

Microglia in Neurodegeneration

Normal State

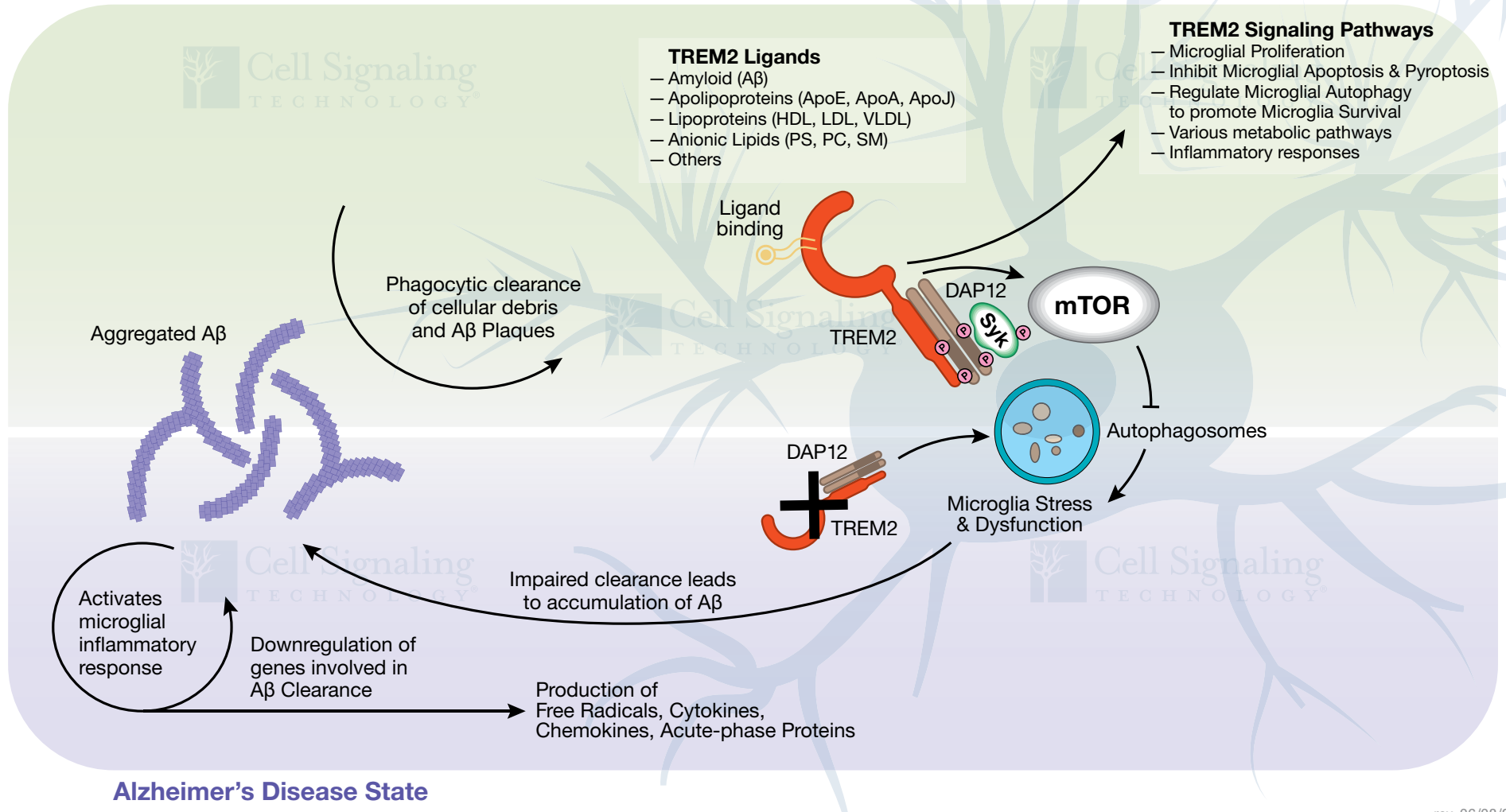


TREM2 Ligands

- Amyloid (A β)
- Apolipoproteins (ApoE, ApoA, ApoJ)
- Lipoproteins (HDL, LDL, VLDL)
- Anionic Lipids (PS, PC, SM)
- Others

TREM2 Signaling Pathways

- Microglial Proliferation
- Inhibit Microglial Apoptosis & Pyroptosis
- Regulate Microglial Autophagy to promote Microglia Survival
- Various metabolic pathways
- Inflammatory responses



Alzheimer's Disease State

Pathway Diagram Key

Acetylase	Apoptosis/ Autophagy Regulator	Deacetylase or Cytoskeletal Protein	GTPase/GAP/GEF	Metabolic Enzyme	Phosphatase	Ubiquitin/SUMO Ligase or Deubiquitinase	Receptor	Direct Process	Tentative Process	Translocation Process
Adaptor	Cell Cycle Regulator	Growth Factor/Cytokine/ Development Protein	Kinase	Methyltransferase or G-protein	Protein Complex	Transcription Factor or Translation Factor	Other	Stimulatory Modification	Inhibitory Modification	Transcriptional Modification