

Reading List Edwards Alzheimer's disease

Edwards Lab Refs

Wood et al., (2022) Upregulation of Trem2 expression occurs exclusively on microglial contact with plaques. *BioRxiv* doi:10.1101/2022.01.26.477873 [Spatial cell-type enriched transcriptomics]
Benitez, D. et al., (2021) Knock-in models related to Alzheimer's disease: synaptic transmission, plaques and the role of microglia. *Molecular Neurodegeneration* 16, 47 [APPKI mouse comparison]
Liu, W. et al. (2020) Trem2 promotes anti-inflammatory responses in microglia and is suppressed under pro-inflammatory conditions. *Human Molec Gen.* 29, 3224-3248 [Trem2]
Edwards, F.A. (2019) A Unifying Hypothesis for Alzheimer's Disease: From Plaques to Neurodegeneration. *Trends Neurosci* 42 (5), 310-322. [Hypothesis]
Joel, Z. et al. (2018) Improving Mouse Models for Dementia. Are All the Effects in Tau Mouse Models Due to Overexpression? *Cold Spring Harb Symp Quant Biol* 83, 151-161.[overexpression of Tau and early APPKI results]
Cummings, D.M. et al. (2015) First effects of rising amyloid-beta in transgenic mouse brain: synaptic transmission and gene expression. *Brain* 138 (Pt 7), 1992-2004.[first effects of A β]
Matarin, M., A (2015) Genome-wide Gene-Expression Analysis and Database in Transgenic Mice during Development of Amyloid or Tau Pathology. *Cell Reports* 10, 633-644 [Microglial gene expression; correlation with plaque load in transgenic mice]

APPKI mice

Saito, T. et al. (2014) Single App knock-in mouse models of Alzheimer's disease. *Nat Neurosci* 17 (5), 661-3

Trem2 GWAS

Guerreiro, R. and Hardy, J. (2013) TREM2 and neurodegenerative disease. *N Engl J Med* 369 (16), 1569-70.

Preclinical biomarkers

Mila-Aloma et al., (2020) Amyloid beta, tau, synaptic, neurodegeneration, and glial biomarkers in the preclinical stage of the Alzheimer's continuum. *Alzheimer's & Dementia* doi: 10.1002/alz.12131

Review about risk factors

Hardy, J. and Escott-Price, V. (2019) Genes, pathways and risk prediction in Alzheimer's disease. *Hum Mol Genet* 28 (R2), R235-R240.

Reviews/perspectives about therapeutics and diagnosis

Karran, E. and De Strooper, B. (2022) The amyloid hypothesis in Alzheimer disease: new insights from new therapeutics. *Nat Rev Drug Discov* 21, 306-318
Scheltens et al., (2021) Alzheimer's disease *Lancet* 397, 1577-1590

Useful websites

www.alzforum.org Informative website with recent refs and commentaries from experts

www.alzheimers.org.uk Alzheimer's Society with lots of useful background information for researchers or community about the disease