|  |  |
| --- | --- |
| **SUBJECT** | *Medication Name(s)* |
| 1 | none |
| 2 | none |
| 3 | none |
| 4 | escitalopram 10mg, lamotrigine 100mg, lamotrigine 50mg, chlorprothixene 15mg |
| 5 | none |
| 6 | duloxetine 60mg, quetiapine 100mg |
| 7 | fluoxetine 20mg |
| 8 | fluoxetine 20 mg |
| 9 | none |
| 10 | escitalopram 10mg |
| 11 | none |
| 12 | trimipramine100mg |
| 13 | quetiapine 25 mg, chlorprothixene 15mg |
| 14 | none |
| 15 | pantoprazole 40mg |
| 16 | mirtazapine 15mg |
| 17 | duloxetine 60mg |
| 18 | none |
| 19 | none |
| 20 | none |
| 21 | trazodone 100mg, estradiol valerate |
| 22 | levothyroxine 0.175 mg |
| 23 | escitalopram 20mg |
| 24 | venlafaxine 150mg, |
| 25 | quetiapine 200mg |
| 26 | none |
| 27 | quetiapine 25mg, agomelatine 25mg |
| 28 | none |
| 29 | none |
| 30 | none |
| 31 | aripriprazole 10mg, diphenhydramine 50mg, fluoxetine 20mg, zopiclone 7.5mg, quetiapine 25mg, quetiapine XR Ret 200mg, trimipramine 25mg, alprazolam Ret1mg |
| 32 | none |
| 33 | quetiapine 25mg |
| 34 | none |
| 35 | lamotrigine 25mg |
| 36 | duloxetine 30mg, duloxetine 60mg, pregabalin 150mg, pregabalin 50mg, quetiapine 25 mg, quetiapine XR Ret 200mg, quetiapine XR Ret 50mg, pramipexole 0.25mg |
| 37 | chlorprothixene 15mg, agomelatine 25mg |
| 38 | none |
| 39 | quetiapine XR Ret 400mg |
| 40 | methylphenidate hydrochloride 10mg, levothyroxine 0.05mg |
| 41 | none |
| 42 | duloxetine 60mg, quetiapine 300mg, trazodone 100mg, |
| 43 | escitalopram 20mg, lithium retard 1.5 |
| 44 | duloxetine 60mg, gabapentin 300mg |
| 45 | none |

**Table S1.** List of Psychotropic Medications in PD Group

**Table S2.** MNI Coordinates for ROIs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **DEFAULT MODE NETWORK** | *L/R* | *X* | *Y* | *Z* |
| PCC (10mm sphere) | -- | -6 | -52 | 40 |
| precuneus | -- | 1 | -59 | 38 |
| anterior parahippocampal gyrus | left  right | -22  22 | -9  -8 | -30  -30 |
| **DEFAULT MODE/CORE MENTALIZATION** | | | |  |
| dmPFC (10mm sphere) | -- | -2 | 50 | 38 |
| vmPFC (10mm sphere) | -- | 0 | 59 | -7 |
| angular gyrus | left  right | -50  52 | -56  -52 | 30  32 |
| SMG (10mm sphere) | left  right | -60  62 | -39  -35 | 31  32 |
| STS/STG | left  right | -58  62 | -24  -23 | 5  3 |
| **FRONTOLIMBIC NETWORK** | |  |  |  |
| frontal medial cortex | -- | 0 | 43 | -19 |
| ACC (10mm sphere) | -- | 0 | 22 | 35 |
| OFC | left  right | -30  29 | 24  23 | -17  -16 |
| DLPFC | left  right | -38  30 | 52  48 | 10  22 |
| amygdala | left  right | -23  23 | -5  -4 | -18  -18 |
| hippocampus | left  right | 25  26 | -23  -21 | -14  14 |
| anterior parahippocampal gyrus | left  right | -22  22 | -9  -8 | -30  30 |
| **SALIENCE NETWORK** |  |  |  |  |
| ACC (10mm sphere) | -- | 0 | 22 | 35 |
| anterior insula  (10mm sphere) | left  right | -44  47 | 13  14 | 1  0 |
| rostral PFC  (10mm sphere) | left  right | -32  32 | 45  46 | 27  27 |
| SMG (10mm sphere) | left  right | -60  62 | -39  -35 | 31  32 |
| **CENTRAL EXECUTIVE NETWORK** | | | | |
| lateral PFC  (10mm sphere) | left  right | -43  41 | 33  38 | 28  30 |
| posterior parietal cortex (10mm sphere) | left  right | -46  52 | -58  -52 | 49  45 |

**Note: All ROIs were defined using an anatomically-based mask unless otherwise specified as a spherical ROI.**

**Table S3.** Effect of BSL-23 Scores on ROI-to-ROI Resting-State Connectivity

**DMN/Core Mentalization Network**

Analysis Unit Statistic p-unc p-FDR

Seed STS(R) F(9)(33) = 2.32 0.0381 0.4572

Intensity = 0.00

Size = 0

Seed dmPFC F(9)(33) = 1.54 0.1742 0.8300

Intensity = 0.00

Size = 0

Seed Ang.Gyrus (R) F(9)(33) = 1.28 0.2846 0.8300

Intensity = 0.00

Size = 0

Seed Ang. Gyrus (L) F(9)(33) = 1.16 0.3515 0.8300

Intensity = 0.00

Size = 0

Seed SMG (R) F(9)(33) = 1.14 0.3625 0.8300

Intensity = 0.00

Size = 0

Seed vmPFC F(9)(33) = 1.06 0.4150 0.8300

Intensity = 0.00

Size = 0

Seed STS (L) F(9)(33) = 0.74 0.6737 0.9095

Intensity = 0.00

Size = 0

Seed SMG (L) F(9)(33) = 0.67 0.7262 0.9095

Intensity = 0.00

Size = 0

Seed PCC F(9)(33) = 0.52 0.8470 0.9095

Intensity = 0.00

Size = 0

Seed ant ParaHipp(R) F(9)(33) = 0.52 0.8498 0.9095

Intensity = 0.00

Size = 0

Seed Precuneous F(9)(33) = 0.48 0.8765 0.9095

Intensity = 0.00

Size = 0

Seed ant ParaHipp(L) F(9)(33) = 0.43 0.9095 0.9095

Intensity = 0.00

Size = 0

**Frontolimbic Network**

Analysis Unit Statistic p-unc p-FDR

Seed DLPFC (L) F(9)(33) = 2.10 0.0590 0.5594

Intensity = 0.00

Size = 0

Seed ACC F(9)(33) = 1.75 0.1156 0.5594

Intensity = 0.00

Size = 0

Seed Amygdala (L) F(9)(33) = 1.66 0.1399 0.5594

Intensity = 0.00

Size = 0

Seed OFC (L) F(9)(33) = 1.49 0.1927 0.5780

Intensity = 0.00

Size = 0

Seed Hippocampus (L)F(9)(33) = 1.08 0.4000 0.8564

Intensity = 0.00

Size = 0

Seed Hippocampus (R)F(9)(33) = 1.01 0.4531 0.8564

Intensity = 0.00

Size = 0

Seed Amygdala (R) F(9)(33) = 0.95 0.4996 0.8564

Intensity = 0.00

Size = 0

Seed OFC (R) F(9)(33) = 0.67 0.7315 0.9454

Intensity = 0.00

Size = 0

Seed Med FC F(9)(33) = 0.55 0.8278 0.9454

Intensity = 0.00

Size = 0

Seed ant Parahip (R) F(9)(33) = 0.51 0.8544 0.9454

Intensity = 0.00

Size = 0

Seed ant Parahipp (L) F(9)(33) = 0.50 0.8667 0.9454

Intensity = 0.00

Size = 0

Seed DLPFC (R) F(9)(33) = 0.30 0.9705 0.9705

Intensity = 0.00

Size = 0

**Salience Network**

Analysis Unit Statistic p-unc p-FDR

Seed ACC F(36) = 1.79 0.1290 0.5607

Intensity = 0.00

Size = 0

Seed SMG (L) F(36) = 1.66 0.1602 0.5607

Intensity = 0.00

Size = 0

Seed SMG (R) F(36) = 1.22 0.3204 0.6082

Intensity = 0.00

Size = 0

Seed RPFC (L) F(36) = 1.12 0.3727 0.6082

Intensity = 0.00

Size = 0

Seed Ant Insula (L) F(36) = 0.84 0.5499 0.6082

Intensity = 0.00

Size = 0

Seed Ant Insula (R) F(36) = 0.80 0.5789 0.6082

Intensity = 0.00

Size = 0

Seed RPFC (R) F(36) = 0.76 0.6082 0.6082

Intensity = 0.00

Size = 0

**Central Executive Network**

Analysis Unit Statistic p-unc p-FDR

Seed FrontoParie.PPC (L) F(39) = 0.81 0.4950 0.8773

Intensity = 0.00

Size = 0

Seed FrontoParie.PPC (R) F(39) = 0.68 0.5726 0.8773

Intensity = 0.00

Size = 0

Seed FrontoParie.LPFC(L) F(39) = 0.29 0.8307 0.8773

Intensity = 0.00

Size = 0

Seed FrontoParie.LPFC (R) F(39) = 0.23 0.8773 0.8773

Intensity = 0.00

Size = 0