Supplementary Table 1

Spearman correlation between clinical characteristics related to MDD and expression levels of genes belonging to the Wnt canonical pathway (GSK3B, APC, and TCF7L2), MTOR, the inflammatory system (IL1A, IL1B, IL4, IL6, IL7, IL8, IL10, MIF, TNFA), and the neurotrophic system (BDNF, P11, VGF).

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | BDNF | p11 | VGF | IL1-a | IL-1b | IL-4 | IL-6 | IL-7 | IL-8 | IL-10 | MIF | TNF-a | TCF7L2 | APC | MTOR | GSK3B |
| MDD-R | Correlation coefficient | 0.276 | -0.081 | -0.112 | -0.121 | -0.167 | -0.046 | -0.086 | 0.028 | -0.147 | -0.026 | 0.141 | -0.202 | -0.006 | -0.185 | -0.189 | 0.087 |
|  | Sig. (2-sided) | 0.067 | 0.6 | 0.448 | 0.518 | 0.246 | 0.762 | 0.581 | 0.85 | 0.308 | 0.873 | 0.335 | 0.164 | 0.969 | 0.2 | 0.189 | 0.548 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |
| PHQ9 | Correlation coefficient | -0.038 | -0.263 | -0.198 | 0.026 | 0.107 | -0.196 | -0.017 | 0.11 | 0.014 | -0.119 | -0.244 | -0.273 | -0.005 | 0.003 | -0.011 | 0.211 |
|  | Sig. (2-sided) | 0.805 | 0.085 | 0.177 | 0.888 | 0.459 | 0.192 | 0.915 | 0.457 | 0.925 | 0.457 | 0.091 | 0.057 | 0.972 | 0.981 | 0.939 | 0.142 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |
| GAD | Correlation coefficient | -0.074 | -0.185 | -0.284 | 0.121 | 0.094 | -0.021 | 0.097 | 0.004 | 0.007 | 0.06 | -0.125 | -0.125 | 0.026 | 0.111 | 0.104 | 0.151 |
|  | Sig. (2-sided) | 0.631 | 0.23 | 0.05 | 0.515 | 0.517 | 0.89 | 0.532 | 0.979 | 0.959 | 0.708 | 0.391 | 0.393 | 0.857 | 0.442 | 0.474 | 0.297 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |
| PSQI | Correlation coefficient | 0.2 | 0.027 | 0 | -0.024 | 0.169 | -0.096 | -0.113 | -0.006 | 0.081 | -0.115 | -0.007 | -0.204 | 0.015 | 0.021 | -0.012 | -0.057 |
|  | Sig. (2-sided) | 0.189 | 0.864 | 0.999 | 0.899 | 0.241 | 0.524 | 0.467 | 0.969 | 0.576 | 0.474 | 0.961 | 0.16 | 0.918 | 0.882 | 0.932 | 0.696 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |
| RSES | Correlation coefficient | 0.196 | 0.054 | 0.24 | 0.037 | 0.004 | 0.183 | .421\*\* | 0.103 | -0.052 | 0.096 | 0.206 | 0.202 | .297\* | 0.22 | 0.117 | -0.196 |
|  | Sig. (2-sided) | 0.196 | 0.73 | 0.101 | 0.845 | 0.977 | 0.224 | 0.004 | 0.486 | 0.72 | 0.55 | 0.155 | 0.165 | 0.036 | 0.124 | 0.418 | 0.173 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |
| BCCI | Correlation coefficient | -0.053 | 0.075 | -0.106 | 0.111 | 0.219 | 0.106 | -0.136 | 0.063 | .355\* | -0.075 | -.295\* | -0.015 | -.284\* | 0.174 | -0.032 | 0.181 |
|  | Sig. (2-sided) | 0.728 | 0.627 | 0.472 | 0.552 | 0.126 | 0.485 | 0.38 | 0.673 | 0.011 | 0.641 | 0.04 | 0.918 | 0.045 | 0.228 | 0.824 | 0.207 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |
| CSQT | Correlation coefficient | 0.08 | 0.057 | 0.016 | -0.177 | -0.005 | -0.259 | -0.147 | 0.112 | 0.03 | -0.095 | -0.062 | -0.147 | -.296\* | -0.151 | -0.055 | 0.061 |
|  | Sig. (2-sided) | 0.603 | 0.714 | 0.914 | 0.341 | 0.973 | 0.082 | 0.099 | 0.45 | 0.835 | 0.553 | 0.673 | 0.313 | 0.037 | 0.297 | 0.707 | 0.672 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |
| CSQG | Correlation coefficient | 0.042 | 0.061 | 0.045 | 0.004 | -0.002 | -0.203 | -0.284 | 0.006 | 0.031 | -0.106 | -0.003 | -0.158 | -.354\* | -.290\* | -0.129 | -0.024 |
|  | Sig. (2-sided) | 0.783 | 0.692 | 0.76 | 0.985 | 0.99 | 0.176 | 0.061 | 0.969 | 0.83 | 0.509 | 0.982 | 0.279 | 0.012 | 0.041 | 0.372 | 0.87 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |
| CSQI | Correlation coefficient | 0.189 | 0.116 | 0.095 | -0.351 | -0.001 | -0.256 | -0.227 | 0.094 | 0.043 | -0.088 | -0.094 | -0.209 | -0.176 | -0.07 | -0.09 | -0.04 |
|  | Sig. (2-sided) | 0.214 | 0.454 | 0.52 | 0.053 | 0.992 | 0.087 | 0.139 | 0.525 | 0.768 | 0.584 | 0.521 | 0.15 | 0.222 | 0.63 | 0.534 | 0.782 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |
| CSQE | Correlation coefficient | 0.03 | 0.035 | -0.094 | -0.042 | -0.003 | -0.17 | -0.251 | 0.117 | -0.038 | -0.082 | -0.003 | -0.131 | -0.218 | -0.177 | -0.152 | 0.037 |
|  | Sig. (2-sided) | 0.843 | 0.819 | 0.524 | 0.823 | 0.984 | 0.259 | 0.101 | 0.427 | 0.795 | 0.61 | 0.982 | 0.37 | 0.129 | 0.219 | 0.292 | 0.798 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |
| CSQCN | Correlation coefficient | 0.123 | 0.009 | -0.147 | 0.001 | -0.081 | -0.104 | -0.217 | 0.191 | -0.043 | 0.034 | 0.14 | 0.008 | -.307\* | -0.189 | -0.002 | 0.036 |
|  | Sig. (2-sided) | 0.422 | 0.956 | 0.32 | 0.996 | 0.578 | 0.491 | 0.157 | 0.194 | 0.767 | 0.833 | 0.338 | 0.959 | 0.03 | 0.188 | 0.987 | 0.805 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |
| CSQA | Correlation coefficient | 0.01 | 0.065 | 0.06 | -0.109 | 0.086 | -0.147 | -0.16 | 0.089 | 0.136 | -0.133 | -0.182 | -0.051 | -.298\* | -0.067 | 0.02 | 0.109 |
|  | Sig. (2-sided) | 0.949 | 0.676 | 0.686 | 0.561 | 0.552 | 0.331 | 0.299 | 0.546 | 0.345 | 0.408 | 0.211 | 0.73 | 0.036 | 0.642 | 0.891 | 0.451 |
|  | N | 45 | 44 | 48 | 31 | 50 | 46 | 44 | 48 | 50 | 41 | 49 | 49 | 50 | 50 | 50 | 50 |