	— ATP generation from ADP	— ATP generation from ADP	— ATP generation from ADP
		I_kappab kinase/NF_kappaB signaling Perk_mediated unfolded protein response	 ✓ I–kappab kinase/NF–kappaB signaling ✓ Perk–mediated unfolded protein response
	 Activation of adenylate cyclase activity Adenylate cyclase-inhibiting GPCR signaling 	- Activation of adenylate cyclase activity - Adenylate cyclase–inhibiting GPCR signaling	 Activation of adenylate cyclase activity Adenylate cyclase-inhibiting GPCR signaling
	— Amyloid precursor protein metabolism — Anion transmembrane transport — Axon development	— Amyloid precursor protein metabolism — Anion transmembrane transport — Axon development	— Amyloid precursor protein metabolism — Anion transmembrane transport — Axon development
	Axon extension Axon regeneration	Axon extension Axon regeneration	Axon development Axon extension Axon regeneration
	Axonal fasciculation Axonal transport of mitochondrion	Axonal fasciculation Axonal transport of mitochondrion	Axonal fasciculation Axonal transport of mitochondrion
	Calcium-mediated signaling Calcium-mediated signaling using intracellular calcium source	Calcium-mediated signaling Calcium-mediated signaling using intracellular calcium source	Calcium-mediated signaling
	Jr Cellular potassium ion homeostasis Jr Cellular response to amyloid-beta	Jr Cellular potassium ion homeostasis Jr Cellular response to amyloid-beta	Jr Cellular potassium ion homeostasis Jr Cellular response to amyloid-beta
	Jr Chemical synaptic transmission Jr Chemical synaptic transmission, postsynaptic	Jr Chemical synaptic transmission Jr Chemical synaptic transmission, postsynaptic	Jr Chemical synaptic transmission Jr Chemical synaptic transmission, postsynaptic
	- Cytosolic calcium ion transport	- Clathrin-dépendent endocytosis - Cytosolic calcium ion transport - Detection of coloium ion	-/- Clathrin-dependent endocytosis -/- Cytosolic calcium ion transport
	∫ Detection of calcium ion	Detection of calcium ion Colored C	
	Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress Intrinsic apoptotic signaling in response to endoplasmic reticulum stress in reticulum	Intrinsic apoptotic signaling in response to endoplasmic reticulum stress I lonotropic glutamate receptor signaling	Intrinsic apoptotic signaling in response to endoplasmic reticulum stress J lonotropic glutamate receptor signaling
	/r Mitochondrial fusion	Jr Membrane depolarization Jr Mitochondrial fusion	/_ Membrane depolarization /_ Mitochondrial fusion
	In Mitochondrial protein processing In Motor neuron axon guidance In Myeloid cell development	Jr Mitochondrial protein processing Jr Motor neuron axon guidance Jr Myeloid cell development	In Mitochondrial protein processing In Motor neuron axon guidance In Myeloid cell development
	-/ Negative regulation of GPCR protein signaling -/ Negative regulation of adenylate cyclase activity	-/ Negative regulation of GPCR protein signaling -/ Negative regulation of adenylate cyclase activity	-/- Negative regulation of GPCR protein signaling -/- Negative regulation of adenylate cyclase activity
	J Negative regulation of amyloid precursor protein catabolism Negative regulation of axon regeneration	Thegative regulation of amyloid precursor protein catabolism The Negative regulation of axon regeneration	Phegative regulation of amyloid precursor protein catabolism Negative regulation of axon regeneration
	Negative regulation of cAMP biosynthesis Negative regulation of calcium-mediated signaling	Negative regulation of cAMP biosynthesis Negative regulation of calcium-mediated signaling Negative regulation of ca	
	Jr Negative regulation of cation channel activity Jr Negative regulation of cell projection organization Jr Negative regulation of immune effector process	Jractive regulation of calcium-mediated signaling Jractive regulation of cation channel activity Jractive regulation of cell projection organization Jractive regulation of immune effector process Jractive regulation of immu	☐ Negative regulation of cation channel activity ☐ Negative regulation of cell projection organization ☐ Negative regulation of immune effector process
	Jr Negative regulation of innate immune response	Jegative regulation of innate immune response In Negative regulation of neuron projection development In Negative regulation of receptor—mediated endocytosis	Jr Negative regulation of innate immune response
	Negative regulation of receptor—mediated endocytosis Neuron apoptosis Neuron apopto	Negative regulation of receptor mediated endocytosis Neuron apoptosis Neuron apopto	P Negative regulation of neuron projection development P Negative regulation of receptor-mediated endocytosis P Neuron apoptosis P Neuron projection fasciculation
	Neuron projection fasciculation Neuron projection maintenance Neuron projection organization Neuron projection Neuron p	Neuron apoptosis Neuron projection fasciculation Neuron projection maintenance Neuron projection organization Neuron projection organization Neuron projection maintenance Neuron projection maintenance Neuron projection organization Neuron projection maintenance N	
	Jrack Neuron projection organization The Neuron projection regeneration The Neuron projection regeneration The Neuron projection channel clustering The Neuron projection regeneration The Neuron projection regeneration regeneration The Neuron projection regeneration regeneratio	Neuron projection organization In Neuron projection regeneration In Neuronal ion channel clustering	J- Neuron projection organization J- Neuron projection regeneration J- Neuronal ion channel clustering
	Seurotransmitter receptor diffusion trapping Jr Neurotransmitter receptor internalization	Jr Neurotransmitter receptor diffusion trapping Jr Neurotransmitter receptor internalization	☐ Neurotransmitter receptor diffusion trapping ☐ Neurotransmitter receptor internalization matrix_3:
	Jr Neurotransmitter receptor transport Jr Phagocytosis, engulfment Jr Phospholipase C-activating GPCR signaling	Jr Neurotransmitter receptor transport Jr Phagocytosis, engulfment Jr Phospholipase C-activating GPCR signaling	/- Neurotransmitter receptor transport /- Phagocytosis, engulfment /- Phospholipase C-activating GPCR signaling
	Phospholipase C-activating GPCR signaling Plasma membrane organization Positive regulation of adenylate cyclase activity	Phospholipase C-activating GPCR signaling Plasma membrane organization Positive regulation of adenylate cyclase activity	Phospholipase C–activating GPCR signaling Plasma membrane organization Positive regulation of adenylate cyclase activity
	Positive regulation of axonogenesis Positive regulation of cell communication	Positive regulation of acertifiate cyclase activity Positive regulation of axonogenesis Positive regulation of cell communication	Positive regulation of axonogenesis Positive regulation of cell communication Positive regulation of cell communication Positive regulation of cell communication
	The Positive regulation of dendrite extension The Positive regulation of excitatory postsynaptic potential	Positive regulation of dendrite extension Positive regulation of excitatory postsynaptic potential	Positive regulation of dendrite extension Positive regulation of excitatory postsynaptic potential Positive regulation of extracellular matrix organization
	Positive regulation of extracellular matrix organization Positive regulation of innate immune response Positive regulation of neuron differentiation	Positive regulation of extracellular matrix organization Positive regulation of innate immune response	Jr Positive regulation of innate immune response
	Positive regulation of neuron differentiation Positive regulation of neuron projection development Positive regulation of potassium ion transport	Positive regulation of neuron differentiation Positive regulation of neuron projection development Positive regulation of potassium ion transport	Positive regulation of neuron differentiation Positive regulation of neuron projection development Positive regulation of potassium ion transport
	Positive regulation of response to endoplasmic reticulum stress	Positive regulation of response to endoplasmic reticulum stress	Positive regulation of response to endoplasmic reticulum stress Positive regulation of signaling
	Positive regulation of sodium ion transport Positive regulation of synapse maturation	Positive regulation of sodium ion transport Positive regulation of synapse maturation	Positive regulation of sodium ion transport Positive regulation of synapse maturation
	Positive regulation of synaptic transmission Positive regulation of synaptic transmission, glutamatergic Positive regulation of transcription factor import into nucleus	Positive regulation of synaptic transmission Positive regulation of synaptic transmission, glutamatergic Positive regulation of transcription factor import into nucleus	Positive regulation of synaptic transmission Positive regulation of synaptic transmission, glutamatergic Positive regulation of transcription factor import into nucleus
	Positive regulation of transcription factor import into nucleus Postsynaptic density assembly Postsynaptic neurotransmitter receptor diffusion trapping	Postsynaptic density assembly Postsynaptic neurotransmitter receptor diffusion trapping	Positive regulation of transcription factor import into nucleus Postsynaptic density assembly Postsynaptic neurotransmitter receptor diffusion trapping
	Presynapse assembly	- Potassium ion transport - Presynapse assembly	Potassium ion transport Presynapse assembly
	- Presýnaptic membrane assembly - Protein localization to synapse	- Presýnaptic membrane assembly - Protein localization to synapse - Recenter localization to synapse	
	Regulation of AMPA receptor activity Regulation of ERBB signaling Regulation of autophagy of mitochondrion Regulation of axon extension	Receptor localization to synapse Regulation of AMPA receptor activity Regulation of FRBB signaling	Receptor localization to synapse Regulation of AMPA receptor activity Regulation of ERBB signaling
	Regulation of autophagy of mitochondrion Regulation of axon extension	Regulation of ERBB signaling Regulation of autophagy of mitochondrion Regulation of axon extension	Regulation of ERBB signaling Regulation of autophagy of mitochondrion Regulation of axon extension
	∥r Regulation of axon extension involved in axon guidance	∬ Regulation of axon extension involved in axon guidance	Regulation of axon extension involved in axon guidance Regulation of axonogenesis Regulation of calcineurin–NFAT signaling cascade
	Regulation of axonogenesis Regulation of calcineurin–NFAT signaling cascade Regulation of calcium ion transmembrane transport Regulation of calcium ion transmembrane transport Regulation of calcium ion transmembrane transporter activity	Regulation of calcineurin–NFAT signaling cascade Regulation of calcium ion transmembrane transport Regulation of calcium ion transmembrane transport Regulation of calcium ion transmembrane transporter activity	
		Regulation of calcium ion transport into cytosol Regulation of calcium ion-dependent exocytosis	Regulation of calcium ion transport into cytosol Regulation of calcium ion-dependent exocytosis
	Regulation of dendrite development Regulation of endocytic recycling	To Regulation of dendrite development	F Regulation of dendrite development
	Regulation of endoplasmic reticulum stress-induced intrinsic apoptotic signaling Regulation of extent of cell growth Regulation of extent of cell growth	Regulation of endocytic recycling Regulation of endoplasmic reticulum stress-induced intrinsic apoptotic signaling Regulation of extent of cell growth Regulation of extent of cell growth	☐ Regulation of endoplasmic reticulum stress-induced intrinsic apoptotic signaling
	Regulation of calcium ion-dependent exocytosis Regulation of dendrite development Regulation of endocytic recycling Regulation of endoplasmic reticulum stress-induced intrinsic apoptotic signaling Regulation of extent of cell growth Regulation of extrinsic apoptotic signaling via death domain receptors Regulation of glutamate receptor signaling Regulation of long term synaptic depression Regulation of long term synaptic placticity	Regulation of extrinsic apoptotic signaling via death domain receptors Regulation of glutamate receptor signaling Regulation of long term synaptic depression	Regulation of extrinsic apoptotic signaling via death domain receptors Regulation of glutamate receptor signaling Regulation of long term synaptic depression
	Regulation of long-term neuronal synaptic plasticity Regulation of long-term synaptic potentiation Regulation of membrane depolarization	Regulation of long-term neuronal synaptic depression Regulation of long-term neuronal synaptic plasticity Regulation of long-term synaptic potentiation Regulation of membrane depolarization	Regulation of long-term synaptic depression Regulation of long-term neuronal synaptic plasticity Regulation of long-term synaptic potentiation Regulation of membrane depolarization
	/r Regulation of myelination	- ⁻ // _r Regulation of myelination	
	Regulation of necroptosis Regulation of nervous system development Regulation of neuron projection development	Regulation of necroptosis Regulation of nervous system development Regulation of neuron projection development	Regulation of necroptosis Regulation of nervous system development Regulation of neuron projection development
	Regulation of neuron projection development Regulation of neuronal synaptic plasticity Regulation of neurotransmitter receptor activity	Jr Regulation of neuron projection development Jr Regulation of neuronal synaptic plasticity Jr Regulation of neurotransmitter receptor activity Jr	☐ Regulation of neuron projection development ☐ Regulation of neuronal synaptic plasticity ☐ Regulation of neurotransmitter receptor activity
	J _r Regulation of pH J _r Regulation of postsynaptic membrane potential	Jr Regulation of pH	Jr Regulation of pH √r Regulation of postsynaptic membrane potential
	-/r Regulation of release of sequestered calcium ion into cytosol -/r Regulation of short-term neuronal synaptic plasticity	-/- Regulation of release of sequestered calcium ion into cytosol -/- Regulation of short-term neuronal synaptic plasticity	-/- Regulation of release of sequestered calcium ion into cytosol -/- Regulation of short-term neuronal synaptic plasticity
	-/ Regulation of synapse assembly -/ Regulation of synapse maturation -/ Regulation of synapse organization	-/- Regulation of synapse assembly -/- Regulation of synapse maturation -/- Regulation of synapse organization	Pregulation of synapse assembly Regulation of synapse maturation Regulation of synapse organization
	Regulation of synapse organization Regulation of synaptic vesicle cycle Regulation of synaptic vesicle transport Regulation of voltage–gated calcium channel activity	The Regulation of synaptic vesicle cycle The Regulation of synaptic vesicle transport	
	Z Response to axon injury		
		 ✓ Synaptic vesicle cycle ✓ Synaptic vesicle endocytosis ✓ Synaptic vesicle recycling 	
	 ✓ Sýnaptic vesicle recycling ✓ Vesicle docking ✓ Vesicle-mediated transport in synapse 	 Synaptic vesicle recycling Vesicle docking Vesicle-mediated transport in synapse 	 Synaptic vesicle recycling Vesicle docking Vesicle–mediated transport in synapse
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