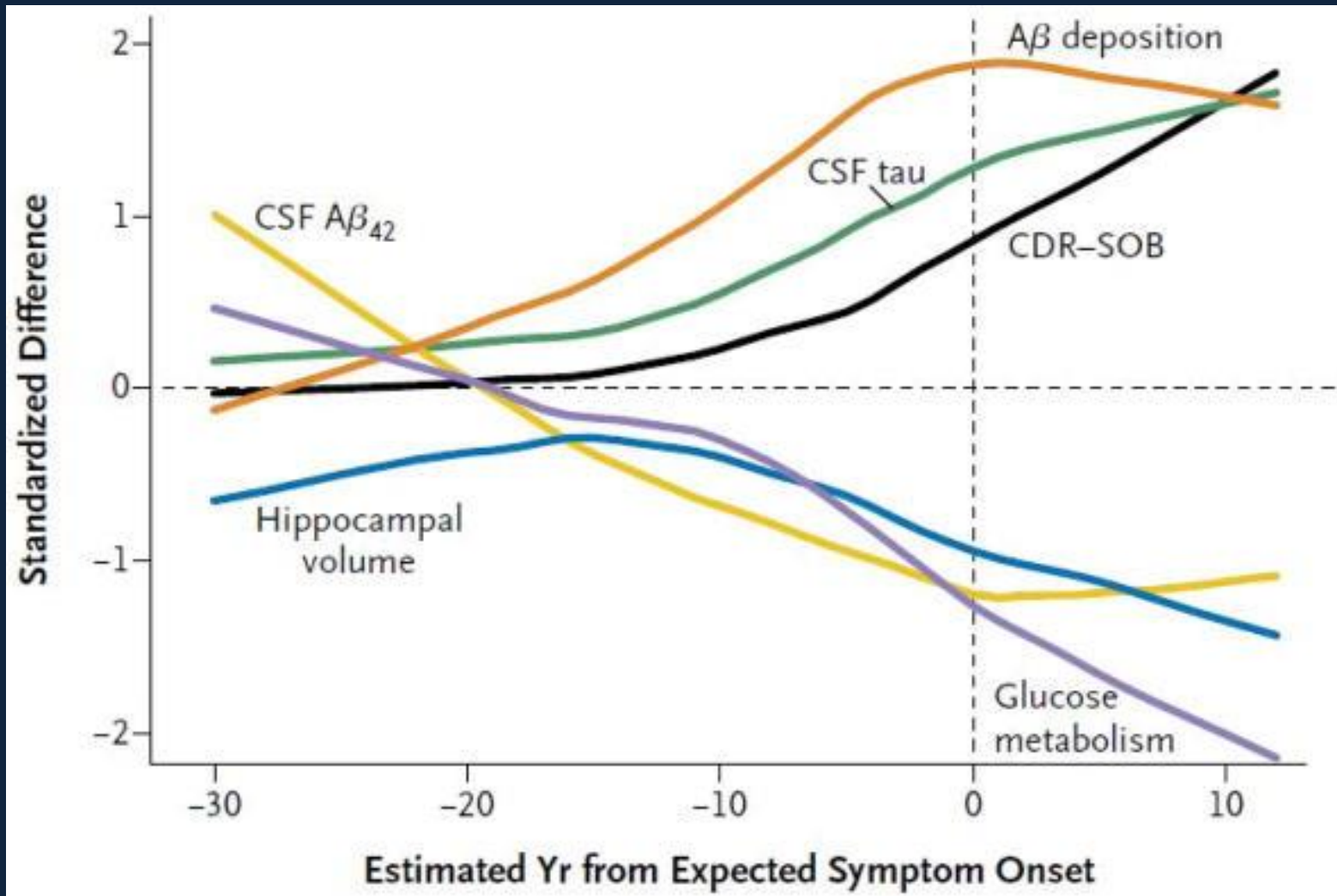


STRATEGIES ALZHEIMER THERAPEUTICS

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STRATEGIES ALZHEIMER THERAPEUTICS

GALEA GROUP/ASTROCYTES

1. Finding a cure for Alzheimer's disease at *prodromal* stages targeting astrocytes.
2. Multifunctional actions.
 - Anti-tau, anti-amyloid beta.
 - Neuroprotection.
 - Neurorepair.
3. Biomarkers of brain dysfunction /repair.

STRATEGIES ALZHEIMER THERAPEUTICS

GALEA GROUP/ASTROCYTES

Prevention

- Anti-amyloid
- Anti-tau

Neurorestoration

- ApoE
- CREB

- Proteostasis
- Calcium signaling
- Mitochondria
- Energy metabolism
- Microglia dysfunction
- Heavy metals
- Hormones
- Epigenetics

REGENERATION

APOE4 PATHOLOGY IN ASTROCYTES

DYSFUNCTION:

- lipid homeostasis.
- lysosome.
- mitochondria.

ACTIONS:

- iPSC-derived astrocytes: drug screens.
- CSF patients: exosome mitochondrial proteins.

MULTIFUNCTIONAL BENEFITS:

- restoration of brain synchronization.
- anti-oxidant protection.
- amyloid beta clearance.
- improved mitophagy.