

# Therapeutic Agents in Phase I Clinical Trials for Alzheimer's Disease (1 of 2)

AAV-hTERT: gene therapy to express active telomerase

Libella Gene Therapeutics

AAVrh.10hPOE2 vector: Serotype rh.10 adeno-associated virus gene transfer

Weill Medical College of Cornell University

AL002: Targets triggering receptor on myeloid cells 2

Alector Inc.

AL003: Blocks function of SIGLEC 3, an inhibitory receptor on microglia

Alector Inc.

Allopregnanolone: Neuroactive metabolite of progesterone

University of Southern California

Autologous adipose-derived mesenchymal stem cells: surgically administered to differentiate into nerve cells

Hope Biosciences

BIIB076: recombinant human-derived anti-tau monoclonal antibody

Biogen

Bosutinib: tyrosine kinase inhibitor that targets c-Abelson (Abl) and Src tyrosine kinases

Neurological Associates of West Los Angeles

CAD106: immunotherapy to beta-amyloid  
Novartis Pharmaceuticals

CB-AC-02 stem cells: surgically administered to differentiate into nerve cells

CHABiotech Co., Ltd

Centella Asiatica supplement

Oregon Health & Science University

CNP520: BACE inhibitor

Novartis Pharmaceuticals

CT1812:displaces bound A $\beta$  oligomer, inhibits binding of A $\beta$  oligomers to receptor complex

Cognition Therapeutics

Dabigatran: Anticoagulant

University of Rhode Island

Dapagliflozin: Sodium-glucose cotransporter 2 inhibitor for diabetes

University of Kansas Medical Center

Dasatinib + Quercetin: tyrosine-kinase inhibitor; nutritional supplement

University of Texas Health Science Center at San Antonio

Dexmedetomidine : inhibition of norepinephrine

BioXcel Therapeutics Inc

Efavirenz: non-nucleoside reverse transcriptase inhibitor (NNRTI)

Case Western Reserve University

Elderberry juice supplement

University of Missouri-Columbia

Empagliflozin: Sodium-glucose cotransporter 2 inhibitor for diabetes

National Institute on Aging

Escitalopram: SSRI

NYU Langone Health

Fecal Microbiota Transplantation: process to transplant fecal bacteria from a healthy individual into a recipient

University of Wisconsin, Madison

GB301: Autologous Regulatory T cells

GMP BIO Co.

Glutathione: nutritional supplement

Baylor College of Medicine

# Therapeutic Agents in Phase I Clinical Trials for Alzheimer's Disease (2 of 2)

HMSCs (stem cells): Surgically administered to differentiate into nerve cells

Bernard (Barry) Baumel; University of Miami

IONIS MAPTRx: Targets tau protein

Ionis Pharmaceuticals

J147: Neuroprotective and neurotrophic

Abrexa Pharmaceuticals

JNJ-40346527: CSF-1 receptor antagonist

Janssen Pharmaceuticals

LM11A-31-BHS: small-molecule p75 neutrophin receptor ligand

Pharmatrophix Inc

LMSC (stem cells): Surgically administered to differentiate into nerve cells

Longeveron

Lu AF87908: Tau antibody

H. Lundbeck A/S

Mecamylamine: Cholinergic antagonist

University of Vermont

Medical marijuana: cannabinoids

McLean Hospital

MK-4334: undisclosed mechanism

Merck Sharp & Dohme

NeuroStem (stem cells): Surgically administered to differentiate into nerve cells

Medipost Co

Niagen®: Dietary/ nutritional supplement

University of Delaware

Nilotinib: Inhibitor of the BCR-ABL kinase

Georgetown University

Nitrate-containing beetroot supplement

University of Wisconsin, Madison

Plasma from young donors:

Mayo Clinic

Posiphen®: reduces circulating amyloid precursor protein levels in CSF and plasma

QR Pharma

Psilocybin: hallucinogen

Johns Hopkins University

Rapamune: immunosuppressant

The University of Texas HealthScience Center at San Antonio

Resveratrol: Reduces brain beta-amyloid

Johns Hopkins University

Salsalate: non-steroidal anti-inflammatory drug (NSAID)

University of California, San Francisco

S-Equol: estrogen receptor  $\beta$  (ER $\beta$ ) agonist

Ausio Pharmaceuticals

Telmisartan: Angiotensin II receptor antagonist and antihypertensive agent

Emory University

TPI 287: Stabilizes microtubules

University of California, San Francisco

Venlafaxine: selective serotonin and norepinephrine reuptake inhibitor (SSNRI)

NYU Langone Health

VGH-AD1: Traditional Chinese Herbal Medicine

Taipei Veterans General Hospital, Taiwan

Vorinostat: inhibits histone deacetylases

German Center for Neurodegenerative Diseases

VU319: Muscarinic M1 Positive Allosteric Modulator

Vanderbilt University

Xanamem: 11 $\beta$ -HSD1 enzyme antagonist; decreases cortisol

Actinogen Medical

XPro1595: Tumor Necrosis Factor inhibitor

Inmune Bio