**Supplementary Table 1.** AD-related features.

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| --- | --- | --- | --- |
| **Biomarkers**  | **Localization** | **Relevance for early- or late-onset AD** | **References** |
| Aβ plaques, NFT, t-tau and p-tau accumulation  | Brain | Early-onset, late-onset | [[18](#_ENREF_18)] |
| Mutations/duplications of PSEN1, PSEN2, AβPP genes  | Genetic | Early-onset | [[11](#_ENREF_11), [12](#_ENREF_12)] |
| APOE ε4 | Genetic | Late-onset | [[11](#_ENREF_11), [13](#_ENREF_13), [114](#_ENREF_114)] |
| Loci variants in or near other AD genes: BIN1, CR1, CLU, PICALM, CD33, EPHA1, MS4A4/MS4A6, ABCA7, CD2AP, SORL1, HLA-DRB5/DRB1, PTK2B, SLC24A4-RIN3, INPP5D, MEF2C, NME8, CELF1, FERMT2, CASS4, TRIP4 | Genetic | Late-onset | [[13](#_ENREF_13), [14](#_ENREF_14), [17](#_ENREF_17)] |
| SNPs within COMT (rs4680 G > A) | Genetic | Late-onset | [[15](#_ENREF_15)] |
| SNPs within PPP3R1 (rs1868402) and MAPT (rs3785883) | Genetic | Late-onset | [[16](#_ENREF_16)] |
| TT homozygote-MTHFR and low polyglutamyl folate availability | Genetic, plasma | Late-onset | [[85](#_ENREF_85)] |

NFT, neurofibrillary tangle; PSEN, presenilin; AβPP, amyloid β (A4) protein precursor; APOE ε4, apolipoprotein E ε4; SNPs, single nucleotide polymorphisms; BIN1, bridging integrator 1; CR1, Complement receptor type 1; CLU, Clusterin; PICALM, Phosphatidylinositol binding clathrin assembly protein; CD33, cluster differentiation 33; EPHA1, ephrin type-A receptor 1; MS4A, Membrane-Spanning 4; ABCA7, ATP-binding cassette sub-family A member 7; CD2AP, CD2-associated protein; SORL1, Sortilin-related receptor; HLA-DRB, HLA class II histocompatibility antigen, DRB5/DRB1 beta chain; PTK2B, Protein tyrosine kinase 2 beta; SLC24A4-RIN3, Solute Carrier Family 24-A4- Ras and Rab interactor 3; INPP5D, inositol polyphosphate-5-phosphatase; MEF2C, Myocyte-specific enhancer factor 2C; NME8, Thioredoxin domain-containing protein 3; CELF1, CUG Triplet Repeat RNA-Binding Protein-Elav-Like Family Member 1; FERMT2, Fermitin family homolog 2; CASS4, Cas scaffolding protein family member 4; TRIP4, Activating signal cointegrator 1; COMT, catechol-O-methyltransferase; PPP3R1, protein phosphatase 2B regulatory subunit 1; MAPT, microtubule-associated protein tau; MTHFR, methylene tetrahydrofolate reductase.