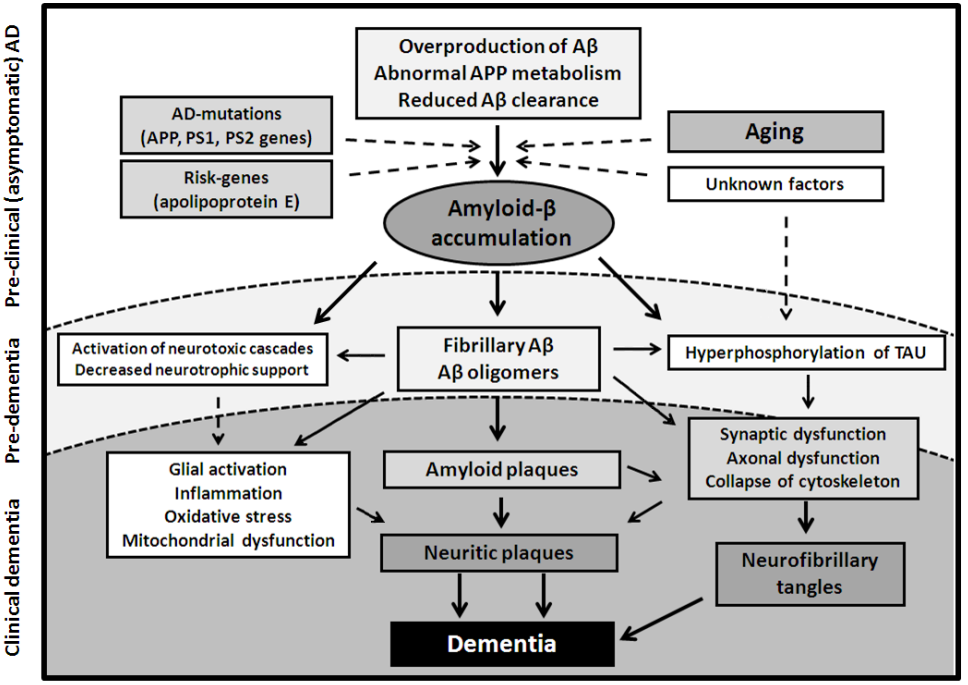
Pre-clinical (asymptomatic) AD
Pre-dementia
Clinical dementia
Overproduction of Aβ
Abnormal APP metabolism
Reduced Aβ clearance
AD-mutations
(APP, PS1, PS2 genes)
Risk-genes
(apolipoprotein E)
Aging
Unknown factors
Amyloid-β
accumulation
Activation of neurotoxic cascades
Decreased neurotrophic support
Fibrillary Aβ
Aβ oligomers
Hyperphosphorylation of TAU
Glial activation
Inflammation
Oxidative stress
Mitochondrial dysfunction
Amyloid plaques
Synaptic dysfunction
Axonal dysfunction
Collapse of cytoskeleton
Neuritic plaques
Neurofibrillary
tangles
Dementia