanism to Therapeutic Potential
P1-055	Tongtong Yao	Kynam Agarwood Inhalation Restores Redox–Immune–Synaptic Homeostasis and Behavior in NMDAR Hypofunction Schizophrenia
P1-056	Xiaoxuan Huang	Illuminating Psychoactive Drug Dynamics with GRAB-Psilo+
P1-057	Jiabo Sun	MrgprD-Mediated Pain and Itch: Cell Size-Dependent Encoding by Polymodal Nociceptors
P1-058	Ziyan Ji	Mechanistic Study on Pseudolaric Acid B-Linked Double-Network Hydrogel for Alleviating Staphylococcus aureus-Induced Pruritus
P1-059	Xinyi Jing	Quantitative acetylcholine detection with a novel chemigenetic lifetime-based sensor
P1-060	Yuan Zheng	Neuromedin U Receptor 2 Modulates Climbing Fiber–Purkinje Cell Synaptic Transmission Through Presynaptic PKA Signaling Cascades in Mouse Cerebellar Slices
P1-061	Mengchao Liu	Hypothalamus–Hippocampus Orexinergic Circuit Regulates Seizure Susceptibility Following Sleep Deprivation
P1-062	Pengfei Ren	A corticostriatal circuit mediates the switching of defensive responses to an approaching threat
P1-063	Xueyuan Zhang	Locus Coeruleus – Arcuate Nucleus Pathway May Be Involved in Feeding Alterations of Model Rats with Chronic Sleep Deprivation
P1-064	Qian Zhao	Loss of CB1R in Hippocampal Inhibitory Neurons Impairs Mediated Associative Memory in Early-stage Alzheimer's Disease
P1-065	Ningyang Wu	Slc1a3 mediated coupling of catabolism and phagocytosis in cerebral ischemia–reperfusion injury
P1-066	Huanbin Sun	Rapid neural plasticity of septo-hippocampal cholinergic pathway supports temporal associative learning
P1-067	Ziqing Yao	Sleep reactivation of positive self-evaluation reveals neural-evaluative alignment that vary with depressive symptoms
P1-068	Jiayue Hu	A general strategy to develop ultrasensitive fluorescence lifetime-based sensors for protein kinases
P1-069	Yongshun Guo	A small molecule suppresses reactive astrocyte activity via TNFR2 adaptor-switching
P1-070	Zhao Zhang	Vertical Sleeve Gastrectomy Remodels Food Reward and Macronutrient Preference through the Stomach–NG–NTS–VTA Neural Circuit
P1-071	Yiting Yang	Myricetin Attenuates Ischemic Stroke Injury Through the miR-132/HDAC3/cGAS-STING Axis
P1-072	Liulv Fang	Cell-type-specific impairment in the vCA1-mPFC circuit underlies spatial memory deficits in Alzheimer's disease model mice
P1-073	Jiatong Li	Medial prefrontal cortex parvalbumin interneurons mediate psychiatric-like behaviors induced by adolescent social isolation in mice
P1-074	Jinghan Zhang	Development and Application of Recombinase-based Genetic Switches
P1-075	Jingran Lin	Activity-gated pyroptosis paces inhibitory circuit development
P1-076	Wanqi Chen	The Mechanism of Brainstem NPY/NTS Neurons in Feeding and Energy Homeostasis
P1-077	Yiwen Hou	Deciphering a brain-to-spleen neural circuitry for the prevention of acute graft-versus-host disease
P1-078	Yuqi Zhang	Sleep reactivation shapes memories of event and its temporal structure

P1-079	Yun Xu	Brainstem Neuronal Circuit Orchestrates Inflammation-Induced Sleep Remodeling and Systemic Immune Homeostasis
P1-080	Jinglai Wu	A neuro-metabolic circuit enhances binge-eating induced acute pancreatitis in obese mice
P1-081	Dongjun Wang	Distinct α -Synuclein Ser129 States Differentially Shape Phenotypic Evolution and Parkinson's Disease-associated Vulnerability in Juvenile Mice
P1-082	Yanan Sun	The synaptic plasticity for the longitudinal CA3-CA1 circuit in context-dependent memory formation
P1-083	Mingyue Wei	Low-Intensity Focused Ultrasound Targeting the Lateral Habenula Alleviates Depression-Like Behaviors in CUMS Mice
P1-084	Kexing Lu	Neural mechanisms of the anterior cingulate cortex in temporal dynamics of fear generalization
P1-085	Wanjun Cao	Microglial activation state governs bidirectional mitochondrial transfer with neurons
P1-086	Yingwen Lu	Modulating Energy-Defense Valence by Paraventricular Calcitonin Receptor-Expressing Neurons
P1-087	Weiyang Wu	AVP Neuron Orchestrates Vascular and Immune Homeostasis at the Neurohaemal Interface of the Neurohypophysis
P1-088	Ting Zhong	Therapeutic Efficacy and Mechanisms of the Gastrodia elata-Salvia miltiorrhiza Herb Pair in Ameliorating Migraine
P1-089	Xiao Chen	Stress induces behavioral disorders by promoting microglial phagocytosis via decreasing neuronal Dkk3
P1-090	Kun Li	Isoliquiritigenin inhibits ERK1/2-dependent neuroinflammation in Alzheimer's disease by stabilizing the Dusp1/6 phosphatase complex
P1-091	Zhenxin Zhao	Geum japonicum extract mitigates cerebral ischemia-reperfusion injury in mice via governing HK2-driven glycolytic metabolism
P1-092	Xibo Zuo	Memory Suppression Training Improves Sleep Qualities and Mental Health Outcomes
P1-093	Yuanpeng Jian	Electrophysiological Dynamic of Working Memory Updating and Maintenance in Parkinson's Disease
P1-094	Pengfei Che	A high-performance red-shifted GRAB-NE sensor for multiplexed imaging of norepinephrine dynamics in vivo
P1-095	Zhixuan Wang	FDX1-Mediated cuproptosis Contributes to the Pathogenesis of Neonatal Hypoxic-Ischemic Encephalopathy
P1-096	Qi Chen	Impaired hippocampal GABA oscillation underlies learning and social inflexibility
P1-097	Tianqi Yang	Astrocytic mGluR5-dependent calcium hyperactivity promotes amyloid- β pathology and cognitive impairment
P1-098	Shao Li	The Role and Mechanisms of Nav1.6 in Cognitive Impairment Associated with Neurological Disorders
P1-099	Chun Yuan	Interaction of PDI and ER stress in neuroendocrine disorders of PCOS rat models
P1-100	Jieyu Qi	Gene Therapy for Deafness: From Basics to Clinical Practice
P1-101	Wei Cai	Hyperactivated subthalamic nucleus 5-HT2CR ⁺ neurons mediate cold-related thermoregulatory dysfunction in Parkinson's disease
P1-102	Hongjie Yuan	Disease-associated NMDAR GRIN variants: synaptic deficits, behavioral phenotypes, and targeted therapy
P1-103	Junwu Wang	SMYD3 Controls Neuropathic Pain and Promotes Opioid Antinociception via maintaining KCNQ2 and μ -opioid Receptor Expression
P1-104	Xiaoting Dang	FAC-induced ferroptosis: association with other programmed cell death pathways in astrocyte-like cells
P1-105	Sha Li	Macelignan attenuates LPS-induced hippocampal memory impairment by suppressing HMGB1/TLR4/NLRP3-mediated microglial pyroptosis

P1-106	Yuhan Me	Dicoumarol attenuates neurogenic hypertension by targeting glial SWELL1-mediated ATP release in the paraventricular nucleus
P1-107	Jie Gao	ACC mGluR7 Modulates Pain-Related Affective Behaviors in a Rat Model of CFA-Induced Inflammatory Pain
P1-108	Anqi Lyu	Investigating the Mechanism by Which SorCS3 Regulates Homeostasis of the TrkB/p75NTR Signaling Pathway in the Hippocampus under Depressive Conditions
P1-109	Xiaojia Liu	Lycopene Improves Social Disorders in CSDS Model Rats Through the cAMP-PKA-CREB-BDNF Signaling Pathway
P1-110	Qian Wang	An Unconventional Bottom-Up Pathway Modulates Orientation Tuning in Primary Visual Cortex via Top-Down Circuits
P1-111	Yongjia Sun	AAV-delivered multicopy suppressor tRNA restores visual function in a Leber Congenital Amaurosis mouse model
P1-112	Anan Ping	Large-scale coordination of the thalamic-cortical network during non-REM sleep in human
P1-113	Yang Yu	Stress resilience regulates visceral pain via a cortico-cortical circuit
P1-114	Heng Yang	Central Amygdala-Substantia Nigra Neural Pathway Regulates Neural Oscillations Induced by Sleep Deprivation
P1-115	Junyi Chen	Complement-Dependent Microglial Synapse Elimination Drives Cerebellar Dysfunction in Anti-GluK2 Autoimmune Encephalitis
P1-116	Jianlan Wang	Effects of prednisone on behaviors and electrophysiological activity of the infralimbic cortex-median raphe nucleus in lipopolysaccharide-induced depressive rats
P1-117	Junyang Chen	Spatial Transcriptomics Reveals the Mechanisms Underlying Cortical Expansion and Gyrification
P1-118	Yuanxin Li	BCL11A is Essential for Purkinje Cell Development and Cerebellar-Dependent Behaviors
P1-119	Enwei Ji	Dyregulation of Fatty Acid Metabolism and Ketone Body Insufficiency Contributes to the Development of Mild Cognitive Impairment in Parkinson's Disease
P1-120	Wuyan Yang	Enteric neuron-derived CSF1 triggered by inflammation drives smooth muscle cell identity switching to macrophage in ulcerative colitis
P1-121	Ming Zhang	CSDE1 Regulates Myelination and Depression-Like Behaviors in mice
P1-122	Erling Hu	β -hydroxybutyrate Restores Social Deficits by Suppressing HDAC9 in the ACC of Shank3B-deficient Mice
P1-123	Haiying Liu	Cerebellar Purkinje cell dysfunction contributes to gait impairments in Shank3-mutant mice
P1-124	Xiao Li	Genistein-3'-sodium sulfonate alleviate CCH damage by regulating microglia polarization through correcting its glucose metabolism reprogramming
P1-125	Xinyi Wang	Effect of post-weaning isolation on anxiety-and depressive-like behaviors of C57BL/6J mice
P1-126	Haiqian Zhou	Grin1 mRNA acetylation regulates neuronal excitotoxicity in Alzheimer's disease
P1-127	Yaze Duan	KCNT1 Gene Variant-Associated Epilepsy: Genetic Insights, Functional Mechanisms and Emerging Therapies
P1-128	Zongyi Xu	Mechanisms of lateral habenula deep brain stimulation in alleviating depressive-like behavior
P1-129	Zhizhi Zhao	Chemogenetic activation of locus coeruleus noradrenergic afferents promotes CF-PC LTD through the presynaptic α_2 A-AR/CDK5/PKA signaling pathway in vitro in mice
P1-130	Lingxiang Xu	Crocetin alleviates diabetic neuropathic pain by suppressing P2Y12R-mediated neuron-macrophage crosstalk in rat dorsal root ganglia

P1-131	Ziyi Yao	The role and mechanism of TRPV1 in the dorsal root ganglion in the alleviation of sciatic nerve pain by Schwann cell exosomes
P1-132	Jing Huang	Anterior Cingulate Cortex Astrocytes Regulate Chronic Itch and Comorbid Negative Emotional Disorders in Mice
P1-133	Dewei he	HCA2 activation confers neuroprotection in Parkinson's disease models by suppressing oxidative stress and ferroptosis via the Nrf2/MGST1/GPX4 pathway
P1-134	Xiyu Gao	The GPR35-CK I-Hspb2 Signaling Axis Orchestrates Autophagic Clearance of α -Synuclein to Alleviate Parkinson's Disease Pathology
P1-135	Jinwei Xu	Diverse Neuronal Activity in Barrel Cortex During Self-Grooming and Whisking in Mice
P1-136	Shu Chen	Neuronal GABA – gut neuropeptide NLP-40 axis maintains intestinal innate immunity to antagonize protein aggregation in <i>C. elegans</i>
P1-137	Jingkun Yu	Aberrant alternative-splicing of KCNQ2 impairs neuronal excitability and triggers motor-neuron loss in ALS model mice
P1-139	Wei Lin	A cortico-hypothalamic circuit mediates maternal care impairment
P1-140	Qijing Lei	Choline transporters are required for oligodendrocyte differentiation and myelin sheath formation in postnatal brains
P1-141	Siyan Tang	Endothelial-specific ACKR1 overexpression attenuates macrophage infiltration and blood–brain barrier disruption after ischemic stroke
P1-142	Yarong Wang	A Paclitaxel derivative as a potential drug candidate for ASD-associated social deficits
P1-143	Wanying Shao	DEAF1 in Neurodevelopmental Disorders: From Molecular Mechanisms to Pathophysiology
P1-144	Xiangzhen Tong	Astrocytic CB1 receptor regulates Ca ²⁺ -dependent ATP release and autistic- and depressive-like behaviors in <i>Ip3r2</i> -deficient mice
P1-145	Gui He	Study on Inhibition of Pyroptosis of Brain Microvascular Endothelial Cell by IL-33 in Cerebral Small Vessel Disease
P1-146	Zhenlian Zhang	Chronic Sleep Deprivation Time-Dependently Downregulates Serum NPTX2 Levels, Which Correlate with Cognitive Impairment and Hippocampal NPTX2 Expression
P1-147	Zhang Juan	Targeting a Cell-Type-Specific Ets2 Pathway Reverses Fear Extinction Inflexibility
P1-148	Yebei Zhong	Electroacupuncture orchestrates a neuron-microglia bidirectional circuit via the α 7nAChR/Netrin-1/UNC5A axis to effectively alleviate neuropathic pain
P1-149	Fangyi Jia	SOCS3 Methylation Regulates the OGD/R-induced Inflammatory Response in BV-2 Cells via the JAK2/STAT3 Signaling Pathway
P1-150	Runjiao Zhang	The Mechanisms of Hippocampal CA3 Circuits in Memory Pattern Completion
P1-151	Wang Sule	The chemerin protein encoded by <i>Rarres2</i> in hypothalamic tanycytes regulated mechanism of energy metabolism balance
P1-152	Yifan Lu	A High-Precision Whole-Brain 3D Atlas of GABAergic Neurons: Sex Difference Analysis Based on fMOST/SHIELD and Association with Neuropsychiatric Disorders
P1-153	Dingding Yang	Mapping the whole-brain landscape of Shank3 ^{-/-} mice from MRI to synaptic resolution
P1-154	Zijun Zhu	<i>Sedum lineare</i> Thunb alleviates CFA-induced chronic inflammatory pain via microglial α 7nAChR/IL-10/ β -endorphin anti-inflammatory signaling cascade
P1-155	Hongtao Wang	Association Between Retinal Microvascular Abnormalities and Cognitive Impairment: A Multicenter Study in China
P1-156	Xianzhe Tang	Tellurium nanowire retinal nanoprostheses improves visual function in blind mice and monkey

P1-157	Wenqi Bi	Neural mechanisms of H ⁺ signaling in regulating chronic pain in anterior cingulate cortex
P1-158	Leying Wang	Hypothalamic GPR101-G13 Signaling Gates Anticipatory Meal Termination
P1-159	Zongming Chen	Anterior zona incerta to ventral tegmental area circuit controls compulsive eating in a binge eating disorder mice model
2. Endocrine Metabolism		
P2-01	Wanzhen Su	Design, synthesis and antidiabetic biological evaluation of coumarin derivatives targeting TXNIP
P2-02	Yarui Zhang	Effects of Aerobic Exercise and Vitamin D Supplementation on Hepatic Inflammation in Vitamin D-Deficient Mice
P2-03	Qinhan Fang	Exercise Preconditioning Restores Myocardial Iron Metabolism and Inhibits Ferroptosis in Ischemia-Reperfusion Injury via Regulation of HO-1 Protein Homeostasis
P2-04	Yingxuan Lin	Artesunate ameliorates cognitive dysfunction in diabetic mice by regulating mitochondrial dynamics homeostasis
P2-05	Yuetong Li	Progerin-induced endothelial cell senescence and dysfunction: pathological mechanisms and therapeutic intervention
P2-06	Yuzhe Huang	Hypothalamic malate dehydrogenase 2 (MDH2) modulates systemic glucose metabolism through oxytocin-mediated thermogenesis
P2-07	Zhongwei Sun	Skeletal Muscle Remodeling Drives β -cell Reversal in Early T2DM: A Factorial Analysis of Ginsenoside Rb1, Resistance Training, and Diet
P2-08	Yingga Wu	Central Neural Mechanisms Underlying the Sensing of Different Nutrients
P2-09	Yajing Li	Mechanism of Electroacupuncture at “Zusanli” (ST36) in Restoring Blood Glucose Homeostasis in Prediabetes Mice
P2-10	Jian Wei	The gastrointestinal peptide secretin regulates blood glucose homeostasis via a cerebroventricular tanyocyte-hypothalamic axis
P2-11	Aiyun Li	TXNIP promotes hepatic gluconeogenesis via regulation of glucose-fatty acid cycle
P2-12	Tingyu Wang	A flow-sensitive DUSP5-INO80 signaling axis governs chromatin remodeling and endothelial inflammation in atherosclerosis
P2-13	Li Liu	Hepatic I κ B ζ promotes alcohol-associated liver disease and acute hepatitis by enhancing CXCL1-Mediated neutrophil infiltration
P2-14	Hanhui Yan	Development of an Evidence-Based Longitudinal Phenotyping Framework for Metabolic Intervention Studies in APP/PS1 Mice
P2-15	Yizhi Zhang	Role of adipocyte TRPV4 in maintaining mouse energy homeostasis
P2-16	Yuan Chu	Endothelial TRPV4 mitigates obesity-induced metabolic dysfunction via Ca ²⁺ -dependent eNOS phosphorylation
3. Applied Physiology		
P3-01	Hui Chen	Epidemiological Characteristics and Influencing Factors of Essential Hypertension among Native Xizang Residents at Different Altitudes
P3-02	Yuli Xie	The Role of the Medial Septum–Basolateral Amygdala Dopaminergic Pathway in Behavioral Regulation in a Mouse Model of Post-Traumatic Stress Disorder
P3-03	Ye Bai	Mechanisms Underlying the Protective Effect of Cyp1a Against Decompression illness-Induced Acute Lung Injury
P3-04	Zongkai Du	Istradefylline prevents Central Nervous System Oxygen Toxicity
P3-05	Shiyun Song	The Role of CORO1C in Pathological Cardiac Hypertrophy and Underlying Mechanisms
P3-06	Huiping Wang	Ferroptosis Mediates Decompression Illness-Induced Lung Injury via the CYP1A1/SLC7A11 Regulatory Axis
P3-07	Shiying Liu	Monitoring and Evaluation of Overwintering Syndrome in the Zhongshan Station Overwintering Team of the 40th Chinese Antarctic Expedition
P3-08	Liping Wang	Construction of a Hypoxia Susceptibility Screening Model for Preselected Candidates of the Chinese Antarctic Kunlun Station Expedition

P3-09	Jigang Wen	Association Between Sleep and Gut Microbiota Changes in Chinese Expeditioners Under the Combined Hypoxic and Cold Environment at Antarctic Dome A
P3-10	Chengbo Wang	Targeting Human Oxygen-Sensing Pathways with Small-Molecule Modulators
P3-11	Yidan Zheng	AW126, a phenylpropanoid and sesquiterpene derived from <i>Ferula sinkiangensis</i> , inhibits pancreatic cancer by suppressing TGF β 2
P3-12	Tingyun Yin	Effects of exercise on depression and anxiety in people with coronary heart disease: a systematic review and meta-analysis of randomized controlled trials
P3-13	Lixuan Li	A Prospective Cohort Study on Plasma Cytokine Signatures for Predicting Postherpetic Neuralgia
P3-14	Mengyang Wang	Effects of Adipose-Derived Sema4D on Atherosclerosis via the Plexin-B1/ERBB2/STAT3 Signaling Pathway
P3-15	Chen Chen	Eosinophil and eosinophil-derived novel leukocyte ratios are strong predictors of the severity of acute coronary syndrome patients
P3-16	Chen Xuemei	Dural Effects of Hsp90 Inhibition on VDAC1 and Cell Death
P3-17	Tao Liu	Gypenosides-Ginseng-Astragalu Lozenge Improves Cognitive Function in Chronic Hypobaric Hypoxia through Systemic Metabolic Reprogramming: A Self-Controlled clinical trial
P3-18	Xiangpei Yue	Microglia functions in peripheral inflammation-exacerbated cerebral inflammation under hypoxia in a CCL5-dependent manner
P3-19	Yuejiao Hou	Intervention targeting Hyperuricemia in Hypobaric Hypoxic workers
P3-20	Yan Jiang	Altitude and Duration of Residence Determine Selective Cognitive Impairment in Hypobaric Hypoxia
P3-21	Haowei Deng	Emotion-Dependent Brain-Heart Coupling through EEG Microstate Transition Syntax
P3-22	Xingyao Yu	The role of the locus coeruleus in the decline of alertness-attention function in mice following acute high-altitude hypoxic exposure
P3-23	Maouzhu Ni	Impact of Normal-Weight Obesity on Physical Fitness Adaptation among Migrant University Students at High Altitude
P3-24	Jia Li	Normobaric Hypoxia Alters the Skeletal Muscle Transcriptomic Response to Acute High-Intensity Interval Exercise in Healthy Young Men
P3-25	Weili Qiao	Role of Macitentan in Alleviating Vascular Remodeling of Pulmonary Arterial Hypertension by Suppressing Oxidative Stress
P3-26	Huajun Xiao	Innovative research and practice of applied physiology in aviation, aerospace, navigation, polar and plateau special environment
P3-27	Wen Fu	Aerobic Exercise Alleviates ER Stress-induced Metabolic Disorders by Inhibiting Hypothalamic PERK Activation via Irisin
P3-28	Laikang Yu	The relationship between physical activity and mobile phone addiction in college students: a systematic review and meta-analysis
P3-29	Xiaowang Lv	LipReg4 deletion blocks hypertension induced by gut <i>S. aureofaciens</i> Tü 117
P3-30	Songyang Zheng	Astrocytic CHL1 Deletion Alleviates Depressive-Like Behaviors via Suppression of Memory Astrocyte-Mediated Neuroinflammation
P3-31	Miaomiao Fu	ALKBH5 Knockout Suppresses Brown Adipose Tissue-derived IL-6 Secretion by Inhibiting β -adrenergic Signaling in Mice with High-altitude Cerebral Edema
P3-32	Hongqi Wang	Protective Effects of Anodal tDCS over the Dorsolateral Prefrontal Cortex on Working Memory under Acute Hypoxia
4. Traditional Chinese Medical Physiology		
P4-01	Chong Li	Objective Physiological Characterization of the Qi Deficiency–Blood Stasis Pattern in Depression

P4-02	Junyao Zhang	Panax notoginseng saponins regulate mitophagy against myocardial ischemia-reperfusion injury via PINK1/Parkin pathway
P4-03	Ying Xu	Notoginsenoside R1 attenuates myocardial ischemia-reperfusion injury via directly targeting S100A8/A9 to coordinate inflammatory response and mitochondrial function
P4-04	Wei Liu	Deep exploration of Yin and Yang properties in pro-inflammation/anti-inflammation and oxidation/anti-oxidation in central nervous system
P4-05	Yu Feng	New hypothesis on the structural biological basis of the five meridian points in children mast cells and glomus body
P4-06	Yifeng Wang	Intensity-dependent Bidirectional Regulation of Distal Colonic Motility by Electroacupuncture at ST25 Through Distinct Autonomic Pathways
P4-07	Chunping Huang	Celastrol and epigallocatechin synergistically exert antitumor effects by targeting the “autophagy–lysosome–ROS” axis
P4-08	Wenchao Tang	Astragalus Polysaccharides Attenuate Cantharidin-Induced Hepatotoxicity via Suppression of Neutrophil-Derived S100A8/A9 and TLR4/NF-κB Signaling
P4-09	Bei Zhang	Peripheral Mechanisms of Acupuncture Analgesia and Neurorestorative Effects Mediated by Piezo1 in Acupoint Muscles
P4-10	Yaxing Zhang	Hydrogen gas (H ₂) delivered via intraperitoneal injection protects against pressure overload-induced cardiac remodeling in rats by inhibiting MAPKs and NF-κB signaling
P4-11	Lili Wang	Electroacupuncture Confers Cardioprotection in Myocardial Ischemia: Disease Stage-Dependent Activation of Vagal Circuits Restores Autonomic Balance
P4-12	Jianjun Zhang	Huang-Qi Attenuates Alcohol Seeking Behavior in Rats by Modulating Ghrelin Signaling in the Medial Prefrontal Cortex
P4-13	Songyang Li	Study on Osthole and Sorafenib Combination-Induced Ferroptosis in Hepatocellular Carcinoma Cells via the MAPK14/SLC7A11/GPX4 Axis
P4-14	Yunpeng Li	Mechanisms of α-Synuclein Propagation in the Gut-Brain Axis and Neural Modulation Technologies Application
P4-16	Tingting Liu	Identification of EZH2 as a direct target of Cinobufagin against breast cancer using organoid-based chemical biology strategy
5. Comparative Physiology		
P5-01	Yandong Xu	Hypoxia-induced Silencing of L1 Retrotransposons Licenses Malignancy in Solid Tumors
P5-02	Linjuan Wang	A telomere-to-telomere genome reveals arachidonic acid as a key regulator of hepatic lipid metabolism during hibernation
P5-03	Huiqi Lin	Convergent Cancer Resistance in Subterranean Mammals: Dissecting Shared and Species-Specific Mechanisms of Tumor Suppression
P5-04	Liangqin Sun	Study on the regulation mechanism of transcription activity and hypoxia adaptation by clock poly-q length variation in plateau zokor
P5-05	Zheng Yang	Exploration of Anji white tea's superiority over green tea in anti liver cancer research
6. Locomotion		
P6-01	Xinda Wei	Effects of different exercise types on visceral adiposity and plasma glucose in adults with stage 1 of Cardiovascular-Kidney-Metabolic (CKM) syndrome: a systematic review and network meta-analysis of randomized controlled trials
P6-02	Liya Xu	Improving between-subject comparability of wearable muscle oxygen saturation during graded treadmill running: accounting for adipose tissue thickness with site-specific mixed-effects models
P6-03	Yuchen Zou	Study on the Role of Sestrin2-TBK1 signaling in Exercise Ameliorating Sarcopenia

P6-04	Qiang Fu	Research Progress on the Neural Mechanisms and Effect Evaluation of Exercise in Improving Cognitive Function in Depression
P6-05	Na Zhao	Protective Microglial Responses to Treadmill Exercise in an Alzheimer's Disease Mouse Model Revealed by Single-Nucleus RNA Sequencing
P6-06	Huizi Yin	Exercise-Mediated Modulation of β 3-Adrenergic Receptor Sensitivity in Obesity-Related Metabolic Dysfunction: Molecular Mechanisms and Therapeutic Implications
P6-07	Manda Wang	Artificial Light at Night Induces Central–Skeletal Muscle Circadian Desynchronization and Impairs Mitochondrial Function and Aerobic Capacity in Rats
P6-08	Lingxia LI	Effects of supervised exercise during pregnancy on gestational diabetes mellitus and other adverse pregnancy outcomes: A systematic review and meta-analysis
P6-09	Mingyue Zhu	Aerobic Exercise Enhances Glucose and Lipid Metabolism by Inhibiting HDAC Activity and Promoting Acetylation of the Metabolic Enzyme IDH1 in Skeletal
P6-10	Jiajie Jia	Effects and Mechanisms of Muscle-Derived Exosomes on Myogenic Differentiation under Disuse Conditions
P6-11	Zhuying Chen	Effects of High-Volume vs. Low-Volume High-Intensity Interval Training on Metabolic Health in Young Women with Overweight/Obesity: A Randomized Controlled Trial
P6-12	Chenyuan Song	The Effect of Lifestyle Interventions on Depressive Symptoms in Depressed and High-Risk Depressed Adolescents: A Systematic Review and Meta Analysis
P6-13	Ran Liu	Default Mode Network and Executive Control Network Mediate Exercise-Enhanced Executive Function in Older Adults
P6-14	Fanxi Meng	Exercise Modality–Dependent Effects of SGLT2 Inhibition on Myocardial Mitochondrial Biogenesis and Telomere Homeostasis in Type 2 Diabetic Rats
P6-15	Zemei Liu	Long-Term Exercise Adaptation in Skeletal Muscle Shows Microtubule and Inflammatory Signatures Opposing MDD Hippocampal Profiles
P6-16	Dawei Liu	Optimizing Knee Brace Duration Supports Accelerated Rehabilitation After Anterior Cruciate Ligament Reconstruction: A Prospective Randomized Controlled Trial
P6-17	Zuyi Wang	Restoring Marathon-Level Locomotion After Grade IV Patellofemoral Cartilage Injury and Early Knee Osteoarthritis
P6-18	Xinqi Shi	Core Stability, Muscle Balance, and Landing Mechanics as Injury Predictors in Elite Gymnasts
P6-19	Jiawei Liu	Regular exercise attenuates blue light-induced lifespan shortening in drosophila via the Nrf2/xCT/GPX4 pathway inhibition of ferroptosis.
P6-20	Huiying Chen	Aerobic Exercise Counteracts HIF1A-Induced Oxidative Impairment While Preserving Glycolytic Benefits in Obese Skeletal Muscle
P6-21	Yiwei Cao	Untargeted Metabolomics Uncovers the Link of Improved Glycemia and Caffeine Metabolism via Aerobic Exercise in Liver-Specific Sirt1 Knockout Pre-Diabetic Mice
P6-22	Qijun Weng	Exercise-Regulated Regulatory T Cell Responses in Immune Homeostasis: Mechanisms and Perspectives
P6-23	Ziyan Zhou	Effect of different intensities of fragmented exercise on the aerobic capacity and mitochondrial number of ordinary male college students
P6-24	Zihan Ren	Treadmill exercise ameliorates comorbid neuropathic pain and depression by restoring glutamatergic neuronal excitability in the ventral hippocampal CA1
P6-25	Tianyuan Wang	Aerobic Exercise Selectively Remodels HIF-1 α -Driven Metabolism in Obese Skeletal Muscle

P6-26	Ye Liu	Complex Human Motion Capture through Multidimensional Strain Analysis on the Skin Surface
P6-27	Weilin Zhao	Exercise Ameliorates Motor Dysfunction in PD Mice via Regulating Mitochondrial Fusion and Fission
7. Respiration		
P7-01	Jing Chen	Activating Magnesium-Induced UBXN1 Phase Separation Protects Against Pulmonary Arterial Hypertension.
P7-02	Lingna Wu	Spatio-Temporal Functional Mapping Reveals Stage-Dependent Mechanosensitive Shifts in Pulmonary Fibrosis
P7-03	Anlan Wang	ZNF335–PRODH Axis Reverses Irreversible Pulmonary Fibrosis by Activating Proline Degradation
P7-04	Xiang Li	Role of Lung Endothelial Cell Senescence in Pulmonary Arterial Hypertension
P7-05	Yaping Liu	Untimely Mobilization of Immature CCNB2+MS4A3+Monocytes Promote Acute Lung Injury
P7-06	Xi Yan	Enteric Capsules of Eucalyptol, Limonene, and Pinene Mitigate Acrolein-Induced Airway Mucus Hypersecretion by Regulating PKG–Hippo–YAP Signaling Pathway
P7-07	Di Wang	Chronic Intermittent Hypoxia Induces Cardiomyocyte DNA Damage and Exacerbates Doxorubicin-Induced Cardiotoxicity
P7-08	Qingqing Huang	Chronic Intermittent Hypoxia Promotes LLC Tumor Growth, Fibroblast Activation and Angiogenesis with Bidirectional Paracrine Effect In Vitro
P7-09	Chenyu Song	Calycosin Attenuates CIH-Induced Myocardial Injury Associated with Enhanced Nrf2-Related Antioxidant Signaling
P7-10	Mengrui Chen	Krippel like factor 14 protects against acute lung injury by restraining neutrophil NETosis via HIF-1a downregulation
P7-11	Xinxin Zhang	Single cell RNA-seq identifies blood-air barrier specifically expressed EMP2 mediate aerocyte apoptosis in acute lung injury
P7-12	Yun Qu	Propriospinal PACAPergic Neurons Mediate Electrical Stimulation-assisted Recovery of Respiration After Spinal Cord Injury in Mice
P7-13	Hui Xu	Micheliolide safeguards alveolar-capillary barrier function by suppressing endothelial ferroptosis through NRF2/GPX4 activation in acute lung injury
P7-14	Qiqi Chen	Mechanism of OGG1 exacerbating acute lung injury via regulating macrophage lipid metabolism
P7-15	Yuan Lin	Airway epithelial Integrin $\beta 4$ deficiency in early life induces BD-like behavior through peripheral chronic inflammation
8. Circulation		
P8-01	Jian Lv	MLF1 wrestles with HDAC5 to drive pro-hypertrophic chromatin remodeling in the heart
P8-02	Yu Fang	PXDC1 licenses exosome release to synchronize cardiomyocyte hypertrophy
P8-03	Nan Zhao	Hypoxia-inducible factor 2 α promotes diabetic atherosclerosis via histone lactylation in vascular smooth muscle cells
P8-04	Fei Ma	Epicardial Electrogram Mapping During Ex Situ Heart Perfusion: Electrophysiological Assessment of the Donor Heart
P8-05	Qi Zhang	Hypoxia-Inducible Factor 2 α Drives a Pathogenic-Modulated Smooth Muscle Cell Switching that Promotes Hypertension and Vascular Remodeling
P8-06	Xuejiao Zhou	Irisin Modulates Baroreflex Function via Integrin $\alpha v\beta 5$ -Positive Neurons in the Nucleus Tractus Solitarius
P8-07	Yutong Cui	Peroxisome Proliferator-Activated Receptor α Deficiency Aggravates Neointima Formation post Vascular Injury via Smooth Muscle Cell Proliferation and Phenotypic Switching

P8-08	Huibin Li	Calcium Dysregulation and Mitochondrial Dysfunction Promote Coronary Artery Remodeling in Chronic Hypoxic Pulmonary Hypertension
P8-09	Yuting Liu	Activation of Piezo1 by Increased Vascular Matrix Stiffness Drives Aortic Medial Calcification
P8-10	Hongrong Zhu	Muribaculum-derived Butyrate Ameliorates Spontaneous Hypertension via GPR41/GPR109A-Mediated Improvement of Parkin-Dependent Mitophagy in RVLM Neurons
P8-11	Liqing Wang	TXNIP-PLIN2 Interaction Drives Obesity-Related Cardiomyopathy by Impairing Lipophagy
P8-12	Fuli Xiang	Macrophage GPR68 Promotes Cell Infiltration and Collateral Arteriole Growth after Acute Myocardial Infarction
P8-13	Yangkai Wang	Effect of the Renal miR-16-5p/Neuron YAP1-Mediated Kidney-Brain Axis on Sympathetic Hyperactivity in Heart Failure Progression
P8-14	Juan Wang	Rehabilitation Effects of Enhanced External Counterpulsation (EECP) on Cardiovascular Dysfunction in Rats with Hyperhomocysteinemia
P8-15	Qianqian Feng	The role of USP10-induced METTL3 deubiquitination in endothelium-dependent vasodilation impairment and hypertension
P8-16	Boyu Duan	Wrist-ankle acupuncture ameliorated stress-induced cardiomyopathy via the MMP2-Postn-Anxa2 axis in aged rats.
P8-17	Siyao Fan	Kluyveromyces marxianus-fermented ginseng ameliorates hypertension in mice and modulates Piezo1-ACE2-eNOS pathway
P8-18	Jin Wang	Targeting Macrophage NOTCH2 Mechanotransduction Mitigates Cardiac Fibrosis
P8-19	Ying Guo	The mechanism of action of Mongolian medicine Siwei Tumuxiang Powder improving myocardial hypertrophy in spontaneously hypertensive rats based on multi- omics exploration
P8-20	Na Dong	Multi-omics Reveals the Mechanism of Siwei Tumuxiang Powder on Abdominal Aortic Coarctation-Induced Hypertensive Cardiac Hypertrophy in Rats
P8-21	Minghui Wei	Mechanism of Siwei Tumuxiang Powder in Treating Hypertensive Cardiac Hypertrophy Revealed by Integrated Metabolomics and Network Pharmacology Analysis
P8-22	Jingjing Guo	The effect of Piezo1 on pulmonary arterial calcification induced by pulmonary hypertension
P8-23	Menglu Li	Bone Marrow Mesenchymal Stem Cell-Derived Microparticles Alleviate Isoproterenol-Induced H9c2 Cardiomyocyte Injury via Delivering miR-199a-5p Targeting MST1/Hippo Signaling Pathway
P8-24	Xiao Jie Bai	Semaglutide improves cardiac remodeling by reducing AT-1 receptor expression via the cAMP/PKA pathway in pressure-overloaded rats
P8-25	Xiaowei Song	SRPK3 regulates back-splicing of pre-MYOCD through Phosphorylating SRSF10 to modulate cardiac hypertrophy
P8-26	Huang Zhuo	A GATA4/YBX1-Regulated circRNA, circ-PALLD, Promotes Cardiac Hypertrophy via a Feed-Forward Mechanism
P8-27	Qianhui Zhang	ULK1 activates NCOA4 mediated ferritinophagy via the Beclin1/VPS34 complex in cardiomyocyte hypertrophy
P8-28	Qiyue Zhao	Astragaloside IV Ameliorates Blood Pressure Dysregulation in Parkinson's Disease via Modulating HIF-1 α Lactylation
P8-29	Yun Du	Smooth Muscle KATP Channel Phosphorylation by CaMKII Aggravates Vascular Remodeling
P8-30	Ji Qi	Deletion of IP6K1 Protects Against Heart Failure by Reprogramming Glutamine Metabolism
P8-31	Zheng Gong	Sex Differences in Hypobaric Hypoxia Induced Cardiac Dysfunction: Estrogen Confers Protection via Region Dependent β Adrenergic Receptor Expression, Thereby Preserving Cardiomyocyte Contractility and Mitochondrial Function

P8-32	Keying Xiang	TBK1 Functions as an Endothelial Metabolic Checkpoint to Restrain Vascular Inflammation in Diabetic Peripheral Arterial Disease
P8-33	Ningning Guo	GADD45G as a mitochondrial checkpoint dictating pro-hypertrophic cardiac transcriptome reprogramming via respiratory rewiring
P8-34	Xiaoying Zhu	High-Altitude Hypoxia Aggravates Atherosclerosis via the Gut Microbiota-Metabolome Axis in ApoE ^{-/-} Mice
P8-35	Qian Chen	IL-27 Deficiency Induces Diastolic Dysfunction in HFpEF by Suppressing H ₂ S Production and Activating Necroptosis
P8-36	Yannan Hou	Hypoxia Upregulation of BACH1 Aggravates Pulmonary Hypertension via TGFBR2/SMAD pathways
P8-37	Yanrui Mao	Glutamatergic Neurons in the Hypothalamic Paraventricular Nucleus Drive Sympathetic Activation and Heart Failure
P8-38	Lihan Zhu	H ₂ S regulation of Cardiac Mitochondrial Function in STZ-Induced Type 1 Diabetic Rats
P8-39	Chenxu Xing	FTO-Mediated m ⁶ A Demethylation of COMP mRNA Attenuates Cardiac Fibroblast Activation and Myocardial Fibrotic Remodeling via AKT Signaling
P8-40	Jiazi Zhang	N-glycosylation of extracellular matrix proteins mediated by MGAT5 contributes to the protective effect of diabetes on abdominal aortic aneurysm
P8-41	Yu Zhang	DRD1 Upregulation Drives Pulmonary Vascular Remodeling in Pulmonary Hypertension via AKT/mTOR
P8-42	Minzhe Zhu	Targeting histamine receptor H1 alleviates vascular calcification
P8-43	Yongbo li	Endothelial MRG15 Functions as a Flow-Sensitive Factor to Suppress Endothelial Inflammation and Atherosclerosis
P8-44	Kejia Wu	CUL4A-dependent FN1 degradation restrains pathological cardiac hypertrophy via Wnt/ β -catenin signaling
P8-45	Nan Jiang	MRG15 orchestrates glycolysis and the pentose phosphate pathway to facilitate heart regeneration following myocardial infarction
P8-46	Dongyang Jiang	Endothelial Gp96 Regulator CCDC134 Is Required for Postnatal Cardiac Development in Mice
P8-47	Ling Li	Preeclampsia Programs Cardiovascular Mitochondrial OXPHOS dysregulation in Offspring
P8-48	Lu Fu	GPER restrains GRK2-mediated β 1AR internalization to mediate estrogen's cardioprotection
P8-49	Chenwen Shao	Cysteine imaging reveals early redox dysregulation and identifies gnetol as a ferroptosis-modulating agent in doxorubicin cardiotoxicity
P8-50	Huiping Lin	Integrated Regulation of Arterial Lipid Handling in Atherosclerosis: Macrophage Macropinocytosis, Lymphatic Clearance, and Estrogen Signaling
P8-51	Feng Guo	Targeting Arg2 to Break HIMM with Trans-Cinnamic Acid Restoring Endothelial Function through HDAC6-Mediated Deacetylation of Arg2
P8-52	Xiangxiang Wei	Transcription factor BACH1 regulates endothelial cell differentiation and vascular development
P8-53	Ting Zou	Autologous skin transplantation into the iliac bone marrow can reverse the carotid artery plaques: a case report
P8-54	Nan Wang	The Protective Effect of Myocardial KLF2 on Pressure Overload-Induced Pathological Myocardial Hypertrophy in Mice
P8-55	Yun Wang	Mechanistic Study of HIF1 α in Regulating Myocardial Fibrosis through Energy Metabolic Reprogramming
P8-56	Shiyuan Shao	Macrophage-Related Ligand Signatures and Mesenchymal Remodeling in Human Pulmonary Arterial Hypertension
P8-57	Mengzhuan Han	Phosphorylation-dependent activation of endothelial KCa2.3 by AMPK ameliorates pulmonary arterial hypertension in mice

P8-58	Qinye Chen	Magnesium Regulates NRF2 Phase Separation in Abdominal Aortic Aneurysm Progression
P8-59	He Li	Slc6a6 alleviates Ang II-induced hypertensive vascular remodeling via inhibiting the Wnt/ β -catenin/Axin2 signaling axis in vascular smooth muscle cells
P8-60	Xiaojing Liu	Xirp2 mediates pathological matrix stiffness-induced cardiac hypertrophy by modulating actin remodeling
P8-61	Yongjie Chen	Effects of Exercise on Flow-Mediated Dilation in Patients with Heart Failure: A Systematic Review and Meta-Analysis of Randomized Controlled Trials
P8-62	Huaqian Yang	CALHM5 Deficiency Alleviates Aortic Aneurysm by Regulating Smooth Muscle Calcium Homeostasis
P8-63	Xiaofang Fan	METTL1/m ⁷ G-Mediated Fibroblast Metabolic Reprogramming Drives Extracellular Matrix Remodeling and Rupture in Thoracic Aortic Aneurysm
P8-64	Ge Lin	Leonurine targets CD36 to inhibit oxLDL and LCFAs uptake, reducing atherosclerosis and cardiomyocyte lipotoxicity
P8-65	Rui Li	PRMT2 Inhibits Foam Cell Formation via the Transcription Factor EB (TFEB) - Mediated Lipophagy Pathway
P8-67	Mengyan Wang	The effect and mechanism of Prunella vulgaris extract on alleviating LT4-induced hyperthyroidism and intestinal microbial diversity changes and its mechanism of action
P8-68	Xingyu Zhang	Predictive Value of Blood Cell Count-Based Inflammatory Indices for Mortality in Heart Failure Patients
P8-69	Caixiang Cao	Mechanism of Ginger Extract Ameliorating PTU-Induced Hypothyroidism and Gut Microbiota Dysbiosis in Rats
P8-70	Hongkun Fan	m6A demethyltransferase FTO regulates the expression of BMP4 in the development of cardiac hypertrophy
P8-71	Hongkun Fan	Growth Differentiation Factor 6 Participates in the Myocardial Remodeling Through VEGFR2- Mediated Angiogenesis
P8-72	Jiao Xu	Piezo1 ameliorates endothelial dysfunction in vascular aging through calcium ion influx.
9. Kidney		
P9-01	Shuyao Li	Circadian Bmal1/Rev-erba/CSF-1 axis in proximal tubules modulates macrophage-driven diurnal variation in renal ischemia-reperfusion injury
P9-02	Qian Yang	Expression and Localization of PTGR1 Along the Mouse Urinary Tract
P9-03	Xiaohan Sun	Mechanism of DMDD from Averrhoa carambola L. inhibiting ferroptosis in renal tubular cells of diabetic nephropathy by regulating NCOA4-ferritinophagy
P9-04	Hongyan Xie	TRIM16 facilitates autophagy activation and renal fibrosis by promoting the ubiquitin degradation of S2448-phosphorylated mTOR
P9-05	Jinchai Zhu	The Dynamic Properties of Stress Granules Involved in AKI-CKD by Regulating MDM2 Subcellular Localization
P9-06	Jing Jia	EI24-mediated ER-phagy protects renal tubular epithelial cells from acute kidney injury
P9-07	Xinrong Hu	Hypercholesterolemia Induces Myeloid Memory that Exacerbates Kidney Inflammation and Fibrosis
P9-08	Chuanmin Long	Loss of FUT11-Mediated VEGFR2 Fucosylation Drives Endothelial Dysfunction and Proteinuria in Preeclampsia
P9-09	Luqun Liang	Rutin attenuates the progression from acute kidney injury to chronic kidney disease by targeting the CDK9/Smad3/LPCAT4 signaling axis
P9-10	Ziwen Tang	Renal injury promotes susceptibility to colitis by inducing dysfunction of intestinal ILC3s

P9-11	Jiajun You	Mechanism of DMDD from Averrhoa carambola L.regulating cells ferroptosis in diabetic nephropathy via scRNA-seq & spatial transcriptomics
P9-12	Yuanyuan Ruan	DPEP1 amplifies cisplatin-induced acute kidney injury through glutathione metabolite-associated tubular toxicity
P9-13	Liangjing Lv	Role of lipid signaling by PTAFR in tubular epithelial cells in AKI-to-CKD transition
P9-14	Yali Huang	Metrnl-Integrin β 1 signaling promotes adaptive kidney repair and limits AKI-to-CKD progression
P9-15	Yixin Ma	Human Blood Vessel Organoid-Derived α -Ketoglutarate Attenuates the AKI-to-CKD Transition
P9-16	Kexin Xu	ACC2-Driven Lipid Metabolic Reprogramming in Tubular Epithelial Cells Promotes Macrophage M1 Polarization via EV-Mediated Lipid Transfer in Diabetic Kidney Disease
P9-17	Jinxuan Chen	Targeting ANGPTL8 as a novel strategy to alleviate glomerular podocyte injury in diabetic nephropathy
P9-18	Yi Fu	FBP2 promotes podocyte lipid metabolic dysregulation through lactylation in diabetic kidney disease
P9-19	Qingyu Wang	A Small Molecule Targeting Pde10A Noncatalytic GAF Domain Protects Mitochondria and Alleviates Acute Kidney Injury
P9-20	Li Hu	FOXK2-CHPT1-VCP-Beclin1 Axis: A Novel Phospholipid-Autophagy Link and Therapeutic Target in Diabetic Kidney Disease
P9-21	Guoli Li	Unveiling the Potential Molecular Mechanisms and Biomarkers of Encapsulating Peritoneal Sclerosis via Label-Free Proteomic Analysis
P9-22	Yuhan Ma	MiR-183-5p inhibits the Egr1/TGF- β /Smad signaling pathway through Egr1 and delays interstitial fibrosis in hyperuric acid nephropathy
P9-23	Yue Xiang	Tubule-derived REG1A promotes kidney fibrosis
P9-24	Anqun chen	Hypoxia-induced SPP1hi macrophages drive progression of crescentic glomerulonephritis through PEC activation and matrix remodeling
P9-25	Zhiyuan Jin	FABP5-Mediated MAM Dysfunction Triggers Metabolic Inflammation to Worsen Obesity-Related Nephropathy
P9-26	Tingting Xie	Erythrocyte angiotensin type 1 receptor protects against tissue hypoxia and fibrosis via Sphk1-S1P-BPGM signaling enhanced oxygen delivery
P9-27	Shan Yang	The Role of the Hippocampal CA1-PVN Circuit in Renal I/R-Induced Cognitive Impairment
P9-28	Xinni Wang	SAT1-dependent putrescine metabolism links obesity-related glomerulopathy to acute kidney injury susceptibility
P9-29	Qingyang Liu	Erythrocyte Metabolic Clock Disruption Drives AKI-to-CKD Transition via Purine-Mediated Immunity
P9-30	Yongfeng Gong	Extra-junctional functions of Claudin-5 in kidney and adipose tissue
P9-31	Yuhan Ma	Rho-Kinase Signaling Pathway Participates in Mitochondrial Oxidative Damage and Apoptosis in Renal Tubules in Uric Acid Nephropathy by Regulating Mitochondrial Dynamics Proteins
P9-32	Xiaoying Yun	Senescent macrophage-tubular epithelial crosstalk promotes renal fibrosis through an IL-4/STAT6-centered paracrine loop.
P9-33	Xinyue Mao	Cellular senescence and its association with aldose reductase promote cyst growth in autosomal dominant polycystic kidney disease.
P9-34	Ruobing He	The ESRP1/TSC2/mTOR axis regulates MHC-I-dependent antigen presentation and CD8 ⁺ T cell immune response in AKI
P9-35	Siyu Cheng	The Role of Polymeric Immunoglobulin Receptor in Tubulointerstitial Injury of Lupus Nephritis
P9-36	Siyu Cheng	16S rRNA Sequencing Reveals Characteristic Gut Microbiota Dysbiosis in Left Renal Vein Compression and Its Correlation with IgA Nephropathy

P9-37	Jianfu Zhou	Pathogenic macrophage-endothelial IL-10 crosstalk drives microvascular immunothrombosis
P9-38	Luxin Li	The different ubiquitin modifications of pattern recognition receptor RIG-I in renal inflammation and fibrosis
P9-39	Wenyao Jia	ATF3 Regulates Podocyte Adhesion via Integrin β 3 and Protects Against Focal Segmental Glomerulosclerosis Progression
10. Irritation		
P10-01	Yaqing Li	Amygdala actively copes with chronic stress exposure through weakening the anxiogenic BLA-IL circuit
P10-02	Yumeng Du	Lachnospiraceae-derived butyrate attenuates heat stroke injury through histone H3K27 butyrylation
P10-03	Zhen Wu	Study on the Mechanism of Orexin System Activation Induced by Fasting in Promoting High-Altitude Acclimatization via the Nrf2/HO-1 Pathway
P10-04	Mei Tang	Study on the Differences in the Progression of Traumatic Brain Injury Under Various Hypoxic Conditions
P10-05	RuiLi Li	Effects of Salidroside on Hypoxic Ischemia-Reperfusion Injury in Rat Hearts at High Altitude
P10-06	Xia Zhang	Systematic Identification of Therapeutic Targets and Repurposed Drugs for Stroke: From Genome Causal Analysis to Multi-level Validation
P10-07	Zhangyang Xu	Hippocampal RIPK3/MLKL-Dependent Necroptosis Mediates Depressive-like Behaviors by Promoting Neuroinflammation
11. Blood		
P11-01	Yue Jiang	FLT3-ITD mutation triggers HSCs malignant transformation via SOCS2-mediated ubiquitination
P11-02	Xiaojie Hu	Disruption of Mitochondrial tRNA Processing Alters Hematopoietic Lineage Commitment through Mitochondrial Unfolded Protein Response
P11-03	Yubing Huang	ID2 Unlocks Retinoic Acid Signaling to Promote Eosinophil Maturation by Antagonizing TCF3
P11-04	Jialong Deng	An Inducible Zebrafish Model of Thrombocytopenia Enables In Vivo Drug Screening and Reveals FGF Signaling as a Key Regulator of Platelet Regeneration
P11-05	Meng Yang	KLF4/MLL3 Complex axis Drives NRBP2 Transcription to Eliminate Acute Myeloid Leukemia Cells
P11-06	Shiru Yuan	Single-cell CRISPR screen maps regulatory control of human hematopoietic stem and progenitor cells
P11-07	Liping Wang	Rapid Niche-Megakaryocyte Regeneration is Essential for Post-Chemotherapy Bone Marrow Recovery
P11-08	Yu Liu	A Novel Classification Approach for Immune Thrombocytopenia with Distinct Treatment Sensitivities
P11-09	Kunying Chen	Single-cell transcriptome analysis identifies an MK-biased MPP population with distinct features from MK-biased HSCs
P11-10	Xiaobin Tian	Psychological stress drives aging-like hematopoietic stem cell dysfunction through a brain-gut-bone marrow axis
P11-11	Shaotong Zhang	18 β -Glycyrrhetic acid ameliorates hematopoietic system aging and extends lifespan by targeting IL-6 in mice
P11-12	Qiang Zhan	DynStem-seq enables rapid and scalable transcriptome-based evaluation of hematopoietic stem cell stemness during ex vivo culture
P11-13	Qiwen Tai	Role of albumin in regulating platelet function
P11-14	Sijia Dan	BCAA catabolism mediates POU2AF1 propionylation to enhance T-ALL development
P11-15	Qiuju Huang	Gm19590 Restrains c-KIT to Preserve Hematopoietic Stem Cell Fitness
P11-16	Wen Ju	Pigment epithelium-derived factor promotes vascular niche regeneration after irradiation injury for hematopoietic reconstitution by NRF2-EndoMT axis

P11-17	Cai Sun	CLEC10A Promotes MPLW515L-Mutant Primary Myelofibrosis Progression via the S100A6–PI3K Signaling Axis
P11-18	Qigang Lan	HIF-1 α /ADPGK-driven glycolytic reprogramming provokes platelet hyperactivation by fueling RHOA lactylation
P11-19	Xiujuan Zheng	Pluripotent stem cell-derived SCOTR-iNK cells acquire intracellular antigen-targeting capability via a synthetic CD8-CD28-TCR complex
P11-20	Zhiqian Wang	Pluripotent stem cell-derived CAR-NK progenitor therapy targets minimal residual disease and prevents relapse in leukemia models
12. Digestion and Nutrition		
P12-01	Biao Zheng	Trpv1 deficiency aggravates intestinal barrier dysfunction and fibrosis in HFD-fed colitis mice via miR-31/Wnt16 signaling
P12-02	Yiping Lv	Mas-related G protein-coupled receptor D-mediated macrophage polarization drives chemically induced colitis in mice
P12-03	Mengxuan Zhang	EFEMP1 high cancer-associated fibroblasts shape metabolic and stromal niches to promote gastric cancer progression
P12-04	Xi Wu	Lactate promotes colorectal cancer via epigenetic upregulation of oncogenic gene regulatory network
P12-05	Xue Zhao	Sodium acetate relieves ulcerative colitis through macrophages and its mechanisms
P12-06	Yao Jia	Exercise Preconditioning Alleviates Acinar Necroptosis in Acute Pancreatitis through Clusterin-Mediated Inhibition of the RIPK1/RIPK3/MLKL Pathway
P12-07	Huayang Li	Gastric hormone ghrelin reduces aggressive behavior by regulating hepatic lipid metabolism
P12-08	Yijia Wang	Enteric Nervous System-Specific Knockout of Dopamine D2 Receptor Enhances Duodenal Mucosal Barrier Function
P12-09	Panpan Huang	Oral cannabidiol ameliorated alcohol-associated liver injury through intestinal epithelial cell AhR activation-mediated gut-liver axis
P12-10	He Hueyun	Calcium Signaling-based Mechanism Involved in Abnormal Gut motility and Visceral Hypersensitivity in IBS Rats
P12-11	Lu Feng	Ablation of ETV5 in ILC3s suppresses brown adipose tissue thermogenesis via inhibiting AKT-IL22 axis
P12-12	Jing Xia	Molecular Mechanisms of Hesperidin and Its Protective Effects against Chronic Non-Atrophic Gastritis
P12-13	Zhuyan Lin	Ultra-processed Food Consumption and Risks of Multiple Chronic Diseases: Implications for Multimorbidity Prevention in Primary Care
13. Pain Modulation		
P13-01	Mulan Chen	Calpain cleaves the distal carboxyl terminus of TRPV1 and modulates its tachyphylaxis
P13-02	Yiming Qiao	Peripheral nerve injury-induced upregulation of acyl-CoA synthetase 2 contributes to neuropathic pain via mediating microglial autophagy disruption in the spinal dorsal horn
P13-03	Xintong Geng	Astragalus Polysaccharides Alleviate Oxaliplatin-Induced Neuropathic Pain via Blood-Derived Butyrate by Regulating Activation of DRG Satellite Glial Cells
P13-04	Haoran Ma	Peripheral nerve injury induces a transient autophagy-lysosomal transcriptional program in Atf3/Gfra3/Gal injury-associated DRG neurons and its significance in neuropathic pain
P13-05	Ruoqi Zang	Study on acupuncture's regulation of miRNA-758-3p targeting Cartpt to alleviate pain-related emotions in rats
P13-06	Xinyang Xu	A Study on the Mechanisms of CXCL12/CXCR4 Signaling in Diabetic Peripheral Neuropathic Pain via the Regulation of TRPV1
P13-07	Xiaoyu Guo	Mechanisms of CCL6/CCR1 signaling in the anterior cingulate cortex regulating trigeminal neuralgia accompanied by depression

P13-08	Chunrong Li	CXCL12/CXCR4-TRPV1 signaling axis in the anterior cingulate cortex mediates the affective pain in inflammatory pain rats
P13-09	Kexin Liu	Cingulate Thrombospondin 4 protects against neuropathic pain and comorbid anxiodepression via interaction with EAAT2
P13-10	Xintong Wang	Pericyte-driven specialized microglia induce cortical interneuron exhaustion via glutamine metabolic coupling
P13-11	Jingheng Dou	A layer V-II microcircuit in the posterior insular cortex mediates chronic visceral pain via neurogranin
P13-12	Jianxiong Wei	Targeting CEND1-mediated mitochondrial protection and anti-neuroinflammation as a novel strategy for neuropathic pain treatment
P13-13	Sailong Wei	The role and mechanism of ASK1 activation in chronic inflammatory pain induced by intraplantar injection of complete Freund's adjuvant in rats
P13-14	Zimeng Wang	Oxytocin Alleviates CFA-Induced Chronic Inflammatory Pain by Suppressing Pyramidal Neuron Hyperactivity and Pathological Theta Oscillations in the Anterior Cingulate Cortex
P13-15	Wenbin Jia	A corticothalamic circuit modulates pain sensitivity and mediates innate fear-induced analgesia in male mice
P13-16	Manzhi Zeng	Distinct and Shared Pathways of Pain-Empathy Dysfunction in High Autistic and Schizotypal Traits: A Multi-Modal Integration Study
P13-17	Jishuai Wang	Role of Astrocyte TRPML1 in CFA-Induced Spinal Sensitization and Inflammatory Pain in Mice
P13-18	Chaofan Lu	Parallel lateral habenula circuits differentially encode phenotypic heterogeneity in depression with painful physical symptoms
P13-19	Yongmei Zhang	Environmental enrichment reverses ELS-induced visceral pain and depression through a prefrontal-limbic circuit involving CB1Rs
P13-20	Zhaoliang Ma	Ciliary 5-HT6 receptor in the mPFC alleviates trigeminal neuropathic pain and associated affective dysfunction via AC3–PKA-dependent AMPAR modulation
P13-21	Yaorui Yang	Vagus Nerve Stimulation Alleviates Neuropathic Pain by Modulating DRG Hyperexcitability and the Spinal Glia-Associated Neuroinflammatory Milieu
P13-22	Yutao Deng	Amphiregulin–EGFR drives neuropathic pain through glycolysis-dependent lactylation and neuron–glia signaling
P13-23	Kaini Wang	A Study on the Mechanism of Electroacupuncture in Alleviating Pain-Related Emotions via Dopamine Receptors in the Anterior Cingulate Cortex
P13-24	Xuemei Hou	IL-33/ST2 Signaling in the Lateral Orbital Cortex Regulates Neuropathic Pain and the Comorbidity of Anxiety and Depression
P13-25	Tong Liu	Cerebrospinal fluid-predominant elevation of galectin-1 and galectin-3 reveals distinct neuroimmune signatures in trigeminal neuralgia
P13-26	Xuan Fang	Gasdermin D Promotes Inflammatory Pain by Inducing Mitochondrial Vacuolation and ATP Secretion in Primary Afferent Terminals
14. Reproduction		
P14-01	Xiaojun Cai	Ovarian Spatial Transcriptome Reveals PCOS-Like Granulosa Transition Following Loss of MRP4
P14-02	Man He	Ameliorative effect and receptor signaling mechanism of Kisspeptin-10 combined with insulin on hepatic insulin resistance
P14-03	Lin Li	Peroxisome-derived ether lipids promote neurogenesis and maintain mitochondrial function
P14-04	Aijie Xin	Sperm PLC ζ Functional Subpopulations Predict Embryological Benefit from ICSI-AOA in Patients with Previous Poor Embryo Development
P14-05	Yingying Li	Protective effect of Cistanches Herba oral liquid against high-intensity exercise-induced testicular injury in rats: integrating network pharmacology with in vivo validation

P14-06	Yanqing Geng	Rictor/mTORC2 regulates endometrial receptivity by coordinating AFAP1 mediated actin remodeling and mitochondrial redox homeostasis
P14-07	Tiantian Niu	Quercetin-loaded solid lipid nanoparticles alleviate PMOS-like ovarian dysfunction through modulation of the DLK1–Notch axis
P14-08	Yuying Jiang	Late-gestational glucocorticoid exposure impairs offspring neutrophils and increases infectious pneumonia risk
P14-09	Yu Chen	Ovarian Lipid Remodeling Coincides with Follicular Development During Pre-Hibernation Fattening in Wild Daurian Ground Squirrel
P14-10	Caiyun Chen	Early and mid-to-late SLE lead to different Pregnancy Outcomes in MRL/lpr Mice
P14-11	Mengzhi Wu	Progesterone-suppressed BPGM drives preeclampsia via epigenetic repression of BBOX1-dependent carnitine biosynthesis
P14-12	Yifan Wu	PPM1A regulates NF- κ B p65 dephosphorylation to maintain ovarian inflammatory homeostasis in polyendocrine metabolic ovarian syndrome
P14-13	Li Nie	High-Fat Diet-Induced PCSK9 Impairs Blood-Testis Barrier Integrity via Upregulating SLC37A2 in Sertoli Cells
P14-14	Gao Zhang	PCSK9 Plays a Critical Role in High-Fat Diet-Induced Disruption of the Blood-Testis Barrier
P14-15	Zhuying Jiang	Paternal preconceptional metformin exposure induces metabolic dysregulation in offspring
15. Fitness		
P15-01	Mengjie Zhang	Association Between Dietary Patterns and Obesity Risk Among Xizang's Adults in Agricultural and Pastoral Areas of Xizang Across Altitude Gradients
P15-02	Bing Han	Effects of Inspiratory Muscle Training in People with Chronic Obstructive Pulmonary Disease: A Systematic Review and Meta-Analysis
P15-03	Ruobing Zhao	Neuromuscular Control Characteristics of the Lower Limb during Drop Jumps in Individuals with Generalized Joint Hypermobility
P15-04	Shenglei Yang	Construction and Validation of a Community-Based Cognitive Frailty Risk Screening Model Based on Skeletal Muscle-Related Physical Fitness Indicators
P15-05	Yinghui He	Biological Mechanisms and Clinical Applications of Blood Flow Restriction Training in Cardiovascular Adaptations: A Research Progress
P15-06	Hao Wang	Musculoskeletal Fitness and Skin Sympathetic Nerve Activity Responses to Concurrent Versus Resistance Training in Young Men
P15-07	Jianghua He	Effects of combined exercise training with different intensities on cardiac structure and function in patients with type 2 diabetes: a randomised controlled trial
P15-08	Mengsi Yan	Knowledge Structure, Intellectual Base, and Hotspot Evolution of Research on Sarcopenia and Cognitive Decline from the Perspective of the Muscle–Brain Axis: A Bibliometric Analysis
P15-09	Zhanbing Ren	The Neural Mechanism of Attentional Focus Effects on Dart Throwing Performance: A fNIRS Study
P15-10	Chuwei Yang	Effects of 12Week Elastic Band Resistance Training on Body Composition and LowerLimb Muscle Strength in Overweight and Obese MiddleAged and Older Adults with Different Skeletal Muscle Mass
P15-11	Zixuan Dong	Research Progress on the Regulatory Role of Myostatin (MSTN) in Exercise-Induced Amelioration of Metabolic Diseases
16. Matrix Biology		
P16-01	Yongsu Jeon	Molecular Docking and Molecular Dynamics Simulations of Eupatilin Against Fibrosis-Associated Signaling Targets
P16-02	Jin Wang	ESOR1 Links Liver Fibrosis to Hepatocellular Carcinoma Progression Via Endothelial EGFR Signaling

P16-03	Ke Zhang	Secreted IgSF8 is increased under inflammatory osteoarthritic conditions and contributes to chondrocyte matrix homeostasis
P16-04	Wenyan Ying	Comparison of extracellular vesicle components in different tissue-derived cells of <i>Achyranthes aspera</i> L. based on multi-omics and their anti-rheumatoid arthritis activity
17. Multi-system Integrated		
P17-01	Hangchi Liu	Activation of thyroid hormone receptor beta alleviates hepatic ischemia-reperfusion injury by metabolic reprogramming of malic enzyme 1
P17-02	Yanbing Zhang	Establishment and evaluation of a novel acute lung injury model in mice with combined elevated blood glucose and homocysteine levels
P17-03	Zhuona Lin	CBP/p300-Mediated H3K23 Crotonylation in Regulating Corpus Cavernosum Fibrosis in Diabetic mellitus-induced Erectile Dysfunction
P17-04	Junchi Huang	The Impact and Molecular Mechanism of Perfluorooctanoic Acid on Sleep in <i>Caenorhabditis elegans</i>
P17-05	Yushu Zhang	Effects of Long-term Chlormequat Chloride Exposure on Lipid Metabolism in <i>Caenorhabditis elegans</i>
P17-06	Jie Xu	Chemical Screening by High-throughput Stretch System Identifies Tafluprost as a PIEZO1 Inhibitor
P17-07	Jing Chen	Brainstem NPY neurons play a critical role in regulating food intake and body weight
P17-08	Chenyang Gao	Cross-state bidirectional brain-heart coupling supports emotional memory reactivation
P17-09	Yiteng Cui	Every-Other-Day Fasting Ameliorates Cognitive Aging via Gut–Brain Immune-Metabolic Crosstalk
P17-10	Jiangyan Shen	Neutrophil extracellular traps drive epileptic progression by promoting microglial pyroptosis and blood-brain barrier disruption
P17-11	Shiwei Qu	Glucocorticoid Receptor in Peripheral CD4 ⁺ T Cells Mediates Maternal Separation Induced Cognitive Impairment via Mitochondrial and Purine Defects
P17-12	Haiyun Xu	Recombinant human FGF21 alleviates diabetic phenotype and concurrent depression-like behaviors while improving neuron-astrocyte network dysfunction by effecting on the Nrf2/HO-1 pathway in streptozotocin-treated mice
18. Traditional Chinese Medicine and Brain Homeostasis Regulation		
P18-01	Zhenzhen Wu	Electroacupuncture at GV20 and GV14 alleviates LPS-induced depressive-like behaviors by regulating PKM2 lactylation to reshape microglial metabolic-immune homeostasis in the mPFC
P18-02	Fengyu Lv	Electroacupuncture at GV20 and GV24 Improves Cognitive Impairment in MIA Offspring via PGC-1 α -Mediated Functional Remodeling of PV Interneurons in Hippocampal DG
P18-03	Dilixiati Wubuli	A Whole-Brain c-fos Activation Atlas Deciphers the Mechanism of Aromatic Lavender Essential Oil in Restoring Sleep-Wake Brain Homeostasis: Multi-Omics, Network Pharmacology and EEG/EMG Study
P18-04	Waimao Gao	Sciadopitysin alleviates cognitive deficits by targeting complement-dependent microglial synaptic engulfment
P18-05	Manli Sun	Spatiotemporal Remodeling of EphA4 in Microglia Mediates Synaptic Homeostasis Dysregulation and Cognitive Impairment Induced by Chronic Sleep Deprivation
P18-06	Xuan Wei	Engineer Angiopep-2-modified neural stem cell-derived exosomes loaded with diosmetin attenuate cerebral ischemia/reperfusion injury via targeting PERK/eIF2 α /ATF4/CHOP-mediated endoplasmic reticulum stress
P18-07	Jing Li	Natural product monomers attenuate ischemic neuroinflammation via lysosomal regulation of cGAS-STING and NF- κ B pathways

P18-08	Lan Sun	Transcutaneous auricular vagus nerve stimulation mediates antioxidant homeostasis via SIRT1/NRF2/GPX4 and NLRP3/Caspase-1/GSDMD pathways to exert anti-depressant and anti-anxiety effects
P18-09	Peng Fu	Vascular-associated microglia mark early brain capillary dysfunction after myocardial infarction
P18-10	Zijie Chen	Low-Intensity Transcutaneous Auricular Vagus Nerve Stimulation Modulates Pain–Depression-Related Behaviors and Locus Coeruleus Norepinephrine Dynamics
P18-11	Xiao Xu	Network pharmacology and experimental validation reveal ellagic acid as a key anti-neuroinflammatory component of Guizhi Fuling Formula targeting EGFR in Alzheimer’s disease
P18-12	Yuxiang Li	Puerarin-Salidroside Combination Ameliorates No-reflow after Cerebral Ischemia Reperfusion via Preserving Endothelial Glycocalyx
P18-13	Xin Meng	Chikusetsusaponin IVa Ameliorates Zebrafish Ischemic Stroke via Regulating Lipid Metabolism and Attenuating Apoptosis
P18-14	Guang Yang	Isoliquiritigenin Ameliorates Anxiety-like Behaviors by Suppressing Kv1.1 Upregulation in Ventral Hippocampal Parvalbumin-positive Interneurons of Young Adult Presenilin 1/2 Conditional Double Knockout Mice
P18-15	Chuanlin Zhang	TMCO1 orchestrates mode-specific ER calcium release to enable hippocampal plasticity and cognition
P18-16	Xuyang Fu	Mechanisms of polygalasaponin F against brain ischemia-reperfusion injury by targeting NKCC1
P18-17	Yun Huang	GSS alleviates ferroptosis during the recovery phase of neonatal HIE via the AMPK/mTOR/ULK1-dependent ferritinophagy
P18-18	Mengjie Zhang	GPB1 Alleviates Ferroptosis via Inhibiting STAT3-Hepcidin Signaling During the Recovery Phase of Ischemic Stroke
19. Human Microecology		
P19-01	Ke Zhang	IgSF8 Knockdown Attenuates Escherichia coli-Derived Extracellular Vesicle-Induced Malignant Phenotypes in Cervical Cancer Cells
P19-02	Haiyan Luo	Ezrin-Dependent Calcium Release in Astrocytes Coupling NE Receptor Engagement to Stress-Induced Behavior
P19-03	Yue Han	Wandai Decoction Improving Vaginal Flora of Vulvovaginal Candidiasis of Spleen Deficiency and Excessive Dampness Type: A Study Based on Metagenomics and Metabolomics
P19-04	Lingling Zhu	Helicobacter pylori Infection, Gastric Microenvironment Remodeling, and Gastroesophageal Microbiota Are Associated with Reflux Esophagitis Severity: A Multicenter Cross-Sectional Study
P19-05	Yanqin Zuo	Glutamatergic and GABAergic neurons mediate electroacupuncture analgesia in S1HL
P19-06	Yafei Zhao	Gut Microbiota Regulate Brain Astrocytic Functions for Therapeutic Translation
20. Autonomic Nervous System		
P20-02	Ying Zhang	PVN-CRH neuron-mediated attenuation of carotid sinus sensitivity leads to blood pressure dysregulation in Parkinson's disease
P20-03	Yifan Shen	SCG P2Y6 receptor contributes to myocardial ischemia-induced sympathetic excitation by triggering macrophage pro-inflammatory polarization
P20-04	Simeng Hou	Sphingolipid Metabolism of the Intestinal GABAergic Neuron Promotes Gut Innate Immunity and Maintains Proteostasis
P20-05	Mingxin Zhang	Sleep disturbance-sensitive neural circuit controls intestinal stem cell functions
P20-06	Pham Thuy Linh	Voluntary Exercise Modulates Hypothalamic Neuroimmune Signaling and Peripheral Immune Cell Profiles Following Ovariectomy in Spontaneously Hypertensive Rats

P20-07	Hongyu Ma	Neuroendocrine Dysfunction of CRF-expressing Neurons in Amygdala Drives Stress-Induced Hypertension
P20-08	Zeyang He	An active metabolite derived from <i>Pseudomonas aeruginosa</i> evokes intestinal innate immunity through GABA-NLP-40 axis in <i>C. elegans</i>
21. Physiology of Stem Cells		
P21-01	Keying Xu	Impact of Pulmonary Extracellular Matrix Stiffness on the Therapeutic Efficacy of Mesenchymal Stem Cells for Acute Lung Injury
P21-02	Shuangshuang Pu	RNA Editing of H19 Orchestrates miR-675-3p Output to Safeguard Hematopoietic Stem Cell Quiescence
22. Infarction and Hemostatic		
P22-01	Yuan Liu	Role of Smooth Muscle TRPV4 (Transient Receptor Potential Vanilloid Family Member 4) Channels in Contraction of Mouse Aorta
23. Aging and Health		
P23-01	Lijie Jiao	The effect and mechanism of hydrogen sulfide on cardiovascular aging
P23-02	Haizhen Huang	Vertical Jump Performance as a Functional Indicator of Bone Health in Older Adults
P23-03	Chang Sun	Exercise-induced irisin ameliorates cognitive impairment and hippocampal neuroinflammation in APP/PS1 mice
P23-04	Mayumi Hirano	Lipid droplet deposition causes mesenchymal transition in senescent vascular endothelial cells
P23-05	Wantang Su	Serum Multi-omics Profiling in Postmenopausal Women Engaged in Habitual Aerobic Exercise
P23-06	Guoping Xu	Cryptotanshinone Targets ALKBH5-WNT6/RPS5-TGFB1 Axis to Reverse the Escape of Cellular Senescence in Gastric Cancer Cisplatin Resistance
P23-07	Ke Xu	A Biosensory Microvessel-Gravity Device Reveals Cellular Senescence and Mechanoprotective Mechanisms in Vascular Aging
P23-08	Jing Qu	Midlife cognitive vulnerability in females driven by an epigenetically controlled cross-organ miRNA-γCaMKII circuit
P23-09	Jianhong Huang	Advances in research on Metrn1 in age-related diseases
P23-10	Jincheng Zhu	Pyruvate Dehydrogenase Kinase 4 in Exercise-Improved Attenuation of Muscle Protein Breakdown in Aged Skeletal Muscle: Effects and Mechanisms
P23-11	Fanji Qiu	Identification of Key Biomarkers for Rheumatoid Arthritis in Older Population with Machine Learning
P23-12	Benedict Wei Jun Pang	Effects of Body Mass-Scaled Protein and Leucine Supplementation on Body Composition during Alternate-Day Fasting in Older Men
P23-13	Jing Li	Mechanism of METTL3-mediated m6A Modification Affecting Skin Photoaging
P23-14	Hongqi Wang	Gene-Specific Clonal Hematopoiesis and Stroke Subtypes: A Comprehensive Mendelian Randomization Study
P23-15	Ning Song	Spatio-temporal heterogeneity of pallidal and nigral iron deposition in aging and Parkinsonian mice
P23-16	Zhaoxu Qiu	Trimethylamine N-oxide contributed to cardiac aging by activating NLRP3-mediated pyroptosis
24. Education Informatization		
P24-01	Yi Zhong	Artificial Intelligence Empowers the Curriculum Development and Teaching Practice of Physiology
25. Cellular and Molecular Physiology		
P25-01	Runqi Jin	TERT Translocation Regulates Mitochondrial Oxidative Stress Induced By High-Intensity Interval Training in Rat Skeletal Muscle
P25-02	Yana Feng	Evaluation of Shenlan Granules, <i>Salvia miltiorrhiza</i> , and <i>Panax ginseng</i> on Kv4.3, ADRB1/ADRB2 by FLIPR
P25-03	Jingjing Feng	Tuning Integrin Binding Frequency and Capping High-Force Bond Lifetimes Enables Rapid Fibroblast Migration

P25-04	Muyan Chu	CFTR Facilitates cAMP-Evoked H ⁺ Secretion in Osteocytes Required for Lactation-Associated Bone Remodeling and Mineral Mobilization
P25-05	Simeng Zhang	The role of TRPC3-mediated mitochondrial calcium signaling in regulating mitochondrial dynamics in gastric cancer
P25-06	Bishan Zhang	Hydrogen sulfide improves keratinocytes migration and diabetic skin wound healing via plakophilin 4
P25-07	Dongjian Wang	Investigation on the Effects and Underlying Mechanisms of Small-Molecule Compound ITSA1 in Boosting Cisplatin Chemosensitivity of Esophageal Squamous Cell Carcinoma
P25-08	Xianxian Liang	The role of CORO1A in pathological myocardial hypertrophy and possible mechanisms
P25-09	Dafang Yu	Menin deficiency suppresses hepatocellular carcinogenesis via disrupting mitophagy-mediated mitochondrial homeostasis
P25-10	Jinlong Chang	AdipoRon alleviates depression-like behaviors in mice by activating AdipoR2-JAK1-STAT3 pathway in microglia
P25-11	Ke Zhang	IgSF8 Promotes Cervical Cancer Progression and Mediates KIR3DL2-related Natural Killer Cell Immune Escape
P25-12	Zuodong Sun	Principle of K ⁺ channel "Origami windmill" model and the phenomenon of cell bioelectricity
P25-13	Kelei Mao	NOTCH3 initiates dormancy and metastatic dissemination in colorectal cancer
P25-14	Jingyi Zhou	Exploration of the therapeutic effect and mechanism of prunetin on glioma based on network pharmacology
P25-15	Xiaomeng Zhang	EV71 infection inhibits PI3K/AKT/mTOR pathway and induces autophagy through TLR2 signaling to participate in lung injury
P25-16	Ziyuan Liu	Development of fluorescence lifetime-based sensors for monitoring subcellular β -arrestin signaling
P25-17	Junfei Dai	Andrographolide Suppresses HTLV-1 Replication by Targeting PKC δ and Attenuating Endoplasmic Reticulum Stress-Mediated UPR Signaling
P25-18	Yuying Jiang	ECSIT is a Critical Factor for Controlling Intestinal Homeostasis and Tumorigenesis through Regulating the Translation of YAP Protein
P25-19	Xiaoling Yang	METTL3-Mediated m6A Modification of circPVT1 Regulates Homocysteine-Induced Cuproptosis in Pulmonary Microvascular Endothelial Cells
P25-20	Weijian Zhang	Dual-color GRAB sensors enable selective and quantitative monitoring of endocannabinoid dynamics
P25-21	Ruiyang Wang	Development of genetically-encoded fluorescence lifetime-based acetylcholine sensors
P25-22	Rong Huang	TRPC3-driven calcium microdomains instruct peripheral nerve regeneration with protective implications for central neurons
P25-23	Bo Zhang	Microfluidic-synthesized anticancer peptide loaded bimetallic MOF complexes enhance tumor immunotherapy via pyroptosis
P25-24	Yanjie Hu	Semaglutide ameliorates synaptic injury in AD via regulating CPNE6 K39 lactylation
P25-25	Lili Zhou	Mechanisms of 1,5-Anhydroglucitol in Regulating Glycogenolysis
P25-26	Fan Yang	Molecular Mechanisms Underlying a Gain-of-Function Mutation in TRPV3 Ion Channel in Olmsted Syndrome
P25-27	Xia Wang	Transcriptomic Analysis of the Antibacterial Mechanism of Isocorydine from Dicranostigma leptopodum against Mycobacterium smegmatis
P25-28	Tingyu He	Systematic Mapping of Scn5a-expressing Cells in Mouse Peripheral Organs
P25-29	Mingshu Xie	Western diet-induced abnormal activation of hypothalamic microglia contributes to the regulation of negative emotions
P25-30	Jianbo Zhao	Visualizing Inflammation: Genetically Encoded cGAMP Sensors Reveal Innate Immune Dynamics

P25-31	Qi Zhang	NOTCH3 triggers FN1 alternative splicing to fuel epithelial-mesenchymal transition in colorectal cancer
P25-32	Yuheng Feng	HOXB13 Regulates Malignant Phenotypes and Potential Metabolic Reprogramming in Castration-Resistant Prostate Cancer Cell Models
P25-33	Jun Guo	Mechanistic Study of APA-Driven Prostate Cancer Progression
26. Arrhythmia		
P26-01	Changyu Chen	Effects of Fatty Acids and Isoproterenol on Myocardial Contractility in Hypertensive Rats
27. Virtual Simulation and Artificial Intelligence		
P27-01	Jeongin Jang	Computational Discovery of Selective TMEM175 Inhibitors for Lysosomal Channel Modulation
P27-02	Eunjin Kim	In Silico Mechanistic Analysis of a Nav1.2 variant associated with Developmental and Epileptic Encephalopathy
P27-03	Ziyi Wang	Machine Learning Applications and Bibliometric Trends in Exercise Science
P27-04	Shutao Chen	Sex-specific and age-dependent transitions in blood pressure among apparently healthy blood donors in China: a 15-year real-world screening
28. Emergency and Critical Care Applied Physiology		
P28-01	Jieyun You	Extravascular Lung Water Index versus Central Venous Pressure for Assessing Volume Status and Predicting Mortality in Cardiogenic Shock
P28-02	Jieyun You	PiCCO hemodynamic parameters in cardiogenic shock: prediction of LVEF, NT-proBNP and MACE based on XGBoost machine learning model
P28-03	Tianwen Wei	SLC25A1 Stimulates Post-Infarction Cardiac Regeneration and Repair via Mitochondrial Citrate Transport-Mediated Metabolic Reprogramming and Histone H3K27 Acetylation
P28-04	Ruichen Wang	Early Magnesium Sulfate Initiation After ICU Delirium Recognition and Sustained Delirium Resolution: A Target Trial Emulation Study
P28-05	Gao Ting	HIF-2 α specifically expressed in T cells mitigates colonic inflammation by inhibiting Notch-driven Th2 cell differentiation
29. Homeostasis and Proactive Health		
P29-01	Xinying Wang	HIF1 α Attenuates Doxorubicin-Induced Cardiotoxicity via Activating TEX264-Associated ER-Phagy
P29-02	Jingli Yang	Oestrogen-related receptor γ in sepsis-induced cardiomyopathy: role of cardiomyocyte subtype conversion
P29-03	Junxia Zhang	Bacteroides acidifaciens exacerbates cardiac ischemia/reperfusion injury via the microbial-host isozyme DPP4
P29-04	Xin Yang	Exercise-Restored Dopamine Homeostasis under Simulated Microgravity Revealed by Single-Vesicle Electrochemistry
P29-05	Mingchao Jiang	Restoring ZER1-DVL2 Proteostasis Attenuates Maladaptive Cardiac Remodeling During Simulated Microgravity
P29-06	Ruofan Liu	Neurocognitive and Resting-State Functional Connectivity Responses to Coriolis Acceleration-induced Vestibular Perturbation
P29-07	Lu Chen	SGLT2 Inhibition Attenuates Adipose sEVs-Induced Microvascular Dysfunction in HFpEF via miR-582-3p and Rap1b
30. Education		
P30-01	Zhi Tan	Empowering Physiology Education via Targeted Alumni Funding: A Two-Year Practical Practice
P30-02	Xiaoqin Zou	Dual-Track Coupling, Three-Level Empowerment and Four-Dimensional Synergy: Innovative Research on Curriculum Ideological and Political Education in Physiology Based on Homeostasis Core Thinking
P30-03	Ying Zhang	AI-Empowered Blended Human Physiology Course for International Students: Design, Resources, and Application

P30-04	Haoqin Lv	Research on the Application of BOPPPS Teaching Optimized by OBE Concept in Physiology Teaching under the Background of New Medical Science
31. Miscellaneous		
P31-01	Chunguang Chu	The Mystery of DBS in Enhancing Consciousness: Reconfiguration of Spatiotemporal Dynamics in Brain Internal Networks
P31-02	Yangxuan Peng	Polystyrene nanoplastics exposure induced vascular calcification by promoting lysosomal damage-mediated NLRP3 inflammasome activation
P31-03	Yixuan Xie	Study on the effect and mechanism of Andrographolide on Sunitinib-induced cardiotoxicity
P31-04	Zhunge Tong	Protective effect of total cistanche phenylethanol glycosides on lipopolysaccharide-induced acute kidney injury in sepsis
P31-05	Zhanling Dong	Physiological and Psychological Mechanisms of Leg-Shaking Behavior and Its Effects on Reaction Time
P31-06	Jirui Wen	Mechanisms and Protective Strategies of Brain Microvascular Endothelial Injury in Deep Underground High-Temperature Environments
P31-07	Jifeng Liu	Enhanced Sensitivity of Lung Cancer to Radiotherapy and Chemotherapy in a Deep Underground Low-Background Radiation Environment
P31-08	Yi Huang	Escherichia coli-derived O77 antigen polysaccharide as a novel protein vaccine adjuvant enhancing protective and anti-tumor cellular immunity
P31-09	Junhe Kong	Propionic Acid Alleviates Anxiety- and Depression-Like Behaviors in Ovariectomized Mice by Inhibiting PTGS2/NF- κ B p65-Mediated Neuroinflammation
P31-10	Xuanjun Chen	Electroacupuncture Alleviates Neuropathic Pain in SNI Rats by Activating α 7nAChR-Mediated Microglial Phenotypic Polarization
P31-11	Sirui Zhao	Retinoic Acid–RARA Signaling Promote HBEGF Expression and Cerebrovascular Smooth Muscle Cell Proliferation and Migration in Moyamoya Disease