

Appendix B1

Table of aggregation modulators and associated Δ scores

Amyloid beta and tau aggregation promoters

Perfect match Braak stages

| Gene Name | I | II | III | IV | V | VI |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| Cell division cycle 37 | -0.411748464 | -0.23460947 | 0.128384097 | -0.610361799 | 0.026886442 | -0.208183458 |
| Glycogen synthase kinase-3 alpha | 0.756244638 | 0.480891992 | 0.400860983 | -0.514069644 | -0.203556666 | 0.21654147 |
| Glycogen synthase kinase-3 beta | -0.435828803 | -0.347164407 | -0.102878685 | -0.873975418 | 0.650556877 | -0.285384438 |
| Heparan sulfate glucosamine 3-O-sulfotransferase 2 | 1.450865883 | 1.771135361 | 0.339319307 | -0.291454525 | -0.125034425 | -0.562818663 |
| Peptidyl-prolyl cis-trans isomerase FKBP5 | 0.738889482 | 0.245548962 | 1.186218257 | 0.311292764 | 0.569675509 | 0.648032239 |
| Beta-secretase 1 | -1.193096142 | -0.626742437 | -0.704978212 | -0.868528272 | -0.20861386 | 2.418177417 |
| Amyloid-beta A4 protein | 0.797787781 | 0.447653059 | 0.775026021 | 0.065568888 | 0.466464868 | 0.913504783 |
| Microtubule-associated protein tau | 0.072510675 | -0.033498253 | 0.255833446 | -0.300832405 | 0.266360609 | -0.064436073 |

All tissues Braak stages

| Gene Name | I | II | III | IV | V | VI |
|--|--------------|--------------|--------------|-------------|--------------|--------------|
| Cell division cycle 37 | -0.058917451 | 0.353861307 | 0.252412821 | 0.347688212 | 0.33796003 | -0.208183458 |
| Glycogen synthase kinase-3 alpha | 0.633090207 | 1.0688572 | 0.531884534 | 0.879973818 | 0.855509725 | 0.21654147 |
| Glycogen synthase kinase-3 beta | -0.047338697 | 0.534233716 | -0.115590847 | 0.378040126 | 0.462944532 | -0.285384438 |
| Heparan sulfate glucosamine 3-O-sulfotransferase 2 | 1.161687399 | 1.628432149 | 0.336745506 | 1.239041861 | 1.358671534 | -0.562818663 |
| Peptidyl-prolyl cis-trans isomerase FKBP5 | 0.218973597 | -0.098452746 | 1.198947396 | 0.242560195 | -0.086188004 | 0.648032239 |
| Beta-secretase 1 | -0.290376818 | 0.042731753 | -0.523022451 | 0.152432339 | 0.027977796 | 2.418177417 |
| Amyloid-beta A4 protein | 0.522338337 | 0.419184263 | 0.75462961 | 0.476759262 | 0.439390738 | 0.913504783 |
| Microtubule-associated protein tau | 0.470614575 | 0.956909262 | 0.378806804 | 0.706362996 | 0.876309416 | -0.064436073 |

Amyloid beta and tau aggregation protectors

Perfect match Braak stages

| Gene Name | I | II | III | IV | V | VI |
|--|--------------|--------------|--------------|--------------|--------------|-------------|
| Heat shock 70 kDa protein 1A | -1.586228628 | -1.210774882 | -1.001140116 | -0.382991287 | -0.380724447 | 1.698061507 |
| Heat shock 70 kDa protein 1B | -2.095146575 | -1.430633031 | -1.232194548 | -0.80581398 | -0.650659594 | 1.697029382 |
| Heat shock 70 kDa protein 1-like | -0.014601548 | 0.059942238 | -0.25146619 | -0.211705898 | -0.131918935 | 0.883358657 |
| DnaJ homolog subfamily A member 1 | -0.200121159 | -0.124628631 | -0.31387025 | 0.000181345 | 0.320766389 | 0.857371888 |
| Heat shock protein beta-8 | -1.282573818 | -0.841900638 | -0.607808377 | -0.300937023 | 1.018976949 | 0.808949904 |
| BAG family molecular chaperone regulator 3 | -0.756407679 | -1.270106587 | -0.744974196 | -0.563737782 | -0.157844804 | 0.546249391 |
| 78 kDa glucose-regulated protein | -0.485059805 | -0.529269539 | 0.216130031 | 0.197712788 | 0.445050279 | 0.766929321 |
| Disintegrin and metalloproteinase domain-containing protein 10 | -0.115957925 | -0.371453878 | -0.473158821 | -0.491577837 | -0.643115075 | 1.544496975 |
| Stress-induced-phosphoprotein 1 | -0.718329875 | -0.441397696 | -0.592264061 | -0.628436715 | 0.183397085 | 0.523203274 |
| Alpha-crystallin B chain | -1.995672797 | -1.309123375 | -1.783484426 | -1.379161222 | -0.285538482 | 2.21192181 |
| Heat shock protein beta-1 | -1.413016009 | -1.291143925 | -0.855515019 | -0.460686378 | 0.172439583 | 0.170813837 |
| DnaJ homolog subfamily B member 6 | -1.56007306 | -1.016957553 | -0.914279873 | -0.370170448 | 0.213291888 | 1.540712427 |

All tissues Braak stages

| Gene Name | I | II | III | IV | V | VI |
|--|--------------|--------------|--------------|--------------|--------------|-------------|
| Heat shock 70 kDa protein 1A | -0.540703193 | -0.608634403 | -0.847048994 | -0.336368837 | -0.338731893 | 1.698061507 |
| Heat shock 70 kDa protein 1B | -0.861523664 | -0.726853742 | -1.063797331 | -0.522283718 | -0.524442494 | 1.697029382 |
| Heat shock 70 kDa protein 1-like | -0.006080997 | 0.022907902 | -0.331199212 | 0.116129305 | -0.100236798 | 0.883358657 |
| DnaJ homolog subfamily A member 1 | 0.478494517 | 0.818290146 | -0.177584947 | 0.617677981 | 0.884640414 | 0.857371888 |
| Heat shock protein beta-8 | -0.229152086 | -0.256210731 | -0.679075407 | -0.111793927 | 0.10015378 | 0.808949904 |
| BAG family molecular chaperone regulator 3 | -0.864287597 | -1.573771552 | -1.018012264 | -1.316238139 | -1.166258332 | 0.546249391 |
| 78 kDa glucose-regulated protein | -0.329096535 | -0.719514668 | 0.113331275 | -0.421225484 | -0.480075935 | 0.766929321 |

| Gene Name | I | II | III | IV | V | VI |
|--|--------------|--------------|--------------|--------------|--------------|-------------|
| Disintegrin and metalloproteinase domain-containing protein 10 | -0.272665259 | -0.942296002 | -0.380810244 | -0.631347129 | -0.838476234 | 1.544496975 |
| Stress-induced-phosphoprotein 1 | -0.311519408 | -0.104117248 | -0.500036639 | -0.243198781 | -0.081488642 | 0.523203274 |
| Alpha-crystallin B chain | -0.843087075 | -0.607561331 | -1.57376513 | -0.380904662 | -0.565734783 | 2.21192181 |
| Heat shock protein beta-1 | -0.652303046 | -0.952080576 | -1.055712482 | -0.677381292 | -0.552585537 | 0.170813837 |
| DnaJ homolog subfamily B member 6 | -0.73699258 | -0.215555421 | -0.893549116 | -0.113896137 | -0.210424759 | 1.540712427 |