**Supplementary Table 1. Association between functional MRI network signals with the amyloid-β and tau networks SUVRs**

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|  | **Resting-state functional MRI networks** |
| **Primary Visual** | **Secondary Visual** | **Extra-striate Visual** | **Anterior Cingulate** | **Posterior DMN** | **Left** **Fronto-Parietal** | **Dorsal Attention** | **Limbic** | **Right Fronto-Parietal** | **Basal Ganglia** |
| amyloid-β IC 2amyloid-β IC 3amyloid-β IC 4amyloid-β IC 5amyloid-β IC 6amyloid-β IC 7amyloid-β IC 8amyloid-β IC10amyloid-β IC 11tau IC 2tau IC 3tau IC 4tau IC 5tau IC 6tau IC 7tau IC 8tau IC 10tau IC 11 | -0.030(0.814)-0.173(0.174)-0.084(0.515)-0.070(0.587)-0.173(0.175)-0.101(0.431)-0.043(0.740)-0.158(0.216)-0.082(0.525)-0.179(0.160)-0.091(0.478)-0.178(0.162)-0.218(0.086)-0.275(0.029)-0.197(0.123)-0.055(0.667)-0.186(0.144)-0.254(0.045) | 0.032(0.806)-0.106(0.407)-0.085(0.506)-0.032(0.805)-0.126(0.325)-0.061(0.636)0.023(0.861)-0.112(0.381)-0.043(0.740)-0.136(0.288)-0.019(0.882)-0.137(0.283)-0.183(0.152)-0.218(0.087)-0.144(0.260)0.022(0.866)-0.129(0.313)-0.189(0.138) | -0.054(0.677)-0.224(0.078)-0.124(0.335)-0.166(0.195)-0.214(0.092)-0.123(0.339)-0.089(0.489)-0.228(0.072)-0.119(0.352)-0.157(0.220)-0.092(0.473)-0.195(0.126)-0.223(0.079)-0.281(0.026)-0.184(0.149)-0.061(0.633)-0.203(0.111)-0.258(0.042) | 0.063(0.625)-0.117(0.363)-0.021(0.869)-0.037(0.773)-0.081(0.528)-0.113(0.379)-0.043(0.740)-0.095(0.460)0.041(0.748)-0.062(0.631)-0.171(0.182)-0.059(0.649)-0.039(0.765)-0.089(0.490)-0.070(0.584)-0.116(0.366)-0.052(0.684)-0.030(0.818) | -0.069(0.592)-0.191(0.133)-0.082(0.526)-0.132(0.301)-0.148(0.246)-0.122(0.341)-0.060(0.640)-0.189(0.138)-0.112(0.382)-0.158(0.216)-0.096(0.453)-0.144(0.259)-0.177(0.166)-0.226(0.075)-0.150(0.242)-0.073(0.568)-0.162(0.204)-0.219(0.085) | -0.016(0.899)-0.201(0.114)-0.055(0.666)-0.100(0.438)-0.178(0.164)-0.066(0.608)-0.049(0.704)-0.212(0.095)-0.024(0.852)-0.143(0.264)-0.108(0.399)-0.131(0.306)-0.119(0.352)-0.221(0.082)-0.118(0.357)-0.071(0.579)-0.173(0.175)-0.166(0.194) | -0.086(0.503)-0.219(0.085)-0.093(0.468)-0.172(0.178)-0.202(0.113)-0.128(0.318)-0.111(0.385)-0.251(0.047)-0.066(0.607)-0.160(0.212)-0.114(0.375)-0.158(0.216)-0.150(0.242)-0.234(0.065)-0.129(0.312)-0.102(0.425)-0.189(0.139)-0.186(0.145) | 0.049(0.702)-0.091(0.479)-0.029(0.824)-0.076(0.555)-0.057(0.659)-0.105(0.412)-0.054(0.677)-0.092(0.472)-0.055(0.668)-0.113(0.378)-0.086(0.504)-0.096(0.453)-0.094(0.463)-0.189(0.137)-0.100(0.435)-0.106(0.410)-0.094(0.464)-0.141(0.269) | -0.015(0.906)-0.204(0.109)-0.036(0.781)-0.086(0.504)-0.197(0.122)-0.080(0.531)-0.070(0.586)-0.215(0.091) 0.020(0.877)-0.086(0.502)-0.068(0.598)-0.099(0.442)-0.062(0.630)-0.201(0.115)-0.065(0.612)-0.034(0.790)-0.125(0.330)-0.117(0.361) | 0.078(0.545)0.015(0.908)0.093(0.470)0.109(0.395)0.037(0.775)-0.075(0.558)0.089(0.488)0.047(0.717)-0.016(0.900)-0.092(0.474)<0.001(0.995)0.027(0.834)-0.009(0.945)-0.046(0.723)-0.027(0.832)-0.004(0.977)0.032(0.807)-0.037(0.774) |
|  | **Resting-state functional MRI networks (continuation)** |
| **Anterior DMN** | **Medial Executive Control** | **Sensorimotor** | **Posterior Salience** | **Anterior Salience** | **Language** | **Somato-sensory** | **Lateral Executive Control** |
| amyloid-β IC 2amyloid-β IC 3amyloid-β IC 4amyloid-β IC 5amyloid-β IC 6amyloid-β IC 7amyloid-β IC 8amyloid-β IC 10amyloid-β IC 11tau IC 2tau IC 3tau IC 4tau IC 5tau IC 6tau IC 7tau IC 8tau IC 10tau IC 11 | 0.044(0.730)-0.135(0.291)0.012(0.926)-0.008(0.950)-0.144(0.262)-0.079(0.538)-0.016(0.902)-0.149(0.244)0.053(0.680)-0.053(0.682)-0.045(0.728)-0.036(0.780)-0.010(0.940)-0.131(0.305)-0.027(0.833)-0.013(0.920)-0.067(0.604)-0.040(0.754) | -0.046(0.722)-0.163(0.203)-0.061(0.634)-0.104(0.419)-0.128(0.319)-0.124(0.335)-0.067(0.603)-0.152(0.233)-0.094(0.462)-0.175(0.169)-0.111(0.388)-0.167(0.190)-0.164(0.200)-0.244(0.054)-0.167(0.192)-0.093(0.467)-0.182(0.155)-0.209(0.100) | -0.136(0.289)-0.284(0.024)-0.165(0.196)-0.190(0.136)-0.285(0.024)-0.155(0.226)-0.168(0.190)-0.296(0.018)-0.059(0.644)-0.187(0.142)-0.157(0.219)-0.148(0.246)-0.117(0.360)-0.207(0.103)-0.140(0.275)-0.086(0.502)-0.177(0.166)-0.143(0.265) | 0.056(0.663)-0.028(0.827)0.087(0.497)0.047(0.715)-0.043(0.738)-0.137(0.284)0.022(0.862)-0.047(0.713)-0.012(0.925)-0.045(0.727)0.032(0.803)-0.004(0.974)0.033(0.795)-0.071(0.579)0.006(0.961)0.002(0.989)-0.013(0.917)-0.011(0.932) | 0.014(0.911)-0.134(0.296)0.023(0.857)-0.015(0.907)-0.139(0.276)-0.095(0.457)-0.026(0.837)-0.140(0.275)0.026(0.841)-0.098(0.446)-0.050(0.699)-0.065(0.612)-0.020(0.876)-0.144(0.259)-0.056(0.662)-0.023(0.857)-0.088(0.492)-0.059(0.648) | -0.018(0.889)-0.097(0.448)-0.002(0.990)-0.077(0.548)-0.077(0.547)-0.108(0.400)-0.041(0.750)-0.116(0.367)-0.077(0.546)-0.163(0.201)-0.076(0.555)-0.145(0.258)-0.128(0.318)-0.208(0.102)-0.125(0.327)-0.084(0.515)-0.162(0.206)-0.165(0.195) | -0.014(0.915)-0.129(0.314) 0.018(0.889)-0.062(0.627)-0.128(0.318)-0.126(0.327)-0.050(0.695)-0.159(0.214)-0.026(0.842)-0.074(0.564)-0.032(0.806)-0.092(0.474)-0.058(0.650)-0.167(0.192)-0.050(0.697)-0.054(0.676)-0.114(0.373)-0.090(0.481) | -0.021(0.869)-0.151(0.238)-0.026(0.839)-0.071(0.579)-0.137(0.283)-0.134(0.297)-0.060(0.638)-0.158(0.217)-0.034(0.792)-0.087(0.500)-0.056(0.664)-0.076(0.553)-0.051(0.691)-0.161(0.209)-0.079(0.539)-0.041(0.749)-0.107(0.403)-0.100(0.438) |

The values presented in the table correspond to Spearman’s Rho followed by (p values) for the correlations between functional MRI and PET networks, while controlling for age, sex and presence of cognitive impairment. Underlined values correspond to significant group differences without adjusting for multiple comparisons. Correlations were carried out in all amyloid positive individuals. DMN, default-mode network. Amyloid-β and tau independent components (IC) can be found in Figure 1.