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# **Study population**

1. **Asan Medical Center (AMC)**

All participants were right-handed, aged between 20 and 40 years, and ideally did not have any illnesses that could affect brain functioning. Patients with schizophrenia were diagnosed by a board-certified psychiatrist according to the Diagnostic and Statistical Manual of Mental Disorders-IV Text Revision (DSM-IV-TR). The patients did not have any comorbid psychiatric diagnoses, and the duration of psychotic symptoms was less than 5 years. Patients whose psychiatric diagnoses changed within 1–6 months from the initial diagnosis were excluded. The severity of psychiatric symptoms was assessed using the Positive and Negative Syndrome Scale (PANSS) within a week of the MRI scan. According to DSM-IV-TR, the control participants and their first-degree relatives did not have any Axis I psychiatric diagnoses.

1. **Jeonbuk National University Hospital (JNUH)**

The Structured Clinical Interview for DSM-IV (SCID-IV) was adopted for the diagnosis of schizophrenia. The psychiatric symptoms of patients with schizophrenia were assessed using the PANSS by trained psychiatrists within 1 week before the MRI scan. The following exclusion criteria were applied to the patient group: 1) alcohol or drug dependency within the past 6 months; 2) intellectual disabilities; 3) current or historical neurological illness; 4) serious internal or external illness; and 5) a positive urine pregnancy test. Control participants were age- and sex-matched with patients with schizophrenia and evaluated using the screening module of the SCID-IV, non-patient edition. Control participants did not have any previous or current psychiatric or neurological disorders or significant medical conditions.

1. **Center of Biomedical Research Excellence (COBRE)**

These multimodal neuroimaging data were obtained from patients with schizophrenia and age-matched controls and were released through the collaborative informatics and neuroimaging suite of the Mind Research Network. The SCID-IV was used to diagnose schizophrenia. Control participants had no personal or family history of major psychiatric disorders. Among the eligible participants, those with an IQ<70, history of neurological disorders, severe head trauma, substance abuse, or dependence within the last 12 months, and MRI contraindications were excluded.

1. **Neuromorphometry by computer algorithm Chicago (NMorphCH)**

A longitudinal study with a 2-year follow-up was conducted at Northwestern University and included clinical, cognitive, and neuroimaging data from patients with schizophrenia and healthy controls. The neuroimaging data included T1-, T2-, diffusion-weighted images, resting-state functional magnetic resonance imaging (fMRI), and an n-back fMRI task. The clinical symptoms of patients with schizophrenia were assessed using the Scale for the Assessment of Positive Symptoms (SAPS) and Scale for the Assessment of Negative Symptoms (SANS). Neurocognitive information on working memory, episodic memory, and executive function of the participants was included in the dataset.

1. **MIND Clinical Imaging Consortium (MCIC)**

This cross-sectional, multisite study was conducted to identify the neuroimaging biomarkers of schizophrenia. The MCIC dataset contains structural, functional, and diffusion-weighted images of patients with schizophrenia and age- and sex-matched controls along with comprehensive clinical data. Patients with schizophrenia and a broad range of illness durations, from early psychosis to chronic illness, were included.

1. **Function Biomedical Informatics Research Network (fBIRN)**

The fBIRN dataset includes clinical and neurocognitive information and neuroimaging data from patients with chronic schizophrenia and healthy controls. The patient and control groups were matched by age, sex, and handedness. The fBIRN data are shared via the fBIRN Data Repository and SchizConnect. Keator et al. described the fBIRN Data Repository, including the fBIRN Phase I, II, and III data, in which assessment tools for the diagnosis, psychiatric symptoms, and neurocognitive functions of participants were presented.

1. **University of California Los Angeles Consortium for Neuropsychiatric Phenomics LA5c Study (UCLA)**

This publicly available dataset includes neuroimaging data of patients with schizophrenia, bipolar disorder, or attention-deficit hyperactivity disorder, and healthy controls with neuropsychological and neurocognitive data. The primary goal of this project was to understand the dimensional structure of memory and cognitive control functions in non-patient and patient samples. We selectively retrieved clinical and neuroimaging data of patients with schizophrenia and healthy individuals from the entire dataset.

# **Supplementary Table 1.** Information on scanners and image parameters of T1-weighted images

|  |  |  |
| --- | --- | --- |
| **Study** | **Scanner** | **Protocol parameters** |
| AMC | 3T Philips Achieva | T1 images were acquired with turbo field echo sequence, with the following scan parameters: field of view (FOV), 240\*240\*170; voxel size, 1\*1\*1 mm3; echo time (TE), 4.6 ms; repetition time (TR), 9 ms; flip angle, 8°. |
| JNUH | 3T Siemens Verio | Axial 1.0-mm-thick T1-weighted spin-echo images were acquired (TR=1,900 ms, TE=2.5 ms, flip angle=9°, FOV=240 mm, and image matrix=256×246 mm). |
| COBRE | 3T Siemens Trio | Coronal T1-weighted structural images were acquired with a 12-channel head-coil and a five-echo MPRAGE sequence (TE = 1.64, 3.5, 5.36, 7.22, and 9.08 ms; TR = 2.53 s; TI = 1.2 s, flip angle = 7°; number of excitations = 1; slice thickness = 1 mm; field of view = 256 mm; resolution = 256 × 256) |
| NMorphCH | NA | Coronal T1-weighted structural images were acquired with a 32-channel head coil and a MPRAGE sequence (TR = 2400 ms, TE = 3.16 ms, flip = 8°, 256 × 256 matrix, 176 slices, slice thickness = 1 mm) |
| MCIC | 3T Siemens Trio | Coronal T1 scans were collected with an eight-channel head coil and a gradient echo sequence (TR = 12 ms; TE = 3.79 ms; flip angle = 20°; bandwidth = 181; voxel size = 0.625 × 0.625 mm; slice thickness = 1.5 mm; matrix = 256 × 256; number of slices = 128) |
| fBIRN | NA | T1 images were acquired with a gradient echo sequence, with the following scan parameters: voxel size, 0.9375\*0.9375\*1.2 mm3; matrix = 256 × 192; echo time (TE), 5.3 ms; repetition time (TR), 12.3 ms; flip angle, 15°; bandwidth = 31.26. |
| UCLA | 3T Siemens Trio | The scan parameters for the T1-weighted high-resolution anatomical scan (MPRAGE) were as follows: slice thickness, 1 mm; 176 slices; repetition time, 1900 ms; TE, 2.26 ms; matrix, 256 × 256; and FOV, 250 × 250 mm. |

AMC, Asan Medical Center; JNUH, Jeonbuk National University Hospital; COBRE, Center of Biomedical Research Excellence; NMorphCH, Neuromorphometry by Computer Algorithm Chicago; MCIC, MIND Clinical Imaging Consortium; fBIRN, Function Biomedical Informatics Research Network; UCLA, University of California Los Angeles (Consortium for Neuropsychiatric Phenomics LA5c Study); NA, not available.

# **ComBat harmonization, outlier removal, and the validation of age and sex matching**

We performed ComBat harmonization to adjust for the variation generated from the use of different neuroimaging datasets with the covariates of age, sex, and diagnosis. To validate the harmonization process, we selected age- and sex-matched healthy controls from each study sample and averaged each cortical measurement across 308 cortical structures. An unpaired t-test was performed to examine site differences in the mean cortical measures before and after harmonization. Supplementary Table 2 and Supplementary Figure 1 show a decreasing trend in site differences after ComBat harmonization.

For each regional cortical measure, we determined whether a participant was an outlier based on a criterion of its value not being in the range of mean ± 3.5 SDs. We then calculated the total number of identified outliers across the four cortical measures for 308 cortical structures (4 × 308) per participant. Supplementary Figure 2 shows a scatterplot of the total number of identified outliers. We excluded participants with the total number of identified outliers higher than 8 (the 3rd quartile + 3 × interquartile range).

After excluding outliers, we examined age and sex matching between healthy controls and patients with schizophrenia in each study sample. In the fBIRN and UCLA datasets, we subsampled patients with schizophrenia and healthy controls matched for age and sex using the MatchIt package in R-CRAN. The demographic and clinical information of the final study population is presented in Table 1.

# **Supplementary Table 2-1.** Site differences in mean cortical surface area before and after ComBat harmonization

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Before | | | | | | After | | | | | |
|  |  | Reference | | Target | | Statistic | | Reference | | Target | | Statistic | |
| Reference | Target | Mean | SD | Mean | SD | t | p | Mean | SD | Mean | SD | t | p |
| AMC | COBRE | 574.434 | 123.516 | 564.562 | 124.116 | 4.745 | <0.001 | 559.94 | 131.144 | 571.564 | 130.004 | -5.298 | <0.001 |
| AMC | NMorphCH | 574.434 | 123.516 | 569.411 | 128.519 | 2.372 | 0.018 | 559.94 | 131.144 | 582.013 | 135.422 | -9.855 | <0.001 |
| AMC | UCLA | 574.434 | 123.516 | 574.558 | 117.214 | -0.061 | 0.951 | 559.94 | 131.144 | 566.292 | 124.961 | -2.951 | 0.003 |
| AMC | JNUH | 574.434 | 123.516 | 560.241 | 118.878 | 6.968 | <0.001 | 559.94 | 131.144 | 558.026 | 128.616 | 0.877 | 0.38 |
| AMC | fBIRN | 574.434 | 123.516 | 535.221 | 234.782 | 12.441 | <0.001 | 559.94 | 131.144 | 559.27 | 128.738 | 0.307 | 0.759 |
| AMC | MCIC | 574.434 | 123.516 | 580.282 | 125.215 | -2.799 | 0.005 | 559.94 | 131.144 | 572.393 | 126.913 | -5.743 | <0.001 |
| COBRE | NMorphCH | 554.172 | 128.525 | 546.436 | 123.924 | 5.044 | <0.001 | 560.287 | 134.059 | 558.881 | 130.282 | 0.875 | 0.382 |
| COBRE | UCLA | 558.868 | 125.689 | 570.165 | 124.087 | -10.288 | <0.001 | 565.324 | 131.097 | 563.817 | 132.291 | 1.301 | 0.193 |
| COBRE | JNUH | 558.868 | 125.689 | 520.633 | 107.512 | 37.183 | <0.001 | 565.324 | 131.097 | 518.621 | 115.126 | 43.057 | <0.001 |
| COBRE | fBIRN | 554.509 | 124.369 | 538.825 | 232.665 | 7.319 | <0.001 | 560.372 | 129.372 | 560.666 | 129.502 | -0.198 | 0.843 |
| COBRE | MCIC | 541.504 | 121.055 | 580.282 | 125.215 | -18.74 | <0.001 | 546.78 | 125.543 | 572.393 | 126.913 | -12.076 | <0.001 |
| NMorphCH | UCLA | 546.436 | 123.924 | 595.397 | 126.011 | -32.249 | <0.001 | 558.881 | 130.282 | 588.812 | 134.268 | -18.624 | <0.001 |
| NMorphCH | JNUH | 564.439 | 124.211 | 546.436 | 123.924 | 11.944 | <0.001 | 563.118 | 132.678 | 558.881 | 130.282 | 2.653 | 0.008 |
| NMorphCH | fBIRN | 537.656 | 230.359 | 546.436 | 123.924 | -3.872 | <0.001 | 561.071 | 129.39 | 558.881 | 130.282 | 1.38 | 0.168 |
| NMorphCH | MCIC | 580.282 | 125.215 | 550.556 | 126.96 | 14.031 | <0.001 | 572.393 | 126.913 | 563.53 | 133.739 | 4.046 | <0.001 |
| UCLA | JNUH | 559.533 | 121.909 | 570.408 | 122.646 | -11.706 | <0.001 | 557.371 | 130.344 | 563.594 | 130.668 | -6.277 | <0.001 |
| UCLA | fBIRN | 538.825 | 232.665 | 562.541 | 117.501 | -11.199 | <0.001 | 560.666 | 129.502 | 556.141 | 125.449 | 3.098 | 0.002 |
| UCLA | MCIC | 580.282 | 125.215 | 574.811 | 117.9 | 2.678 | 0.007 | 572.393 | 126.913 | 570.571 | 125.605 | 0.858 | 0.391 |
| JNUH | fBIRN | 538.825 | 232.665 | 513.089 | 105.659 | 12.382 | <0.001 | 560.666 | 129.502 | 511.497 | 113.265 | 35.183 | <0.001 |
| JNUH | MCIC | 551.289 | 119.589 | 580.282 | 125.215 | -14.018 | <0.001 | 547.799 | 127.309 | 572.393 | 126.913 | -11.45 | <0.001 |
| fBIRN | MCIC | 530.911 | 217.168 | 580.282 | 125.215 | -16.576 | <0.001 | 556.143 | 121.573 | 572.393 | 126.913 | -7.782 | <0.001 |

AMC, Asan Medical Center; JNUH, Jeonbuk National University Hospital; COBRE, Center of Biomedical Research Excellence; NMorphCH, Neuromorphometry by Computer Algorithm Chicago; MCIC, MIND Clinical Imaging Consortium; fBIRN, Function Biomedical Informatics Research Network; UCLA, University of California Los Angeles (Consortium for Neuropsychiatric Phenomics LA5c Study).

# **Supplementary Table 2-2.** Site differences in mean cortical gray matter volume before and after ComBat harmonization

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Before | | | | | | After | | | | | |
|  |  | Reference | | Target | | Statistic | | Reference | | Target | | Statistic | |
| Reference | Target | Mean | SD | Mean | SD | t | p | Mean | SD | Mean | SD | t | p |
| AMC | COBRE | 1539.275 | 473.649 | 1488.228 | 454.503 | 6.545 | <0.001 | 1552.146 | 493.154 | 1552.667 | 492.517 | -0.063 | 0.95 |
| AMC | NMorphCH | 1539.275 | 473.649 | 1592.841 | 509.23 | -6.483 | <0.001 | 1552.146 | 493.154 | 1646.484 | 538.737 | -10.871 | <0.001 |
| AMC | UCLA | 1539.275 | 473.649 | 1547.335 | 457.237 | -1.031 | 0.303 | 1552.146 | 493.154 | 1542.826 | 490.186 | 1.128 | 0.259 |
| AMC | JNUH | 1539.275 | 473.649 | 1537.676 | 481.515 | 0.199 | 0.842 | 1552.146 | 493.154 | 1486.85 | 483.563 | 7.957 | <0.001 |
| AMC | fBIRN | 1539.275 | 473.649 | 1301.834 | 735.66 | 22.841 | <0.001 | 1552.146 | 493.154 | 1531.282 | 496.309 | 2.51 | 0.012 |
| AMC | MCIC | 1539.275 | 473.649 | 1574.496 | 495.19 | -4.326 | <0.001 | 1552.146 | 493.154 | 1596.852 | 504.055 | -5.336 | <0.001 |
| COBRE | NMorphCH | 1507.588 | 481.467 | 1524.309 | 485.16 | -2.848 | 0.004 | 1565.144 | 516.77 | 1576.486 | 513.811 | -1.812 | 0.07 |
| COBRE | UCLA | 1503.847 | 469.758 | 1573.146 | 472.099 | -16.737 | <0.001 | 1563.787 | 505.433 | 1574.947 | 506.666 | -2.508 | 0.012 |
| COBRE | JNUH | 1503.847 | 469.758 | 1464.593 | 452.47 | 9.681 | <0.001 | 1563.787 | 505.433 | 1413.529 | 452.067 | 35.641 | <0.001 |
| COBRE | fBIRN | 1503.269 | 472.196 | 1330.653 | 733.032 | 24.389 | <0.001 | 1560.665 | 507.317 | 1555.626 | 497.644 | 0.876 | 0.381 |
| COBRE | MCIC | 1462.057 | 464.948 | 1574.496 | 495.19 | -13.932 | <0.001 | 1516.481 | 499.372 | 1596.852 | 504.055 | -9.534 | <0.001 |
| NMorphCH | UCLA | 1524.309 | 485.16 | 1628.839 | 486.9 | -17.704 | <0.001 | 1576.486 | 513.811 | 1630.528 | 521.514 | -8.593 | <0.001 |
| NMorphCH | JNUH | 1598.994 | 506.143 | 1524.309 | 485.16 | 12.401 | <0.001 | 1548.67 | 508.189 | 1576.486 | 513.811 | -4.481 | <0.001 |
| NMorphCH | fBIRN | 1328.956 | 725.642 | 1524.309 | 485.16 | -25.844 | <0.001 | 1560.073 | 498.595 | 1576.486 | 513.811 | -2.654 | 0.008 |
| NMorphCH | MCIC | 1574.496 | 495.19 | 1559.502 | 503.239 | 1.787 | 0.074 | 1596.852 | 504.055 | 1613.329 | 533.566 | -1.889 | 0.059 |
| UCLA | JNUH | 1593.655 | 508.266 | 1566.179 | 469.262 | 7.393 | <0.001 | 1542.328 | 508.961 | 1566.744 | 503.395 | -6.349 | <0.001 |
| UCLA | fBIRN | 1330.653 | 733.032 | 1555.043 | 458.155 | -31.976 | <0.001 | 1555.626 | 497.644 | 1555.86 | 492.869 | -0.041 | 0.967 |
| UCLA | MCIC | 1574.496 | 495.19 | 1597.777 | 460.786 | -2.897 | 0.004 | 1596.852 | 504.055 | 1605.909 | 496.515 | -1.077 | 0.281 |
| JNUH | fBIRN | 1330.653 | 733.032 | 1418.282 | 429.861 | -12.683 | <0.001 | 1555.626 | 497.644 | 1370.76 | 429.344 | 34.625 | <0.001 |
| JNUH | MCIC | 1552.057 | 493.15 | 1574.496 | 495.19 | -2.687 | 0.007 | 1497.355 | 493.093 | 1596.852 | 504.055 | -11.811 | <0.001 |
| fBIRN | MCIC | 1307.132 | 685.747 | 1574.496 | 495.19 | -26.604 | <0.001 | 1541.531 | 474.274 | 1596.852 | 504.055 | -6.728 | <0.001 |

AMC, Asan Medical Center; JNUH, Jeonbuk National University Hospital; COBRE, Center of Biomedical Research Excellence; NMorphCH, Neuromorphometry by Computer Algorithm Chicago; MCIC, MIND Clinical Imaging Consortium; fBIRN, Function Biomedical Informatics Research Network; UCLA, University of California Los Angeles (Consortium for Neuropsychiatric Phenomics LA5c Study).

# **Supplementary Table 2-3.** Site differences in mean cortical thickness before and after ComBat harmonization

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Before | | | | | | After | | | | | |
|  |  | Reference | | Target | | Statistic | | Reference | | Target | | Statistic | |
| Reference | Target | Mean | SD | Mean | SD | t | p | Mean | SD | Mean | SD | t | p |
| AMC | COBRE | 2.438 | 0.419 | 2.393 | 0.351 | 6.952 | <0.001 | 2.477 | 0.385 | 2.434 | 0.364 | 6.911 | <0.001 |
| AMC | NMorphCH | 2.438 | 0.419 | 2.476 | 0.367 | -5.635 | <0.001 | 2.477 | 0.385 | 2.502 | 0.398 | -3.758 | <0.001 |
| AMC | UCLA | 2.438 | 0.419 | 2.413 | 0.325 | 4.107 | <0.001 | 2.477 | 0.385 | 2.436 | 0.386 | 6.456 | <0.001 |
| AMC | JNUH | 2.438 | 0.419 | 2.456 | 0.379 | -2.627 | 0.009 | 2.477 | 0.385 | 2.397 | 0.379 | 12.473 | <0.001 |
| AMC | fBIRN | 2.438 | 0.419 | 2.156 | 0.585 | 33.032 | <0.001 | 2.477 | 0.385 | 2.436 | 0.377 | 6.448 | <0.001 |
| AMC | MCIC | 2.438 | 0.419 | 2.45 | 0.381 | -1.717 | 0.086 | 2.477 | 0.385 | 2.485 | 0.383 | -1.155 | 0.248 |
| COBRE | NMorphCH | 2.449 | 0.376 | 2.477 | 0.36 | -6.238 | <0.001 | 2.487 | 0.393 | 2.503 | 0.39 | -3.361 | 0.001 |
| COBRE | UCLA | 2.431 | 0.371 | 2.459 | 0.321 | -9.222 | <0.001 | 2.47 | 0.386 | 2.484 | 0.378 | -4.383 | <0.001 |
| COBRE | JNUH | 2.431 | 0.371 | 2.496 | 0.379 | -19.635 | <0.001 | 2.47 | 0.386 | 2.437 | 0.379 | 9.624 | <0.001 |
| COBRE | fBIRN | 2.441 | 0.374 | 2.198 | 0.592 | 42.773 | <0.001 | 2.479 | 0.389 | 2.468 | 0.384 | 2.429 | 0.015 |
| COBRE | MCIC | 2.428 | 0.369 | 2.45 | 0.381 | -3.499 | <0.001 | 2.463 | 0.381 | 2.485 | 0.383 | -3.384 | 0.001 |
| NMorphCH | UCLA | 2.477 | 0.36 | 2.442 | 0.327 | 8.37 | <0.001 | 2.503 | 0.39 | 2.468 | 0.387 | 7.452 | <0.001 |
| NMorphCH | JNUH | 2.514 | 0.385 | 2.477 | 0.36 | 8.087 | <0.001 | 2.453 | 0.385 | 2.503 | 0.39 | -10.62 | <0.001 |
| NMorphCH | fBIRN | 2.204 | 0.585 | 2.477 | 0.36 | -45.824 | <0.001 | 2.474 | 0.386 | 2.503 | 0.39 | -6.099 | <0.001 |
| NMorphCH | MCIC | 2.45 | 0.381 | 2.502 | 0.357 | -8.422 | <0.001 | 2.485 | 0.383 | 2.529 | 0.385 | -6.745 | <0.001 |
| UCLA | JNUH | 2.522 | 0.385 | 2.449 | 0.321 | 27.081 | <0.001 | 2.463 | 0.384 | 2.474 | 0.379 | -3.917 | <0.001 |
| UCLA | fBIRN | 2.198 | 0.592 | 2.463 | 0.316 | -48.551 | <0.001 | 2.468 | 0.384 | 2.486 | 0.37 | -4.162 | <0.001 |
| UCLA | MCIC | 2.45 | 0.381 | 2.47 | 0.309 | -3.504 | <0.001 | 2.485 | 0.383 | 2.494 | 0.361 | -1.38 | 0.168 |
| JNUH | fBIRN | 2.198 | 0.592 | 2.468 | 0.376 | -47.409 | <0.001 | 2.468 | 0.384 | 2.413 | 0.376 | 12.532 | <0.001 |
| JNUH | MCIC | 2.497 | 0.395 | 2.45 | 0.381 | 7.118 | <0.001 | 2.434 | 0.398 | 2.485 | 0.383 | -7.691 | <0.001 |
| fBIRN | MCIC | 2.217 | 0.553 | 2.45 | 0.381 | -29.182 | <0.001 | 2.476 | 0.382 | 2.485 | 0.383 | -1.468 | 0.142 |

AMC, Asan Medical Center; JNUH, Jeonbuk National University Hospital; COBRE, Center of Biomedical Research Excellence; NMorphCH, Neuromorphometry by Computer Algorithm Chicago; MCIC, MIND Clinical Imaging Consortium; fBIRN, Function Biomedical Informatics Research Network; UCLA, University of California Los Angeles (Consortium for Neuropsychiatric Phenomics LA5c Study).

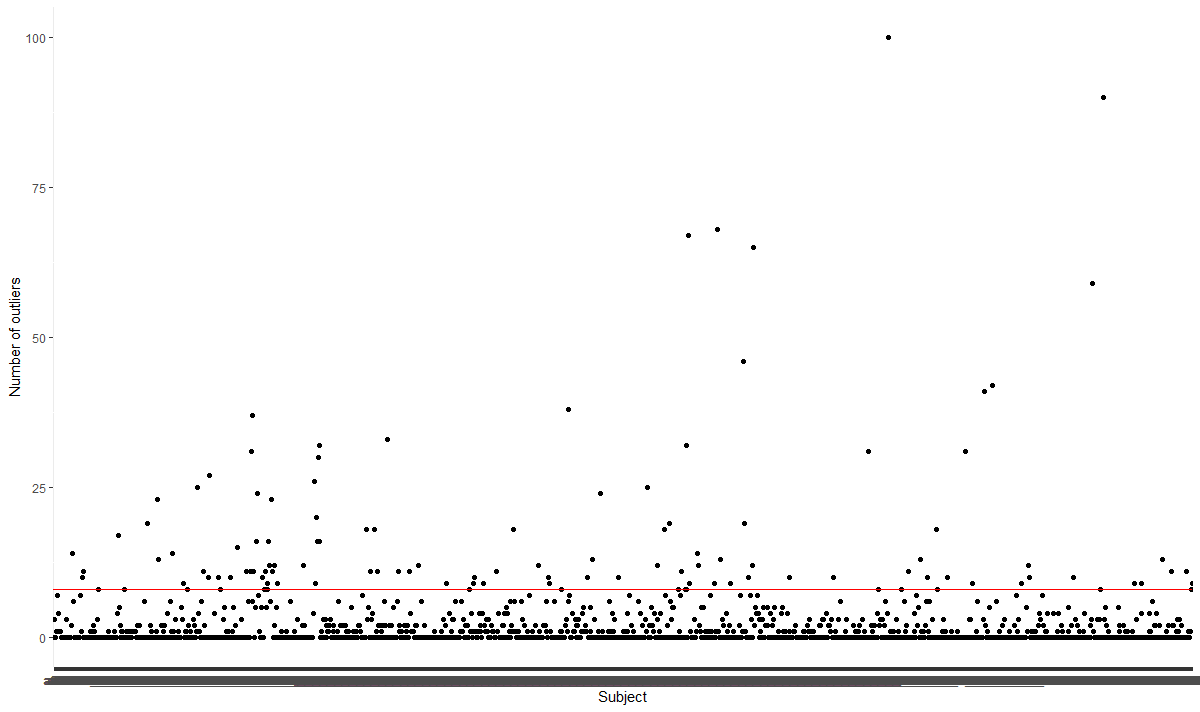
# **Supplementary Table 2-4.** Site differences in mean cortical local gyrification index before and after ComBat harmonization

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Before | | | | | | After | | | | | |
|  |  | Reference | | Target | | Statistic | | Reference | | Target | | Statistic | |
| Reference | Target | Mean | SD | Mean | SD | t | p | Mean | SD | Mean | SD | t | p |
| AMC | COBRE | 3.159 | 0.76 | 3.007 | 0.692 | 12.5 | <0.001 | 3.165 | 0.762 | 3.098 | 0.716 | 5.36 | <0.001 |
| AMC | NMorphCH | 3.159 | 0.76 | 3.12 | 0.726 | 3.142 | 0.002 | 3.165 | 0.762 | 3.172 | 0.759 | -0.539 | 0.59 |
| AMC | UCLA | 3.159 | 0.76 | 3.15 | 0.717 | 0.738 | 0.461 | 3.165 | 0.762 | 3.105 | 0.719 | 4.825 | <0.001 |
| AMC | JNUH | 3.159 | 0.76 | 3.079 | 0.7 | 6.557 | <0.001 | 3.165 | 0.762 | 3.046 | 0.682 | 9.805 | <0.001 |
| AMC | fBIRN | 3.159 | 0.76 | 3.022 | 0.778 | 10.604 | <0.001 | 3.165 | 0.762 | 3.112 | 0.718 | 4.232 | <0.001 |
| AMC | MCIC | 3.159 | 0.76 | 3.07 | 0.704 | 7.287 | <0.001 | 3.165 | 0.762 | 3.126 | 0.726 | 3.127 | 0.002 |
| COBRE | NMorphCH | 3.069 | 0.72 | 3.102 | 0.706 | -3.758 | <0.001 | 3.151 | 0.744 | 3.153 | 0.736 | -0.132 | 0.895 |
| COBRE | UCLA | 3.042 | 0.712 | 3.199 | 0.736 | -24.643 | <0.001 | 3.126 | 0.736 | 3.156 | 0.74 | -4.69 | <0.001 |
| COBRE | JNUH | 3.042 | 0.712 | 3.118 | 0.72 | -12.025 | <0.001 | 3.126 | 0.736 | 3.089 | 0.705 | 5.694 | <0.001 |
| COBRE | fBIRN | 3.055 | 0.713 | 3.001 | 0.792 | 6.234 | <0.001 | 3.136 | 0.737 | 3.124 | 0.736 | 1.451 | 0.147 |
| COBRE | MCIC | 3.043 | 0.704 | 3.07 | 0.704 | -2.29 | 0.022 | 3.123 | 0.726 | 3.126 | 0.726 | -0.223 | 0.823 |
| NMorphCH | UCLA | 3.102 | 0.706 | 3.195 | 0.743 | -10.635 | <0.001 | 3.153 | 0.736 | 3.151 | 0.747 | 0.128 | 0.898 |
| NMorphCH | JNUH | 3.192 | 0.758 | 3.102 | 0.706 | 10.124 | <0.001 | 3.163 | 0.743 | 3.153 | 0.736 | 1.116 | 0.264 |
| NMorphCH | fBIRN | 2.999 | 0.792 | 3.102 | 0.706 | -11.227 | <0.001 | 3.129 | 0.741 | 3.153 | 0.736 | -2.592 | 0.01 |
| NMorphCH | MCIC | 3.07 | 0.704 | 3.133 | 0.722 | -5.295 | <0.001 | 3.126 | 0.726 | 3.184 | 0.754 | -4.674 | <0.001 |
| UCLA | JNUH | 3.176 | 0.757 | 3.187 | 0.732 | -1.968 | 0.049 | 3.143 | 0.742 | 3.143 | 0.736 | -0.042 | 0.966 |
| UCLA | fBIRN | 3.001 | 0.792 | 3.203 | 0.735 | -23.071 | <0.001 | 3.124 | 0.736 | 3.16 | 0.738 | -4.234 | <0.001 |
| UCLA | MCIC | 3.07 | 0.704 | 3.268 | 0.749 | -16.241 | <0.001 | 3.126 | 0.726 | 3.239 | 0.751 | -9.14 | <0.001 |
| JNUH | fBIRN | 3.001 | 0.792 | 3.041 | 0.681 | -4.721 | <0.001 | 3.124 | 0.736 | 3.013 | 0.667 | 13.736 | <0.001 |
| JNUH | MCIC | 3.15 | 0.745 | 3.07 | 0.704 | 6.553 | <0.001 | 3.114 | 0.729 | 3.126 | 0.726 | -0.944 | 0.345 |
| fBIRN | MCIC | 3.038 | 0.737 | 3.07 | 0.704 | -2.646 | 0.008 | 3.138 | 0.728 | 3.126 | 0.726 | 1.055 | 0.291 |

AMC, Asan Medical Center; JNUH, Jeonbuk National University Hospital; COBRE, Center of Biomedical Research Excellence; NMorphCH, Neuromorphometry by Computer Algorithm Chicago; MCIC, MIND Clinical Imaging Consortium; fBIRN, Function Biomedical Informatics Research Network; UCLA.] University of California Los Angeles (Consortium for the Neuropsychiatric Phenomics LA5c Study).



**Supplementary Figure 1. Heatmaps of the site differences in mean cortical measures before and after Combat harmonization.** Orange and blue colors reflect higher and lower *t* values, respectively. AMC, Asan Medical Center; JNUH, Jeonbuk National University Hospital; COBRE, Center of Biomedical Research Excellence; NMorphCH, Neuromorphometry by Computer Algorithm Chicago; MCIC, MIND Clinical Imaging Consortium; fBIRN, Function Biomedical Informatics Research Network; UCLA.], University of California Los Angeles (Consortium for Neuropsychiatric Phenomics LA5c Study).



**Supplementary Figure 2. Scatter plot of the total identified numbers of outliers across four cortical measures and 308 cortical structures.** x-axis indicates each participant and y-axis indicates the total identified numbers of outliers. The red line depicts the cutoff value of 8 (the third quartile + 3 interquartile range).

# **Supplementary Table 3-1.** The coefficients of variation of regional surface area and gray matter volume

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Surface area | | | | Gray matter volume | | | |
| Structure | HC | SPR | p | Adj. pa | HC | SPR | p | Adj. pa |
| Left.bankssts\_part1 | 0.17 | 0.181 | 0.198 | 1 | 0.223 | 0.23 | 0.486 | 1 |
| Left.bankssts\_part2 | 0.192 | 0.206 | 0.11 | 1 | 0.222 | 0.237 | 0.139 | 1 |
| Left.caudalanteriorcingulate\_part1 | 0.181 | 0.181 | 0.998 | 1 | 0.267 | 0.265 | 0.845 | 1 |
| Left.caudalmiddlefrontal\_part1 | 0.201 | 0.219 | 0.061 | 1 | 0.216 | 0.226 | 0.329 | 1 |
| Left.caudalmiddlefrontal\_part2 | 0.189 | 0.197 | 0.364 | 1 | 0.216 | 0.22 | 0.719 | 1 |
| Left.caudalmiddlefrontal\_part3 | 0.188 | 0.194 | 0.51 | 1 | 0.233 | 0.237 | 0.728 | 1 |
| Left.caudalmiddlefrontal\_part4 | 0.204 | 0.218 | 0.153 | 1 | 0.214 | 0.233 | 0.069 | 1 |
| Left.cuneus\_part1 | 0.153 | 0.169 | 0.031 | 1 | 0.193 | 0.208 | 0.097 | 1 |
| Left.cuneus\_part2 | 0.146 | 0.162 | 0.027 | 1 | 0.184 | 0.207 | 0.014 | 1 |
| Left.entorhinal\_part1 | 0.186 | 0.192 | 0.477 | 1 | 0.267 | 0.264 | 0.818 | 1 |
| Left.frontalpole\_part1 | 0.129 | 0.134 | 0.389 | 1 | 0.174 | 0.187 | 0.135 | 1 |
| Left.fusiform\_part1 | 0.157 | 0.16 | 0.683 | 1 | 0.193 | 0.193 | 0.959 | 1 |
| Left.fusiform\_part2 | 0.163 | 0.167 | 0.558 | 1 | 0.193 | 0.206 | 0.165 | 1 |
| Left.fusiform\_part3 | 0.169 | 0.175 | 0.439 | 1 | 0.205 | 0.216 | 0.248 | 1 |
| Left.fusiform\_part4 | 0.154 | 0.162 | 0.213 | 1 | 0.179 | 0.194 | 0.079 | 1 |
| Left.fusiform\_part5 | 0.178 | 0.183 | 0.54 | 1 | 0.223 | 0.23 | 0.479 | 1 |
| Left.inferiorparietal\_part1 | 0.209 | 0.215 | 0.564 | 1 | 0.23 | 0.25 | 0.075 | 1 |
| Left.inferiorparietal\_part2 | 0.2 | 0.194 | 0.512 | 1 | 0.233 | 0.226 | 0.477 | 1 |
| Left.inferiorparietal\_part3 | 0.185 | 0.203 | 0.052 | 1 | 0.22 | 0.247 | 0.012 | 1 |
| Left.inferiorparietal\_part4 | 0.192 | 0.189 | 0.717 | 1 | 0.207 | 0.2 | 0.444 | 1 |
| Left.inferiorparietal\_part5 | 0.233 | 0.223 | 0.329 | 1 | 0.279 | 0.276 | 0.785 | 1 |
| Left.inferiorparietal\_part6 | 0.186 | 0.181 | 0.487 | 1 | 0.2 | 0.212 | 0.203 | 1 |
| Left.inferiorparietal\_part7 | 0.224 | 0.21 | 0.17 | 1 | 0.238 | 0.229 | 0.425 | 1 |
| Left.inferiorparietal\_part8 | 0.209 | 0.212 | 0.757 | 1 | 0.234 | 0.245 | 0.311 | 1 |
| Left.inferiortemporal\_part1 | 0.168 | 0.178 | 0.202 | 1 | 0.2 | 0.216 | 0.087 | 1 |
| Left.inferiortemporal\_part2 | 0.199 | 0.201 | 0.859 | 1 | 0.281 | 0.288 | 0.643 | 1 |
| Left.inferiortemporal\_part3 | 0.186 | 0.198 | 0.185 | 1 | 0.226 | 0.241 | 0.177 | 1 |
| Left.inferiortemporal\_part4 | 0.203 | 0.204 | 0.876 | 1 | 0.254 | 0.262 | 0.482 | 1 |
| Left.inferiortemporal\_part5 | 0.198 | 0.202 | 0.605 | 1 | 0.24 | 0.234 | 0.571 | 1 |
| Left.inferiortemporal\_part6 | 0.191 | 0.197 | 0.478 | 1 | 0.227 | 0.244 | 0.131 | 1 |
| Left.insula\_part1 | 0.115 | 0.12 | 0.364 | 1 | 0.144 | 0.154 | 0.131 | 1 |
| Left.insula\_part2 | 0.191 | 0.217 | 0.006 | 1 | 0.166 | 0.184 | 0.026 | 1 |
| Left.insula\_part3 | 0.133 | 0.141 | 0.203 | 1 | 0.148 | 0.162 | 0.041 | 1 |
| Left.insula\_part4 | 0.129 | 0.154 | <0.001 | 0.042 | 0.141 | 0.166 | <0.001 | 0.118 |
| Left.isthmuscingulate\_part1 | 0.167 | 0.164 | 0.701 | 1 | 0.202 | 0.204 | 0.866 | 1 |
| Left.isthmuscingulate\_part2 | 0.186 | 0.189 | 0.682 | 1 | 0.231 | 0.236 | 0.623 | 1 |
| Left.lateraloccipital\_part1 | 0.195 | 0.19 | 0.592 | 1 | 0.237 | 0.224 | 0.229 | 1 |
| Left.lateraloccipital\_part2 | 0.174 | 0.175 | 0.873 | 1 | 0.208 | 0.216 | 0.375 | 1 |
| Left.lateraloccipital\_part3 | 0.168 | 0.171 | 0.662 | 1 | 0.198 | 0.217 | 0.042 | 1 |
| Left.lateraloccipital\_part4 | 0.206 | 0.2 | 0.481 | 1 | 0.24 | 0.228 | 0.273 | 1 |
| Left.lateraloccipital\_part5 | 0.151 | 0.163 | 0.089 | 1 | 0.191 | 0.21 | 0.031 | 1 |
| Left.lateraloccipital\_part6 | 0.166 | 0.168 | 0.74 | 1 | 0.231 | 0.233 | 0.86 | 1 |
| Left.lateraloccipital\_part7 | 0.21 | 0.19 | 0.03 | 1 | 0.243 | 0.234 | 0.382 | 1 |
| Left.lateraloccipital\_part8 | 0.152 | 0.151 | 0.825 | 1 | 0.202 | 0.214 | 0.205 | 1 |
| Left.lateraloccipital\_part9 | 0.194 | 0.185 | 0.295 | 1 | 0.204 | 0.211 | 0.462 | 1 |
| Left.lateralorbitofrontal\_part1 | 0.131 | 0.145 | 0.024 | 1 | 0.161 | 0.162 | 0.879 | 1 |
| Left.lateralorbitofrontal\_part2 | 0.163 | 0.182 | 0.015 | 1 | 0.185 | 0.204 | 0.041 | 1 |
| Left.lateralorbitofrontal\_part3 | 0.147 | 0.155 | 0.249 | 1 | 0.166 | 0.182 | 0.055 | 1 |
| Left.lateralorbitofrontal\_part4 | 0.13 | 0.15 | 0.002 | 0.503 | 0.162 | 0.178 | 0.039 | 1 |
| Left.lingual\_part1 | 0.172 | 0.179 | 0.389 | 1 | 0.25 | 0.246 | 0.76 | 1 |
| Left.lingual\_part2 | 0.154 | 0.172 | 0.013 | 1 | 0.225 | 0.242 | 0.108 | 1 |
| Left.lingual\_part3 | 0.165 | 0.166 | 0.934 | 1 | 0.209 | 0.211 | 0.798 | 1 |
| Left.lingual\_part4 | 0.159 | 0.173 | 0.073 | 1 | 0.2 | 0.21 | 0.283 | 1 |
| Left.lingual\_part5 | 0.224 | 0.221 | 0.753 | 1 | 0.261 | 0.251 | 0.421 | 1 |
| Left.lingual\_part6 | 0.166 | 0.171 | 0.568 | 1 | 0.244 | 0.245 | 0.944 | 1 |
| Left.medialorbitofrontal\_part1 | 0.134 | 0.15 | 0.015 | 1 | 0.168 | 0.178 | 0.172 | 1 |
| Left.medialorbitofrontal\_part2 | 0.135 | 0.143 | 0.243 | 1 | 0.171 | 0.172 | 0.822 | 1 |
| Left.medialorbitofrontal\_part3 | 0.136 | 0.147 | 0.085 | 1 | 0.166 | 0.178 | 0.123 | 1 |
| Left.middletemporal\_part1 | 0.164 | 0.178 | 0.079 | 1 | 0.199 | 0.213 | 0.125 | 1 |
| Left.middletemporal\_part2 | 0.2 | 0.214 | 0.152 | 1 | 0.23 | 0.254 | 0.035 | 1 |
| Left.middletemporal\_part3 | 0.152 | 0.166 | 0.052 | 1 | 0.209 | 0.219 | 0.316 | 1 |
| Left.middletemporal\_part4 | 0.174 | 0.193 | 0.027 | 1 | 0.203 | 0.22 | 0.079 | 1 |
| Left.middletemporal\_part5 | 0.183 | 0.192 | 0.306 | 1 | 0.217 | 0.234 | 0.094 | 1 |
| Left.paracentral\_part1 | 0.15 | 0.16 | 0.123 | 1 | 0.181 | 0.201 | 0.027 | 1 |
| Left.paracentral\_part2 | 0.154 | 0.168 | 0.061 | 1 | 0.194 | 0.209 | 0.105 | 1 |
| Left.paracentral\_part3 | 0.153 | 0.163 | 0.169 | 1 | 0.192 | 0.188 | 0.634 | 1 |
| Left.parahippocampal\_part1 | 0.16 | 0.171 | 0.111 | 1 | 0.236 | 0.252 | 0.149 | 1 |
| Left.parahippocampal\_part2 | 0.137 | 0.148 | 0.092 | 1 | 0.183 | 0.198 | 0.07 | 1 |
| Left.parsopercularis\_part1 | 0.212 | 0.213 | 0.943 | 1 | 0.237 | 0.238 | 0.873 | 1 |
| Left.parsopercularis\_part2 | 0.153 | 0.155 | 0.729 | 1 | 0.188 | 0.195 | 0.418 | 1 |
| Left.parsopercularis\_part3 | 0.198 | 0.197 | 0.855 | 1 | 0.239 | 0.231 | 0.491 | 1 |
| Left.parsorbitalis\_part1 | 0.148 | 0.162 | 0.045 | 1 | 0.179 | 0.189 | 0.239 | 1 |
| Left.parstriangularis\_part1 | 0.206 | 0.213 | 0.484 | 1 | 0.23 | 0.234 | 0.693 | 1 |
| Left.parstriangularis\_part2 | 0.149 | 0.166 | 0.019 | 1 | 0.198 | 0.218 | 0.033 | 1 |
| Left.pericalcarine\_part1 | 0.175 | 0.197 | 0.011 | 1 | 0.223 | 0.241 | 0.083 | 1 |
| Left.pericalcarine\_part2 | 0.186 | 0.207 | 0.018 | 1 | 0.238 | 0.256 | 0.13 | 1 |
| Left.postcentral\_part1 | 0.14 | 0.159 | 0.006 | 1 | 0.195 | 0.209 | 0.132 | 1 |
| Left.postcentral\_part2 | 0.157 | 0.167 | 0.162 | 1 | 0.192 | 0.196 | 0.654 | 1 |
| Left.postcentral\_part3 | 0.181 | 0.193 | 0.155 | 1 | 0.249 | 0.245 | 0.707 | 1 |
| Left.postcentral\_part4 | 0.169 | 0.177 | 0.26 | 1 | 0.197 | 0.201 | 0.69 | 1 |
| Left.postcentral\_part5 | 0.187 | 0.191 | 0.617 | 1 | 0.25 | 0.25 | 0.972 | 1 |
| Left.postcentral\_part6 | 0.17 | 0.177 | 0.346 | 1 | 0.243 | 0.257 | 0.221 | 1 |
| Left.postcentral\_part7 | 0.207 | 0.206 | 0.908 | 1 | 0.256 | 0.259 | 0.854 | 1 |
| Left.postcentral\_part8 | 0.188 | 0.183 | 0.537 | 1 | 0.264 | 0.257 | 0.593 | 1 |
| Left.posteriorcingulate\_part1 | 0.153 | 0.165 | 0.091 | 1 | 0.177 | 0.197 | 0.016 | 1 |
| Left.posteriorcingulate\_part2 | 0.153 | 0.167 | 0.045 | 1 | 0.226 | 0.251 | 0.022 | 1 |
| Left.precentral\_part1 | 0.153 | 0.159 | 0.405 | 1 | 0.194 | 0.201 | 0.435 | 1 |
| Left.precentral\_part2 | 0.159 | 0.164 | 0.494 | 1 | 0.202 | 0.206 | 0.739 | 1 |
| Left.precentral\_part3 | 0.162 | 0.153 | 0.221 | 1 | 0.187 | 0.187 | 0.956 | 1 |
| Left.precentral\_part4 | 0.212 | 0.203 | 0.332 | 1 | 0.232 | 0.226 | 0.602 | 1 |
| Left.precentral\_part5 | 0.188 | 0.214 | 0.006 | 1 | 0.222 | 0.24 | 0.103 | 1 |
| Left.precentral\_part6 | 0.166 | 0.182 | 0.038 | 1 | 0.199 | 0.215 | 0.091 | 1 |
| Left.precentral\_part7 | 0.176 | 0.181 | 0.61 | 1 | 0.205 | 0.21 | 0.615 | 1 |
| Left.precentral\_part8 | 0.178 | 0.179 | 0.903 | 1 | 0.2 | 0.2 | 0.999 | 1 |
| Left.precentral\_part9 | 0.167 | 0.165 | 0.836 | 1 | 0.204 | 0.201 | 0.791 | 1 |
| Left.precuneus\_part1 | 0.164 | 0.172 | 0.318 | 1 | 0.196 | 0.205 | 0.352 | 1 |
| Left.precuneus\_part2 | 0.194 | 0.215 | 0.027 | 1 | 0.255 | 0.264 | 0.467 | 1 |
| Left.precuneus\_part3 | 0.191 | 0.201 | 0.264 | 1 | 0.205 | 0.215 | 0.294 | 1 |
| Left.precuneus\_part4 | 0.197 | 0.202 | 0.646 | 1 | 0.234 | 0.239 | 0.648 | 1 |
| Left.precuneus\_part5 | 0.166 | 0.178 | 0.149 | 1 | 0.19 | 0.196 | 0.455 | 1 |
| Left.precuneus\_part6 | 0.24 | 0.246 | 0.59 | 1 | 0.252 | 0.264 | 0.308 | 1 |
| Left.precuneus\_part7 | 0.199 | 0.201 | 0.78 | 1 | 0.208 | 0.208 | 0.933 | 1 |
| Left.rostralanteriorcingulate\_part1 | 0.153 | 0.173 | 0.009 | 1 | 0.185 | 0.206 | 0.021 | 1 |
| Left.rostralmiddlefrontal\_part1 | 0.223 | 0.237 | 0.189 | 1 | 0.268 | 0.29 | 0.097 | 1 |
| Left.rostralmiddlefrontal\_part10 | 0.187 | 0.197 | 0.235 | 1 | 0.225 | 0.226 | 0.916 | 1 |
| Left.rostralmiddlefrontal\_part2 | 0.178 | 0.196 | 0.035 | 1 | 0.203 | 0.223 | 0.049 | 1 |
| Left.rostralmiddlefrontal\_part3 | 0.246 | 0.246 | 0.994 | 1 | 0.283 | 0.28 | 0.822 | 1 |
| Left.rostralmiddlefrontal\_part4 | 0.138 | 0.154 | 0.013 | 1 | 0.175 | 0.184 | 0.269 | 1 |
| Left.rostralmiddlefrontal\_part5 | 0.201 | 0.209 | 0.395 | 1 | 0.228 | 0.243 | 0.183 | 1 |
| Left.rostralmiddlefrontal\_part6 | 0.154 | 0.165 | 0.124 | 1 | 0.185 | 0.193 | 0.317 | 1 |
| Left.rostralmiddlefrontal\_part7 | 0.212 | 0.224 | 0.227 | 1 | 0.239 | 0.255 | 0.155 | 1 |
| Left.rostralmiddlefrontal\_part8 | 0.173 | 0.184 | 0.172 | 1 | 0.19 | 0.201 | 0.249 | 1 |
| Left.rostralmiddlefrontal\_part9 | 0.214 | 0.222 | 0.427 | 1 | 0.238 | 0.251 | 0.26 | 1 |
| Left.superiorfrontal\_part1 | 0.133 | 0.144 | 0.091 | 1 | 0.152 | 0.163 | 0.127 | 1 |
| Left.superiorfrontal\_part10 | 0.176 | 0.183 | 0.351 | 1 | 0.203 | 0.211 | 0.396 | 1 |
| Left.superiorfrontal\_part11 | 0.214 | 0.216 | 0.888 | 1 | 0.22 | 0.224 | 0.655 | 1 |
| Left.superiorfrontal\_part12 | 0.201 | 0.208 | 0.474 | 1 | 0.213 | 0.205 | 0.418 | 1 |
| Left.superiorfrontal\_part13 | 0.16 | 0.166 | 0.377 | 1 | 0.182 | 0.183 | 0.877 | 1 |
| Left.superiorfrontal\_part2 | 0.181 | 0.182 | 0.899 | 1 | 0.189 | 0.193 | 0.596 | 1 |
| Left.superiorfrontal\_part3 | 0.145 | 0.157 | 0.075 | 1 | 0.175 | 0.187 | 0.16 | 1 |
| Left.superiorfrontal\_part4 | 0.187 | 0.203 | 0.089 | 1 | 0.213 | 0.231 | 0.08 | 1 |
| Left.superiorfrontal\_part5 | 0.147 | 0.152 | 0.429 | 1 | 0.151 | 0.161 | 0.165 | 1 |
| Left.superiorfrontal\_part6 | 0.166 | 0.173 | 0.358 | 1 | 0.196 | 0.208 | 0.19 | 1 |
| Left.superiorfrontal\_part7 | 0.164 | 0.166 | 0.824 | 1 | 0.193 | 0.191 | 0.834 | 1 |
| Left.superiorfrontal\_part8 | 0.173 | 0.176 | 0.684 | 1 | 0.178 | 0.179 | 0.862 | 1 |
| Left.superiorfrontal\_part9 | 0.17 | 0.183 | 0.113 | 1 | 0.174 | 0.189 | 0.078 | 1 |
| Left.superiorparietal\_part1 | 0.312 | 0.346 | 0.033 | 1 | 0.384 | 0.438 | 0.011 | 1 |
| Left.superiorparietal\_part10 | 0.183 | 0.18 | 0.703 | 1 | 0.203 | 0.219 | 0.082 | 1 |
| Left.superiorparietal\_part2 | 0.164 | 0.176 | 0.118 | 1 | 0.2 | 0.218 | 0.062 | 1 |
| Left.superiorparietal\_part3 | 0.267 | 0.283 | 0.22 | 1 | 0.307 | 0.316 | 0.55 | 1 |
| Left.superiorparietal\_part4 | 0.247 | 0.243 | 0.689 | 1 | 0.311 | 0.309 | 0.89 | 1 |
| Left.superiorparietal\_part5 | 0.23 | 0.217 | 0.223 | 1 | 0.284 | 0.276 | 0.509 | 1 |
| Left.superiorparietal\_part6 | 0.177 | 0.192 | 0.067 | 1 | 0.208 | 0.23 | 0.029 | 1 |
| Left.superiorparietal\_part7 | 0.222 | 0.246 | 0.027 | 1 | 0.251 | 0.268 | 0.175 | 1 |
| Left.superiorparietal\_part8 | 0.177 | 0.189 | 0.142 | 1 | 0.202 | 0.216 | 0.127 | 1 |
| Left.superiorparietal\_part9 | 0.198 | 0.188 | 0.25 | 1 | 0.251 | 0.227 | 0.028 | 1 |
| Left.superiortemporal\_part1 | 0.186 | 0.185 | 0.961 | 1 | 0.21 | 0.219 | 0.379 | 1 |
| Left.superiortemporal\_part2 | 0.152 | 0.165 | 0.069 | 1 | 0.17 | 0.176 | 0.426 | 1 |
| Left.superiortemporal\_part3 | 0.203 | 0.202 | 0.946 | 1 | 0.217 | 0.219 | 0.884 | 1 |
| Left.superiortemporal\_part4 | 0.152 | 0.165 | 0.068 | 1 | 0.194 | 0.2 | 0.467 | 1 |
| Left.superiortemporal\_part5 | 0.177 | 0.179 | 0.763 | 1 | 0.216 | 0.22 | 0.666 | 1 |
| Left.superiortemporal\_part6 | 0.166 | 0.172 | 0.433 | 1 | 0.208 | 0.203 | 0.592 | 1 |
| Left.superiortemporal\_part7 | 0.152 | 0.163 | 0.113 | 1 | 0.202 | 0.205 | 0.695 | 1 |
| Left.supramarginal\_part1 | 0.217 | 0.223 | 0.552 | 1 | 0.261 | 0.278 | 0.181 | 1 |
| Left.supramarginal\_part2 | 0.189 | 0.186 | 0.737 | 1 | 0.202 | 0.203 | 0.925 | 1 |
| Left.supramarginal\_part3 | 0.246 | 0.257 | 0.348 | 1 | 0.24 | 0.252 | 0.276 | 1 |
| Left.supramarginal\_part4 | 0.226 | 0.225 | 0.932 | 1 | 0.262 | 0.256 | 0.66 | 1 |
| Left.supramarginal\_part5 | 0.235 | 0.236 | 0.873 | 1 | 0.262 | 0.254 | 0.459 | 1 |
| Left.supramarginal\_part6 | 0.212 | 0.217 | 0.546 | 1 | 0.239 | 0.254 | 0.214 | 1 |
| Left.supramarginal\_part7 | 0.207 | 0.209 | 0.836 | 1 | 0.242 | 0.258 | 0.159 | 1 |
| Left.temporalpole\_part1 | 0.137 | 0.154 | 0.009 | 1 | 0.155 | 0.172 | 0.024 | 1 |
| Left.transversetemporal\_part1 | 0.172 | 0.175 | 0.726 | 1 | 0.207 | 0.218 | 0.244 | 1 |
| Right.bankssts\_part1 | 0.147 | 0.155 | 0.213 | 1 | 0.18 | 0.188 | 0.353 | 1 |
| Right.bankssts\_part2 | 0.167 | 0.175 | 0.289 | 1 | 0.192 | 0.201 | 0.307 | 1 |
| Right.caudalanteriorcingulate\_part1 | 0.178 | 0.186 | 0.33 | 1 | 0.231 | 0.243 | 0.281 | 1 |
| Right.caudalmiddlefrontal\_part1 | 0.192 | 0.199 | 0.407 | 1 | 0.223 | 0.227 | 0.704 | 1 |
| Right.caudalmiddlefrontal\_part2 | 0.2 | 0.207 | 0.44 | 1 | 0.22 | 0.233 | 0.207 | 1 |
| Right.caudalmiddlefrontal\_part3 | 0.219 | 0.22 | 0.963 | 1 | 0.243 | 0.245 | 0.879 | 1 |
| Right.caudalmiddlefrontal\_part4 | 0.196 | 0.199 | 0.693 | 1 | 0.228 | 0.231 | 0.826 | 1 |
| Right.cuneus\_part1 | 0.16 | 0.161 | 0.918 | 1 | 0.201 | 0.206 | 0.608 | 1 |
| Right.cuneus\_part2 | 0.163 | 0.185 | 0.005 | 1 | 0.233 | 0.25 | 0.127 | 1 |
| Right.cuneus\_part3 | 0.137 | 0.15 | 0.041 | 1 | 0.179 | 0.19 | 0.181 | 1 |
| Right.entorhinal\_part1 | 0.173 | 0.174 | 0.895 | 1 | 0.237 | 0.215 | 0.037 | 1 |
| Right.frontalpole\_part1 | 0.132 | 0.134 | 0.719 | 1 | 0.172 | 0.173 | 0.9 | 1 |
| Right.fusiform\_part1 | 0.152 | 0.169 | 0.024 | 1 | 0.183 | 0.195 | 0.165 | 1 |
| Right.fusiform\_part2 | 0.162 | 0.171 | 0.256 | 1 | 0.2 | 0.221 | 0.031 | 1 |
| Right.fusiform\_part3 | 0.173 | 0.19 | 0.044 | 1 | 0.21 | 0.221 | 0.269 | 1 |
| Right.fusiform\_part4 | 0.152 | 0.159 | 0.281 | 1 | 0.175 | 0.177 | 0.714 | 1 |
| Right.fusiform\_part5 | 0.16 | 0.173 | 0.073 | 1 | 0.184 | 0.202 | 0.043 | 1 |
| Right.inferiorparietal\_part1 | 0.227 | 0.242 | 0.187 | 1 | 0.301 | 0.325 | 0.108 | 1 |
| Right.inferiorparietal\_part10 | 0.222 | 0.227 | 0.669 | 1 | 0.241 | 0.251 | 0.363 | 1 |
| Right.inferiorparietal\_part2 | 0.198 | 0.203 | 0.586 | 1 | 0.226 | 0.227 | 0.913 | 1 |
| Right.inferiorparietal\_part3 | 0.211 | 0.211 | 0.961 | 1 | 0.235 | 0.232 | 0.746 | 1 |
| Right.inferiorparietal\_part4 | 0.194 | 0.197 | 0.73 | 1 | 0.21 | 0.222 | 0.216 | 1 |
| Right.inferiorparietal\_part5 | 0.217 | 0.204 | 0.168 | 1 | 0.263 | 0.259 | 0.718 | 1 |
| Right.inferiorparietal\_part6 | 0.246 | 0.235 | 0.322 | 1 | 0.275 | 0.277 | 0.878 | 1 |
| Right.inferiorparietal\_part7 | 0.224 | 0.22 | 0.654 | 1 | 0.248 | 0.259 | 0.361 | 1 |
| Right.inferiorparietal\_part8 | 0.197 | 0.201 | 0.679 | 1 | 0.211 | 0.222 | 0.282 | 1 |
| Right.inferiorparietal\_part9 | 0.198 | 0.186 | 0.173 | 1 | 0.23 | 0.224 | 0.542 | 1 |
| Right.inferiortemporal\_part1 | 0.168 | 0.184 | 0.045 | 1 | 0.185 | 0.202 | 0.061 | 1 |
| Right.inferiortemporal\_part2 | 0.193 | 0.196 | 0.715 | 1 | 0.258 | 0.263 | 0.661 | 1 |
| Right.inferiortemporal\_part3 | 0.18 | 0.186 | 0.476 | 1 | 0.2 | 0.214 | 0.165 | 1 |
| Right.inferiortemporal\_part4 | 0.191 | 0.191 | 0.946 | 1 | 0.242 | 0.245 | 0.736 | 1 |
| Right.inferiortemporal\_part5 | 0.181 | 0.181 | 0.985 | 1 | 0.207 | 0.215 | 0.382 | 1 |
| Right.insula\_part1 | 0.196 | 0.209 | 0.164 | 1 | 0.168 | 0.19 | 0.008 | 1 |
| Right.insula\_part2 | 0.111 | 0.111 | 0.979 | 1 | 0.132 | 0.131 | 0.836 | 1 |
| Right.insula\_part3 | 0.148 | 0.152 | 0.634 | 1 | 0.152 | 0.159 | 0.357 | 1 |
| Right.insula\_part4 | 0.139 | 0.147 | 0.181 | 1 | 0.145 | 0.158 | 0.057 | 1 |
| Right.isthmuscingulate\_part1 | 0.182 | 0.197 | 0.083 | 1 | 0.229 | 0.25 | 0.067 | 1 |
| Right.isthmuscingulate\_part2 | 0.184 | 0.186 | 0.826 | 1 | 0.218 | 0.24 | 0.042 | 1 |
| Right.lateraloccipital\_part1 | 0.144 | 0.159 | 0.027 | 1 | 0.184 | 0.205 | 0.021 | 1 |
| Right.lateraloccipital\_part2 | 0.192 | 0.183 | 0.253 | 1 | 0.194 | 0.199 | 0.607 | 1 |
| Right.lateraloccipital\_part3 | 0.162 | 0.18 | 0.016 | 1 | 0.184 | 0.206 | 0.013 | 1 |
| Right.lateraloccipital\_part4 | 0.184 | 0.194 | 0.21 | 1 | 0.224 | 0.249 | 0.029 | 1 |
| Right.lateraloccipital\_part5 | 0.167 | 0.175 | 0.33 | 1 | 0.193 | 0.215 | 0.018 | 1 |
| Right.lateraloccipital\_part6 | 0.199 | 0.204 | 0.578 | 1 | 0.246 | 0.247 | 0.892 | 1 |
| Right.lateraloccipital\_part7 | 0.157 | 0.169 | 0.086 | 1 | 0.221 | 0.228 | 0.485 | 1 |
| Right.lateraloccipital\_part8 | 0.169 | 0.181 | 0.137 | 1 | 0.199 | 0.215 | 0.111 | 1 |
| Right.lateraloccipital\_part9 | 0.189 | 0.189 | 0.974 | 1 | 0.203 | 0.213 | 0.322 | 1 |
| Right.lateralorbitofrontal\_part1 | 0.177 | 0.199 | 0.011 | 1 | 0.18 | 0.196 | 0.064 | 1 |
| Right.lateralorbitofrontal\_part2 | 0.149 | 0.149 | 0.971 | 1 | 0.16 | 0.166 | 0.419 | 1 |
| Right.lateralorbitofrontal\_part3 | 0.138 | 0.152 | 0.031 | 1 | 0.165 | 0.169 | 0.571 | 1 |
| Right.lateralorbitofrontal\_part4 | 0.167 | 0.167 | 0.968 | 1 | 0.168 | 0.171 | 0.702 | 1 |
| Right.lingual\_part1 | 0.204 | 0.206 | 0.769 | 1 | 0.223 | 0.231 | 0.47 | 1 |
| Right.lingual\_part2 | 0.156 | 0.175 | 0.017 | 1 | 0.221 | 0.233 | 0.256 | 1 |
| Right.lingual\_part3 | 0.165 | 0.186 | 0.009 | 1 | 0.227 | 0.247 | 0.072 | 1 |
| Right.lingual\_part4 | 0.153 | 0.176 | 0.003 | 0.918 | 0.208 | 0.221 | 0.201 | 1 |
| Right.lingual\_part5 | 0.203 | 0.218 | 0.139 | 1 | 0.239 | 0.248 | 0.429 | 1 |
| Right.lingual\_part6 | 0.151 | 0.166 | 0.035 | 1 | 0.219 | 0.241 | 0.045 | 1 |
| Right.medialorbitofrontal\_part1 | 0.134 | 0.132 | 0.721 | 1 | 0.161 | 0.158 | 0.667 | 1 |
| Right.medialorbitofrontal\_part2 | 0.155 | 0.167 | 0.106 | 1 | 0.17 | 0.176 | 0.412 | 1 |
| Right.medialorbitofrontal\_part3 | 0.144 | 0.142 | 0.799 | 1 | 0.159 | 0.179 | 0.01 | 1 |
| Right.middletemporal\_part1 | 0.158 | 0.17 | 0.098 | 1 | 0.203 | 0.217 | 0.131 | 1 |
| Right.middletemporal\_part2 | 0.168 | 0.175 | 0.361 | 1 | 0.202 | 0.217 | 0.122 | 1 |
| Right.middletemporal\_part3 | 0.17 | 0.179 | 0.25 | 1 | 0.197 | 0.209 | 0.198 | 1 |
| Right.middletemporal\_part4 | 0.203 | 0.208 | 0.588 | 1 | 0.252 | 0.254 | 0.877 | 1 |
| Right.middletemporal\_part5 | 0.173 | 0.177 | 0.586 | 1 | 0.193 | 0.2 | 0.446 | 1 |
| Right.middletemporal\_part6 | 0.158 | 0.179 | 0.007 | 1 | 0.197 | 0.206 | 0.296 | 1 |
| Right.paracentral\_part1 | 0.15 | 0.163 | 0.052 | 1 | 0.202 | 0.208 | 0.504 | 1 |
| Right.paracentral\_part2 | 0.19 | 0.192 | 0.769 | 1 | 0.205 | 0.208 | 0.738 | 1 |
| Right.paracentral\_part3 | 0.158 | 0.158 | 0.935 | 1 | 0.188 | 0.182 | 0.477 | 1 |
| Right.parahippocampal\_part1 | 0.152 | 0.17 | 0.012 | 1 | 0.2 | 0.222 | 0.02 | 1 |
| Right.parahippocampal\_part2 | 0.141 | 0.156 | 0.023 | 1 | 0.182 | 0.182 | 0.961 | 1 |
| Right.parsopercularis\_part1 | 0.155 | 0.161 | 0.391 | 1 | 0.193 | 0.198 | 0.609 | 1 |
| Right.parsopercularis\_part2 | 0.207 | 0.214 | 0.497 | 1 | 0.224 | 0.235 | 0.269 | 1 |
| Right.parsopercularis\_part3 | 0.205 | 0.204 | 0.974 | 1 | 0.253 | 0.262 | 0.449 | 1 |
| Right.parsorbitalis\_part1 | 0.146 | 0.154 | 0.219 | 1 | 0.167 | 0.173 | 0.41 | 1 |
| Right.parstriangularis\_part1 | 0.184 | 0.208 | 0.007 | 1 | 0.204 | 0.232 | 0.005 | 1 |
| Right.parstriangularis\_part2 | 0.17 | 0.185 | 0.051 | 1 | 0.221 | 0.24 | 0.068 | 1 |
| Right.parstriangularis\_part3 | 0.207 | 0.221 | 0.154 | 1 | 0.221 | 0.23 | 0.373 | 1 |
| Right.pericalcarine\_part1 | 0.182 | 0.2 | 0.037 | 1 | 0.23 | 0.249 | 0.098 | 1 |
| Right.pericalcarine\_part2 | 0.177 | 0.199 | 0.014 | 1 | 0.242 | 0.249 | 0.552 | 1 |
| Right.pericalcarine\_part3 | 0.162 | 0.183 | 0.01 | 1 | 0.207 | 0.232 | 0.017 | 1 |
| Right.postcentral\_part1 | 0.167 | 0.183 | 0.036 | 1 | 0.237 | 0.248 | 0.324 | 1 |
| Right.postcentral\_part2 | 0.154 | 0.153 | 0.873 | 1 | 0.183 | 0.178 | 0.522 | 1 |
| Right.postcentral\_part3 | 0.202 | 0.213 | 0.27 | 1 | 0.283 | 0.294 | 0.425 | 1 |
| Right.postcentral\_part4 | 0.149 | 0.157 | 0.223 | 1 | 0.178 | 0.181 | 0.78 | 1 |
| Right.postcentral\_part5 | 0.221 | 0.234 | 0.207 | 1 | 0.284 | 0.304 | 0.155 | 1 |
| Right.postcentral\_part6 | 0.193 | 0.195 | 0.807 | 1 | 0.244 | 0.257 | 0.258 | 1 |
| Right.postcentral\_part7 | 0.185 | 0.208 | 0.011 | 1 | 0.252 | 0.253 | 0.942 | 1 |
| Right.postcentral\_part8 | 0.188 | 0.199 | 0.19 | 1 | 0.257 | 0.263 | 0.593 | 1 |
| Right.posteriorcingulate\_part1 | 0.167 | 0.166 | 0.885 | 1 | 0.213 | 0.211 | 0.849 | 1 |
| Right.posteriorcingulate\_part2 | 0.162 | 0.157 | 0.448 | 1 | 0.205 | 0.224 | 0.051 | 1 |
| Right.precentral\_part1 | 0.169 | 0.172 | 0.669 | 1 | 0.203 | 0.205 | 0.788 | 1 |
| Right.precentral\_part2 | 0.183 | 0.231 | <0.001 | <0.001 | 0.215 | 0.239 | 0.027 | 1 |
| Right.precentral\_part3 | 0.22 | 0.216 | 0.707 | 1 | 0.238 | 0.24 | 0.811 | 1 |
| Right.precentral\_part4 | 0.229 | 0.267 | 0.001 | 0.394 | 0.253 | 0.272 | 0.124 | 1 |
| Right.precentral\_part5 | 0.161 | 0.168 | 0.358 | 1 | 0.192 | 0.203 | 0.216 | 1 |
| Right.precentral\_part6 | 0.195 | 0.212 | 0.071 | 1 | 0.231 | 0.248 | 0.117 | 1 |
| Right.precentral\_part7 | 0.164 | 0.183 | 0.018 | 1 | 0.19 | 0.203 | 0.147 | 1 |
| Right.precentral\_part8 | 0.161 | 0.168 | 0.346 | 1 | 0.217 | 0.225 | 0.408 | 1 |
| Right.precentral\_part9 | 0.192 | 0.195 | 0.745 | 1 | 0.237 | 0.244 | 0.534 | 1 |
| Right.precuneus\_part1 | 0.164 | 0.18 | 0.053 | 1 | 0.189 | 0.208 | 0.038 | 1 |
| Right.precuneus\_part2 | 0.165 | 0.175 | 0.206 | 1 | 0.197 | 0.204 | 0.436 | 1 |
| Right.precuneus\_part3 | 0.166 | 0.183 | 0.033 | 1 | 0.215 | 0.228 | 0.204 | 1 |
| Right.precuneus\_part4 | 0.194 | 0.184 | 0.262 | 1 | 0.224 | 0.223 | 0.956 | 1 |
| Right.precuneus\_part5 | 0.207 | 0.221 | 0.165 | 1 | 0.218 | 0.23 | 0.238 | 1 |
| Right.precuneus\_part6 | 0.161 | 0.172 | 0.133 | 1 | 0.182 | 0.205 | 0.012 | 1 |
| Right.precuneus\_part7 | 0.197 | 0.198 | 0.884 | 1 | 0.232 | 0.247 | 0.182 | 1 |
| Right.rostralanteriorcingulate\_part1 | 0.151 | 0.165 | 0.051 | 1 | 0.195 | 0.215 | 0.037 | 1 |
| Right.rostralmiddlefrontal\_part1 | 0.154 | 0.156 | 0.774 | 1 | 0.177 | 0.177 | 0.966 | 1 |
| Right.rostralmiddlefrontal\_part10 | 0.198 | 0.203 | 0.546 | 1 | 0.236 | 0.235 | 0.952 | 1 |
| Right.rostralmiddlefrontal\_part2 | 0.152 | 0.163 | 0.126 | 1 | 0.174 | 0.19 | 0.047 | 1 |
| Right.rostralmiddlefrontal\_part3 | 0.218 | 0.221 | 0.777 | 1 | 0.251 | 0.25 | 0.96 | 1 |
| Right.rostralmiddlefrontal\_part4 | 0.174 | 0.181 | 0.333 | 1 | 0.211 | 0.22 | 0.371 | 1 |
| Right.rostralmiddlefrontal\_part5 | 0.212 | 0.223 | 0.263 | 1 | 0.264 | 0.271 | 0.588 | 1 |
| Right.rostralmiddlefrontal\_part6 | 0.176 | 0.191 | 0.075 | 1 | 0.204 | 0.215 | 0.291 | 1 |
| Right.rostralmiddlefrontal\_part7 | 0.223 | 0.231 | 0.404 | 1 | 0.237 | 0.256 | 0.087 | 1 |
| Right.rostralmiddlefrontal\_part8 | 0.195 | 0.206 | 0.232 | 1 | 0.237 | 0.246 | 0.434 | 1 |
| Right.rostralmiddlefrontal\_part9 | 0.21 | 0.222 | 0.222 | 1 | 0.241 | 0.256 | 0.198 | 1 |
| Right.superiorfrontal\_part1 | 0.176 | 0.181 | 0.555 | 1 | 0.217 | 0.221 | 0.626 | 1 |
| Right.superiorfrontal\_part10 | 0.178 | 0.185 | 0.383 | 1 | 0.228 | 0.238 | 0.338 | 1 |
| Right.superiorfrontal\_part11 | 0.17 | 0.177 | 0.336 | 1 | 0.178 | 0.183 | 0.601 | 1 |
| Right.superiorfrontal\_part12 | 0.183 | 0.193 | 0.266 | 1 | 0.213 | 0.213 | 0.986 | 1 |
| Right.superiorfrontal\_part13 | 0.151 | 0.158 | 0.304 | 1 | 0.18 | 0.185 | 0.519 | 1 |
| Right.superiorfrontal\_part2 | 0.131 | 0.138 | 0.281 | 1 | 0.155 | 0.162 | 0.345 | 1 |
| Right.superiorfrontal\_part3 | 0.202 | 0.215 | 0.204 | 1 | 0.213 | 0.231 | 0.09 | 1 |
| Right.superiorfrontal\_part4 | 0.154 | 0.155 | 0.886 | 1 | 0.194 | 0.192 | 0.833 | 1 |
| Right.superiorfrontal\_part5 | 0.198 | 0.204 | 0.491 | 1 | 0.231 | 0.238 | 0.503 | 1 |
| Right.superiorfrontal\_part6 | 0.145 | 0.145 | 0.97 | 1 | 0.169 | 0.165 | 0.617 | 1 |
| Right.superiorfrontal\_part7 | 0.179 | 0.189 | 0.226 | 1 | 0.194 | 0.209 | 0.12 | 1 |
| Right.superiorfrontal\_part8 | 0.155 | 0.161 | 0.403 | 1 | 0.174 | 0.18 | 0.423 | 1 |
| Right.superiorfrontal\_part9 | 0.215 | 0.213 | 0.86 | 1 | 0.238 | 0.238 | 0.966 | 1 |
| Right.superiorparietal\_part1 | 0.189 | 0.202 | 0.13 | 1 | 0.237 | 0.253 | 0.146 | 1 |
| Right.superiorparietal\_part10 | 0.246 | 0.224 | 0.046 | 1 | 0.279 | 0.261 | 0.164 | 1 |
| Right.superiorparietal\_part2 | 0.18 | 0.211 | 0.001 | 0.197 | 0.246 | 0.275 | 0.018 | 1 |
| Right.superiorparietal\_part3 | 0.167 | 0.172 | 0.44 | 1 | 0.205 | 0.218 | 0.178 | 1 |
| Right.superiorparietal\_part4 | 0.182 | 0.188 | 0.425 | 1 | 0.225 | 0.243 | 0.11 | 1 |
| Right.superiorparietal\_part5 | 0.184 | 0.194 | 0.271 | 1 | 0.215 | 0.232 | 0.103 | 1 |
| Right.superiorparietal\_part6 | 0.208 | 0.222 | 0.15 | 1 | 0.243 | 0.265 | 0.067 | 1 |
| Right.superiorparietal\_part7 | 0.193 | 0.188 | 0.564 | 1 | 0.233 | 0.249 | 0.151 | 1 |
| Right.superiorparietal\_part8 | 0.236 | 0.225 | 0.318 | 1 | 0.303 | 0.302 | 0.968 | 1 |
| Right.superiorparietal\_part9 | 0.22 | 0.211 | 0.333 | 1 | 0.249 | 0.243 | 0.605 | 1 |
| Right.superiortemporal\_part1 | 0.164 | 0.169 | 0.525 | 1 | 0.173 | 0.186 | 0.114 | 1 |
| Right.superiortemporal\_part2 | 0.165 | 0.166 | 0.811 | 1 | 0.184 | 0.184 | 0.975 | 1 |
| Right.superiortemporal\_part3 | 0.175 | 0.175 | 0.993 | 1 | 0.19 | 0.208 | 0.055 | 1 |
| Right.superiortemporal\_part4 | 0.167 | 0.172 | 0.446 | 1 | 0.194 | 0.203 | 0.298 | 1 |
| Right.superiortemporal\_part5 | 0.148 | 0.158 | 0.156 | 1 | 0.161 | 0.177 | 0.032 | 1 |
| Right.superiortemporal\_part6 | 0.131 | 0.141 | 0.117 | 1 | 0.162 | 0.177 | 0.05 | 1 |
| Right.supramarginal\_part1 | 0.196 | 0.197 | 0.882 | 1 | 0.229 | 0.238 | 0.408 | 1 |
| Right.supramarginal\_part2 | 0.145 | 0.142 | 0.613 | 1 | 0.166 | 0.161 | 0.533 | 1 |
| Right.supramarginal\_part3 | 0.201 | 0.207 | 0.576 | 1 | 0.212 | 0.222 | 0.329 | 1 |
| Right.supramarginal\_part4 | 0.233 | 0.219 | 0.194 | 1 | 0.258 | 0.262 | 0.716 | 1 |
| Right.supramarginal\_part5 | 0.221 | 0.223 | 0.815 | 1 | 0.219 | 0.231 | 0.253 | 1 |
| Right.supramarginal\_part6 | 0.194 | 0.182 | 0.169 | 1 | 0.202 | 0.201 | 0.923 | 1 |
| Right.supramarginal\_part7 | 0.195 | 0.188 | 0.424 | 1 | 0.223 | 0.221 | 0.83 | 1 |
| Right.temporalpole\_part1 | 0.164 | 0.159 | 0.556 | 1 | 0.16 | 0.165 | 0.473 | 1 |
| Right.transversetemporal\_part1 | 0.148 | 0.145 | 0.587 | 1 | 0.179 | 0.181 | 0.742 | 1 |

HC, healthy control; SPR, schizophrenia.

a Mann–Whitney U test was performed with Bonferroni correction for multiple testing.

# **Supplementary Table 3-2.** The coefficients of variation in regional cortical thickness and local gyrification index

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Cortical thickness | | | | Local gyrification index | | | |
| Structure | HC | SPR | p | Adj. pa | HC | SPR | p | Adj. pa |
| Left.bankssts\_part1 | 0.078 | 0.082 | 0.315 | 1 | 0.08 | 0.085 | 0.136 | 1 |
| Left.bankssts\_part2 | 0.079 | 0.082 | 0.538 | 1 | 0.067 | 0.072 | 0.078 | 1 |
| Left.caudalanteriorcingulate\_part1 | 0.116 | 0.115 | 0.79 | 1 | 0.071 | 0.077 | 0.068 | 1 |
| Left.caudalmiddlefrontal\_part1 | 0.081 | 0.079 | 0.534 | 1 | 0.077 | 0.078 | 0.61 | 1 |
| Left.caudalmiddlefrontal\_part2 | 0.072 | 0.073 | 0.644 | 1 | 0.071 | 0.078 | 0.049 | 1 |
| Left.caudalmiddlefrontal\_part3 | 0.071 | 0.073 | 0.462 | 1 | 0.072 | 0.081 | 0.013 | 1 |
| Left.caudalmiddlefrontal\_part4 | 0.079 | 0.079 | 0.957 | 1 | 0.066 | 0.074 | 0.013 | 1 |
| Left.cuneus\_part1 | 0.1 | 0.104 | 0.371 | 1 | 0.077 | 0.083 | 0.086 | 1 |
| Left.cuneus\_part2 | 0.102 | 0.112 | 0.04 | 1 | 0.076 | 0.082 | 0.078 | 1 |
| Left.entorhinal\_part1 | 0.119 | 0.12 | 0.858 | 1 | 0.055 | 0.059 | 0.078 | 1 |
| Left.frontalpole\_part1 | 0.097 | 0.098 | 0.942 | 1 | 0.073 | 0.082 | 0.007 | 1 |
| Left.fusiform\_part1 | 0.093 | 0.092 | 0.851 | 1 | 0.064 | 0.066 | 0.633 | 1 |
| Left.fusiform\_part2 | 0.086 | 0.094 | 0.04 | 1 | 0.057 | 0.06 | 0.283 | 1 |
| Left.fusiform\_part3 | 0.099 | 0.099 | 0.974 | 1 | 0.058 | 0.065 | 0.013 | 1 |
| Left.fusiform\_part4 | 0.085 | 0.089 | 0.293 | 1 | 0.052 | 0.056 | 0.13 | 1 |
| Left.fusiform\_part5 | 0.09 | 0.092 | 0.641 | 1 | 0.051 | 0.059 | 0.001 | 0.203 |
| Left.inferiorparietal\_part1 | 0.079 | 0.086 | 0.056 | 1 | 0.066 | 0.068 | 0.526 | 1 |
| Left.inferiorparietal\_part2 | 0.084 | 0.083 | 0.801 | 1 | 0.067 | 0.071 | 0.185 | 1 |
| Left.inferiorparietal\_part3 | 0.071 | 0.077 | 0.051 | 1 | 0.059 | 0.064 | 0.069 | 1 |
| Left.inferiorparietal\_part4 | 0.076 | 0.077 | 0.787 | 1 | 0.069 | 0.072 | 0.257 | 1 |
| Left.inferiorparietal\_part5 | 0.082 | 0.084 | 0.614 | 1 | 0.058 | 0.062 | 0.145 | 1 |
| Left.inferiorparietal\_part6 | 0.081 | 0.084 | 0.479 | 1 | 0.067 | 0.07 | 0.416 | 1 |
| Left.inferiorparietal\_part7 | 0.089 | 0.091 | 0.612 | 1 | 0.059 | 0.063 | 0.146 | 1 |
| Left.inferiorparietal\_part8 | 0.077 | 0.077 | 0.976 | 1 | 0.059 | 0.062 | 0.278 | 1 |
| Left.inferiortemporal\_part1 | 0.08 | 0.087 | 0.056 | 1 | 0.071 | 0.07 | 0.801 | 1 |
| Left.inferiortemporal\_part2 | 0.083 | 0.083 | 0.999 | 1 | 0.057 | 0.061 | 0.133 | 1 |
| Left.inferiortemporal\_part3 | 0.099 | 0.101 | 0.705 | 1 | 0.063 | 0.062 | 0.699 | 1 |
| Left.inferiortemporal\_part4 | 0.082 | 0.084 | 0.496 | 1 | 0.055 | 0.058 | 0.155 | 1 |
| Left.inferiortemporal\_part5 | 0.093 | 0.091 | 0.577 | 1 | 0.068 | 0.066 | 0.435 | 1 |
| Left.inferiortemporal\_part6 | 0.088 | 0.094 | 0.129 | 1 | 0.058 | 0.059 | 0.587 | 1 |
| Left.insula\_part1 | 0.09 | 0.092 | 0.626 | 1 | 0.078 | 0.089 | 0.003 | 1 |
| Left.insula\_part2 | 0.075 | 0.083 | 0.025 | 1 | 0.081 | 0.089 | 0.058 | 1 |
| Left.insula\_part3 | 0.085 | 0.09 | 0.158 | 1 | 0.081 | 0.093 | 0.002 | 0.529 |
| Left.insula\_part4 | 0.079 | 0.081 | 0.672 | 1 | 0.084 | 0.093 | 0.023 | 1 |
| Left.isthmuscingulate\_part1 | 0.115 | 0.123 | 0.149 | 1 | 0.083 | 0.084 | 0.921 | 1 |
| Left.isthmuscingulate\_part2 | 0.099 | 0.098 | 0.708 | 1 | 0.087 | 0.092 | 0.251 | 1 |
| Left.lateraloccipital\_part1 | 0.106 | 0.101 | 0.333 | 1 | 0.071 | 0.076 | 0.148 | 1 |
| Left.lateraloccipital\_part2 | 0.087 | 0.095 | 0.063 | 1 | 0.061 | 0.067 | 0.023 | 1 |
| Left.lateraloccipital\_part3 | 0.119 | 0.123 | 0.456 | 1 | 0.075 | 0.084 | 0.016 | 1 |
| Left.lateraloccipital\_part4 | 0.091 | 0.092 | 0.754 | 1 | 0.062 | 0.069 | 0.015 | 1 |
| Left.lateraloccipital\_part5 | 0.121 | 0.125 | 0.396 | 1 | 0.07 | 0.08 | 0.006 | 1 |
| Left.lateraloccipital\_part6 | 0.117 | 0.119 | 0.603 | 1 | 0.063 | 0.07 | 0.02 | 1 |
| Left.lateraloccipital\_part7 | 0.101 | 0.103 | 0.637 | 1 | 0.068 | 0.075 | 0.021 | 1 |
| Left.lateraloccipital\_part8 | 0.12 | 0.129 | 0.107 | 1 | 0.066 | 0.073 | 0.022 | 1 |
| Left.lateraloccipital\_part9 | 0.101 | 0.102 | 0.854 | 1 | 0.063 | 0.073 | 0.002 | 0.623 |
| Left.lateralorbitofrontal\_part1 | 0.086 | 0.085 | 0.806 | 1 | 0.069 | 0.08 | 0.002 | 0.487 |
| Left.lateralorbitofrontal\_part2 | 0.075 | 0.082 | 0.052 | 1 | 0.062 | 0.073 | <0.001 | 0.14 |
| Left.lateralorbitofrontal\_part3 | 0.072 | 0.081 | 0.007 | 1 | 0.071 | 0.081 | 0.004 | 1 |
| Left.lateralorbitofrontal\_part4 | 0.068 | 0.075 | 0.022 | 1 | 0.074 | 0.08 | 0.085 | 1 |
| Left.lingual\_part1 | 0.113 | 0.121 | 0.101 | 1 | 0.067 | 0.07 | 0.363 | 1 |
| Left.lingual\_part2 | 0.125 | 0.131 | 0.293 | 1 | 0.074 | 0.08 | 0.121 | 1 |
| Left.lingual\_part3 | 0.126 | 0.131 | 0.373 | 1 | 0.077 | 0.074 | 0.391 | 1 |
| Left.lingual\_part4 | 0.134 | 0.14 | 0.367 | 1 | 0.08 | 0.084 | 0.19 | 1 |
| Left.lingual\_part5 | 0.122 | 0.124 | 0.737 | 1 | 0.085 | 0.085 | 0.865 | 1 |
| Left.lingual\_part6 | 0.128 | 0.133 | 0.331 | 1 | 0.067 | 0.074 | 0.031 | 1 |
| Left.medialorbitofrontal\_part1 | 0.085 | 0.091 | 0.106 | 1 | 0.066 | 0.074 | 0.014 | 1 |
| Left.medialorbitofrontal\_part2 | 0.093 | 0.09 | 0.529 | 1 | 0.069 | 0.078 | 0.003 | 0.981 |
| Left.medialorbitofrontal\_part3 | 0.086 | 0.088 | 0.603 | 1 | 0.066 | 0.075 | 0.006 | 1 |
| Left.middletemporal\_part1 | 0.078 | 0.082 | 0.229 | 1 | 0.103 | 0.1 | 0.459 | 1 |
| Left.middletemporal\_part2 | 0.088 | 0.088 | 0.882 | 1 | 0.06 | 0.066 | 0.057 | 1 |
| Left.middletemporal\_part3 | 0.074 | 0.077 | 0.341 | 1 | 0.095 | 0.093 | 0.622 | 1 |
| Left.middletemporal\_part4 | 0.087 | 0.089 | 0.509 | 1 | 0.076 | 0.081 | 0.203 | 1 |
| Left.middletemporal\_part5 | 0.076 | 0.084 | 0.017 | 1 | 0.096 | 0.101 | 0.291 | 1 |
| Left.paracentral\_part1 | 0.084 | 0.086 | 0.592 | 1 | 0.065 | 0.072 | 0.012 | 1 |
| Left.paracentral\_part2 | 0.088 | 0.096 | 0.053 | 1 | 0.069 | 0.076 | 0.029 | 1 |
| Left.paracentral\_part3 | 0.089 | 0.096 | 0.078 | 1 | 0.061 | 0.07 | 0.003 | 0.8 |
| Left.parahippocampal\_part1 | 0.139 | 0.147 | 0.23 | 1 | 0.062 | 0.064 | 0.411 | 1 |
| Left.parahippocampal\_part2 | 0.115 | 0.127 | 0.034 | 1 | 0.071 | 0.07 | 0.818 | 1 |
| Left.parsopercularis\_part1 | 0.089 | 0.1 | 0.01 | 1 | 0.09 | 0.098 | 0.037 | 1 |
| Left.parsopercularis\_part2 | 0.085 | 0.095 | 0.018 | 1 | 0.085 | 0.097 | 0.003 | 0.84 |
| Left.parsopercularis\_part3 | 0.078 | 0.086 | 0.028 | 1 | 0.081 | 0.093 | 0.003 | 1 |
| Left.parsorbitalis\_part1 | 0.083 | 0.086 | 0.363 | 1 | 0.085 | 0.09 | 0.159 | 1 |
| Left.parstriangularis\_part1 | 0.096 | 0.097 | 0.804 | 1 | 0.092 | 0.098 | 0.159 | 1 |
| Left.parstriangularis\_part2 | 0.081 | 0.091 | 0.007 | 1 | 0.086 | 0.092 | 0.123 | 1 |
| Left.pericalcarine\_part1 | 0.138 | 0.133 | 0.342 | 1 | 0.077 | 0.082 | 0.214 | 1 |
| Left.pericalcarine\_part2 | 0.131 | 0.134 | 0.691 | 1 | 0.084 | 0.088 | 0.378 | 1 |
| Left.postcentral\_part1 | 0.096 | 0.094 | 0.69 | 1 | 0.068 | 0.071 | 0.272 | 1 |
| Left.postcentral\_part2 | 0.098 | 0.097 | 0.939 | 1 | 0.079 | 0.089 | 0.008 | 1 |
| Left.postcentral\_part3 | 0.098 | 0.1 | 0.654 | 1 | 0.07 | 0.074 | 0.323 | 1 |
| Left.postcentral\_part4 | 0.082 | 0.088 | 0.114 | 1 | 0.073 | 0.085 | 0.001 | 0.187 |
| Left.postcentral\_part5 | 0.098 | 0.098 | 0.982 | 1 | 0.066 | 0.068 | 0.379 | 1 |
| Left.postcentral\_part6 | 0.115 | 0.118 | 0.587 | 1 | 0.064 | 0.074 | 0.002 | 0.6 |
| Left.postcentral\_part7 | 0.087 | 0.091 | 0.333 | 1 | 0.061 | 0.065 | 0.148 | 1 |
| Left.postcentral\_part8 | 0.097 | 0.112 | 0.002 | 0.467 | 0.06 | 0.067 | 0.009 | 1 |
| Left.posteriorcingulate\_part1 | 0.079 | 0.096 | <0.001 | 0.005 | 0.078 | 0.085 | 0.047 | 1 |
| Left.posteriorcingulate\_part2 | 0.118 | 0.129 | 0.049 | 1 | 0.076 | 0.08 | 0.218 | 1 |
| Left.precentral\_part1 | 0.093 | 0.097 | 0.275 | 1 | 0.064 | 0.068 | 0.103 | 1 |
| Left.precentral\_part2 | 0.087 | 0.094 | 0.077 | 1 | 0.08 | 0.094 | <0.001 | 0.128 |
| Left.precentral\_part3 | 0.095 | 0.096 | 0.803 | 1 | 0.063 | 0.069 | 0.08 | 1 |
| Left.precentral\_part4 | 0.083 | 0.09 | 0.085 | 1 | 0.076 | 0.089 | <0.001 | 0.091 |
| Left.precentral\_part5 | 0.097 | 0.099 | 0.625 | 1 | 0.068 | 0.071 | 0.324 | 1 |
| Left.precentral\_part6 | 0.091 | 0.094 | 0.358 | 1 | 0.068 | 0.07 | 0.655 | 1 |
| Left.precentral\_part7 | 0.081 | 0.082 | 0.779 | 1 | 0.07 | 0.08 | 0.002 | 0.514 |
| Left.precentral\_part8 | 0.086 | 0.087 | 0.691 | 1 | 0.064 | 0.069 | 0.07 | 1 |
| Left.precentral\_part9 | 0.091 | 0.086 | 0.164 | 1 | 0.062 | 0.07 | 0.005 | 1 |
| Left.precuneus\_part1 | 0.101 | 0.114 | 0.006 | 1 | 0.084 | 0.086 | 0.545 | 1 |
| Left.precuneus\_part2 | 0.083 | 0.082 | 0.638 | 1 | 0.066 | 0.074 | 0.013 | 1 |
| Left.precuneus\_part3 | 0.086 | 0.097 | 0.006 | 1 | 0.078 | 0.083 | 0.178 | 1 |
| Left.precuneus\_part4 | 0.085 | 0.094 | 0.02 | 1 | 0.078 | 0.085 | 0.05 | 1 |
| Left.precuneus\_part5 | 0.093 | 0.097 | 0.388 | 1 | 0.078 | 0.081 | 0.461 | 1 |
| Left.precuneus\_part6 | 0.086 | 0.092 | 0.099 | 1 | 0.077 | 0.08 | 0.376 | 1 |
| Left.precuneus\_part7 | 0.08 | 0.096 | <0.001 | 0.015 | 0.086 | 0.089 | 0.369 | 1 |
| Left.rostralanteriorcingulate\_part1 | 0.08 | 0.083 | 0.483 | 1 | 0.066 | 0.075 | 0.005 | 1 |
| Left.rostralmiddlefrontal\_part1 | 0.085 | 0.087 | 0.556 | 1 | 0.084 | 0.087 | 0.443 | 1 |
| Left.rostralmiddlefrontal\_part10 | 0.072 | 0.078 | 0.075 | 1 | 0.075 | 0.079 | 0.202 | 1 |
| Left.rostralmiddlefrontal\_part2 | 0.096 | 0.099 | 0.529 | 1 | 0.076 | 0.081 | 0.129 | 1 |
| Left.rostralmiddlefrontal\_part3 | 0.076 | 0.08 | 0.332 | 1 | 0.08 | 0.081 | 0.958 | 1 |
| Left.rostralmiddlefrontal\_part4 | 0.092 | 0.089 | 0.439 | 1 | 0.072 | 0.081 | 0.008 | 1 |
| Left.rostralmiddlefrontal\_part5 | 0.075 | 0.077 | 0.409 | 1 | 0.08 | 0.088 | 0.023 | 1 |
| Left.rostralmiddlefrontal\_part6 | 0.087 | 0.091 | 0.233 | 1 | 0.071 | 0.079 | 0.03 | 1 |
| Left.rostralmiddlefrontal\_part7 | 0.073 | 0.071 | 0.527 | 1 | 0.078 | 0.083 | 0.107 | 1 |
| Left.rostralmiddlefrontal\_part8 | 0.071 | 0.077 | 0.081 | 1 | 0.074 | 0.081 | 0.038 | 1 |
| Left.rostralmiddlefrontal\_part9 | 0.086 | 0.093 | 0.084 | 1 | 0.078 | 0.084 | 0.1 | 1 |
| Left.superiorfrontal\_part1 | 0.079 | 0.086 | 0.061 | 1 | 0.074 | 0.08 | 0.062 | 1 |
| Left.superiorfrontal\_part10 | 0.073 | 0.079 | 0.095 | 1 | 0.066 | 0.068 | 0.472 | 1 |
| Left.superiorfrontal\_part11 | 0.067 | 0.07 | 0.203 | 1 | 0.074 | 0.074 | 0.984 | 1 |
| Left.superiorfrontal\_part12 | 0.07 | 0.071 | 0.664 | 1 | 0.067 | 0.074 | 0.037 | 1 |
| Left.superiorfrontal\_part13 | 0.077 | 0.079 | 0.627 | 1 | 0.064 | 0.067 | 0.457 | 1 |
| Left.superiorfrontal\_part2 | 0.08 | 0.081 | 0.741 | 1 | 0.06 | 0.067 | 0.014 | 1 |
| Left.superiorfrontal\_part3 | 0.068 | 0.072 | 0.165 | 1 | 0.073 | 0.078 | 0.097 | 1 |
| Left.superiorfrontal\_part4 | 0.068 | 0.073 | 0.087 | 1 | 0.07 | 0.077 | 0.031 | 1 |
| Left.superiorfrontal\_part5 | 0.076 | 0.083 | 0.056 | 1 | 0.072 | 0.076 | 0.221 | 1 |
| Left.superiorfrontal\_part6 | 0.085 | 0.089 | 0.229 | 1 | 0.067 | 0.071 | 0.132 | 1 |
| Left.superiorfrontal\_part7 | 0.072 | 0.077 | 0.153 | 1 | 0.067 | 0.073 | 0.071 | 1 |
| Left.superiorfrontal\_part8 | 0.08 | 0.08 | 0.869 | 1 | 0.061 | 0.067 | 0.029 | 1 |
| Left.superiorfrontal\_part9 | 0.067 | 0.068 | 0.703 | 1 | 0.07 | 0.076 | 0.081 | 1 |
| Left.superiorparietal\_part1 | 0.087 | 0.09 | 0.384 | 1 | 0.077 | 0.08 | 0.338 | 1 |
| Left.superiorparietal\_part10 | 0.083 | 0.09 | 0.073 | 1 | 0.074 | 0.082 | 0.017 | 1 |
| Left.superiorparietal\_part2 | 0.11 | 0.11 | 0.961 | 1 | 0.067 | 0.077 | 0.003 | 0.908 |
| Left.superiorparietal\_part3 | 0.084 | 0.081 | 0.4 | 1 | 0.071 | 0.073 | 0.585 | 1 |
| Left.superiorparietal\_part4 | 0.082 | 0.083 | 0.721 | 1 | 0.067 | 0.068 | 0.91 | 1 |
| Left.superiorparietal\_part5 | 0.077 | 0.087 | 0.006 | 1 | 0.072 | 0.075 | 0.307 | 1 |
| Left.superiorparietal\_part6 | 0.097 | 0.094 | 0.54 | 1 | 0.068 | 0.075 | 0.045 | 1 |
| Left.superiorparietal\_part7 | 0.085 | 0.092 | 0.107 | 1 | 0.078 | 0.085 | 0.046 | 1 |
| Left.superiorparietal\_part8 | 0.082 | 0.081 | 0.715 | 1 | 0.068 | 0.073 | 0.11 | 1 |
| Left.superiorparietal\_part9 | 0.079 | 0.083 | 0.236 | 1 | 0.077 | 0.081 | 0.215 | 1 |
| Left.superiortemporal\_part1 | 0.101 | 0.112 | 0.022 | 1 | 0.078 | 0.086 | 0.03 | 1 |
| Left.superiortemporal\_part2 | 0.084 | 0.092 | 0.03 | 1 | 0.082 | 0.089 | 0.106 | 1 |
| Left.superiortemporal\_part3 | 0.087 | 0.093 | 0.126 | 1 | 0.073 | 0.081 | 0.017 | 1 |
| Left.superiortemporal\_part4 | 0.09 | 0.095 | 0.19 | 1 | 0.093 | 0.096 | 0.461 | 1 |
| Left.superiortemporal\_part5 | 0.075 | 0.081 | 0.09 | 1 | 0.085 | 0.094 | 0.017 | 1 |
| Left.superiortemporal\_part6 | 0.083 | 0.086 | 0.488 | 1 | 0.085 | 0.094 | 0.021 | 1 |
| Left.superiortemporal\_part7 | 0.082 | 0.087 | 0.169 | 1 | 0.091 | 0.097 | 0.16 | 1 |
| Left.supramarginal\_part1 | 0.081 | 0.086 | 0.198 | 1 | 0.066 | 0.066 | 0.963 | 1 |
| Left.supramarginal\_part2 | 0.096 | 0.105 | 0.043 | 1 | 0.078 | 0.084 | 0.132 | 1 |
| Left.supramarginal\_part3 | 0.094 | 0.102 | 0.087 | 1 | 0.062 | 0.063 | 0.583 | 1 |
| Left.supramarginal\_part4 | 0.096 | 0.092 | 0.412 | 1 | 0.072 | 0.083 | 0.001 | 0.428 |
| Left.supramarginal\_part5 | 0.081 | 0.086 | 0.223 | 1 | 0.064 | 0.071 | 0.036 | 1 |
| Left.supramarginal\_part6 | 0.077 | 0.086 | 0.011 | 1 | 0.062 | 0.068 | 0.053 | 1 |
| Left.supramarginal\_part7 | 0.072 | 0.076 | 0.269 | 1 | 0.062 | 0.068 | 0.068 | 1 |
| Left.temporalpole\_part1 | 0.085 | 0.086 | 0.791 | 1 | 0.068 | 0.071 | 0.376 | 1 |
| Left.transversetemporal\_part1 | 0.098 | 0.11 | 0.01 | 1 | 0.079 | 0.088 | 0.008 | 1 |
| Right.bankssts\_part1 | 0.074 | 0.075 | 0.846 | 1 | 0.08 | 0.086 | 0.101 | 1 |
| Right.bankssts\_part2 | 0.075 | 0.075 | 0.947 | 1 | 0.073 | 0.081 | 0.014 | 1 |
| Right.caudalanteriorcingulate\_part1 | 0.1 | 0.105 | 0.265 | 1 | 0.096 | 0.11 | 0.004 | 1 |
| Right.caudalmiddlefrontal\_part1 | 0.073 | 0.079 | 0.067 | 1 | 0.082 | 0.088 | 0.154 | 1 |
| Right.caudalmiddlefrontal\_part2 | 0.084 | 0.078 | 0.137 | 1 | 0.093 | 0.092 | 0.867 | 1 |
| Right.caudalmiddlefrontal\_part3 | 0.078 | 0.08 | 0.523 | 1 | 0.08 | 0.086 | 0.134 | 1 |
| Right.caudalmiddlefrontal\_part4 | 0.079 | 0.078 | 0.816 | 1 | 0.082 | 0.085 | 0.306 | 1 |
| Right.cuneus\_part1 | 0.11 | 0.118 | 0.12 | 1 | 0.07 | 0.075 | 0.102 | 1 |
| Right.cuneus\_part2 | 0.134 | 0.133 | 0.839 | 1 | 0.073 | 0.08 | 0.073 | 1 |
| Right.cuneus\_part3 | 0.11 | 0.116 | 0.212 | 1 | 0.071 | 0.079 | 0.022 | 1 |
| Right.entorhinal\_part1 | 0.123 | 0.117 | 0.313 | 1 | 0.07 | 0.079 | 0.006 | 1 |
| Right.frontalpole\_part1 | 0.105 | 0.102 | 0.522 | 1 | 0.078 | 0.085 | 0.043 | 1 |
| Right.fusiform\_part1 | 0.08 | 0.084 | 0.291 | 1 | 0.06 | 0.065 | 0.107 | 1 |
| Right.fusiform\_part2 | 0.087 | 0.092 | 0.275 | 1 | 0.074 | 0.084 | 0.006 | 1 |
| Right.fusiform\_part3 | 0.078 | 0.078 | 0.809 | 1 | 0.058 | 0.062 | 0.119 | 1 |
| Right.fusiform\_part4 | 0.08 | 0.077 | 0.362 | 1 | 0.066 | 0.069 | 0.335 | 1 |
| Right.fusiform\_part5 | 0.07 | 0.07 | 0.802 | 1 | 0.066 | 0.066 | 0.861 | 1 |
| Right.inferiorparietal\_part1 | 0.071 | 0.071 | 0.823 | 1 | 0.07 | 0.074 | 0.228 | 1 |
| Right.inferiorparietal\_part10 | 0.087 | 0.088 | 0.804 | 1 | 0.066 | 0.069 | 0.223 | 1 |
| Right.inferiorparietal\_part2 | 0.082 | 0.086 | 0.28 | 1 | 0.067 | 0.07 | 0.316 | 1 |
| Right.inferiorparietal\_part3 | 0.074 | 0.081 | 0.044 | 1 | 0.07 | 0.071 | 0.724 | 1 |
| Right.inferiorparietal\_part4 | 0.084 | 0.099 | 0.001 | 0.162 | 0.065 | 0.071 | 0.039 | 1 |
| Right.inferiorparietal\_part5 | 0.072 | 0.073 | 0.714 | 1 | 0.067 | 0.069 | 0.391 | 1 |
| Right.inferiorparietal\_part6 | 0.072 | 0.079 | 0.037 | 1 | 0.067 | 0.073 | 0.049 | 1 |
| Right.inferiorparietal\_part7 | 0.082 | 0.085 | 0.433 | 1 | 0.067 | 0.068 | 0.624 | 1 |
| Right.inferiorparietal\_part8 | 0.085 | 0.086 | 0.732 | 1 | 0.066 | 0.07 | 0.265 | 1 |
| Right.inferiorparietal\_part9 | 0.088 | 0.093 | 0.303 | 1 | 0.068 | 0.071 | 0.358 | 1 |
| Right.inferiortemporal\_part1 | 0.076 | 0.081 | 0.124 | 1 | 0.08 | 0.092 | 0.002 | 0.495 |
| Right.inferiortemporal\_part2 | 0.076 | 0.076 | 0.966 | 1 | 0.064 | 0.067 | 0.205 | 1 |
| Right.inferiortemporal\_part3 | 0.087 | 0.086 | 0.962 | 1 | 0.076 | 0.081 | 0.182 | 1 |
| Right.inferiortemporal\_part4 | 0.086 | 0.08 | 0.126 | 1 | 0.067 | 0.068 | 0.585 | 1 |
| Right.inferiortemporal\_part5 | 0.08 | 0.086 | 0.153 | 1 | 0.068 | 0.072 | 0.236 | 1 |
| Right.insula\_part1 | 0.079 | 0.084 | 0.169 | 1 | 0.086 | 0.101 | 0.001 | 0.255 |
| Right.insula\_part2 | 0.081 | 0.08 | 0.642 | 1 | 0.082 | 0.096 | <0.001 | 0.135 |
| Right.insula\_part3 | 0.077 | 0.079 | 0.507 | 1 | 0.086 | 0.099 | 0.002 | 0.515 |
| Right.insula\_part4 | 0.075 | 0.076 | 0.664 | 1 | 0.087 | 0.101 | 0.001 | 0.198 |
| Right.isthmuscingulate\_part1 | 0.117 | 0.117 | 0.942 | 1 | 0.078 | 0.084 | 0.06 | 1 |
| Right.isthmuscingulate\_part2 | 0.082 | 0.109 | <0.001 | <0.001 | 0.09 | 0.091 | 0.745 | 1 |
| Right.lateraloccipital\_part1 | 0.107 | 0.112 | 0.264 | 1 | 0.07 | 0.072 | 0.519 | 1 |
| Right.lateraloccipital\_part2 | 0.078 | 0.078 | 0.9 | 1 | 0.065 | 0.073 | 0.007 | 1 |
| Right.lateraloccipital\_part3 | 0.109 | 0.113 | 0.437 | 1 | 0.077 | 0.078 | 0.862 | 1 |
| Right.lateraloccipital\_part4 | 0.1 | 0.107 | 0.174 | 1 | 0.067 | 0.071 | 0.171 | 1 |
| Right.lateraloccipital\_part5 | 0.086 | 0.093 | 0.104 | 1 | 0.066 | 0.073 | 0.026 | 1 |
| Right.lateraloccipital\_part6 | 0.086 | 0.09 | 0.317 | 1 | 0.073 | 0.074 | 0.791 | 1 |
| Right.lateraloccipital\_part7 | 0.106 | 0.106 | 0.981 | 1 | 0.067 | 0.068 | 0.611 | 1 |
| Right.lateraloccipital\_part8 | 0.1 | 0.104 | 0.388 | 1 | 0.073 | 0.079 | 0.102 | 1 |
| Right.lateraloccipital\_part9 | 0.084 | 0.091 | 0.071 | 1 | 0.071 | 0.075 | 0.191 | 1 |
| Right.lateralorbitofrontal\_part1 | 0.091 | 0.094 | 0.408 | 1 | 0.076 | 0.082 | 0.06 | 1 |
| Right.lateralorbitofrontal\_part2 | 0.096 | 0.1 | 0.351 | 1 | 0.074 | 0.084 | 0.004 | 1 |
| Right.lateralorbitofrontal\_part3 | 0.086 | 0.084 | 0.63 | 1 | 0.084 | 0.09 | 0.099 | 1 |
| Right.lateralorbitofrontal\_part4 | 0.098 | 0.099 | 0.788 | 1 | 0.075 | 0.086 | 0.004 | 1 |
| Right.lingual\_part1 | 0.112 | 0.11 | 0.629 | 1 | 0.076 | 0.08 | 0.264 | 1 |
| Right.lingual\_part2 | 0.116 | 0.121 | 0.345 | 1 | 0.075 | 0.075 | 0.833 | 1 |
| Right.lingual\_part3 | 0.1 | 0.102 | 0.662 | 1 | 0.069 | 0.071 | 0.424 | 1 |
| Right.lingual\_part4 | 0.119 | 0.118 | 0.942 | 1 | 0.079 | 0.082 | 0.416 | 1 |
| Right.lingual\_part5 | 0.117 | 0.116 | 0.719 | 1 | 0.079 | 0.086 | 0.055 | 1 |
| Right.lingual\_part6 | 0.11 | 0.118 | 0.119 | 1 | 0.074 | 0.076 | 0.598 | 1 |
| Right.medialorbitofrontal\_part1 | 0.085 | 0.086 | 0.811 | 1 | 0.078 | 0.086 | 0.025 | 1 |
| Right.medialorbitofrontal\_part2 | 0.085 | 0.088 | 0.378 | 1 | 0.077 | 0.081 | 0.205 | 1 |
| Right.medialorbitofrontal\_part3 | 0.086 | 0.089 | 0.475 | 1 | 0.073 | 0.081 | 0.024 | 1 |
| Right.middletemporal\_part1 | 0.071 | 0.079 | 0.016 | 1 | 0.087 | 0.095 | 0.042 | 1 |
| Right.middletemporal\_part2 | 0.071 | 0.076 | 0.145 | 1 | 0.096 | 0.108 | 0.008 | 1 |
| Right.middletemporal\_part3 | 0.072 | 0.081 | 0.01 | 1 | 0.1 | 0.109 | 0.064 | 1 |
| Right.middletemporal\_part4 | 0.075 | 0.079 | 0.282 | 1 | 0.067 | 0.074 | 0.043 | 1 |
| Right.middletemporal\_part5 | 0.083 | 0.079 | 0.211 | 1 | 0.067 | 0.076 | 0.01 | 1 |
| Right.middletemporal\_part6 | 0.074 | 0.077 | 0.433 | 1 | 0.092 | 0.103 | 0.011 | 1 |
| Right.paracentral\_part1 | 0.095 | 0.101 | 0.19 | 1 | 0.074 | 0.076 | 0.561 | 1 |
| Right.paracentral\_part2 | 0.105 | 0.111 | 0.241 | 1 | 0.065 | 0.068 | 0.272 | 1 |
| Right.paracentral\_part3 | 0.089 | 0.094 | 0.16 | 1 | 0.063 | 0.066 | 0.391 | 1 |
| Right.parahippocampal\_part1 | 0.108 | 0.116 | 0.141 | 1 | 0.072 | 0.072 | 0.943 | 1 |
| Right.parahippocampal\_part2 | 0.116 | 0.117 | 0.859 | 1 | 0.065 | 0.071 | 0.068 | 1 |
| Right.parsopercularis\_part1 | 0.069 | 0.075 | 0.049 | 1 | 0.089 | 0.102 | 0.002 | 0.627 |
| Right.parsopercularis\_part2 | 0.082 | 0.08 | 0.541 | 1 | 0.09 | 0.098 | 0.056 | 1 |
| Right.parsopercularis\_part3 | 0.07 | 0.074 | 0.188 | 1 | 0.084 | 0.093 | 0.019 | 1 |
| Right.parsorbitalis\_part1 | 0.08 | 0.086 | 0.132 | 1 | 0.087 | 0.088 | 0.802 | 1 |
| Right.parstriangularis\_part1 | 0.075 | 0.083 | 0.037 | 1 | 0.092 | 0.096 | 0.312 | 1 |
| Right.parstriangularis\_part2 | 0.078 | 0.081 | 0.301 | 1 | 0.089 | 0.103 | 0.001 | 0.372 |
| Right.parstriangularis\_part3 | 0.076 | 0.077 | 0.684 | 1 | 0.084 | 0.093 | 0.024 | 1 |
| Right.pericalcarine\_part1 | 0.141 | 0.137 | 0.52 | 1 | 0.079 | 0.086 | 0.044 | 1 |
| Right.pericalcarine\_part2 | 0.15 | 0.139 | 0.076 | 1 | 0.075 | 0.078 | 0.43 | 1 |
| Right.pericalcarine\_part3 | 0.133 | 0.136 | 0.586 | 1 | 0.078 | 0.083 | 0.191 | 1 |
| Right.postcentral\_part1 | 0.097 | 0.099 | 0.517 | 1 | 0.068 | 0.071 | 0.325 | 1 |
| Right.postcentral\_part2 | 0.082 | 0.08 | 0.572 | 1 | 0.083 | 0.097 | 0.001 | 0.304 |
| Right.postcentral\_part3 | 0.11 | 0.11 | 0.854 | 1 | 0.072 | 0.078 | 0.062 | 1 |
| Right.postcentral\_part4 | 0.086 | 0.082 | 0.352 | 1 | 0.086 | 0.094 | 0.06 | 1 |
| Right.postcentral\_part5 | 0.11 | 0.111 | 0.878 | 1 | 0.068 | 0.076 | 0.022 | 1 |
| Right.postcentral\_part6 | 0.12 | 0.118 | 0.715 | 1 | 0.074 | 0.081 | 0.039 | 1 |
| Right.postcentral\_part7 | 0.109 | 0.101 | 0.077 | 1 | 0.067 | 0.074 | 0.026 | 1 |
| Right.postcentral\_part8 | 0.108 | 0.112 | 0.387 | 1 | 0.067 | 0.076 | 0.006 | 1 |
| Right.posteriorcingulate\_part1 | 0.096 | 0.101 | 0.211 | 1 | 0.094 | 0.095 | 0.811 | 1 |
| Right.posteriorcingulate\_part2 | 0.097 | 0.116 | <0.001 | 0.014 | 0.092 | 0.091 | 0.875 | 1 |
| Right.precentral\_part1 | 0.067 | 0.07 | 0.368 | 1 | 0.084 | 0.098 | <0.001 | 0.118 |
| Right.precentral\_part2 | 0.102 | 0.111 | 0.073 | 1 | 0.065 | 0.069 | 0.205 | 1 |
| Right.precentral\_part3 | 0.076 | 0.085 | 0.014 | 1 | 0.086 | 0.093 | 0.078 | 1 |
| Right.precentral\_part4 | 0.113 | 0.116 | 0.603 | 1 | 0.072 | 0.077 | 0.139 | 1 |
| Right.precentral\_part5 | 0.079 | 0.083 | 0.348 | 1 | 0.082 | 0.089 | 0.091 | 1 |
| Right.precentral\_part6 | 0.126 | 0.126 | 0.983 | 1 | 0.073 | 0.079 | 0.087 | 1 |
| Right.precentral\_part7 | 0.095 | 0.094 | 0.814 | 1 | 0.07 | 0.078 | 0.021 | 1 |
| Right.precentral\_part8 | 0.092 | 0.092 | 0.947 | 1 | 0.068 | 0.075 | 0.026 | 1 |
| Right.precentral\_part9 | 0.098 | 0.1 | 0.723 | 1 | 0.077 | 0.082 | 0.185 | 1 |
| Right.precuneus\_part1 | 0.108 | 0.115 | 0.147 | 1 | 0.078 | 0.086 | 0.029 | 1 |
| Right.precuneus\_part2 | 0.087 | 0.092 | 0.166 | 1 | 0.081 | 0.088 | 0.053 | 1 |
| Right.precuneus\_part3 | 0.088 | 0.09 | 0.513 | 1 | 0.063 | 0.069 | 0.041 | 1 |
| Right.precuneus\_part4 | 0.105 | 0.11 | 0.224 | 1 | 0.073 | 0.079 | 0.065 | 1 |
| Right.precuneus\_part5 | 0.092 | 0.105 | 0.003 | 0.798 | 0.07 | 0.075 | 0.115 | 1 |
| Right.precuneus\_part6 | 0.098 | 0.108 | 0.027 | 1 | 0.074 | 0.081 | 0.067 | 1 |
| Right.precuneus\_part7 | 0.095 | 0.108 | 0.006 | 1 | 0.087 | 0.088 | 0.791 | 1 |
| Right.rostralanteriorcingulate\_part1 | 0.081 | 0.088 | 0.069 | 1 | 0.08 | 0.089 | 0.018 | 1 |
| Right.rostralmiddlefrontal\_part1 | 0.089 | 0.087 | 0.685 | 1 | 0.074 | 0.079 | 0.197 | 1 |
| Right.rostralmiddlefrontal\_part10 | 0.071 | 0.069 | 0.609 | 1 | 0.073 | 0.078 | 0.181 | 1 |
| Right.rostralmiddlefrontal\_part2 | 0.072 | 0.078 | 0.117 | 1 | 0.073 | 0.079 | 0.051 | 1 |
| Right.rostralmiddlefrontal\_part3 | 0.076 | 0.076 | 0.985 | 1 | 0.077 | 0.085 | 0.028 | 1 |
| Right.rostralmiddlefrontal\_part4 | 0.073 | 0.079 | 0.095 | 1 | 0.073 | 0.077 | 0.293 | 1 |
| Right.rostralmiddlefrontal\_part5 | 0.078 | 0.082 | 0.284 | 1 | 0.079 | 0.089 | 0.013 | 1 |
| Right.rostralmiddlefrontal\_part6 | 0.075 | 0.076 | 0.605 | 1 | 0.071 | 0.081 | 0.002 | 0.722 |
| Right.rostralmiddlefrontal\_part7 | 0.07 | 0.074 | 0.212 | 1 | 0.082 | 0.089 | 0.067 | 1 |
| Right.rostralmiddlefrontal\_part8 | 0.073 | 0.071 | 0.45 | 1 | 0.071 | 0.08 | 0.01 | 1 |
| Right.rostralmiddlefrontal\_part9 | 0.075 | 0.077 | 0.469 | 1 | 0.075 | 0.079 | 0.218 | 1 |
| Right.superiorfrontal\_part1 | 0.079 | 0.084 | 0.158 | 1 | 0.089 | 0.09 | 0.694 | 1 |
| Right.superiorfrontal\_part10 | 0.079 | 0.081 | 0.512 | 1 | 0.086 | 0.098 | 0.004 | 1 |
| Right.superiorfrontal\_part11 | 0.08 | 0.081 | 0.967 | 1 | 0.08 | 0.084 | 0.254 | 1 |
| Right.superiorfrontal\_part12 | 0.069 | 0.069 | 0.903 | 1 | 0.079 | 0.084 | 0.2 | 1 |
| Right.superiorfrontal\_part13 | 0.072 | 0.071 | 0.742 | 1 | 0.082 | 0.089 | 0.056 | 1 |
| Right.superiorfrontal\_part2 | 0.084 | 0.085 | 0.791 | 1 | 0.078 | 0.086 | 0.025 | 1 |
| Right.superiorfrontal\_part3 | 0.086 | 0.089 | 0.545 | 1 | 0.068 | 0.068 | 0.813 | 1 |
| Right.superiorfrontal\_part4 | 0.075 | 0.075 | 0.896 | 1 | 0.082 | 0.09 | 0.03 | 1 |
| Right.superiorfrontal\_part5 | 0.075 | 0.079 | 0.222 | 1 | 0.081 | 0.08 | 0.821 | 1 |
| Right.superiorfrontal\_part6 | 0.077 | 0.081 | 0.313 | 1 | 0.079 | 0.089 | 0.007 | 1 |
| Right.superiorfrontal\_part7 | 0.08 | 0.084 | 0.231 | 1 | 0.073 | 0.074 | 0.782 | 1 |
| Right.superiorfrontal\_part8 | 0.069 | 0.072 | 0.408 | 1 | 0.078 | 0.087 | 0.014 | 1 |
| Right.superiorfrontal\_part9 | 0.066 | 0.072 | 0.05 | 1 | 0.081 | 0.082 | 0.826 | 1 |
| Right.superiorparietal\_part1 | 0.099 | 0.106 | 0.109 | 1 | 0.062 | 0.066 | 0.138 | 1 |
| Right.superiorparietal\_part10 | 0.092 | 0.095 | 0.427 | 1 | 0.072 | 0.073 | 0.652 | 1 |
| Right.superiorparietal\_part2 | 0.096 | 0.093 | 0.446 | 1 | 0.073 | 0.069 | 0.227 | 1 |
| Right.superiorparietal\_part3 | 0.103 | 0.11 | 0.155 | 1 | 0.063 | 0.068 | 0.103 | 1 |
| Right.superiorparietal\_part4 | 0.099 | 0.11 | 0.021 | 1 | 0.064 | 0.069 | 0.058 | 1 |
| Right.superiorparietal\_part5 | 0.081 | 0.09 | 0.014 | 1 | 0.063 | 0.067 | 0.133 | 1 |
| Right.superiorparietal\_part6 | 0.085 | 0.09 | 0.213 | 1 | 0.076 | 0.076 | 0.959 | 1 |
| Right.superiorparietal\_part7 | 0.08 | 0.097 | <0.001 | 0.012 | 0.066 | 0.069 | 0.239 | 1 |
| Right.superiorparietal\_part8 | 0.08 | 0.085 | 0.182 | 1 | 0.069 | 0.076 | 0.033 | 1 |
| Right.superiorparietal\_part9 | 0.095 | 0.098 | 0.439 | 1 | 0.07 | 0.07 | 0.946 | 1 |
| Right.superiortemporal\_part1 | 0.085 | 0.089 | 0.365 | 1 | 0.082 | 0.097 | <0.001 | 0.069 |
| Right.superiortemporal\_part2 | 0.077 | 0.077 | 0.963 | 1 | 0.08 | 0.093 | <0.001 | 0.112 |
| Right.superiortemporal\_part3 | 0.076 | 0.082 | 0.113 | 1 | 0.086 | 0.097 | 0.013 | 1 |
| Right.superiortemporal\_part4 | 0.068 | 0.072 | 0.188 | 1 | 0.086 | 0.1 | 0.001 | 0.391 |
| Right.superiortemporal\_part5 | 0.077 | 0.082 | 0.224 | 1 | 0.083 | 0.095 | 0.002 | 0.495 |
| Right.superiortemporal\_part6 | 0.068 | 0.07 | 0.537 | 1 | 0.081 | 0.093 | 0.002 | 0.745 |
| Right.supramarginal\_part1 | 0.075 | 0.082 | 0.048 | 1 | 0.066 | 0.076 | 0.001 | 0.341 |
| Right.supramarginal\_part2 | 0.086 | 0.08 | 0.066 | 1 | 0.084 | 0.099 | <0.001 | 0.096 |
| Right.supramarginal\_part3 | 0.073 | 0.083 | 0.006 | 1 | 0.066 | 0.073 | 0.024 | 1 |
| Right.supramarginal\_part4 | 0.078 | 0.08 | 0.511 | 1 | 0.082 | 0.094 | 0.003 | 0.942 |
| Right.supramarginal\_part5 | 0.076 | 0.081 | 0.192 | 1 | 0.079 | 0.081 | 0.493 | 1 |
| Right.supramarginal\_part6 | 0.075 | 0.083 | 0.021 | 1 | 0.078 | 0.085 | 0.072 | 1 |
| Right.supramarginal\_part7 | 0.076 | 0.08 | 0.212 | 1 | 0.074 | 0.084 | 0.006 | 1 |
| Right.temporalpole\_part1 | 0.088 | 0.095 | 0.091 | 1 | 0.083 | 0.096 | 0.001 | 0.239 |
| Right.transversetemporal\_part1 | 0.098 | 0.094 | 0.298 | 1 | 0.083 | 0.095 | 0.002 | 0.557 |

HC, healthy control; SPR, schizophrenia.

a Mann–Whitney U test was performed with Bonferroni correction for multiple testing.

# **Supplementary Table 4-1.** Group comparisons of the PBSI scores according to the Yeo subnetwork

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | | | 2 | | | 3 | | | 4 | | | 5 | | | 6 | | | 7 | | |
|  | HC | SPR |  | HC | SPR |  | HC | SPR |  | HC | SPR |  | HC | SPR |  | HC | SPR |  | HC | SPR |  |
| Modality | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa |
| PBSI-SA | 0.436 (0.067) | 0.421 (0.07) | 0.016 | 0.292 (0.071) | 0.28 (0.068) | 0.056 | 0.244 (0.094) | 0.229 (0.089) | 0.061 | 0.399 (0.078) | 0.379 (0.076) | 0.002 | 0.539 (0.059) | 0.512 (0.063) | <0.001 | 0.253 (0.08) | 0.248 (0.085) | 1 | 0.312 (0.061) | 0.296 (0.062) | 0.002 |
| PBSI-GV | 0.607 (0.067) | 0.589 (0.067) | <0.001 | 0.488 (0.084) | 0.459 (0.086) | <0.001 | 0.369 (0.098) | 0.33 (0.093) | <0.001 | 0.407 (0.069) | 0.382 (0.068) | <0.001 | 0.662 (0.065) | 0.641 (0.068) | <0.001 | 0.329 (0.08) | 0.335 (0.079) | 1 | 0.518 (0.056) | 0.493 (0.057) | <0.001 |
| PBSI-CT | 0.704 (0.051) | 0.674 (0.055) | <0.001 | 0.666 (0.092) | 0.637 (0.101) | <0.001 | 0.55 (0.081) | 0.513 (0.083) | <0.001 | 0.651 (0.065) | 0.623 (0.067) | <0.001 | 0.491 (0.082) | 0.475 (0.086) | 0.238 | 0.466 (0.078) | 0.46 (0.07) | 1 | 0.553 (0.066) | 0.528 (0.063) | <0.001 |
| PBSI-LGI | 0.705 (0.069) | 0.676 (0.082) | <0.001 | 0.963 (0.01) | 0.96 (0.012) | <0.001 | 0.748 (0.067) | 0.73 (0.071) | <0.001 | 0.964 (0.01) | 0.958 (0.012) | <0.001 | 0.757 (0.069) | 0.74 (0.075) | 0.001 | 0.899 (0.023) | 0.888 (0.031) | <0.001 | 0.904 (0.017) | 0.898 (0.022) | 0.002 |
| PBSI-All | 0.622  (0.044) | 0.602 (0.045) | <0.001 | 0.673 (0.050) | 0.654 (0.054) | <0.001 | 0.426 (0.063) | 0.402 (0.059) | <0.001 | 0.712 (0.035) | 0.697 (0.034) | <0.001 | 0.766 (0.035) | 0.750 (0.039) | <0.001 | 0.483 (0.048) | 0.476 (0.050) | 1 | 0.605 (0.034) | 0.588 (0.034) | <0.001 |

HC, healthy control; SPR, schizophrenia; PBSI-SA, person-based similarity index for surface area; PBSI-GV, person-based similarity index for gray matter volume; PBSI-CT, person-based similarity index for cortical thickness; PBSI-LGI, person-based similarity index for local gyrification index; PBSI-All, person-based similarity index for all cortical measures.

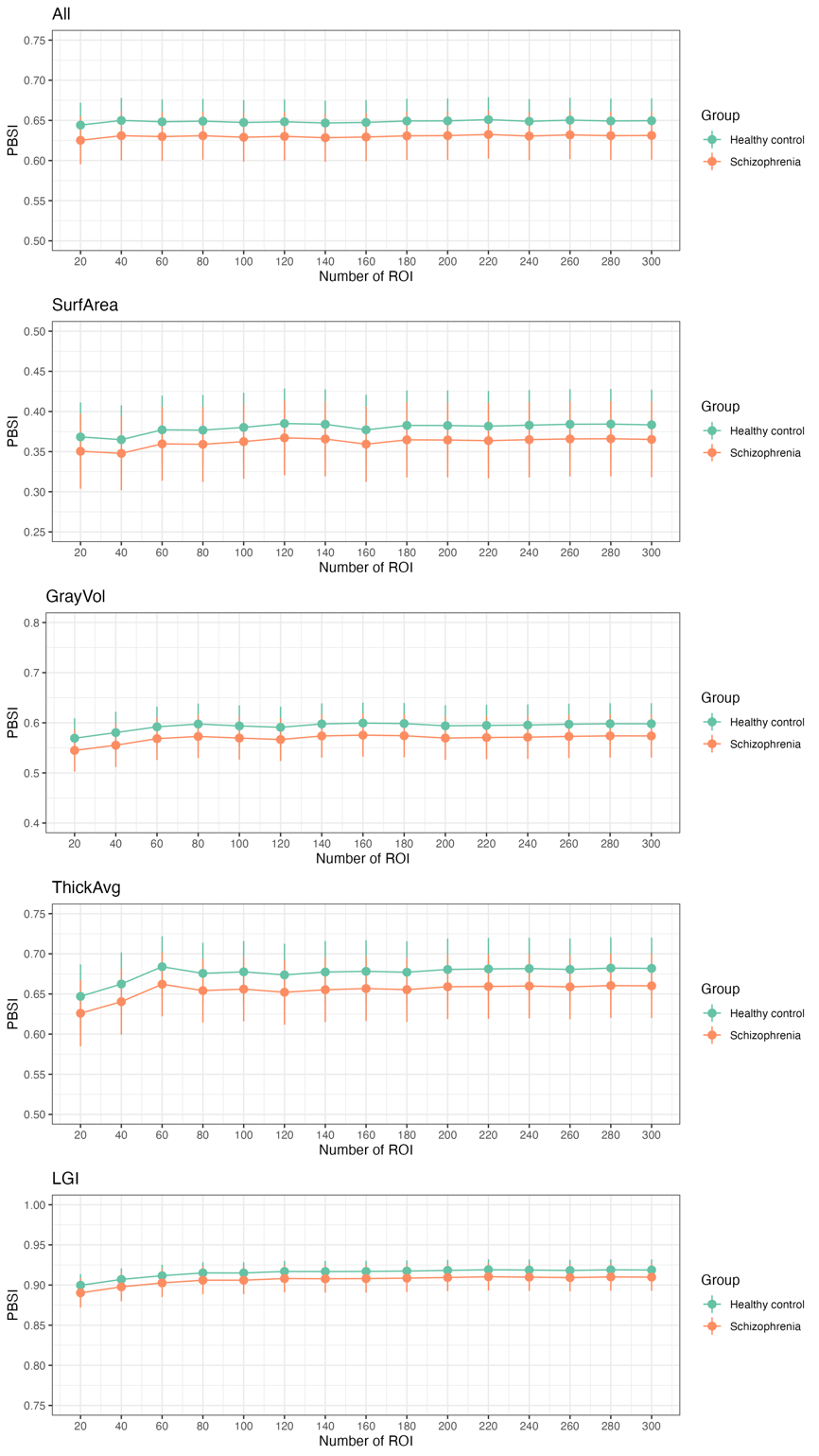
a Mann–Whitney U test was used with Bonferroni correction for multiple testing.

# **Supplementary Table 4-2.** Group comparisons of the PBSI scores according to the von Economo subnetwork

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | | | 2 | | | 3 | | | 4 | | | 5 | | | 6 | | | 7 | | |
|  | HC | SPR |  | HC | SPR |  | HC | SPR |  | HC | SPR |  | HC | SPR |  | HC | SPR |  | HC | SPR |  |
| Modality | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa | Mean (SD) | Mean (SD) | Adj. pa |
| PBSI-SA | 0.278 (0.106) | 0.26 (0.097) | 0.004 | 0.336 (0.074) | 0.315 (0.073) | <0.001 | 0.271 (0.057) | 0.264 (0.056) | 1 | 0.448 (0.096) | 0.449 (0.107) | 1 | 0.374 (0.081) | 0.355 (0.084) | 0.003 | 0.777 (0.06) | 0.754 (0.064) | <0.001 | 0.425 (0.224) | 0.387 (0.227) | <0.001 |
| PBSI-GV | 0.355 (0.112) | 0.309 (0.106) | <0.001 | 0.561 (0.061) | 0.531 (0.06) | <0.001 | 0.417 (0.054) | 0.406 (0.055) | 0.024 | 0.722 (0.051) | 0.71 (0.054) | 0.003 | 0.484 (0.097) | 0.476 (0.097) | 1 | 0.705 (0.08) | 0.68 (0.082) | <0.001 | 0.743 (0.105) | 0.68 (0.142) | <0.001 |
| PBSI-CT | 0.422 (0.106) | 0.365 (0.108) | <0.001 | 0.654 (0.048) | 0.63 (0.053) | <0.001 | 0.455 (0.07) | 0.433 (0.067) | <0.001 | 0.727 (0.052) | 0.701 (0.057) | <0.001 | 0.72 (0.07) | 0.7 (0.077) | <0.001 | 0.378 (0.115) | 0.361 (0.111) | 0.079 | 0.766 (0.119) | 0.752 (0.119) | 0.003 |
| PBSI-LGI | 0.953 (0.015) | 0.951 (0.015) | 1 | 0.898 (0.018) | 0.886 (0.024) | <0.001 | 0.891 (0.023) | 0.88 (0.026) | <0.001 | 0.824 (0.041) | 0.806 (0.048) | <0.001 | 0.903 (0.026) | 0.896 (0.031) | 0.003 | 0.866 (0.039) | 0.858 (0.04) | 0.003 | 0.773 (0.064) | 0.75 (0.076) | <0.001 |
| PBSI-All | 0.563  (0.066) | 0.534 (0.068) | <0.001 | 0.622 (0.037) | 0.599 (0.038) | <0.001 | 0.521 (0.037) | 0.511 (0.037) | 0.001 | 0.685 (0.040) | 0.670 (0.044) | <0.001 | 0.756 (0.047) | 0.741 (0.051) | <0.001 | 0.723 (0.055) | 0.701 (0.055) | <0.001 | 0.884 (0.033) | 0.870 (0.040) | <0.001 |

HC, healthy control; SPR, schizophrenia; PBSI-SA, person-based similarity index for surface area; PBSI-GV, person-based similarity index for gray matter volume; PBSI-CT, person-based similarity index for cortical thickness; PBSI-LGI, person-based similarity index for local gyrification index; PBSI-All, person-based similarity index for all cortical measures.

a Mann–Whitney U test was used with Bonferroni correction for multiple testing.



**Supplementary Figure 3. Trends of the PBSI scores according to the number of included cortical structures.** Grean and orange points and lines indicate the means and standard deviations of the values in healthy controls and patients with schizophrenia, respectively. PBSI, person-based similarity index; SurfArea, surface area; GrayVol, gray matter volume; ThickAvg, cortical thickness; LGI, local gyrification index.

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자동 생성된 설명

**Supplementary Figure 4. Contribution effects of the regional cortical measures to the PBSI scores.** In the group comparisons, red and blue colors depict higher and lower mean contributing effects, respectively, of the regional cortical measures in patients with schizophrenia compared with healthy controls. SurfArea, surface area; Grayvol, gray matter volume; ThickAvg, cortical thickness; LGI, local gyrification index; HC, healthy control; SPR, schizophrenia.

# **Supplementary Table 5-1.** Contribution effects of the regional cortical measures to the PBSI-SA and PBSI-GV scores

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | PBSI-SAa | | | PBSI-GVa | | |
| Structure | HC | SPR |  | HC | SPR |  |
| Mean (SD) | Mean (SD) | Adj. Pb | Mean (SD) | Mean (SD) | Adj. Pb |
| Left.bankssts\_part1 | -0.906 (0.472) | -0.884 (0.465) | 1 | -0.978 (0.69) | -0.983 (0.666) | 1 |
| Left.bankssts\_part2 | -1.055 (0.534) | -1.004 (0.476) | 1 | -0.856 (0.833) | -0.881 (0.808) | 1 |
| Left.caudalanteriorcingulate\_part1 | 1.946 (1.757) | 1.812 (1.602) | 1 | -1.061 (1.504) | -0.927 (1.418) | 1 |
| Left.caudalmiddlefrontal\_part1 | -1.102 (0.482) | -1.071 (0.455) | 1 | -0.901 (0.688) | -0.963 (0.688) | 1 |
| Left.caudalmiddlefrontal\_part2 | -0.867 (0.708) | -0.758 (0.788) | 0.003 | -1.125 (0.537) | -1.066 (0.531) | 1 |
| Left.caudalmiddlefrontal\_part3 | -0.371 (1.165) | -0.54 (1.018) | <0.001 | -1.067 (0.7) | -0.941 (0.788) | <0.001 |
| Left.caudalmiddlefrontal\_part4 | -1.102 (0.584) | -1.119 (0.487) | 1 | -0.612 (0.891) | -0.809 (0.902) | <0.001 |
| Left.cuneus\_part1 | 3.619 (1.64) | 3.394 (1.781) | 1 | -0.751 (0.493) | -0.789 (0.539) | 1 |
| Left.cuneus\_part2 | 2.189 (1.605) | 1.974 (1.661) | 1 | -0.786 (0.647) | -0.868 (0.668) | 0.395 |
| Left.entorhinal\_part1 | -0.202 (1.49) | -0.213 (1.458) | 1 | 1.11 (1.731) | 1.302 (1.693) | 0.006 |
| Left.frontalpole\_part1 | 6.119 (0.735) | 6.249 (0.69) | 0.001 | 2.339 (0.861) | 2.303 (1.02) | 1 |
| Left.fusiform\_part1 | 0.571 (1.318) | 0.558 (1.318) | 1 | 0.094 (1.004) | 0.179 (0.959) | 1 |
| Left.fusiform\_part2 | 2.23 (1.85) | 2.082 (1.738) | 0.561 | 2.815 (1.321) | 2.831 (1.158) | 1 |
| Left.fusiform\_part3 | 0.156 (1.298) | -0.128 (1.261) | <0.001 | -0.974 (0.51) | -1.002 (0.501) | 1 |
| Left.fusiform\_part4 | 2.515 (1.637) | 2.16 (1.649) | <0.001 | 2.346 (1.042) | 2.22 (1.119) | 1 |
| Left.fusiform\_part5 | 0.337 (1.555) | 0.151 (1.459) | 0.002 | 0.26 (1.434) | 0.04 (1.38) | <0.001 |
| Left.inferiorparietal\_part1 | 0.229 (2.018) | 0.205 (1.886) | 1 | -0.838 (1.148) | -0.859 (1.173) | 1 |
| Left.inferiorparietal\_part2 | -0.959 (0.562) | -0.846 (0.704) | <0.001 | -1.103 (0.57) | -1.075 (0.557) | 1 |
| Left.inferiorparietal\_part3 | 0.152 (1.574) | 0.104 (1.525) | 1 | -1.141 (0.619) | -1.236 (0.598) | 0.037 |
| Left.inferiorparietal\_part4 | -1.042 (0.497) | -0.919 (0.603) | <0.001 | -1.019 (0.521) | -1.01 (0.521) | 1 |
| Left.inferiorparietal\_part5 | 1.761 (2.195) | 1.51 (2.271) | 0.142 | -0.991 (1.411) | -0.907 (1.33) | 1 |
| Left.inferiorparietal\_part6 | 0.227 (1.493) | 0.164 (1.437) | 1 | 0.469 (1.255) | 0.337 (1.37) | 1 |
| Left.inferiorparietal\_part7 | -0.615 (1.35) | -0.535 (1.301) | 1 | -0.543 (1.167) | -0.597 (1.129) | 1 |
| Left.inferiorparietal\_part8 | 0.024 (1.65) | 0.118 (1.714) | 1 | -0.737 (1.055) | -0.644 (1.314) | <0.001 |
| Left.inferiortemporal\_part1 | -0.358 (1.084) | -0.465 (1.084) | 0.682 | 2.492 (1.32) | 2.377 (1.426) | 1 |
| Left.inferiortemporal\_part2 | -0.651 (1.132) | -0.689 (1.048) | 1 | -1.599 (1.067) | -1.61 (0.996) | 1 |
| Left.inferiortemporal\_part3 | -0.909 (0.522) | -0.906 (0.551) | 1 | 0.256 (1.232) | 0.105 (1.406) | 1 |
| Left.inferiortemporal\_part4 | -0.828 (1.068) | -0.863 (0.864) | 0.006 | -0.561 (1.651) | -0.789 (1.394) | <0.001 |
| Left.inferiortemporal\_part5 | -0.511 (1.346) | -0.387 (1.452) | 0.002 | -0.469 (1.311) | -0.374 (1.354) | 0.022 |
| Left.inferiortemporal\_part6 | -0.458 (1.318) | -0.618 (1.12) | <0.001 | 0.002 (1.387) | -0.352 (1.455) | <0.001 |
| Left.insula\_part1 | -0.589 (0.253) | -0.585 (0.262) | 1 | 1.036 (0.783) | 0.87 (0.774) | 0.002 |
| Left.insula\_part2 | 0.566 (1.598) | 0.428 (1.723) | 1 | 1.446 (0.845) | 1.246 (1.003) | 0.146 |
| Left.insula\_part3 | -0.597 (0.37) | -0.553 (0.303) | 1 | -0.555 (0.318) | -0.567 (0.283) | 1 |
| Left.insula\_part4 | 0.31 (0.943) | 0.051 (1.043) | 0.002 | -0.575 (0.289) | -0.709 (0.355) | <0.001 |
| Left.isthmuscingulate\_part1 | 1.733 (1.684) | 1.649 (1.579) | 1 | -0.116 (0.834) | -0.134 (0.843) | 1 |
| Left.isthmuscingulate\_part2 | -0.3 (1.264) | -0.282 (1.18) | 1 | -0.47 (0.974) | -0.483 (1.019) | 1 |
| Left.lateraloccipital\_part1 | -0.781 (0.857) | -0.714 (0.739) | 1 | -0.85 (0.792) | -0.777 (0.647) | 1 |
| Left.lateraloccipital\_part2 | -0.385 (1.032) | -0.395 (0.995) | 1 | -0.922 (0.678) | -0.99 (0.612) | 0.009 |
| Left.lateraloccipital\_part3 | -0.844 (0.49) | -0.753 (0.454) | 0.046 | 0.08 (0.955) | 0.019 (1.015) | 1 |
| Left.lateraloccipital\_part4 | -1.055 (0.613) | -0.966 (0.767) | <0.001 | -1.087 (0.871) | -1.04 (0.898) | 1 |
| Left.lateraloccipital\_part5 | -0.203 (0.979) | -0.184 (0.946) | 1 | 0.889 (0.983) | 0.859 (1.165) | 1 |
| Left.lateraloccipital\_part6 | -0.859 (0.393) | -0.805 (0.399) | 0.254 | -1.11 (0.694) | -0.988 (0.698) | <0.001 |
| Left.lateraloccipital\_part7 | -1.142 (0.602) | -1.044 (0.463) | 1 | 1.369 (1.347) | 1.377 (1.245) | 1 |
| Left.lateraloccipital\_part8 | -0.552 (0.7) | -0.455 (0.679) | 1 | 1.462 (1.092) | 1.232 (1.182) | 0.001 |
| Left.lateraloccipital\_part9 | -0.433 (1.071) | -0.589 (0.92) | <0.001 | 0.083 (0.87) | -0.07 (0.943) | 0.012 |
| Left.lateralorbitofrontal\_part1 | 1.552 (1.463) | 1.512 (1.472) | 1 | 1.399 (0.93) | 1.568 (1.018) | <0.001 |
| Left.lateralorbitofrontal\_part2 | 3.709 (1.401) | 3.574 (1.729) | 1 | 1.984 (1.016) | 2.161 (1.045) | <0.001 |
| Left.lateralorbitofrontal\_part3 | 2.117 (1.491) | 2.274 (1.533) | 1 | 0.967 (0.932) | 0.817 (1.003) | 0.073 |
| Left.lateralorbitofrontal\_part4 | 1.436 (1.171) | 1.391 (1.369) | 1 | -0.177 (0.561) | -0.195 (0.654) | 1 |
| Left.lingual\_part1 | -0.759 (0.773) | -0.795 (0.669) | 0.561 | -0.656 (1.108) | -0.32 (1.056) | <0.001 |
| Left.lingual\_part2 | -0.433 (0.948) | -0.12 (1.222) | <0.001 | 0.614 (1.369) | 0.6 (1.339) | 1 |
| Left.lingual\_part3 | -0.467 (1.062) | -0.206 (1.024) | <0.001 | 1.091 (1.02) | 1.192 (1.056) | 0.308 |
| Left.lingual\_part4 | -0.466 (0.758) | -0.15 (1.07) | <0.001 | 3.205 (0.689) | 3.328 (0.677) | <0.001 |
| Left.lingual\_part5 | -1.222 (0.838) | -1.073 (0.767) | 0.007 | 2.484 (1.132) | 2.723 (1.039) | <0.001 |
| Left.lingual\_part6 | -0.632 (0.752) | -0.471 (0.866) | <0.001 | 0.539 (1.214) | 0.798 (1.265) | <0.001 |
| Left.medialorbitofrontal\_part1 | 1.292 (1.163) | 1.189 (1.411) | 1 | 0.127 (0.731) | 0.107 (0.934) | 1 |
| Left.medialorbitofrontal\_part2 | -0.59 (0.506) | -0.558 (0.495) | 1 | -0.833 (0.432) | -0.781 (0.365) | 1 |
| Left.medialorbitofrontal\_part3 | 0.147 (0.955) | 0.203 (0.972) | 1 | -0.383 (0.567) | -0.482 (0.642) | 0.504 |
| Left.middletemporal\_part1 | 1.299 (1.71) | 1.238 (1.699) | 1 | 2.975 (1.255) | 3.028 (1.3) | 0.729 |
| Left.middletemporal\_part2 | 1.105 (1.979) | 0.598 (2.02) | <0.001 | 1.468 (1.517) | 1.137 (1.755) | <0.001 |
| Left.middletemporal\_part3 | -0.047 (1.154) | -0.147 (1.036) | 0.147 | 1.325 (1.642) | 1.246 (1.646) | 1 |
| Left.middletemporal\_part4 | 1.981 (1.935) | 1.623 (2.029) | <0.001 | 2.215 (1.532) | 2.224 (1.667) | 1 |
| Left.middletemporal\_part5 | 0.364 (1.677) | 0.448 (1.642) | 1 | 0.537 (1.428) | 0.414 (1.605) | 1 |
| Left.paracentral\_part1 | 2.366 (1.522) | 1.925 (1.622) | <0.001 | 1.324 (0.975) | 0.963 (1.129) | <0.001 |
| Left.paracentral\_part2 | 2.766 (1.504) | 2.522 (1.617) | 1 | 0.649 (0.906) | 0.617 (0.949) | 1 |
| Left.paracentral\_part3 | 1.553 (1.408) | 1.319 (1.44) | 0.244 | 0.264 (0.843) | 0.096 (0.827) | <0.001 |
| Left.parahippocampal\_part1 | 3.275 (1.631) | 2.893 (1.822) | <0.001 | -0.7 (1.193) | -0.768 (1.259) | 1 |
| Left.parahippocampal\_part2 | 5.108 (0.971) | 5.103 (1.005) | 1 | 1.927 (0.866) | 2.042 (0.917) | 0.016 |
| Left.parsopercularis\_part1 | -1.117 (0.673) | -0.955 (0.684) | <0.001 | -1.214 (0.724) | -1.151 (0.645) | 1 |
| Left.parsopercularis\_part2 | -0.426 (0.855) | -0.281 (0.851) | 0.03 | -0.706 (0.608) | -0.713 (0.532) | 1 |
| Left.parsopercularis\_part3 | -0.644 (1.164) | -0.527 (1.183) | 0.742 | -1.025 (0.931) | -0.785 (0.923) | <0.001 |
| Left.parsorbitalis\_part1 | 0.777 (1.345) | 0.572 (1.328) | 0.04 | 2.244 (0.908) | 2.265 (1.061) | 1 |
| Left.parstriangularis\_part1 | -0.805 (1.208) | -0.731 (1.175) | 1 | -0.174 (1.435) | -0.009 (1.425) | 0.024 |
| Left.parstriangularis\_part2 | 0.054 (1.09) | 0.049 (1.191) | 1 | -1.033 (0.548) | -1.036 (0.606) | 1 |
| Left.pericalcarine\_part1 | 1.51 (2.137) | 0.989 (1.957) | <0.001 | 1.86 (1.127) | 2.036 (1.186) | <0.001 |
| Left.pericalcarine\_part2 | 3.956 (1.791) | 3.299 (2.188) | <0.001 | 0.115 (1.31) | 0.078 (1.289) | 1 |
| Left.postcentral\_part1 | -0.322 (0.812) | -0.542 (0.738) | <0.001 | 0.753 (1.158) | 0.637 (1.186) | 1 |
| Left.postcentral\_part2 | -0.597 (0.476) | -0.642 (0.448) | 0.196 | -0.762 (0.498) | -0.729 (0.471) | 1 |
| Left.postcentral\_part3 | -0.763 (0.815) | -0.828 (0.68) | 0.002 | 0.712 (1.429) | 0.714 (1.365) | 1 |
| Left.postcentral\_part4 | -0.512 (0.671) | -0.616 (0.649) | 0.036 | -0.86 (0.443) | -0.923 (0.489) | 1 |
| Left.postcentral\_part5 | -0.958 (0.415) | -0.95 (0.46) | 1 | -0.263 (1.239) | -0.388 (1.181) | 0.009 |
| Left.postcentral\_part6 | -0.657 (0.7) | -0.756 (0.657) | 0.001 | 1.607 (1.163) | 1.334 (1.47) | 0.018 |
| Left.postcentral\_part7 | -0.914 (0.703) | -0.842 (0.667) | 1 | -1.002 (1.032) | -0.995 (1.004) | 1 |
| Left.postcentral\_part8 | -0.922 (0.455) | -0.88 (0.401) | 1 | 0.135 (1.42) | 0.228 (1.342) | 1 |
| Left.posteriorcingulate\_part1 | 2.108 (1.373) | 2.005 (1.548) | 1 | 0.675 (0.871) | 0.551 (1.17) | 1 |
| Left.posteriorcingulate\_part2 | -0.116 (1.044) | -0.037 (1.238) | 0.12 | -0.835 (0.839) | -1.073 (0.843) | <0.001 |
| Left.precentral\_part1 | -0.519 (0.792) | -0.481 (0.869) | 1 | -0.839 (0.644) | -0.923 (0.581) | 0.002 |
| Left.precentral\_part2 | -0.741 (0.483) | -0.659 (0.415) | 0.095 | -0.744 (0.665) | -0.702 (0.515) | 1 |
| Left.precentral\_part3 | -0.687 (0.671) | -0.729 (0.542) | 0.003 | -0.856 (0.493) | -0.976 (0.532) | <0.001 |
| Left.precentral\_part4 | -1.138 (0.468) | -1.029 (0.444) | 0.005 | -0.284 (1.115) | -0.462 (1.007) | <0.001 |
| Left.precentral\_part5 | -1.094 (0.431) | -1.081 (0.439) | 1 | -1.223 (0.582) | -1.274 (0.653) | 1 |
| Left.precentral\_part6 | -0.849 (0.429) | -0.822 (0.506) | 0.342 | -0.903 (0.654) | -0.925 (0.696) | 1 |
| Left.precentral\_part7 | -0.91 (0.463) | -0.892 (0.45) | 1 | -1 (0.509) | -0.943 (0.559) | 0.544 |
| Left.precentral\_part8 | -0.506 (1.03) | -0.435 (1.004) | 1 | -0.509 (0.84) | -0.43 (0.759) | 1 |
| Left.precentral\_part9 | -0.85 (0.466) | -0.763 (0.506) | 0.001 | -1.012 (0.51) | -0.963 (0.519) | 1 |
| Left.precuneus\_part1 | -0.721 (0.514) | -0.726 (0.427) | 1 | 1.097 (0.863) | 1.027 (0.896) | 1 |
| Left.precuneus\_part2 | -0.627 (1.03) | -0.824 (0.915) | <0.001 | -0.695 (1.02) | -0.949 (1.023) | <0.001 |
| Left.precuneus\_part3 | -1.043 (0.442) | -0.984 (0.399) | 1 | 0.282 (0.886) | 0.309 (0.921) | 1 |
| Left.precuneus\_part4 | -0.836 (0.82) | -0.794 (0.775) | 1 | -1.208 (0.591) | -1.195 (0.594) | 1 |
| Left.precuneus\_part5 | -0.577 (0.784) | -0.577 (0.792) | 1 | -0.721 (0.512) | -0.689 (0.525) | 1 |
| Left.precuneus\_part6 | -1.388 (0.545) | -1.328 (0.549) | 1 | -1.48 (0.721) | -1.415 (0.736) | 1 |
| Left.precuneus\_part7 | -0.954 (0.666) | -0.896 (0.606) | 1 | -0.868 (0.612) | -0.828 (0.523) | 1 |
| Left.rostralanteriorcingulate\_part1 | 5.452 (0.998) | 5.357 (1.001) | 1 | 3.377 (0.944) | 3.37 (1.052) | 1 |
| Left.rostralmiddlefrontal\_part1 | -0.577 (1.289) | -0.656 (1.123) | 0.045 | -1.365 (0.796) | -1.346 (1.017) | 0.182 |
| Left.rostralmiddlefrontal\_part10 | -0.075 (1.297) | -0.207 (1.23) | 1 | -0.86 (0.803) | -0.92 (0.69) | 0.161 |
| Left.rostralmiddlefrontal\_part2 | -0.894 (0.399) | -0.864 (0.436) | 1 | -0.995 (0.489) | -0.955 (0.484) | 1 |
| Left.rostralmiddlefrontal\_part3 | -1.451 (0.528) | -1.219 (0.569) | <0.001 | -1.521 (0.862) | -1.386 (0.872) | 0.095 |
| Left.rostralmiddlefrontal\_part4 | -0.609 (0.414) | -0.646 (0.522) | 1 | -0.447 (0.677) | -0.542 (0.715) | 0.022 |
| Left.rostralmiddlefrontal\_part5 | -0.963 (0.497) | -0.882 (0.391) | 1 | -1.19 (0.667) | -1.093 (0.572) | 1 |
| Left.rostralmiddlefrontal\_part6 | -0.301 (0.798) | -0.322 (0.878) | 1 | -0.438 (0.829) | -0.315 (0.877) | 0.001 |
| Left.rostralmiddlefrontal\_part7 | -0.878 (0.94) | -0.791 (0.99) | 0.098 | -0.983 (0.845) | -0.882 (0.909) | <0.001 |
| Left.rostralmiddlefrontal\_part8 | -0.616 (0.667) | -0.677 (0.652) | 1 | -0.869 (0.485) | -0.843 (0.498) | 1 |
| Left.rostralmiddlefrontal\_part9 | -1.094 (0.47) | -1.021 (0.442) | 0.793 | -0.815 (1.245) | -0.778 (1.199) | 1 |
| Left.superiorfrontal\_part1 | -0.055 (0.781) | -0.21 (0.728) | <0.001 | 1.424 (0.793) | 1.355 (0.865) | 1 |
| Left.superiorfrontal\_part10 | -0.822 (0.419) | -0.76 (0.507) | <0.001 | -0.789 (0.64) | -0.888 (0.564) | <0.001 |
| Left.superiorfrontal\_part11 | -0.583 (1.365) | -0.647 (1.112) | 0.016 | -1.121 (0.565) | -1.105 (0.574) | 1 |
| Left.superiorfrontal\_part12 | -0.479 (1.311) | -0.65 (1.029) | <0.001 | -1.07 (0.504) | -0.981 (0.575) | <0.001 |
| Left.superiorfrontal\_part13 | -0.163 (0.869) | 0.01 (0.97) | <0.001 | -0.539 (0.618) | -0.507 (0.575) | 1 |
| Left.superiorfrontal\_part2 | -0.669 (0.868) | -0.711 (0.708) | 0.107 | -0.698 (0.705) | -0.661 (0.771) | 1 |
| Left.superiorfrontal\_part3 | -0.374 (0.715) | -0.378 (0.743) | 1 | 0.096 (0.931) | 0.1 (0.979) | 1 |
| Left.superiorfrontal\_part4 | -0.561 (1.127) | -0.554 (1.118) | 1 | -1.24 (0.612) | -1.341 (0.606) | 0.023 |
| Left.superiorfrontal\_part5 | -0.61 (0.4) | -0.568 (0.318) | 1 | 0.78 (0.774) | 0.851 (0.712) | 1 |
| Left.superiorfrontal\_part6 | -0.235 (0.994) | -0.158 (1.013) | 1 | -0.943 (0.435) | -0.914 (0.464) | 1 |
| Left.superiorfrontal\_part7 | -0.751 (0.494) | -0.667 (0.411) | 1 | -0.177 (1) | 0.012 (0.882) | 0.007 |
| Left.superiorfrontal\_part8 | 0.042 (1.326) | 0.002 (1.162) | 1 | -0.366 (0.704) | -0.326 (0.741) | 1 |
| Left.superiorfrontal\_part9 | -0.744 (0.474) | -0.655 (0.542) | <0.001 | 0.029 (0.727) | 0.159 (0.836) | 0.001 |
| Left.superiorparietal\_part1 | -0.174 (2.165) | -0.45 (2.2) | 0.08 | -1.299 (1.719) | -1.429 (1.835) | 1 |
| Left.superiorparietal\_part10 | -0.302 (1.278) | -0.21 (1.134) | 1 | -1.052 (0.556) | -1.138 (0.542) | 0.022 |
| Left.superiorparietal\_part2 | -0.773 (0.598) | -0.728 (0.622) | 1 | -0.042 (0.984) | -0.104 (1.031) | 1 |
| Left.superiorparietal\_part3 | -1.332 (0.87) | -1.403 (0.661) | 0.003 | -1.44 (0.985) | -1.547 (0.788) | 0.001 |
| Left.superiorparietal\_part4 | -1.394 (0.654) | -1.212 (0.757) | <0.001 | -1.224 (1.486) | -1.202 (1.264) | 1 |
| Left.superiorparietal\_part5 | -0.771 (1.308) | -0.619 (1.492) | <0.001 | -1 (1.253) | -1.055 (1.179) | 1 |
| Left.superiorparietal\_part6 | -0.484 (1.089) | -0.342 (1.212) | 0.004 | -0.925 (0.719) | -0.837 (0.809) | 0.002 |
| Left.superiorparietal\_part7 | -1.205 (0.567) | -1.257 (0.683) | 1 | -1.47 (0.7) | -1.533 (0.76) | 1 |
| Left.superiorparietal\_part8 | -1.001 (0.547) | -1.016 (0.446) | 1 | 0.301 (0.987) | 0.435 (1.125) | <0.001 |
| Left.superiorparietal\_part9 | -0.822 (0.874) | -0.711 (0.9) | 0.01 | -0.003 (1.391) | 0.037 (1.248) | 1 |
| Left.superiortemporal\_part1 | 0.504 (1.427) | 0.42 (1.402) | 1 | 2.335 (0.98) | 2.323 (0.977) | 1 |
| Left.superiortemporal\_part2 | -0.61 (0.499) | -0.563 (0.569) | 0.088 | 2.401 (0.884) | 2.51 (0.91) | 0.063 |
| Left.superiortemporal\_part3 | -1.009 (0.559) | -0.904 (0.478) | 0.478 | 0.287 (1.646) | 0.577 (1.559) | <0.001 |
| Left.superiortemporal\_part4 | -0.547 (0.571) | -0.547 (0.564) | 1 | 0.981 (1.11) | 1.011 (1.074) | 1 |
| Left.superiortemporal\_part5 | -0.837 (0.686) | -0.775 (0.723) | 0.402 | -0.56 (1.277) | -0.514 (1.235) | 1 |
| Left.superiortemporal\_part6 | -0.868 (0.378) | -0.792 (0.362) | 0.024 | -0.948 (0.691) | -0.907 (0.635) | 1 |
| Left.superiortemporal\_part7 | -0.353 (0.836) | -0.379 (0.824) | 1 | -0.9 (0.572) | -0.834 (0.573) | 0.407 |
| Left.supramarginal\_part1 | -0.828 (1.21) | -0.709 (1.149) | 1 | -1.571 (0.699) | -1.585 (0.697) | 1 |
| Left.supramarginal\_part2 | 0.183 (1.432) | 0.281 (1.407) | 1 | 0.086 (0.965) | 0.104 (0.923) | 1 |
| Left.supramarginal\_part3 | -1.118 (1.262) | -0.737 (1.468) | <0.001 | -0.42 (1.35) | 0.079 (1.358) | <0.001 |
| Left.supramarginal\_part4 | -1.141 (0.481) | -1.064 (0.515) | 0.031 | -1.036 (1.04) | -1.106 (0.945) | 0.364 |
| Left.supramarginal\_part5 | -1.375 (0.554) | -1.145 (0.601) | <0.001 | -0.975 (1.239) | -0.47 (1.291) | <0.001 |
| Left.supramarginal\_part6 | -0.992 (0.734) | -1.011 (0.745) | 1 | -0.961 (0.82) | -1.08 (0.874) | 0.447 |
| Left.supramarginal\_part7 | -0.99 (0.681) | -0.925 (0.635) | 1 | -0.125 (1.328) | -0.162 (1.303) | 1 |
| Left.temporalpole\_part1 | -0.472 (0.714) | -0.396 (0.793) | 0.116 | 3.742 (0.685) | 4 (0.578) | <0.001 |
| Left.transversetemporal\_part1 | 1.879 (1.76) | 1.953 (1.726) | 1 | 1.121 (1.068) | 1.08 (1.126) | 1 |
| Right.bankssts\_part1 | -0.515 (0.619) | -0.49 (0.636) | 1 | -0.252 (0.665) | -0.238 (0.689) | 1 |
| Right.bankssts\_part2 | -0.254 (0.979) | -0.181 (1.066) | 1 | -0.68 (0.546) | -0.668 (0.624) | 1 |
| Right.caudalanteriorcingulate\_part1 | 4.178 (1.451) | 4.104 (1.487) | 1 | 1.131 (1.728) | 1.021 (1.854) | 1 |
| Right.caudalmiddlefrontal\_part1 | -0.484 (1.108) | -0.766 (0.828) | <0.001 | -0.258 (1.064) | 0.081 (1.205) | <0.001 |
| Right.caudalmiddlefrontal\_part2 | 1.003 (1.776) | 1.031 (1.889) | 1 | -0.732 (0.689) | -0.716 (0.904) | 0.062 |
| Right.caudalmiddlefrontal\_part3 | -1.153 (0.561) | -1.005 (0.698) | <0.001 | -0.87 (1.123) | -0.926 (1.138) | 1 |
| Right.caudalmiddlefrontal\_part4 | -0.614 (0.967) | -0.383 (1.177) | <0.001 | -1.103 (0.543) | -1.157 (0.574) | 1 |
| Right.cuneus\_part1 | 0.139 (1.002) | -0.087 (0.875) | <0.001 | 1.413 (0.817) | 1.227 (0.946) | 0.002 |
| Right.cuneus\_part2 | 1.257 (1.587) | 1.247 (1.667) | 1 | 1.84 (1.041) | 1.789 (1.175) | 1 |
| Right.cuneus\_part3 | 0.243 (0.948) | 0.102 (0.948) | 0.705 | 2.655 (0.636) | 2.635 (0.804) | 1 |
| Right.entorhinal\_part1 | -0.953 (0.41) | -0.968 (0.424) | 1 | 1.435 (1.53) | 1.662 (1.429) | <0.001 |
| Right.frontalpole\_part1 | 5.787 (0.702) | 5.995 (0.65) | <0.001 | 0.982 (0.923) | 1.024 (0.947) | 1 |
| Right.fusiform\_part1 | 3.282 (1.371) | 3.121 (1.55) | 1 | 0.397 (0.925) | 0.281 (1.059) | 1 |
| Right.fusiform\_part2 | 1.379 (1.834) | 1.131 (1.84) | 0.029 | 2.522 (1.104) | 2.365 (1.482) | 1 |
| Right.fusiform\_part3 | 1.295 (1.715) | 1.049 (1.777) | 0.072 | 0.461 (1.179) | 0.416 (1.412) | 1 |
| Right.fusiform\_part4 | 2.053 (1.541) | 1.723 (1.586) | <0.001 | 1.7 (1.021) | 1.604 (1.08) | 1 |
| Right.fusiform\_part5 | 1.588 (1.576) | 1.378 (1.643) | 0.546 | 0.571 (1.014) | 0.342 (1.127) | 0.001 |
| Right.inferiorparietal\_part1 | -0.702 (1.518) | -1.03 (1.172) | <0.001 | -1.87 (0.9) | -2.035 (0.755) | <0.001 |
| Right.inferiorparietal\_part10 | -1.169 (0.796) | -1.115 (0.651) | 1 | -1.314 (0.904) | -1.311 (0.845) | 1 |
| Right.inferiorparietal\_part2 | -1.025 (0.586) | -0.896 (0.62) | <0.001 | -1.177 (0.546) | -1.071 (0.506) | 0.012 |
| Right.inferiorparietal\_part3 | -0.666 (1.238) | -0.674 (1.219) | 1 | -0.992 (0.81) | -0.877 (0.824) | 0.009 |
| Right.inferiorparietal\_part4 | -1.032 (0.574) | -0.923 (0.657) | <0.001 | -1.09 (0.528) | -1.11 (0.552) | 1 |
| Right.inferiorparietal\_part5 | -0.19 (1.507) | 0.099 (1.605) | <0.001 | -1.483 (0.685) | -1.311 (0.632) | <0.001 |
| Right.inferiorparietal\_part6 | -1.345 (0.669) | -1.17 (0.803) | <0.001 | -1.229 (1.035) | -1.229 (1.002) | 1 |
| Right.inferiorparietal\_part7 | -0.993 (0.968) | -0.888 (0.913) | 1 | -1.226 (0.86) | -1.259 (0.795) | 1 |
| Right.inferiorparietal\_part8 | -0.478 (1.099) | -0.543 (1.107) | 1 | 0.489 (1.21) | 0.365 (1.466) | 1 |
| Right.inferiorparietal\_part9 | -0.995 (0.43) | -0.941 (0.392) | 1 | -1.191 (0.669) | -1.172 (0.685) | 1 |
| Right.inferiortemporal\_part1 | 0.11 (1.409) | 0.288 (1.682) | <0.001 | 2.299 (1.032) | 2.61 (1.166) | <0.001 |
| Right.inferiortemporal\_part2 | 2.141 (1.929) | 2.077 (1.881) | 1 | 0.673 (1.809) | 0.351 (1.694) | <0.001 |
| Right.inferiortemporal\_part3 | 0.827 (1.715) | 0.885 (1.842) | 1 | 1.944 (1.111) | 1.891 (1.373) | 1 |
| Right.inferiortemporal\_part4 | 2.779 (1.973) | 2.502 (1.962) | 0.001 | 1.623 (1.705) | 1.517 (1.74) | 1 |
| Right.inferiortemporal\_part5 | 2.232 (1.947) | 2.076 (1.914) | 1 | 0.677 (1.323) | 0.493 (1.4) | 0.009 |
| Right.insula\_part1 | 1.937 (1.928) | 1.849 (1.955) | 1 | 0.148 (0.762) | 0.058 (0.826) | 1 |
| Right.insula\_part2 | -0.56 (0.234) | -0.572 (0.246) | 1 | 0.386 (0.589) | 0.347 (0.604) | 1 |
| Right.insula\_part3 | -0.012 (0.845) | -0.005 (0.822) | 1 | -0.538 (0.265) | -0.498 (0.242) | 1 |
| Right.insula\_part4 | 1.812 (1.205) | 1.467 (1.315) | <0.001 | -0.477 (0.347) | -0.54 (0.343) | 0.002 |
| Right.isthmuscingulate\_part1 | 2.204 (1.747) | 2.165 (1.861) | 1 | 0.007 (1.1) | 0.095 (1.211) | 0.01 |
| Right.isthmuscingulate\_part2 | -0.143 (1.336) | 0.028 (1.249) | 1 | -0.724 (0.824) | -0.583 (0.88) | <0.001 |
| Right.lateraloccipital\_part1 | -0.217 (0.864) | -0.069 (0.987) | 0.002 | 0.039 (0.892) | 0.155 (1.02) | <0.001 |
| Right.lateraloccipital\_part2 | -0.778 (0.968) | -0.489 (1.05) | <0.001 | -0.851 (0.438) | -0.872 (0.419) | 1 |
| Right.lateraloccipital\_part3 | -0.537 (0.74) | -0.497 (0.83) | 1 | 0.353 (0.853) | 0.482 (0.941) | <0.001 |
| Right.lateraloccipital\_part4 | -0.515 (0.936) | -0.452 (1.017) | 0.97 | 0.026 (1.013) | 0.017 (1.065) | 1 |
| Right.lateraloccipital\_part5 | -0.876 (0.406) | -0.778 (0.409) | <0.001 | -0.332 (0.838) | -0.382 (0.94) | 1 |
| Right.lateraloccipital\_part6 | -1.066 (0.526) | -1.002 (0.453) | 1 | -0.251 (1.11) | -0.102 (1.164) | <0.001 |
| Right.lateraloccipital\_part7 | -0.786 (0.49) | -0.75 (0.552) | 0.603 | 0.392 (1.083) | 0.468 (1.145) | 1 |
| Right.lateraloccipital\_part8 | 0.38 (1.432) | 0.411 (1.433) | 1 | 1.293 (1.064) | 1.453 (1.07) | 0.004 |
| Right.lateraloccipital\_part9 | -0.514 (1.026) | -0.429 (0.927) | 1 | -0.737 (0.648) | -0.754 (0.579) | 1 |
| Right.lateralorbitofrontal\_part1 | 1.166 (1.651) | 1.232 (1.866) | 1 | 1.655 (0.863) | 1.739 (0.994) | 0.102 |
| Right.lateralorbitofrontal\_part2 | 0.025 (1.073) | 0.073 (1.116) | 1 | 0.179 (0.728) | 0.201 (0.848) | 1 |
| Right.lateralorbitofrontal\_part3 | 0.457 (1.021) | 0.627 (1.158) | 0.003 | 0.481 (0.797) | 0.477 (0.835) | 1 |
| Right.lateralorbitofrontal\_part4 | 1.21 (1.578) | 1.295 (1.596) | 1 | -0.516 (0.524) | -0.468 (0.498) | 1 |
| Right.lingual\_part1 | -0.945 (0.762) | -0.884 (0.721) | 1 | 0.222 (1.094) | 0.392 (1.082) | <0.001 |
| Right.lingual\_part2 | -0.016 (1.177) | 0.297 (1.371) | <0.001 | 0.524 (1.226) | 0.633 (1.346) | 0.004 |
| Right.lingual\_part3 | -0.89 (0.426) | -0.834 (0.522) | 0.004 | -0.072 (0.972) | 0.141 (1.161) | <0.001 |
| Right.lingual\_part4 | -0.591 (0.601) | -0.347 (0.956) | <0.001 | 2.376 (0.919) | 2.597 (0.915) | <0.001 |
| Right.lingual\_part5 | -1.241 (0.493) | -1.137 (0.552) | 0.001 | 2.013 (1.013) | 2.304 (0.974) | <0.001 |
| Right.lingual\_part6 | -0.726 (0.547) | -0.548 (0.73) | <0.001 | 0.608 (1.114) | 0.809 (1.252) | <0.001 |
| Right.medialorbitofrontal\_part1 | -0.52 (0.494) | -0.441 (0.479) | 0.025 | -0.413 (0.529) | -0.334 (0.511) | 0.585 |
| Right.medialorbitofrontal\_part2 | 0.776 (1.409) | 0.899 (1.54) | 0.44 | 0.136 (0.734) | 0.19 (0.788) | 1 |
| Right.medialorbitofrontal\_part3 | 1.87 (1.368) | 2.168 (1.335) | 0.001 | 0.862 (0.818) | 0.825 (0.914) | 1 |
| Right.middletemporal\_part1 | -0.604 (0.644) | -0.68 (0.667) | 0.454 | 0.437 (1.131) | 0.238 (1.365) | 1 |
| Right.middletemporal\_part2 | -0.852 (0.449) | -0.822 (0.431) | 1 | 1.554 (1.397) | 1.485 (1.537) | 1 |
| Right.middletemporal\_part3 | -0.792 (0.392) | -0.816 (0.411) | 1 | 1.284 (1.029) | 1.144 (1.345) | 1 |
| Right.middletemporal\_part4 | -0.462 (1.351) | -0.306 (1.362) | 0.365 | -0.521 (1.414) | -0.333 (1.492) | <0.001 |
| Right.middletemporal\_part5 | 0.589 (1.518) | 0.558 (1.391) | 1 | 1.926 (1.1) | 2.005 (1.104) | 1 |
| Right.middletemporal\_part6 | -0.611 (0.553) | -0.744 (0.538) | <0.001 | 0.376 (1.12) | 0.246 (1.173) | 1 |
| Right.paracentral\_part1 | -0.711 (0.456) | -0.741 (0.466) | 1 | 0.645 (1.043) | 0.603 (1.122) | 1 |
| Right.paracentral\_part2 | 0.353 (1.481) | 0.234 (1.451) | 1 | -0.945 (0.451) | -0.975 (0.485) | 1 |
| Right.paracentral\_part3 | -0.522 (0.756) | -0.55 (0.633) | 0.972 | -0.399 (0.792) | -0.493 (0.664) | <0.001 |
| Right.parahippocampal\_part1 | 4.825 (1.07) | 4.699 (1.172) | 1 | 1.849 (0.93) | 1.866 (1.045) | 1 |
| Right.parahippocampal\_part2 | 4.079 (1.1) | 3.786 (1.477) | 0.062 | 0.163 (0.948) | 0.026 (1.013) | 0.003 |
| Right.parsopercularis\_part1 | 2.627 (1.552) | 2.665 (1.632) | 1 | -0.664 (0.557) | -0.593 (0.62) | <0.001 |
| Right.parsopercularis\_part2 | 1.135 (1.848) | 1.325 (1.995) | 0.018 | -0.864 (0.765) | -0.723 (0.889) | <0.001 |
| Right.parsopercularis\_part3 | 1.013 (1.982) | 1.454 (2.007) | <0.001 | 0.31 (1.445) | 0.629 (1.575) | <0.001 |
| Right.parsorbitalis\_part1 | 4.248 (1.133) | 4.255 (1.261) | 1 | 3.342 (0.586) | 3.552 (0.617) | <0.001 |
| Right.parstriangularis\_part1 | -0.275 (1.094) | -0.293 (1.338) | 1 | -1.046 (0.604) | -1.172 (0.569) | <0.001 |
| Right.parstriangularis\_part2 | 1.751 (1.618) | 1.701 (1.693) | 1 | 1.17 (1.013) | 1.264 (1.186) | 0.037 |
| Right.parstriangularis\_part3 | 0.204 (1.528) | 0.479 (1.827) | <0.001 | -1.115 (0.541) | -1.046 (0.601) | 0.022 |
| Right.pericalcarine\_part1 | -1.002 (0.53) | -0.932 (0.631) | 0.003 | 3.156 (0.628) | 3.296 (0.671) | <0.001 |
| Right.pericalcarine\_part2 | -0.099 (1.346) | 0.117 (1.46) | 0.001 | 3.183 (0.67) | 3.394 (0.685) | <0.001 |
| Right.pericalcarine\_part3 | -0.545 (0.75) | -0.456 (0.944) | <0.001 | 3.297 (0.57) | 3.408 (0.635) | <0.001 |
| Right.postcentral\_part1 | 0.073 (1.283) | -0.102 (1.262) | 0.112 | 0.965 (1.329) | 0.878 (1.374) | 1 |
| Right.postcentral\_part2 | -0.458 (0.548) | -0.468 (0.536) | 1 | -0.576 (0.407) | -0.617 (0.394) | 1 |
| Right.postcentral\_part3 | -0.355 (1.394) | -0.509 (1.105) | <0.001 | 0.803 (1.573) | 0.812 (1.565) | 1 |
| Right.postcentral\_part4 | 1.256 (1.172) | 1.009 (1.287) | 0.08 | -0.236 (0.543) | -0.369 (0.547) | <0.001 |
| Right.postcentral\_part5 | -0.729 (1.252) | -0.646 (1.173) | 1 | -0.702 (1.436) | -0.716 (1.462) | 1 |
| Right.postcentral\_part6 | -0.773 (0.777) | -0.865 (0.592) | <0.001 | 0.346 (1.216) | -0.049 (1.289) | <0.001 |
| Right.postcentral\_part7 | 0.328 (1.475) | 0.262 (1.581) | 1 | 1.287 (1.45) | 1.425 (1.34) | 0.73 |
| Right.postcentral\_part8 | -0.374 (0.962) | -0.518 (0.946) | 0.006 | 0.847 (1.237) | 0.861 (1.412) | 1 |
| Right.posteriorcingulate\_part1 | 0.679 (1.375) | 0.737 (1.395) | 1 | -0.542 (0.939) | -0.528 (0.973) | 1 |
| Right.posteriorcingulate\_part2 | 0.459 (1.214) | 0.534 (1.271) | 1 | -0.882 (0.507) | -0.873 (0.519) | 1 |
| Right.precentral\_part1 | -0.761 (0.344) | -0.753 (0.33) | 1 | -0.576 (0.5) | -0.687 (0.556) | 0.002 |
| Right.precentral\_part2 | -0.852 (0.624) | -0.941 (0.573) | 0.004 | -1.073 (0.664) | -1.184 (0.66) | 0.015 |
| Right.precentral\_part3 | -1.228 (0.505) | -1.039 (0.669) | <0.001 | -0.657 (1.151) | -0.776 (0.968) | <0.001 |
| Right.precentral\_part4 | -0.63 (1.529) | -0.774 (1.42) | 0.022 | -1.259 (0.821) | -1.362 (0.748) | 0.008 |
| Right.precentral\_part5 | -0.575 (0.749) | -0.607 (0.717) | 1 | -0.894 (0.515) | -0.926 (0.476) | 1 |
| Right.precentral\_part6 | -0.358 (0.984) | -0.508 (0.999) | 0.034 | -1.242 (0.607) | -1.323 (0.632) | 1 |
| Right.precentral\_part7 | -0.709 (0.61) | -0.806 (0.664) | 0.779 | -0.689 (0.751) | -0.686 (0.739) | 1 |
| Right.precentral\_part8 | 0.056 (1.25) | 0.262 (1.289) | 0.001 | -0.723 (0.85) | -0.954 (0.765) | <0.001 |
| Right.precentral\_part9 | -0.905 (0.49) | -0.797 (0.547) | <0.001 | -0.849 (1.01) | -0.918 (0.959) | 0.499 |
| Right.precuneus\_part1 | -0.756 (0.386) | -0.753 (0.37) | 1 | 0.386 (0.784) | 0.445 (0.846) | 1 |
| Right.precuneus\_part2 | -0.078 (1.013) | -0.038 (0.953) | 1 | -0.491 (0.644) | -0.498 (0.674) | 1 |
| Right.precuneus\_part3 | -0.867 (0.393) | -0.866 (0.374) | 1 | -0.955 (0.672) | -0.964 (0.655) | 1 |
| Right.precuneus\_part4 | -0.949 (0.476) | -0.794 (0.667) | <0.001 | 1.486 (0.946) | 1.339 (0.975) | 0.055 |
| Right.precuneus\_part5 | -0.967 (0.831) | -0.934 (0.801) | 1 | -1.103 (0.604) | -1.145 (0.599) | 1 |
| Right.precuneus\_part6 | -0.802 (0.387) | -0.794 (0.36) | 1 | -0.759 (0.403) | -0.853 (0.42) | <0.001 |
| Right.precuneus\_part7 | 0.048 (1.624) | 0.038 (1.492) | 1 | -1.131 (0.856) | -1.222 (0.828) | 0.256 |
| Right.rostralanteriorcingulate\_part1 | 1.224 (1.414) | 0.914 (1.506) | <0.001 | 0.935 (1.337) | 0.824 (1.569) | 1 |
| Right.rostralmiddlefrontal\_part1 | -0.633 (0.49) | -0.622 (0.461) | 1 | 0.075 (0.984) | 0.239 (0.906) | 0.004 |
| Right.rostralmiddlefrontal\_part10 | 0.583 (1.629) | 0.567 (1.621) | 1 | -0.893 (0.821) | -0.862 (0.911) | 1 |
| Right.rostralmiddlefrontal\_part2 | -0.538 (0.599) | -0.571 (0.544) | 1 | -0.389 (0.637) | -0.435 (0.644) | 1 |
| Right.rostralmiddlefrontal\_part3 | 0.669 (1.744) | 0.535 (1.778) | 1 | -0.509 (1.257) | -0.537 (1.276) | 1 |
| Right.rostralmiddlefrontal\_part4 | -0.566 (0.873) | -0.464 (0.846) | 1 | -0.942 (0.822) | -0.898 (0.666) | 1 |
| Right.rostralmiddlefrontal\_part5 | -1.104 (0.469) | -1.073 (0.511) | 1 | -1.466 (0.689) | -1.442 (0.677) | 1 |
| Right.rostralmiddlefrontal\_part6 | -0.805 (0.532) | -0.786 (0.56) | 1 | -0.928 (0.488) | -0.967 (0.503) | 1 |
| Right.rostralmiddlefrontal\_part7 | -0.981 (0.781) | -1.044 (0.597) | <0.001 | -1.132 (0.628) | -1.005 (0.81) | <0.001 |
| Right.rostralmiddlefrontal\_part8 | -0.989 (0.478) | -1.004 (0.477) | 1 | -1.202 (0.608) | -1.275 (0.607) | 0.621 |
| Right.rostralmiddlefrontal\_part9 | -0.681 (1.118) | -0.72 (1.021) | 1 | -0.783 (1.269) | -0.597 (1.171) | 0.003 |
| Right.superiorfrontal\_part1 | -0.661 (0.722) | -0.594 (0.714) | 1 | -0.843 (0.717) | -0.723 (0.762) | <0.001 |
| Right.superiorfrontal\_part10 | -0.843 (0.393) | -0.76 (0.523) | <0.001 | -1.024 (0.675) | -1.115 (0.574) | <0.001 |
| Right.superiorfrontal\_part11 | -0.282 (0.997) | -0.376 (0.917) | 0.732 | 0.17 (0.745) | 0.218 (0.825) | 1 |
| Right.superiorfrontal\_part12 | -0.854 (0.497) | -0.82 (0.544) | 1 | -0.694 (0.695) | -0.633 (0.77) | 0.359 |
| Right.superiorfrontal\_part13 | -0.414 (0.599) | -0.439 (0.63) | 1 | -0.504 (0.472) | -0.585 (0.54) | 0.925 |
| Right.superiorfrontal\_part2 | -0.345 (0.464) | -0.264 (0.54) | 0.005 | 0.05 (0.613) | 0.111 (0.697) | 0.154 |
| Right.superiorfrontal\_part3 | 1.309 (1.904) | 1.03 (1.933) | 0.005 | -1.063 (0.581) | -1.138 (0.57) | 0.137 |
| Right.superiorfrontal\_part4 | -0.577 (0.439) | -0.597 (0.329) | 0.013 | -0.352 (0.782) | -0.415 (0.687) | 0.009 |
| Right.superiorfrontal\_part5 | 0.431 (1.667) | 0.255 (1.657) | 0.089 | -1.139 (0.666) | -1.223 (0.657) | 0.91 |
| Right.superiorfrontal\_part6 | -0.103 (0.699) | 0.059 (0.77) | <0.001 | 0.292 (0.625) | 0.161 (0.683) | 0.05 |
| Right.superiorfrontal\_part7 | 0.217 (1.36) | 0.097 (1.332) | 1 | -0.688 (0.636) | -0.683 (0.7) | 1 |
| Right.superiorfrontal\_part8 | -0.651 (0.338) | -0.638 (0.351) | 1 | 0.219 (0.755) | 0.217 (0.776) | 1 |
| Right.superiorfrontal\_part9 | -0.944 (0.856) | -0.955 (0.679) | 0.914 | -1.215 (0.683) | -1.205 (0.597) | 1 |
| Right.superiorparietal\_part1 | -0.64 (1.004) | -0.53 (1.023) | 0.518 | 0.927 (1.367) | 0.966 (1.263) | 1 |
| Right.superiorparietal\_part10 | -1.356 (0.536) | -1.196 (0.483) | <0.001 | -0.535 (1.304) | -0.361 (1.161) | 0.146 |
| Right.superiorparietal\_part2 | 0.215 (1.508) | 0.009 (1.446) | 0.035 | -0.419 (1.17) | -0.602 (1.258) | 0.001 |
| Right.superiorparietal\_part3 | -0.412 (0.936) | -0.5 (0.842) | 0.057 | -0.87 (0.609) | -0.942 (0.628) | 1 |
| Right.superiorparietal\_part4 | -0.679 (0.829) | -0.725 (0.834) | 1 | -0.863 (0.746) | -0.955 (0.821) | 1 |
| Right.superiorparietal\_part5 | -1.007 (0.475) | -1.011 (0.436) | 1 | 0.852 (1.134) | 0.666 (1.208) | 0.023 |
| Right.superiorparietal\_part6 | -1.075 (0.507) | -1.031 (0.635) | 0.034 | -1.173 (0.661) | -1.302 (0.659) | 0.004 |
| Right.superiorparietal\_part7 | -0.949 (0.672) | -0.848 (0.57) | 1 | -1.302 (0.653) | -1.396 (0.715) | 1 |
| Right.superiorparietal\_part8 | -1.131 (0.815) | -0.954 (1.027) | <0.001 | -1.202 (1.318) | -1.218 (1.215) | 1 |
| Right.superiorparietal\_part9 | -0.658 (1.19) | -0.685 (0.983) | 0.172 | -0.952 (0.934) | -0.897 (0.795) | 1 |
| Right.superiortemporal\_part1 | -0.065 (0.98) | 0.113 (1.114) | <0.001 | 2.674 (0.778) | 2.893 (0.801) | <0.001 |
| Right.superiortemporal\_part2 | -0.212 (1.003) | -0.068 (1.039) | 0.087 | 0.233 (0.911) | 0.256 (0.922) | 1 |
| Right.superiortemporal\_part3 | -0.219 (1.029) | -0.296 (0.919) | 0.117 | 1.652 (0.921) | 1.491 (0.996) | 0.304 |
| Right.superiortemporal\_part4 | -0.434 (0.839) | -0.497 (0.781) | 0.227 | 0.474 (0.99) | 0.233 (1.011) | <0.001 |
| Right.superiortemporal\_part5 | 0.329 (1.101) | 0.328 (1.121) | 1 | 0.823 (0.844) | 0.694 (1.082) | 1 |
| Right.superiortemporal\_part6 | 0.487 (0.946) | 0.557 (1.082) | 1 | -0.639 (0.306) | -0.69 (0.343) | 1 |
| Right.supramarginal\_part1 | -0.859 (0.771) | -0.788 (0.813) | 0.211 | -0.235 (1.045) | -0.297 (1.127) | 1 |
| Right.supramarginal\_part2 | 0.172 (0.927) | 0.103 (0.914) | 1 | 0.349 (0.638) | 0.364 (0.64) | 1 |
| Right.supramarginal\_part3 | -0.68 (1.02) | -0.698 (1.095) | 1 | -0.63 (0.811) | -0.691 (0.952) | 1 |
| Right.supramarginal\_part4 | -0.657 (1.195) | -0.417 (1.252) | <0.001 | -1.286 (0.662) | -1.365 (0.645) | 1 |
| Right.supramarginal\_part5 | -1.089 (0.771) | -1.131 (0.587) | 0.001 | -0.551 (0.989) | -0.483 (1.031) | 0.917 |
| Right.supramarginal\_part6 | 0.587 (1.579) | 0.525 (1.349) | 1 | -0.898 (0.501) | -0.835 (0.426) | 1 |
| Right.supramarginal\_part7 | -0.301 (1.145) | -0.225 (1.062) | 1 | -0.273 (1.014) | -0.104 (0.955) | <0.001 |
| Right.temporalpole\_part1 | -0.777 (0.562) | -0.574 (0.784) | <0.001 | 3.549 (0.57) | 3.734 (0.767) | <0.001 |
| Right.transversetemporal\_part1 | 5.532 (0.762) | 5.813 (0.648) | <0.001 | 3.023 (0.65) | 3.276 (0.585) | <0.001 |

PBSI-SA, person-based similarity index for surface area; PBSI-GV, person-based similarity index for gray matter volume; HC, healthy control; SPR, schizophrenia.

a expressed as ×10-3

b Mann–Whitney U test was used with Bonferroni correction for multiple testing.

# **Supplementary Table 5-2.** Contribution effects of the regional cortical measures to the PBSI-CT and PBSI-LGI scores

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | PBSI-CTa | | | PBSI-LGIa | | |
| Structure | HC | SPR |  | HC | SPR |  |
| Mean (SD) | Mean (SD) | Adj. Pb | Mean (SD) | Mean (SD) | Adj. Pb |
| Left.bankssts\_part1 | -1.024 (0.448) | -1.043 (0.441) | 1 | 0.329 (0.279) | 0.402 (0.287) | <0.001 |
| Left.bankssts\_part2 | -1.027 (0.446) | -1.015 (0.43) | 1 | 0.191 (0.263) | 0.21 (0.26) | 1 |
| Left.caudalanteriorcingulate\_part1 | -1.493 (0.777) | -1.462 (0.761) | 1 | 0.761 (0.14) | 0.849 (0.168) | <0.001 |
| Left.caudalmiddlefrontal\_part1 | -0.997 (0.549) | -0.879 (0.491) | 1 | -0.481 (0.287) | -0.486 (0.311) | 1 |
| Left.caudalmiddlefrontal\_part2 | -0.879 (0.523) | -0.834 (0.438) | 0.003 | -0.446 (0.24) | -0.517 (0.292) | 0.002 |
| Left.caudalmiddlefrontal\_part3 | -0.777 (0.476) | -0.722 (0.417) | <0.001 | 0.088 (0.282) | 0.028 (0.33) | <0.001 |
| Left.caudalmiddlefrontal\_part4 | -0.906 (0.524) | -0.931 (0.596) | 1 | -0.302 (0.206) | -0.404 (0.247) | <0.001 |
| Left.cuneus\_part1 | 2.691 (0.489) | 2.74 (0.533) | 1 | -0.475 (0.263) | -0.541 (0.3) | 0.001 |
| Left.cuneus\_part2 | 2.464 (0.614) | 2.404 (0.9) | 1 | -0.465 (0.333) | -0.533 (0.427) | 0.035 |
| Left.entorhinal\_part1 | -1.806 (0.978) | -1.748 (0.968) | 1 | -0.011 (0.239) | -0.009 (0.24) | 1 |
| Left.frontalpole\_part1 | 0.584 (1.343) | 0.79 (1.343) | 0.001 | 0.608 (0.15) | 0.677 (0.191) | <0.001 |
| Left.fusiform\_part1 | -1.07 (0.79) | -0.948 (0.829) | 1 | -0.357 (0.247) | -0.381 (0.264) | 1 |
| Left.fusiform\_part2 | 0.541 (1.392) | 0.464 (1.418) | 0.561 | 0.095 (0.233) | 0.127 (0.216) | 0.934 |
| Left.fusiform\_part3 | -0.733 (0.876) | -0.514 (0.955) | <0.001 | -0.098 (0.17) | -0.147 (0.227) | 0.041 |
| Left.fusiform\_part4 | -0.053 (1.15) | -0.074 (1.234) | <0.001 | -0.169 (0.161) | -0.18 (0.187) | 1 |
| Left.fusiform\_part5 | -0.976 (0.825) | -0.972 (0.676) | 0.002 | -0.191 (0.173) | -0.24 (0.2) | <0.001 |
| Left.inferiorparietal\_part1 | -0.684 (0.616) | -0.771 (0.579) | 1 | -0.163 (0.216) | -0.173 (0.246) | 1 |
| Left.inferiorparietal\_part2 | -1.068 (0.509) | -1.051 (0.466) | <0.001 | -0.453 (0.265) | -0.514 (0.288) | 0.001 |
| Left.inferiorparietal\_part3 | -0.74 (0.435) | -0.882 (0.502) | 1 | 0.075 (0.206) | 0.019 (0.25) | 0.001 |
| Left.inferiorparietal\_part4 | -0.824 (0.48) | -0.822 (0.439) | <0.001 | -0.425 (0.264) | -0.469 (0.264) | 0.016 |
| Left.inferiorparietal\_part5 | -0.698 (0.667) | -0.713 (0.659) | 0.142 | -0.105 (0.178) | -0.127 (0.22) | 1 |
| Left.inferiorparietal\_part6 | -1.072 (0.413) | -1.074 (0.436) | 1 | -0.289 (0.238) | -0.296 (0.244) | 1 |
| Left.inferiorparietal\_part7 | -1.204 (0.589) | -1.151 (0.493) | 1 | -0.266 (0.183) | -0.284 (0.22) | 1 |
| Left.inferiorparietal\_part8 | -0.995 (0.497) | -0.906 (0.44) | 1 | -0.057 (0.189) | -0.086 (0.241) | 1 |
| Left.inferiortemporal\_part1 | 2.021 (1.008) | 1.922 (1.194) | 0.682 | 0.084 (0.322) | 0.139 (0.306) | 0.014 |
| Left.inferiortemporal\_part2 | -1.156 (0.51) | -1.142 (0.478) | 1 | -0.381 (0.225) | -0.397 (0.212) | 1 |
| Left.inferiortemporal\_part3 | -0.108 (1.358) | -0.302 (1.475) | 1 | -0.098 (0.249) | -0.077 (0.284) | 1 |
| Left.inferiortemporal\_part4 | -0.625 (0.876) | -0.739 (0.778) | 0.006 | -0.33 (0.249) | -0.339 (0.214) | 1 |
| Left.inferiortemporal\_part5 | -1.126 (0.816) | -1.133 (0.75) | 0.002 | -0.427 (0.305) | -0.413 (0.316) | 1 |
| Left.inferiortemporal\_part6 | -0.852 (0.86) | -0.9 (0.872) | <0.001 | -0.33 (0.234) | -0.338 (0.247) | 1 |
| Left.insula\_part1 | -1.139 (0.468) | -1.145 (0.528) | 1 | 0.757 (0.141) | 0.845 (0.171) | <0.001 |
| Left.insula\_part2 | 3.006 (0.531) | 3.157 (0.572) | 1 | 0.601 (0.175) | 0.604 (0.207) | 1 |
| Left.insula\_part3 | 0.973 (1.173) | 0.961 (1.258) | 1 | 0.764 (0.142) | 0.851 (0.172) | <0.001 |
| Left.insula\_part4 | 1.947 (0.905) | 2.028 (1.03) | 0.002 | 0.731 (0.14) | 0.808 (0.167) | <0.001 |
| Left.isthmuscingulate\_part1 | -1.734 (0.749) | -1.794 (0.719) | 1 | -0.579 (0.338) | -0.599 (0.347) | 1 |
| Left.isthmuscingulate\_part2 | -0.513 (1.08) | -0.342 (0.919) | 1 | -0.48 (0.362) | -0.53 (0.401) | 1 |
| Left.lateraloccipital\_part1 | 0.006 (1.039) | -0.058 (0.992) | 1 | -0.394 (0.305) | -0.441 (0.36) | 1 |
| Left.lateraloccipital\_part2 | -1.086 (0.668) | -1.083 (0.716) | 1 | -0.389 (0.238) | -0.44 (0.253) | 0.001 |
| Left.lateraloccipital\_part3 | 1.153 (1.278) | 1.12 (1.358) | 0.046 | -0.115 (0.343) | -0.134 (0.388) | 1 |
| Left.lateraloccipital\_part4 | -1.103 (0.55) | -1.11 (0.553) | <0.001 | -0.403 (0.224) | -0.466 (0.246) | <0.001 |
| Left.lateraloccipital\_part5 | 1.777 (1.088) | 1.718 (1.281) | 1 | 0.133 (0.224) | 0.114 (0.306) | 1 |
| Left.lateraloccipital\_part6 | -0.254 (1.295) | -0.328 (1.324) | 0.254 | -0.006 (0.203) | -0.038 (0.267) | 1 |
| Left.lateraloccipital\_part7 | 1.774 (0.883) | 1.759 (1.07) | 1 | -0.207 (0.289) | -0.245 (0.365) | 1 |
| Left.lateraloccipital\_part8 | 2.174 (0.924) | 1.958 (1.141) | 1 | 0.14 (0.185) | 0.132 (0.232) | 1 |
| Left.lateraloccipital\_part9 | -0.023 (1.191) | 0.025 (1.147) | <0.001 | -0.174 (0.253) | -0.237 (0.327) | 0.028 |
| Left.lateralorbitofrontal\_part1 | -0.635 (0.982) | -0.44 (0.925) | 1 | 0.439 (0.169) | 0.486 (0.233) | <0.001 |
| Left.lateralorbitofrontal\_part2 | -0.99 (0.69) | -0.785 (0.76) | 1 | 0.137 (0.225) | 0.206 (0.232) | <0.001 |
| Left.lateralorbitofrontal\_part3 | -0.89 (0.44) | -0.932 (0.446) | 1 | -0.35 (0.291) | -0.306 (0.321) | <0.001 |
| Left.lateralorbitofrontal\_part4 | -0.77 (0.524) | -0.755 (0.507) | 1 | -0.303 (0.264) | -0.372 (0.267) | <0.001 |
| Left.lingual\_part1 | 0.824 (1.077) | 0.817 (1.118) | 0.561 | -0.356 (0.259) | -0.379 (0.256) | 1 |
| Left.lingual\_part2 | 2.467 (0.656) | 2.363 (0.975) | <0.001 | -0.172 (0.292) | -0.155 (0.347) | 1 |
| Left.lingual\_part3 | 0.736 (1.354) | 0.765 (1.434) | <0.001 | -0.526 (0.327) | -0.496 (0.293) | 1 |
| Left.lingual\_part4 | 2.969 (0.619) | 3.11 (0.535) | <0.001 | -0.559 (0.297) | -0.628 (0.355) | 0.022 |
| Left.lingual\_part5 | 2.751 (0.582) | 2.815 (0.803) | 0.007 | -0.603 (0.318) | -0.605 (0.339) | 1 |
| Left.lingual\_part6 | 1.832 (1.027) | 1.943 (0.955) | <0.001 | -0.266 (0.22) | -0.328 (0.301) | 0.014 |
| Left.medialorbitofrontal\_part1 | -1.243 (0.616) | -1.386 (0.591) | 1 | 0.496 (0.192) | 0.566 (0.207) | <0.001 |
| Left.medialorbitofrontal\_part2 | -1.233 (0.563) | -1.203 (0.571) | 1 | 0.653 (0.14) | 0.732 (0.175) | <0.001 |
| Left.medialorbitofrontal\_part3 | -1.064 (0.68) | -0.999 (0.724) | 1 | 0.626 (0.147) | 0.709 (0.175) | <0.001 |
| Left.middletemporal\_part1 | 1.777 (1.166) | 1.563 (1.451) | 1 | -0.653 (0.524) | -0.603 (0.479) | 1 |
| Left.middletemporal\_part2 | -0.796 (0.872) | -0.684 (0.95) | <0.001 | -0.218 (0.233) | -0.225 (0.227) | 1 |
| Left.middletemporal\_part3 | 1.511 (1.019) | 1.466 (1.07) | 0.147 | -0.744 (0.473) | -0.719 (0.397) | 1 |
| Left.middletemporal\_part4 | 0.113 (1.249) | 0.289 (1.396) | <0.001 | -0.246 (0.37) | -0.193 (0.378) | <0.001 |
| Left.middletemporal\_part5 | -0.211 (0.88) | -0.407 (1) | 1 | 0.287 (0.381) | 0.264 (0.532) | 1 |
| Left.paracentral\_part1 | 0.752 (0.926) | 0.469 (1.016) | <0.001 | 0.241 (0.223) | 0.253 (0.23) | 1 |
| Left.paracentral\_part2 | -1.112 (0.524) | -1.176 (0.652) | 1 | 0.406 (0.186) | 0.456 (0.182) | <0.001 |
| Left.paracentral\_part3 | -1.074 (0.511) | -1.246 (0.532) | 0.244 | 0.374 (0.177) | 0.406 (0.185) | 0.182 |
| Left.parahippocampal\_part1 | -2.029 (1.293) | -2.096 (1.104) | <0.001 | -0.343 (0.243) | -0.378 (0.282) | 1 |
| Left.parahippocampal\_part2 | -1.666 (0.757) | -1.773 (0.769) | 1 | -0.451 (0.299) | -0.448 (0.314) | 1 |
| Left.parsopercularis\_part1 | -1.215 (0.526) | -1.227 (0.542) | <0.001 | 0.575 (0.187) | 0.593 (0.243) | 1 |
| Left.parsopercularis\_part2 | -0.371 (0.907) | -0.51 (0.984) | 0.03 | 0.734 (0.141) | 0.809 (0.166) | <0.001 |
| Left.parsopercularis\_part3 | -0.964 (0.399) | -1.06 (0.444) | 0.742 | 0.638 (0.153) | 0.688 (0.175) | <0.001 |
| Left.parsorbitalis\_part1 | -0.31 (0.868) | -0.38 (0.945) | 0.04 | -0.663 (0.334) | -0.749 (0.399) | 0.017 |
| Left.parstriangularis\_part1 | -1.264 (0.555) | -1.192 (0.576) | 1 | 0.389 (0.321) | 0.355 (0.41) | 1 |
| Left.parstriangularis\_part2 | -0.788 (0.626) | -0.828 (0.635) | 1 | 0.497 (0.198) | 0.442 (0.286) | 0.049 |
| Left.pericalcarine\_part1 | 3 (0.558) | 3.182 (0.469) | <0.001 | -0.226 (0.315) | -0.241 (0.393) | 1 |
| Left.pericalcarine\_part2 | 2.985 (0.506) | 3.144 (0.472) | <0.001 | -0.558 (0.283) | -0.603 (0.334) | 1 |
| Left.postcentral\_part1 | 2.337 (0.991) | 2.476 (0.823) | <0.001 | 0.008 (0.299) | 0.011 (0.283) | 1 |
| Left.postcentral\_part2 | -1.017 (0.754) | -1.001 (0.868) | 0.196 | 0.749 (0.139) | 0.835 (0.168) | <0.001 |
| Left.postcentral\_part3 | 2.324 (0.707) | 2.363 (0.863) | 0.002 | -0.461 (0.246) | -0.476 (0.265) | 1 |
| Left.postcentral\_part4 | -1.027 (0.473) | -1.127 (0.517) | 0.036 | 0.668 (0.143) | 0.725 (0.177) | <0.001 |
| Left.postcentral\_part5 | 2.229 (0.596) | 2.341 (0.668) | 1 | -0.227 (0.177) | -0.249 (0.214) | 1 |
| Left.postcentral\_part6 | 2.199 (1.21) | 2.269 (1.141) | 0.001 | 0.366 (0.197) | 0.341 (0.277) | 1 |
| Left.postcentral\_part7 | 1.085 (0.837) | 1.15 (0.849) | 1 | -0.068 (0.161) | -0.109 (0.212) | 0.491 |
| Left.postcentral\_part8 | 2.101 (0.666) | 2.05 (1.06) | 1 | 0.01 (0.188) | -0.044 (0.238) | 0.006 |
| Left.posteriorcingulate\_part1 | -0.906 (0.534) | -1.137 (0.732) | 1 | 0.192 (0.226) | 0.221 (0.249) | 0.041 |
| Left.posteriorcingulate\_part2 | 1.001 (1.172) | 0.833 (1.377) | 0.12 | 0.638 (0.142) | 0.708 (0.17) | <0.001 |
| Left.precentral\_part1 | -0.804 (0.808) | -0.907 (0.75) | 1 | -0.157 (0.18) | -0.189 (0.204) | 0.274 |
| Left.precentral\_part2 | -0.523 (0.901) | -0.738 (0.939) | 0.095 | 0.758 (0.141) | 0.843 (0.169) | <0.001 |
| Left.precentral\_part3 | -1.248 (0.553) | -1.286 (0.554) | 0.003 | 0.165 (0.217) | 0.164 (0.236) | 1 |
| Left.precentral\_part4 | 0.126 (1.248) | -0.207 (1.315) | 0.005 | 0.673 (0.14) | 0.721 (0.18) | <0.001 |
| Left.precentral\_part5 | -1.269 (0.773) | -1.192 (0.85) | 1 | -0.2 (0.228) | -0.177 (0.266) | 0.044 |
| Left.precentral\_part6 | -1.145 (0.624) | -1.157 (0.531) | 0.342 | -0.414 (0.243) | -0.405 (0.226) | 1 |
| Left.precentral\_part7 | -0.699 (0.759) | -0.606 (0.899) | 1 | 0.607 (0.154) | 0.62 (0.22) | 1 |
| Left.precentral\_part8 | -1.085 (0.519) | -1.028 (0.488) | 1 | -0.272 (0.19) | -0.302 (0.205) | 0.081 |
| Left.precentral\_part9 | -1.233 (0.566) | -1.105 (0.561) | 0.001 | 0.101 (0.201) | 0.047 (0.252) | 0.012 |
| Left.precuneus\_part1 | -1.1 (0.711) | -1.151 (0.792) | 1 | -0.481 (0.285) | -0.507 (0.308) | 1 |
| Left.precuneus\_part2 | 0.172 (0.831) | 0.011 (0.849) | <0.001 | 0.094 (0.253) | 0.09 (0.249) | 1 |
| Left.precuneus\_part3 | 0.127 (0.895) | 0.214 (0.918) | 1 | -0.444 (0.261) | -0.503 (0.3) | 0.007 |
| Left.precuneus\_part4 | -0.638 (0.721) | -0.769 (0.743) | 1 | -0.247 (0.262) | -0.282 (0.342) | 1 |
| Left.precuneus\_part5 | -0.354 (0.807) | -0.26 (0.924) | 1 | -0.564 (0.329) | -0.606 (0.348) | 1 |
| Left.precuneus\_part6 | -0.29 (0.843) | -0.509 (0.938) | 1 | -0.413 (0.392) | -0.405 (0.397) | 1 |
| Left.precuneus\_part7 | -1.009 (0.413) | -1.133 (0.478) | 1 | -0.631 (0.341) | -0.662 (0.351) | 1 |
| Left.rostralanteriorcingulate\_part1 | -0.206 (1.229) | -0.073 (1.134) | 1 | 0.659 (0.139) | 0.75 (0.176) | <0.001 |
| Left.rostralmiddlefrontal\_part1 | 0.151 (1.097) | 0.357 (0.989) | 0.045 | -0.366 (0.322) | -0.403 (0.399) | 1 |
| Left.rostralmiddlefrontal\_part10 | -0.724 (0.612) | -0.787 (0.584) | 1 | 0.026 (0.272) | 0.099 (0.266) | <0.001 |
| Left.rostralmiddlefrontal\_part2 | -0.85 (0.966) | -0.899 (0.863) | 1 | -0.47 (0.29) | -0.516 (0.343) | 1 |
| Left.rostralmiddlefrontal\_part3 | -1.008 (0.406) | -1.054 (0.416) | <0.001 | -0.489 (0.296) | -0.442 (0.307) | 0.001 |
| Left.rostralmiddlefrontal\_part4 | -1.289 (0.583) | -1.228 (0.534) | 1 | 0.446 (0.184) | 0.498 (0.219) | <0.001 |
| Left.rostralmiddlefrontal\_part5 | -0.731 (0.57) | -0.698 (0.55) | 1 | -0.239 (0.329) | -0.31 (0.382) | <0.001 |
| Left.rostralmiddlefrontal\_part6 | -1.073 (0.689) | -1.118 (0.621) | 1 | 0.122 (0.239) | 0.147 (0.282) | 1 |
| Left.rostralmiddlefrontal\_part7 | -0.712 (0.581) | -0.668 (0.563) | 0.098 | -0.151 (0.276) | -0.089 (0.288) | <0.001 |
| Left.rostralmiddlefrontal\_part8 | -0.688 (0.68) | -0.616 (0.717) | 1 | 0.196 (0.229) | 0.246 (0.262) | <0.001 |
| Left.rostralmiddlefrontal\_part9 | -1.257 (0.523) | -1.33 (0.565) | 0.793 | -0.472 (0.279) | -0.472 (0.297) | 1 |
| Left.superiorfrontal\_part1 | -0.347 (0.75) | -0.287 (0.828) | <0.001 | 0.546 (0.163) | 0.626 (0.198) | <0.001 |
| Left.superiorfrontal\_part10 | 0.445 (0.792) | 0.315 (0.942) | <0.001 | 0.731 (0.138) | 0.812 (0.169) | <0.001 |
| Left.superiorfrontal\_part11 | -0.127 (0.666) | -0.055 (0.729) | 0.016 | 0.253 (0.208) | 0.312 (0.307) | <0.001 |
| Left.superiorfrontal\_part12 | -0.118 (0.726) | 0.066 (0.759) | <0.001 | 0.265 (0.207) | 0.293 (0.302) | 0.119 |
| Left.superiorfrontal\_part13 | 1.24 (0.77) | 1.482 (0.844) | <0.001 | 0.726 (0.136) | 0.807 (0.171) | <0.001 |
| Left.superiorfrontal\_part2 | -0.202 (0.964) | -0.089 (1.068) | 0.107 | 0.41 (0.164) | 0.452 (0.19) | 0.001 |
| Left.superiorfrontal\_part3 | -0.034 (0.727) | 0.103 (0.8) | 1 | 0.589 (0.149) | 0.681 (0.187) | <0.001 |
| Left.superiorfrontal\_part4 | -0.497 (0.626) | -0.378 (0.708) | 1 | -0.043 (0.249) | -0.049 (0.295) | 1 |
| Left.superiorfrontal\_part5 | 0.795 (0.89) | 0.868 (0.984) | 1 | 0.534 (0.161) | 0.626 (0.191) | <0.001 |
| Left.superiorfrontal\_part6 | -0.212 (0.975) | -0.262 (1.027) | 1 | 0.649 (0.139) | 0.723 (0.164) | <0.001 |
| Left.superiorfrontal\_part7 | 0.913 (0.793) | 1.004 (0.862) | 1 | 0.689 (0.137) | 0.776 (0.171) | <0.001 |
| Left.superiorfrontal\_part8 | 0.876 (1.034) | 1.001 (1.099) | 1 | 0.574 (0.145) | 0.628 (0.176) | <0.001 |
| Left.superiorfrontal\_part9 | 0.035 (0.687) | 0.141 (0.767) | <0.001 | 0.443 (0.174) | 0.503 (0.218) | <0.001 |
| Left.superiorparietal\_part1 | 0.275 (0.923) | 0.123 (1.165) | 0.08 | -0.31 (0.34) | -0.335 (0.404) | 1 |
| Left.superiorparietal\_part10 | -0.754 (0.755) | -0.936 (0.77) | 1 | -0.473 (0.335) | -0.553 (0.419) | <0.001 |
| Left.superiorparietal\_part2 | 0.978 (1.123) | 0.876 (1.171) | 1 | -0.423 (0.299) | -0.52 (0.354) | <0.001 |
| Left.superiorparietal\_part3 | 0.416 (0.819) | 0.327 (0.816) | 0.003 | -0.451 (0.265) | -0.448 (0.264) | 1 |
| Left.superiorparietal\_part4 | 1.107 (0.765) | 1.007 (0.79) | <0.001 | -0.177 (0.19) | -0.17 (0.21) | 1 |
| Left.superiorparietal\_part5 | 1.094 (0.722) | 1.07 (0.824) | <0.001 | -0.388 (0.279) | -0.399 (0.269) | 1 |
| Left.superiorparietal\_part6 | -0.019 (0.964) | 0.156 (0.939) | 0.004 | -0.463 (0.287) | -0.535 (0.321) | <0.001 |
| Left.superiorparietal\_part7 | -0.087 (0.927) | -0.438 (0.944) | 1 | -0.47 (0.372) | -0.531 (0.402) | 0.156 |
| Left.superiorparietal\_part8 | 1.022 (0.688) | 1.106 (0.712) | 1 | -0.457 (0.261) | -0.517 (0.291) | 0.001 |
| Left.superiorparietal\_part9 | 0.773 (0.86) | 0.705 (0.849) | 0.01 | -0.574 (0.335) | -0.632 (0.333) | 0.046 |
| Left.superiortemporal\_part1 | -0.163 (1.04) | -0.414 (1.186) | 1 | 0.708 (0.137) | 0.783 (0.163) | <0.001 |
| Left.superiortemporal\_part2 | 2.678 (0.793) | 2.693 (0.854) | 0.088 | 0.165 (0.315) | 0.095 (0.366) | <0.001 |
| Left.superiortemporal\_part3 | 0.207 (1.369) | 0.148 (1.427) | 0.478 | 0.566 (0.168) | 0.618 (0.164) | <0.001 |
| Left.superiortemporal\_part4 | 1.745 (1.115) | 1.674 (1.199) | 1 | 0.6 (0.211) | 0.656 (0.216) | <0.001 |
| Left.superiortemporal\_part5 | -0.522 (0.852) | -0.604 (0.846) | 0.402 | 0.69 (0.139) | 0.758 (0.165) | <0.001 |
| Left.superiortemporal\_part6 | -0.75 (0.778) | -0.816 (0.728) | 0.024 | 0.744 (0.141) | 0.829 (0.169) | <0.001 |
| Left.superiortemporal\_part7 | -0.474 (0.857) | -0.681 (0.895) | 1 | 0.729 (0.139) | 0.812 (0.167) | <0.001 |
| Left.supramarginal\_part1 | -0.406 (0.707) | -0.466 (0.82) | 1 | -0.14 (0.18) | -0.156 (0.229) | 1 |
| Left.supramarginal\_part2 | -1.259 (0.578) | -1.322 (0.651) | 1 | 0.701 (0.137) | 0.767 (0.16) | <0.001 |
| Left.supramarginal\_part3 | -1.089 (0.783) | -1.062 (0.816) | <0.001 | -0.081 (0.194) | -0.127 (0.269) | 0.72 |
| Left.supramarginal\_part4 | -0.998 (0.801) | -1.033 (0.808) | 0.031 | 0.561 (0.157) | 0.553 (0.216) | 1 |
| Left.supramarginal\_part5 | -0.705 (0.797) | -0.648 (0.871) | <0.001 | 0.179 (0.216) | 0.097 (0.302) | <0.001 |
| Left.supramarginal\_part6 | -0.979 (0.453) | -1.085 (0.439) | 1 | 0.057 (0.225) | -0.008 (0.281) | <0.001 |
| Left.supramarginal\_part7 | -0.441 (0.58) | -0.41 (0.6) | 1 | 0.355 (0.177) | 0.321 (0.223) | 0.387 |
| Left.temporalpole\_part1 | 2.985 (0.674) | 3.209 (0.6) | 0.116 | 0.072 (0.254) | 0.136 (0.284) | <0.001 |
| Left.transversetemporal\_part1 | -0.361 (1.022) | -0.535 (1.177) | 1 | 0.752 (0.141) | 0.837 (0.17) | <0.001 |
| Right.bankssts\_part1 | -0.725 (0.538) | -0.678 (0.544) | 1 | 0.272 (0.272) | 0.329 (0.289) | <0.001 |
| Right.bankssts\_part2 | -0.705 (0.577) | -0.693 (0.549) | 1 | 0.238 (0.232) | 0.265 (0.263) | 0.034 |
| Right.caudalanteriorcingulate\_part1 | -1.133 (0.867) | -1.225 (0.778) | 1 | 0.666 (0.155) | 0.722 (0.218) | <0.001 |
| Right.caudalmiddlefrontal\_part1 | -0.528 (0.523) | -0.562 (0.555) | <0.001 | 0.042 (0.28) | -0.035 (0.331) | <0.001 |
| Right.caudalmiddlefrontal\_part2 | -0.943 (0.57) | -0.881 (0.479) | 1 | -0.656 (0.391) | -0.676 (0.413) | 1 |
| Right.caudalmiddlefrontal\_part3 | -0.778 (0.642) | -0.755 (0.685) | <0.001 | -0.474 (0.261) | -0.544 (0.33) | 0.024 |
| Right.caudalmiddlefrontal\_part4 | -0.959 (0.467) | -0.94 (0.452) | <0.001 | -0.513 (0.288) | -0.577 (0.338) | 0.024 |
| Right.cuneus\_part1 | 2.042 (0.686) | 1.952 (0.882) | <0.001 | -0.275 (0.184) | -0.344 (0.25) | <0.001 |
| Right.cuneus\_part2 | 1.883 (1.05) | 1.841 (1.221) | 1 | -0.476 (0.324) | -0.583 (0.396) | <0.001 |
| Right.cuneus\_part3 | 2.691 (0.511) | 2.815 (0.644) | 0.705 | -0.219 (0.196) | -0.293 (0.264) | <0.001 |
| Right.entorhinal\_part1 | -0.797 (1.824) | -0.658 (1.631) | 1 | -0.109 (0.303) | -0.183 (0.349) | <0.001 |
| Right.frontalpole\_part1 | -0.218 (1.247) | -0.09 (1.31) | <0.001 | 0.522 (0.159) | 0.566 (0.194) | <0.001 |
| Right.fusiform\_part1 | -0.778 (0.584) | -0.737 (0.617) | 1 | -0.162 (0.231) | -0.168 (0.238) | 1 |
| Right.fusiform\_part2 | 0.664 (1.492) | 0.699 (1.329) | 0.029 | 0.053 (0.281) | 0 (0.375) | 0.035 |
| Right.fusiform\_part3 | -0.779 (0.564) | -0.804 (0.623) | 0.072 | -0.192 (0.191) | -0.222 (0.208) | 1 |
| Right.fusiform\_part4 | -0.368 (0.987) | -0.359 (0.853) | <0.001 | -0.252 (0.274) | -0.321 (0.31) | <0.001 |
| Right.fusiform\_part5 | -0.499 (0.643) | -0.519 (0.651) | 0.546 | -0.31 (0.268) | -0.34 (0.263) | 0.215 |
| Right.inferiorparietal\_part1 | -0.839 (0.334) | -0.827 (0.336) | <0.001 | 0.007 (0.215) | 0.021 (0.25) | 1 |
| Right.inferiorparietal\_part10 | -1.143 (0.482) | -1.106 (0.474) | 1 | -0.202 (0.191) | -0.2 (0.234) | 1 |
| Right.inferiorparietal\_part2 | -1.024 (0.452) | -1.081 (0.453) | <0.001 | -0.416 (0.26) | -0.455 (0.263) | 0.182 |
| Right.inferiorparietal\_part3 | -0.886 (0.363) | -0.945 (0.389) | 1 | -0.147 (0.236) | -0.126 (0.244) | 1 |
| Right.inferiorparietal\_part4 | -1.06 (0.491) | -1.175 (0.583) | <0.001 | -0.354 (0.22) | -0.427 (0.254) | <0.001 |
| Right.inferiorparietal\_part5 | -0.431 (0.529) | -0.307 (0.593) | <0.001 | -0.252 (0.186) | -0.247 (0.209) | 1 |
| Right.inferiorparietal\_part6 | 0.144 (0.721) | 0.189 (0.744) | <0.001 | -0.254 (0.224) | -0.275 (0.243) | 1 |
| Right.inferiorparietal\_part7 | -1.093 (0.472) | -1.057 (0.479) | 1 | -0.301 (0.199) | -0.298 (0.195) | 1 |
| Right.inferiorparietal\_part8 | -1.003 (0.66) | -0.845 (0.673) | 1 | -0.239 (0.215) | -0.251 (0.257) | 1 |
| Right.inferiorparietal\_part9 | -0.808 (0.653) | -0.867 (0.694) | 1 | -0.347 (0.231) | -0.368 (0.267) | 1 |
| Right.inferiortemporal\_part1 | 1.698 (0.966) | 1.75 (1.062) | <0.001 | 0.15 (0.304) | 0.091 (0.39) | 0.041 |
| Right.inferiortemporal\_part2 | -0.813 (0.54) | -0.919 (0.47) | 1 | -0.372 (0.228) | -0.441 (0.246) | <0.001 |
| Right.inferiortemporal\_part3 | 0.197 (1.166) | 0.104 (1.225) | 1 | -0.175 (0.376) | -0.217 (0.421) | 0.461 |
| Right.inferiortemporal\_part4 | -0.692 (0.892) | -0.678 (0.778) | 0.001 | -0.347 (0.267) | -0.363 (0.258) | 1 |
| Right.inferiortemporal\_part5 | -1.012 (0.632) | -1.144 (0.604) | 1 | -0.271 (0.297) | -0.309 (0.329) | 1 |
| Right.insula\_part1 | 2.858 (0.624) | 3.078 (0.515) | 1 | 0.566 (0.183) | 0.574 (0.241) | 1 |
| Right.insula\_part2 | -0.519 (0.696) | -0.557 (0.683) | 1 | 0.736 (0.142) | 0.831 (0.176) | <0.001 |
| Right.insula\_part3 | 1.602 (0.847) | 1.82 (0.893) | 1 | 0.737 (0.143) | 0.828 (0.176) | <0.001 |
| Right.insula\_part4 | 2.337 (0.745) | 2.506 (0.685) | <0.001 | 0.703 (0.138) | 0.778 (0.174) | <0.001 |
| Right.isthmuscingulate\_part1 | -1.565 (0.729) | -1.429 (0.841) | 1 | -0.556 (0.298) | -0.656 (0.344) | <0.001 |
| Right.isthmuscingulate\_part2 | -0.753 (0.648) | -0.955 (0.807) | 1 | -0.64 (0.4) | -0.721 (0.453) | 0.023 |
| Right.lateraloccipital\_part1 | 1.295 (0.958) | 1.215 (1.323) | 0.002 | 0.079 (0.243) | 0.108 (0.264) | 0.846 |
| Right.lateraloccipital\_part2 | -0.739 (0.656) | -0.564 (0.615) | <0.001 | -0.422 (0.256) | -0.473 (0.261) | 0.004 |
| Right.lateraloccipital\_part3 | 1.116 (1.073) | 1.133 (1.153) | 1 | -0.248 (0.358) | -0.256 (0.372) | 1 |
| Right.lateraloccipital\_part4 | 0.859 (1.014) | 0.709 (1.161) | 0.97 | -0.343 (0.277) | -0.4 (0.327) | 0.019 |
| Right.lateraloccipital\_part5 | -1.074 (0.624) | -1.122 (0.632) | <0.001 | -0.255 (0.304) | -0.274 (0.286) | 1 |
| Right.lateraloccipital\_part6 | 0.79 (0.836) | 0.715 (0.915) | 1 | -0.329 (0.321) | -0.331 (0.369) | 1 |
| Right.lateraloccipital\_part7 | 1.504 (0.92) | 1.597 (1.018) | 0.603 | -0.019 (0.277) | 0.027 (0.289) | <0.001 |
| Right.lateraloccipital\_part8 | 1.364 (0.935) | 1.407 (1.108) | 1 | -0.049 (0.375) | -0.052 (0.39) | 1 |
| Right.lateraloccipital\_part9 | -0.64 (0.718) | -0.812 (0.79) | 1 | -0.329 (0.318) | -0.342 (0.319) | 1 |
| Right.lateralorbitofrontal\_part1 | 0.067 (1.153) | 0.206 (1.279) | 1 | -0.051 (0.278) | 0.013 (0.286) | <0.001 |
| Right.lateralorbitofrontal\_part2 | -1.048 (0.847) | -1.075 (0.89) | 1 | 0.388 (0.188) | 0.436 (0.245) | <0.001 |
| Right.lateralorbitofrontal\_part3 | -0.166 (1.083) | -0.284 (0.884) | 0.003 | -0.432 (0.289) | -0.477 (0.37) | 1 |
| Right.lateralorbitofrontal\_part4 | -0.839 (0.963) | -0.827 (0.869) | 1 | 0.181 (0.245) | 0.219 (0.266) | 0.055 |
| Right.lingual\_part1 | 0.803 (1.005) | 1.059 (1.1) | 1 | -0.562 (0.3) | -0.615 (0.329) | 0.168 |
| Right.lingual\_part2 | 2.028 (0.878) | 1.928 (1.18) | <0.001 | -0.23 (0.347) | -0.201 (0.36) | 1 |
| Right.lingual\_part3 | 0.387 (1.005) | 0.591 (0.98) | 0.004 | -0.458 (0.284) | -0.494 (0.305) | 0.761 |
| Right.lingual\_part4 | 2.746 (0.502) | 2.94 (0.517) | <0.001 | -0.594 (0.319) | -0.623 (0.338) | 1 |
| Right.lingual\_part5 | 2.609 (0.637) | 2.868 (0.485) | 0.001 | -0.349 (0.243) | -0.424 (0.346) | <0.001 |
| Right.lingual\_part6 | 1.7 (0.933) | 1.876 (0.855) | <0.001 | -0.496 (0.343) | -0.48 (0.367) | 1 |
| Right.medialorbitofrontal\_part1 | -1.101 (0.538) | -1.091 (0.47) | 0.025 | 0.549 (0.159) | 0.605 (0.189) | <0.001 |
| Right.medialorbitofrontal\_part2 | -1.069 (0.693) | -1.026 (0.706) | 0.44 | 0.407 (0.206) | 0.468 (0.259) | <0.001 |
| Right.medialorbitofrontal\_part3 | -1.07 (0.686) | -1.022 (0.685) | 0.001 | 0.549 (0.163) | 0.619 (0.182) | <0.001 |
| Right.middletemporal\_part1 | 0.993 (0.831) | 0.821 (1.061) | 0.454 | 0.192 (0.374) | 0.174 (0.377) | 1 |
| Right.middletemporal\_part2 | 2.308 (0.676) | 2.43 (0.73) | 1 | -0.604 (0.537) | -0.817 (0.667) | <0.001 |
| Right.middletemporal\_part3 | 1.6 (1.022) | 1.455 (1.183) | 1 | -0.546 (0.522) | -0.553 (0.576) | 1 |
| Right.middletemporal\_part4 | -0.91 (0.481) | -0.905 (0.487) | 0.365 | -0.276 (0.199) | -0.336 (0.27) | 0.001 |
| Right.middletemporal\_part5 | 0.432 (1.104) | 0.712 (0.994) | 1 | -0.323 (0.209) | -0.393 (0.251) | <0.001 |
| Right.middletemporal\_part6 | 0.77 (0.998) | 0.719 (1.002) | <0.001 | 0.123 (0.38) | 0.06 (0.423) | 0.09 |
| Right.paracentral\_part1 | 0.3 (0.886) | 0.14 (1.043) | 1 | 0.068 (0.352) | 0.127 (0.278) | <0.001 |
| Right.paracentral\_part2 | -0.773 (1.286) | -0.792 (1.388) | 1 | 0.437 (0.161) | 0.493 (0.18) | <0.001 |
| Right.paracentral\_part3 | -0.625 (0.682) | -0.825 (0.704) | 0.972 | 0.348 (0.2) | 0.398 (0.189) | <0.001 |
| Right.parahippocampal\_part1 | -1.442 (0.719) | -1.481 (0.705) | 1 | -0.456 (0.309) | -0.504 (0.339) | 0.014 |
| Right.parahippocampal\_part2 | -1.593 (1.117) | -1.437 (1.043) | 0.062 | -0.357 (0.281) | -0.459 (0.34) | <0.001 |
| Right.parsopercularis\_part1 | 0.294 (0.711) | 0.189 (0.788) | 1 | 0.713 (0.14) | 0.793 (0.177) | <0.001 |
| Right.parsopercularis\_part2 | -0.976 (0.419) | -0.991 (0.4) | 0.018 | 0.574 (0.176) | 0.585 (0.245) | 1 |
| Right.parsopercularis\_part3 | -0.826 (0.353) | -0.859 (0.336) | <0.001 | 0.642 (0.15) | 0.695 (0.19) | <0.001 |
| Right.parsorbitalis\_part1 | -0.112 (0.92) | -0.217 (0.931) | 1 | -0.701 (0.371) | -0.686 (0.371) | 1 |
| Right.parstriangularis\_part1 | -0.971 (0.483) | -0.995 (0.439) | 1 | -0.222 (0.347) | -0.203 (0.403) | 0.149 |
| Right.parstriangularis\_part2 | -0.845 (0.459) | -0.813 (0.506) | 1 | 0.632 (0.152) | 0.675 (0.194) | 0.001 |
| Right.parstriangularis\_part3 | -0.884 (0.417) | -0.913 (0.403) | <0.001 | 0.452 (0.235) | 0.435 (0.282) | 1 |
| Right.pericalcarine\_part1 | 2.784 (0.5) | 2.997 (0.504) | 0.003 | -0.181 (0.271) | -0.261 (0.31) | <0.001 |
| Right.pericalcarine\_part2 | 2.671 (0.667) | 2.89 (0.604) | 0.001 | -0.238 (0.357) | -0.278 (0.417) | 1 |
| Right.pericalcarine\_part3 | 2.84 (0.47) | 3.015 (0.472) | <0.001 | -0.522 (0.275) | -0.602 (0.322) | 0.002 |
| Right.postcentral\_part1 | 2.27 (0.797) | 2.346 (0.921) | 0.112 | 0.054 (0.313) | 0.083 (0.348) | 0.56 |
| Right.postcentral\_part2 | -0.878 (0.47) | -0.822 (0.554) | 1 | 0.731 (0.139) | 0.827 (0.175) | <0.001 |
| Right.postcentral\_part3 | 2.239 (0.694) | 2.358 (0.812) | <0.001 | -0.434 (0.271) | -0.495 (0.3) | <0.001 |
| Right.postcentral\_part4 | -0.73 (0.654) | -0.733 (0.615) | 0.08 | 0.618 (0.194) | 0.697 (0.21) | <0.001 |
| Right.postcentral\_part5 | 1.268 (0.764) | 1.094 (1.014) | 1 | -0.29 (0.232) | -0.316 (0.247) | 1 |
| Right.postcentral\_part6 | 1.109 (1.495) | 1.151 (1.428) | <0.001 | 0.05 (0.308) | 0.038 (0.321) | 1 |
| Right.postcentral\_part7 | 2.265 (0.752) | 2.492 (0.64) | 1 | -0.235 (0.213) | -0.268 (0.229) | 1 |
| Right.postcentral\_part8 | 1.967 (0.933) | 2.093 (1.037) | 0.006 | -0.188 (0.206) | -0.23 (0.22) | 0.004 |
| Right.posteriorcingulate\_part1 | -1.226 (0.576) | -1.16 (0.647) | 1 | 0.446 (0.386) | 0.534 (0.264) | <0.001 |
| Right.posteriorcingulate\_part2 | 0.846 (0.928) | 0.92 (0.991) | 1 | 0.123 (0.424) | 0.201 (0.369) | <0.001 |
| Right.precentral\_part1 | -0.263 (0.627) | -0.3 (0.592) | 1 | 0.733 (0.142) | 0.825 (0.176) | <0.001 |
| Right.precentral\_part2 | -1.353 (0.665) | -1.417 (0.638) | 0.004 | 0.111 (0.218) | 0.136 (0.238) | 0.97 |
| Right.precentral\_part3 | -0.145 (1.048) | -0.3 (1.175) | <0.001 | 0.605 (0.176) | 0.677 (0.189) | <0.001 |
| Right.precentral\_part4 | -1.387 (0.986) | -1.383 (1.069) | 0.022 | -0.174 (0.26) | -0.17 (0.313) | 1 |
| Right.precentral\_part5 | -0.968 (0.603) | -0.903 (0.703) | 1 | 0.499 (0.266) | 0.564 (0.224) | <0.001 |
| Right.precentral\_part6 | -1.089 (0.976) | -1.284 (0.886) | 0.034 | -0.435 (0.272) | -0.486 (0.28) | 0.037 |
| Right.precentral\_part7 | -0.967 (1.094) | -0.802 (1.112) | 0.779 | -0.122 (0.227) | -0.165 (0.252) | 0.007 |
| Right.precentral\_part8 | -0.037 (0.765) | -0.397 (0.815) | 0.001 | -0.197 (0.195) | -0.235 (0.22) | 0.301 |
| Right.precentral\_part9 | -0.975 (0.571) | -1.012 (0.553) | <0.001 | -0.472 (0.267) | -0.518 (0.301) | 0.942 |
| Right.precuneus\_part1 | -1.211 (0.721) | -1.236 (0.782) | 1 | -0.16 (0.252) | -0.226 (0.296) | <0.001 |
| Right.precuneus\_part2 | -0.995 (0.463) | -1.065 (0.508) | 1 | -0.237 (0.271) | -0.309 (0.319) | <0.001 |
| Right.precuneus\_part3 | -0.055 (0.811) | -0.212 (0.899) | 1 | 0.068 (0.258) | 0.074 (0.259) | 1 |
| Right.precuneus\_part4 | 0.95 (0.986) | 0.917 (1.126) | <0.001 | -0.169 (0.199) | -0.215 (0.26) | 0.049 |
| Right.precuneus\_part5 | -0.502 (0.907) | -0.807 (1.026) | 1 | -0.362 (0.279) | -0.432 (0.359) | <0.001 |
| Right.precuneus\_part6 | -0.575 (0.881) | -0.633 (0.887) | 1 | -0.45 (0.246) | -0.56 (0.292) | <0.001 |
| Right.precuneus\_part7 | -0.725 (0.799) | -0.891 (0.801) | 1 | -0.584 (0.402) | -0.626 (0.411) | 1 |
| Right.rostralanteriorcingulate\_part1 | -0.306 (1.063) | -0.21 (1.178) | <0.001 | 0.544 (0.162) | 0.607 (0.203) | <0.001 |
| Right.rostralmiddlefrontal\_part1 | -0.922 (0.823) | -0.828 (0.762) | 1 | 0.263 (0.216) | 0.314 (0.212) | 0.002 |
| Right.rostralmiddlefrontal\_part10 | -0.369 (0.701) | -0.363 (0.763) | 1 | -0.255 (0.243) | -0.238 (0.252) | 1 |
| Right.rostralmiddlefrontal\_part2 | -0.231 (0.865) | -0.166 (0.865) | 1 | 0.312 (0.192) | 0.358 (0.199) | 0.002 |
| Right.rostralmiddlefrontal\_part3 | -0.943 (0.45) | -0.906 (0.468) | 1 | -0.425 (0.24) | -0.469 (0.319) | 1 |
| Right.rostralmiddlefrontal\_part4 | -0.421 (0.688) | -0.357 (0.712) | 1 | -0.313 (0.292) | -0.297 (0.273) | 1 |
| Right.rostralmiddlefrontal\_part5 | -0.675 (0.601) | -0.698 (0.652) | 1 | -0.218 (0.294) | -0.297 (0.338) | <0.001 |
| Right.rostralmiddlefrontal\_part6 | -0.676 (0.602) | -0.57 (0.625) | 1 | 0.178 (0.238) | 0.212 (0.231) | 0.024 |
| Right.rostralmiddlefrontal\_part7 | 0.018 (0.702) | 0.267 (0.744) | <0.001 | -0.285 (0.339) | -0.319 (0.331) | 1 |
| Right.rostralmiddlefrontal\_part8 | -0.617 (0.578) | -0.622 (0.557) | 1 | 0.056 (0.245) | 0.092 (0.232) | 0.261 |
| Right.rostralmiddlefrontal\_part9 | -0.857 (0.495) | -0.879 (0.468) | 1 | -0.503 (0.318) | -0.489 (0.288) | 1 |
| Right.superiorfrontal\_part1 | -0.621 (0.839) | -0.605 (0.737) | 1 | 0.588 (0.188) | 0.666 (0.215) | <0.001 |
| Right.superiorfrontal\_part10 | 0.22 (0.919) | 0.162 (0.964) | <0.001 | 0.567 (0.168) | 0.618 (0.234) | <0.001 |
| Right.superiorfrontal\_part11 | 1.294 (0.904) | 1.523 (0.954) | 0.732 | 0.515 (0.195) | 0.574 (0.347) | <0.001 |
| Right.superiorfrontal\_part12 | -0.513 (0.524) | -0.486 (0.499) | 1 | 0.187 (0.261) | 0.212 (0.289) | 1 |
| Right.superiorfrontal\_part13 | 0.774 (0.737) | 0.922 (0.805) | 1 | 0.524 (0.163) | 0.584 (0.223) | <0.001 |
| Right.superiorfrontal\_part2 | -0.614 (0.751) | -0.472 (0.769) | 0.005 | 0.458 (0.176) | 0.508 (0.204) | <0.001 |
| Right.superiorfrontal\_part3 | -0.244 (1.019) | -0.048 (1.06) | 0.005 | 0.339 (0.198) | 0.395 (0.243) | <0.001 |
| Right.superiorfrontal\_part4 | -0.476 (0.773) | -0.361 (0.729) | 0.013 | 0.454 (0.173) | 0.512 (0.223) | <0.001 |
| Right.superiorfrontal\_part5 | -0.457 (0.686) | -0.503 (0.801) | 0.089 | -0.142 (0.37) | -0.108 (0.351) | 0.724 |
| Right.superiorfrontal\_part6 | 0.662 (0.897) | 0.683 (1.051) | <0.001 | 0.422 (0.183) | 0.464 (0.234) | <0.001 |
| Right.superiorfrontal\_part7 | 0.581 (1.072) | 0.843 (1.137) | 1 | 0.478 (0.186) | 0.545 (0.266) | <0.001 |
| Right.superiorfrontal\_part8 | 0.34 (0.747) | 0.543 (0.797) | 1 | 0.394 (0.182) | 0.436 (0.243) | <0.001 |
| Right.superiorfrontal\_part9 | -0.614 (0.514) | -0.636 (0.491) | 0.914 | -0.034 (0.345) | -0.016 (0.447) | 0.144 |
| Right.superiorparietal\_part1 | 1.043 (0.957) | 0.825 (1.083) | 0.518 | -0.386 (0.232) | -0.446 (0.269) | 0.002 |
| Right.superiorparietal\_part10 | 1.061 (0.857) | 1.119 (0.94) | <0.001 | -0.453 (0.256) | -0.475 (0.299) | 1 |
| Right.superiorparietal\_part2 | 0.363 (1.102) | 0.374 (1.095) | 0.035 | -0.167 (0.339) | -0.092 (0.26) | <0.001 |
| Right.superiorparietal\_part3 | -0.043 (1.032) | -0.076 (1.077) | 0.057 | -0.396 (0.234) | -0.479 (0.261) | <0.001 |
| Right.superiorparietal\_part4 | 0.357 (0.978) | 0.25 (1.098) | 1 | -0.405 (0.236) | -0.5 (0.276) | <0.001 |
| Right.superiorparietal\_part5 | 1.24 (0.677) | 1.081 (0.905) | 1 | -0.383 (0.24) | -0.47 (0.271) | <0.001 |
| Right.superiorparietal\_part6 | 0.616 (0.751) | 0.46 (0.945) | 0.034 | -0.501 (0.294) | -0.498 (0.301) | 1 |
| Right.superiorparietal\_part7 | -0.222 (0.733) | -0.672 (0.887) | 1 | -0.373 (0.219) | -0.44 (0.304) | 0.002 |
| Right.superiorparietal\_part8 | 1.122 (0.683) | 1.231 (0.768) | <0.001 | -0.28 (0.231) | -0.303 (0.247) | 1 |
| Right.superiorparietal\_part9 | 0.031 (1.124) | -0.038 (0.96) | 0.172 | -0.368 (0.261) | -0.357 (0.284) | 1 |
| Right.superiortemporal\_part1 | 2.332 (0.95) | 2.466 (0.899) | <0.001 | -0.171 (0.361) | -0.298 (0.452) | <0.001 |
| Right.superiortemporal\_part2 | -0.446 (0.696) | -0.491 (0.595) | 0.087 | 0.637 (0.14) | 0.698 (0.177) | <0.001 |
| Right.superiortemporal\_part3 | 1.382 (1.052) | 1.313 (0.997) | 0.117 | 0.595 (0.162) | 0.639 (0.221) | <0.001 |
| Right.superiortemporal\_part4 | 0.892 (0.805) | 0.643 (0.907) | 0.227 | 0.694 (0.14) | 0.775 (0.172) | <0.001 |
| Right.superiortemporal\_part5 | -0.03 (0.748) | -0.194 (0.904) | 1 | 0.696 (0.138) | 0.779 (0.172) | <0.001 |
| Right.superiortemporal\_part6 | -0.774 (0.36) | -0.787 (0.365) | 1 | 0.706 (0.14) | 0.793 (0.174) | <0.001 |
| Right.supramarginal\_part1 | 0.348 (0.684) | 0.38 (0.755) | 0.211 | -0.23 (0.211) | -0.278 (0.256) | 0.01 |
| Right.supramarginal\_part2 | -0.948 (0.615) | -0.845 (0.537) | 1 | 0.698 (0.139) | 0.781 (0.173) | <0.001 |
| Right.supramarginal\_part3 | -0.898 (0.382) | -1.006 (0.424) | 1 | -0.261 (0.219) | -0.291 (0.254) | 1 |
| Right.supramarginal\_part4 | -0.76 (0.523) | -0.763 (0.585) | <0.001 | 0.47 (0.205) | 0.468 (0.276) | 1 |
| Right.supramarginal\_part5 | 0.04 (0.866) | -0.087 (1.042) | 0.001 | -0.048 (0.307) | -0.014 (0.325) | 0.067 |
| Right.supramarginal\_part6 | -0.563 (0.65) | -0.677 (0.735) | 1 | -0.204 (0.292) | -0.218 (0.332) | 1 |
| Right.supramarginal\_part7 | -0.837 (0.462) | -0.851 (0.51) | 1 | 0.29 (0.233) | 0.293 (0.261) | 1 |
| Right.temporalpole\_part1 | 2.758 (0.779) | 2.905 (1.085) | <0.001 | 0.025 (0.274) | -0.02 (0.397) | 1 |
| Right.transversetemporal\_part1 | -0.722 (0.863) | -0.725 (0.799) | <0.001 | 0.73 (0.142) | 0.825 (0.176) | <0.001 |

PBSI-CT, person-based similarity index for cortical thickness; PBSI-LGI, person-based similarity index for local gyrification index; HC, healthy control; SPR, schizophrenia.

a expressed as ×10-3

b Mann–Whitney U test was used with Bonferroni correction for multiple testing.

# **Supplementary Table 5-3.** Contribution effects of the regional cortical measures to the PBSI-All score

|  |  |  |  |
| --- | --- | --- | --- |
|  | PBSI-Alla | | |
| Structure | HC | SPR |  |
| Mean (SD) | Mean (SD) | Adj. Pb |
| Left.bankssts\_part1 | -4.751 (3.742) | -4.46 (3.693) | 1 |
| Left.bankssts\_part2 | -6.5 (4.552) | -6.275 (4.241) | 1 |
| Left.caudalanteriorcingulate\_part1 | 2.163 (7.248) | 2.992 (6.906) | 1 |
| Left.caudalmiddlefrontal\_part1 | -9.736 (3.775) | -9.457 (3.635) | 1 |
| Left.caudalmiddlefrontal\_part2 | -9.331 (3.947) | -8.873 (3.901) | 1 |
| Left.caudalmiddlefrontal\_part3 | -5.894 (3.796) | -5.979 (3.609) | 1 |
| Left.caudalmiddlefrontal\_part4 | -8.478 (4.193) | -9.465 (4.234) | <0.001 |
| Left.cuneus\_part1 | 8.759 (4.111) | 8.1 (4.617) | 1 |
| Left.cuneus\_part2 | 5.639 (4.361) | 4.631 (5.059) | 0.032 |
| Left.entorhinal\_part1 | -3.02 (8.514) | -2.526 (8.296) | 1 |
| Left.frontalpole\_part1 | 23.325 (4.333) | 24.289 (3.888) | <0.001 |
| Left.fusiform\_part1 | -3.538 (5.799) | -3.132 (5.624) | 1 |
| Left.fusiform\_part2 | 13.189 (7.986) | 12.822 (7.307) | 1 |
| Left.fusiform\_part3 | -6.306 (4.065) | -6.514 (4.175) | 1 |
| Left.fusiform\_part4 | 9.037 (6.219) | 7.892 (6.555) | 0.03 |
| Left.fusiform\_part5 | -3.349 (7.534) | -4.306 (6.916) | <0.001 |
| Left.inferiorparietal\_part1 | -6.98 (7.234) | -7.047 (7.106) | 1 |
| Left.inferiorparietal\_part2 | -10.673 (3.693) | -10.314 (3.88) | 1 |
| Left.inferiorparietal\_part3 | -5.726 (4.517) | -6.41 (4.621) | 0.189 |
| Left.inferiorparietal\_part4 | -10.131 (3.501) | -9.701 (3.653) | 0.755 |
| Left.inferiorparietal\_part5 | -4.266 (7.971) | -4.438 (8.041) | 1 |
| Left.inferiorparietal\_part6 | -3.93 (6.384) | -4.408 (6.648) | 1 |
| Left.inferiorparietal\_part7 | -8.62 (6.217) | -8.552 (5.991) | 1 |
| Left.inferiorparietal\_part8 | -6.668 (6.283) | -6.033 (6.894) | 0.001 |
| Left.inferiortemporal\_part1 | 11.505 (6.524) | 10.603 (7.108) | 1 |
| Left.inferiortemporal\_part2 | -11.633 (5.562) | -11.739 (5.222) | 1 |
| Left.inferiortemporal\_part3 | -1.478 (6.31) | -2.652 (6.991) | 0.13 |
| Left.inferiortemporal\_part4 | -7.384 (7.644) | -8.438 (6.415) | <0.001 |
| Left.inferiortemporal\_part5 | -7.713 (6.966) | -7.534 (7.039) | 1 |
| Left.inferiortemporal\_part6 | -5.555 (6.778) | -7.097 (6.812) | <0.001 |
| Left.insula\_part1 | 6.264 (2.922) | 6.044 (2.793) | 1 |
| Left.insula\_part2 | 15.653 (4.439) | 14.705 (4.581) | 0.102 |
| Left.insula\_part3 | 7.64 (3.2) | 7.935 (3.378) | 1 |
| Left.insula\_part4 | 11.179 (3.523) | 10.358 (4.03) | 0.166 |
| Left.isthmuscingulate\_part1 | -3.995 (5.656) | -4.238 (5.363) | 1 |
| Left.isthmuscingulate\_part2 | -6.286 (5.995) | -5.863 (5.904) | 1 |
| Left.lateraloccipital\_part1 | -7.035 (5.217) | -6.83 (4.541) | 1 |
| Left.lateraloccipital\_part2 | -9.258 (4.022) | -9.588 (3.923) | 1 |
| Left.lateraloccipital\_part3 | 1.007 (5.541) | 1.073 (5.878) | 1 |
| Left.lateraloccipital\_part4 | -11.362 (4.327) | -11.466 (4.681) | 1 |
| Left.lateraloccipital\_part5 | 7.964 (5.489) | 7.61 (6.377) | 1 |
| Left.lateraloccipital\_part6 | -5.995 (4.769) | -5.754 (5.097) | 1 |
| Left.lateraloccipital\_part7 | 3.218 (6.098) | 3.545 (5.934) | 1 |
| Left.lateraloccipital\_part8 | 9.46 (5.231) | 8.595 (5.91) | 1 |
| Left.lateraloccipital\_part9 | -2.676 (5.431) | -3.478 (5.559) | 0.114 |
| Left.lateralorbitofrontal\_part1 | 9.021 (5.782) | 9.935 (6.208) | 0.01 |
| Left.lateralorbitofrontal\_part2 | 10.748 (5.076) | 11.524 (6.021) | <0.001 |
| Left.lateralorbitofrontal\_part3 | 2.462 (5.084) | 2.334 (5.607) | 1 |
| Left.lateralorbitofrontal\_part4 | -0.988 (4.05) | -1.505 (4.77) | 1 |
| Left.lingual\_part1 | -4.915 (5.146) | -4.125 (4.969) | 0.54 |
| Left.lingual\_part2 | 6.709 (6.078) | 6.812 (6.769) | 1 |
| Left.lingual\_part3 | -0.321 (5.93) | 0.773 (6.05) | <0.001 |
| Left.lingual\_part4 | 11.449 (3.437) | 12.367 (3.734) | <0.001 |
| Left.lingual\_part5 | 6.249 (5.091) | 7.303 (4.96) | 0.001 |
| Left.lingual\_part6 | 2.496 (6.302) | 3.718 (6.277) | <0.001 |
| Left.medialorbitofrontal\_part1 | 3.686 (3.958) | 3.429 (5.161) | 1 |
| Left.medialorbitofrontal\_part2 | -0.474 (2.791) | 0.14 (2.705) | 0.174 |
| Left.medialorbitofrontal\_part3 | 1.466 (3.325) | 1.778 (3.353) | 1 |
| Left.middletemporal\_part1 | 11.045 (7.775) | 10.507 (8.123) | 1 |
| Left.middletemporal\_part2 | 1.504 (8.866) | -0.365 (9.69) | <0.001 |
| Left.middletemporal\_part3 | 3.591 (7.483) | 2.948 (7.094) | 0.32 |
| Left.middletemporal\_part4 | 7.878 (9.147) | 7.643 (9.66) | 1 |
| Left.middletemporal\_part5 | 3.296 (8.549) | 2.585 (9.155) | 1 |
| Left.paracentral\_part1 | 10.515 (5.82) | 8.216 (6.443) | <0.001 |
| Left.paracentral\_part2 | 8.256 (4.992) | 7.606 (5.633) | 1 |
| Left.paracentral\_part3 | 4.257 (4.58) | 3.484 (4.673) | 0.157 |
| Left.parahippocampal\_part1 | -2.246 (6.237) | -3.559 (6.795) | 0.012 |
| Left.parahippocampal\_part2 | 6.879 (3.478) | 6.862 (3.741) | 1 |
| Left.parsopercularis\_part1 | -5.049 (4.272) | -4.688 (3.931) | 1 |
| Left.parsopercularis\_part2 | 3.648 (3.806) | 3.867 (3.891) | 1 |
| Left.parsopercularis\_part3 | -1.713 (5.878) | -0.992 (5.811) | 0.046 |
| Left.parsorbitalis\_part1 | 3.205 (5.563) | 2.408 (6.014) | 0.054 |
| Left.parstriangularis\_part1 | -3.958 (7.182) | -3.232 (7.238) | 1 |
| Left.parstriangularis\_part2 | -2.136 (3.829) | -2.842 (4.515) | 0.59 |
| Left.pericalcarine\_part1 | 13.687 (5.459) | 13.632 (4.801) | 1 |
| Left.pericalcarine\_part2 | 12.319 (4.537) | 11.031 (5.188) | <0.001 |
| Left.postcentral\_part1 | 8.297 (6.171) | 7.657 (5.872) | 1 |
| Left.postcentral\_part2 | 1.855 (3.407) | 2.097 (3.593) | 1 |
| Left.postcentral\_part3 | 2.904 (6.307) | 2.663 (5.907) | 1 |
| Left.postcentral\_part4 | -0.279 (3.066) | -0.959 (3.179) | 0.011 |
| Left.postcentral\_part5 | 0.856 (5.028) | 0.652 (4.786) | 1 |
| Left.postcentral\_part6 | 9.58 (5.825) | 8.576 (6.712) | 0.602 |
| Left.postcentral\_part7 | -4.393 (5.08) | -4.073 (4.917) | 1 |
| Left.postcentral\_part8 | 2.557 (6.003) | 2.713 (6.272) | 1 |
| Left.posteriorcingulate\_part1 | 5.595 (4.964) | 4.369 (6.725) | 0.859 |
| Left.posteriorcingulate\_part2 | 4.447 (5.098) | 3.507 (5.541) | 1 |
| Left.precentral\_part1 | -7.175 (3.744) | -7.791 (3.559) | 0.029 |
| Left.precentral\_part2 | 2.841 (3.868) | 2.981 (3.634) | 1 |
| Left.precentral\_part3 | -4.728 (3.855) | -5.355 (3.913) | 0.201 |
| Left.precentral\_part4 | 2.101 (5.658) | 1.4 (5.651) | 0.806 |
| Left.precentral\_part5 | -9.576 (4.106) | -9.622 (4.702) | 1 |
| Left.precentral\_part6 | -9.349 (3.86) | -9.542 (4.063) | 1 |
| Left.precentral\_part7 | -1.863 (3.747) | -1.404 (4.403) | 0.12 |
| Left.precentral\_part8 | -7.072 (4.794) | -6.498 (4.401) | 1 |
| Left.precentral\_part9 | -7.462 (3.479) | -6.781 (3.693) | 0.005 |
| Left.precuneus\_part1 | -4.182 (3.547) | -4.585 (3.615) | 1 |
| Left.precuneus\_part2 | -3.018 (5.925) | -4.585 (5.651) | <0.001 |
| Left.precuneus\_part3 | -5.055 (4.066) | -4.932 (4.109) | 1 |
| Left.precuneus\_part4 | -8.73 (3.951) | -8.868 (3.912) | 1 |
| Left.precuneus\_part5 | -7.67 (3.719) | -7.455 (3.944) | 1 |
| Left.precuneus\_part6 | -11.495 (4.468) | -11.667 (4.602) | 1 |
| Left.precuneus\_part7 | -10.144 (3.824) | -10.361 (3.4) | 1 |
| Left.rostralanteriorcingulate\_part1 | 22.892 (5.773) | 23.405 (5.824) | 0.081 |
| Left.rostralmiddlefrontal\_part1 | -8.304 (4.886) | -7.932 (5.2) | 1 |
| Left.rostralmiddlefrontal\_part10 | -3.83 (5.635) | -4.149 (5.042) | 1 |
| Left.rostralmiddlefrontal\_part2 | -9.843 (3.384) | -9.819 (3.288) | 1 |
| Left.rostralmiddlefrontal\_part3 | -13.122 (4.211) | -11.813 (4.445) | <0.001 |
| Left.rostralmiddlefrontal\_part4 | -0.989 (3.333) | -1.165 (3.548) | 1 |
| Left.rostralmiddlefrontal\_part5 | -9.029 (3.887) | -8.546 (3.448) | 1 |
| Left.rostralmiddlefrontal\_part6 | -3.52 (3.88) | -3.362 (4.148) | 1 |
| Left.rostralmiddlefrontal\_part7 | -7.308 (5.36) | -6.448 (5.451) | 0.001 |
| Left.rostralmiddlefrontal\_part8 | -3.471 (3.515) | -3.416 (3.597) | 1 |
| Left.rostralmiddlefrontal\_part9 | -10.61 (4.888) | -10.419 (4.6) | 1 |
| Left.superiorfrontal\_part1 | 8.076 (4.026) | 7.838 (4.247) | 1 |
| Left.superiorfrontal\_part10 | 4.065 (3.591) | 3.942 (3.852) | 1 |
| Left.superiorfrontal\_part11 | -1.676 (5.496) | -1.319 (4.877) | 1 |
| Left.superiorfrontal\_part12 | -1.132 (5.063) | -0.755 (4.522) | 1 |
| Left.superiorfrontal\_part13 | 7.89 (3.366) | 9.283 (3.64) | <0.001 |
| Left.superiorfrontal\_part2 | 0.163 (4.512) | 0.546 (4.526) | 1 |
| Left.superiorfrontal\_part3 | 5.031 (4.639) | 5.509 (4.866) | 1 |
| Left.superiorfrontal\_part4 | -4.745 (4.798) | -4.841 (4.966) | 1 |
| Left.superiorfrontal\_part5 | 8.329 (3.808) | 8.935 (3.724) | 0.268 |
| Left.superiorfrontal\_part6 | 3.057 (4.137) | 3.511 (4.586) | 0.434 |
| Left.superiorfrontal\_part7 | 6.187 (4.395) | 7.531 (4.119) | <0.001 |
| Left.superiorfrontal\_part8 | 6.349 (4.643) | 6.804 (4.649) | 1 |
| Left.superiorfrontal\_part9 | 3.073 (3.34) | 3.892 (3.93) | <0.001 |
| Left.superiorparietal\_part1 | -7.035 (9.977) | -8.79 (10.409) | 0.005 |
| Left.superiorparietal\_part10 | -8.599 (4.464) | -8.904 (4.129) | 1 |
| Left.superiorparietal\_part2 | -2.615 (5.379) | -3.209 (5.639) | 1 |
| Left.superiorparietal\_part3 | -10.876 (5.912) | -11.559 (4.893) | 0.06 |
| Left.superiorparietal\_part4 | -7.297 (6.165) | -6.962 (5.254) | 1 |
| Left.superiorparietal\_part5 | -6.162 (5.296) | -6.057 (5.603) | 1 |
| Left.superiorparietal\_part6 | -7.554 (5.225) | -6.798 (5.776) | <0.001 |
| Left.superiorparietal\_part7 | -10.775 (4.365) | -12.248 (4.578) | <0.001 |
| Left.superiorparietal\_part8 | -3.115 (4.165) | -2.882 (4.693) | 1 |
| Left.superiorparietal\_part9 | -4.459 (6.378) | -4.317 (5.894) | 1 |
| Left.superiortemporal\_part1 | 10.429 (5.649) | 10.036 (5.889) | 1 |
| Left.superiortemporal\_part2 | 12.032 (4.113) | 11.959 (4.18) | 1 |
| Left.superiortemporal\_part3 | 2.354 (7.21) | 3.507 (7.082) | 0.014 |
| Left.superiortemporal\_part4 | 10.506 (4.722) | 10.417 (4.932) | 1 |
| Left.superiortemporal\_part5 | 1.037 (6.456) | 1.353 (6.218) | 1 |
| Left.superiortemporal\_part6 | 1.007 (3.889) | 1.485 (3.806) | 1 |
| Left.superiortemporal\_part7 | 3.404 (4.182) | 3.215 (4.202) | 1 |
| Left.supramarginal\_part1 | -10.043 (4.653) | -9.719 (4.343) | 1 |
| Left.supramarginal\_part2 | 3.502 (5.83) | 4.033 (5.769) | 1 |
| Left.supramarginal\_part3 | -8.373 (6.315) | -6.171 (6.474) | <0.001 |
| Left.supramarginal\_part4 | -4.41 (5.124) | -4.558 (4.781) | 1 |
| Left.supramarginal\_part5 | -7.452 (5.705) | -5.646 (5.902) | <0.001 |
| Left.supramarginal\_part6 | -7.771 (4.457) | -8.609 (4.63) | 0.046 |
| Left.supramarginal\_part7 | -3.238 (5.545) | -3.186 (5.521) | 1 |
| Left.temporalpole\_part1 | 16.633 (3.832) | 17.908 (3.26) | <0.001 |
| Left.transversetemporal\_part1 | 10.59 (6.101) | 10.682 (6.311) | 1 |
| Right.bankssts\_part1 | -0.774 (3.503) | -0.24 (3.757) | 0.222 |
| Right.bankssts\_part2 | -2.168 (3.886) | -1.855 (4.302) | 1 |
| Right.caudalanteriorcingulate\_part1 | 11.631 (6.981) | 11.572 (7.417) | 1 |
| Right.caudalmiddlefrontal\_part1 | -3.954 (3.972) | -4.22 (4.208) | 1 |
| Right.caudalmiddlefrontal\_part2 | -5.203 (5.909) | -4.954 (6.666) | 1 |
| Right.caudalmiddlefrontal\_part3 | -9.62 (4.695) | -9.422 (4.862) | 1 |
| Right.caudalmiddlefrontal\_part4 | -9.21 (3.977) | -8.87 (4.428) | 0.413 |
| Right.cuneus\_part1 | 6.931 (4.483) | 5.576 (5.151) | <0.001 |
| Right.cuneus\_part2 | 8.423 (6.376) | 7.837 (7.095) | 1 |
| Right.cuneus\_part3 | 12.716 (3.415) | 12.308 (4.067) | 1 |
| Right.entorhinal\_part1 | -0.593 (8.495) | -0.182 (7.341) | 1 |
| Right.frontalpole\_part1 | 17.408 (3.971) | 18.39 (3.926) | <0.001 |
| Right.fusiform\_part1 | 2.928 (4.609) | 2.234 (5.281) | 1 |
| Right.fusiform\_part2 | 11.398 (7.453) | 10.195 (8.345) | 0.127 |
| Right.fusiform\_part3 | -0.119 (6.727) | -0.961 (7.563) | 1 |
| Right.fusiform\_part4 | 5.913 (6.485) | 4.799 (6.193) | <0.001 |
| Right.fusiform\_part5 | 1.378 (6.005) | 0.087 (6.482) | <0.001 |
| Right.inferiorparietal\_part1 | -10.096 (5.78) | -11.103 (4.791) | <0.001 |
| Right.inferiorparietal\_part10 | -11.104 (4.65) | -10.869 (4.295) | 1 |
| Right.inferiorparietal\_part2 | -10.976 (3.685) | -10.44 (3.565) | 0.983 |
| Right.inferiorparietal\_part3 | -8.222 (5.03) | -8.064 (4.941) | 1 |
| Right.inferiorparietal\_part4 | -10.758 (3.532) | -10.811 (3.76) | 1 |
| Right.inferiorparietal\_part5 | -8.695 (4.758) | -7.328 (4.921) | <0.001 |
| Right.inferiorparietal\_part6 | -9.636 (4.705) | -9.157 (4.699) | 1 |
| Right.inferiorparietal\_part7 | -11.032 (5.06) | -10.755 (4.642) | 1 |
| Right.inferiorparietal\_part8 | -4.355 (5.994) | -4.528 (6.676) | 1 |
| Right.inferiorparietal\_part9 | -10.283 (3.54) | -10.159 (3.362) | 1 |
| Right.inferiortemporal\_part1 | 11.672 (6.103) | 12.337 (6.902) | 0.101 |
| Right.inferiortemporal\_part2 | 0.579 (8.634) | -0.923 (8.174) | <0.001 |
| Right.inferiortemporal\_part3 | 6.503 (6.922) | 5.931 (7.955) | 1 |
| Right.inferiortemporal\_part4 | 5.136 (9.104) | 4.256 (8.881) | 0.07 |
| Right.inferiortemporal\_part5 | 1.704 (7.547) | 0.378 (7.525) | <0.001 |
| Right.insula\_part1 | 14.222 (4.831) | 14.402 (4.854) | 1 |
| Right.insula\_part2 | 6.813 (2.641) | 6.905 (2.746) | 1 |
| Right.insula\_part3 | 9.859 (3.427) | 10.946 (3.403) | <0.001 |
| Right.insula\_part4 | 14.581 (3.559) | 14.342 (3.921) | 1 |
| Right.isthmuscingulate\_part1 | -3.095 (6.109) | -2.951 (6.609) | 1 |
| Right.isthmuscingulate\_part2 | -7.568 (5.447) | -7.196 (5.29) | 1 |
| Right.lateraloccipital\_part1 | 3.781 (5.251) | 4.236 (6.266) | 0.165 |
| Right.lateraloccipital\_part2 | -9.434 (3.747) | -8.685 (3.616) | 0.002 |
| Right.lateraloccipital\_part3 | 1.347 (4.992) | 1.545 (5.419) | 1 |
| Right.lateraloccipital\_part4 | -1.915 (5.714) | -2.47 (6.339) | 1 |
| Right.lateraloccipital\_part5 | -6.339 (3.947) | -6.587 (4.261) | 1 |
| Right.lateraloccipital\_part6 | -4.126 (5.122) | -3.77 (5.272) | 1 |
| Right.lateraloccipital\_part7 | 2.909 (5.282) | 3.459 (5.62) | 1 |
| Right.lateraloccipital\_part8 | 6.855 (6.436) | 7.389 (6.62) | 1 |
| Right.lateraloccipital\_part9 | -7.088 (4.657) | -7.086 (4.227) | 1 |
| Right.lateralorbitofrontal\_part1 | 6.886 (5.405) | 7.447 (6.465) | 0.054 |
| Right.lateralorbitofrontal\_part2 | 1.65 (4.691) | 1.772 (5.204) | 1 |
| Right.lateralorbitofrontal\_part3 | 0.027 (5.151) | -0.266 (5.049) | 1 |
| Right.lateralorbitofrontal\_part4 | -0.386 (4.992) | 0.227 (4.887) | 0.786 |
| Right.lingual\_part1 | -4.015 (5.774) | -2.749 (5.74) | <0.001 |
| Right.lingual\_part2 | 5.527 (6.065) | 5.924 (7.21) | 0.181 |
| Right.lingual\_part3 | -4.833 (4.93) | -3.931 (5.561) | <0.001 |
| Right.lingual\_part4 | 8.79 (3.712) | 9.874 (4.117) | <0.001 |
| Right.lingual\_part5 | 5.963 (4.396) | 7.469 (3.966) | <0.001 |
| Right.lingual\_part6 | 1.273 (5.572) | 2.58 (6.07) | <0.001 |
| Right.medialorbitofrontal\_part1 | 0.055 (2.756) | 0.728 (2.663) | 0.002 |
| Right.medialorbitofrontal\_part2 | 2.032 (4.818) | 2.721 (5.211) | 0.018 |
| Right.medialorbitofrontal\_part3 | 6.944 (4.611) | 7.755 (4.688) | 0.054 |
| Right.middletemporal\_part1 | 3.663 (5.587) | 2.411 (6.742) | 0.324 |
| Right.middletemporal\_part2 | 5.416 (4.921) | 4.915 (5.465) | 1 |
| Right.middletemporal\_part3 | 3.475 (5.079) | 2.665 (6.227) | 1 |
| Right.middletemporal\_part4 | -7.294 (6.882) | -6.417 (7.333) | <0.001 |
| Right.middletemporal\_part5 | 4.656 (6.264) | 5.213 (5.996) | 1 |
| Right.middletemporal\_part6 | 2.929 (5.786) | 1.708 (5.904) | <0.001 |
| Right.paracentral\_part1 | 1.211 (5.054) | 0.787 (5.145) | 1 |
| Right.paracentral\_part2 | 0.417 (5.889) | 0.451 (6.064) | 1 |
| Right.paracentral\_part3 | -1.041 (4.37) | -1.361 (3.762) | 0.843 |
| Right.parahippocampal\_part1 | 6.688 (4.007) | 6.263 (4.405) | 1 |
| Right.parahippocampal\_part2 | 2.621 (4.59) | 1.839 (5.567) | 1 |
| Right.parsopercularis\_part1 | 10.789 (4.467) | 11.183 (4.92) | 1 |
| Right.parsopercularis\_part2 | 1.574 (5.941) | 2.082 (6.611) | 0.021 |
| Right.parsopercularis\_part3 | 5.06 (8.051) | 6.753 (8.3) | <0.001 |
| Right.parsorbitalis\_part1 | 12.57 (4.05) | 12.756 (4.49) | 1 |
| Right.parstriangularis\_part1 | -6.507 (3.877) | -7.243 (4.682) | 1 |
| Right.parstriangularis\_part2 | 8.615 (5.222) | 8.719 (5.994) | 1 |
| Right.parstriangularis\_part3 | -2.04 (4.703) | -1.73 (5.839) | 0.032 |
| Right.pericalcarine\_part1 | 10.682 (3.26) | 11.361 (3.492) | 0.019 |
| Right.pericalcarine\_part2 | 12.863 (4.832) | 14.051 (4.767) | <0.001 |
| Right.pericalcarine\_part3 | 11.023 (2.915) | 11.51 (3.515) | 0.001 |
| Right.postcentral\_part1 | 9.264 (6.825) | 8.727 (6.914) | 1 |
| Right.postcentral\_part2 | 3.041 (2.912) | 3.615 (3.042) | 0.003 |
| Right.postcentral\_part3 | 3.625 (7.354) | 3.483 (7.004) | 1 |
| Right.postcentral\_part4 | 4.883 (3.889) | 4.437 (4.216) | 1 |
| Right.postcentral\_part5 | -3.716 (7.544) | -3.934 (7.717) | 1 |
| Right.postcentral\_part6 | 1.236 (6.797) | -0.155 (6.714) | <0.001 |
| Right.postcentral\_part7 | 7.553 (6.885) | 8.12 (6.544) | 1 |
| Right.postcentral\_part8 | 4.59 (6.034) | 4.376 (6.48) | 1 |
| Right.posteriorcingulate\_part1 | 0.361 (5.122) | 1.054 (5.265) | 0.064 |
| Right.posteriorcingulate\_part2 | 1.651 (4.203) | 2.384 (4.521) | 0.165 |
| Right.precentral\_part1 | 3.403 (2.97) | 3.44 (3.118) | 1 |
| Right.precentral\_part2 | -6.828 (4.31) | -7.612 (4.473) | 0.258 |
| Right.precentral\_part3 | -0.504 (5.936) | -0.453 (5.676) | 1 |
| Right.precentral\_part4 | -9.27 (6.803) | -10 (6.949) | 0.816 |
| Right.precentral\_part5 | -1.814 (4.093) | -1.691 (4.161) | 1 |
| Right.precentral\_part6 | -10.372 (4.087) | -11.455 (4.015) | <0.001 |
| Right.precentral\_part7 | -6.257 (5.216) | -6.401 (5.032) | 1 |
| Right.precentral\_part8 | -4.702 (4.115) | -5.634 (3.985) | <0.001 |
| Right.precentral\_part9 | -9.751 (4.271) | -9.718 (4.194) | 1 |
| Right.precuneus\_part1 | -4.7 (3.38) | -4.796 (3.525) | 1 |
| Right.precuneus\_part2 | -5.324 (4.201) | -5.571 (4.292) | 1 |
| Right.precuneus\_part3 | -4.525 (3.963) | -4.875 (4.047) | 1 |
| Right.precuneus\_part4 | 1.215 (4.041) | 0.991 (4.48) | 1 |
| Right.precuneus\_part5 | -9.836 (4.119) | -10.606 (4.146) | 0.123 |
| Right.precuneus\_part6 | -8.359 (3.068) | -8.989 (3.003) | 0.022 |
| Right.precuneus\_part7 | -9.04 (5.995) | -9.578 (5.497) | 0.207 |
| Right.rostralanteriorcingulate\_part1 | 8.619 (7.386) | 8.215 (8.269) | 1 |
| Right.rostralmiddlefrontal\_part1 | -0.17 (4.54) | 0.545 (4.223) | 1 |
| Right.rostralmiddlefrontal\_part10 | -5.185 (5.188) | -5.08 (5.36) | 1 |
| Right.rostralmiddlefrontal\_part2 | -0.275 (3.639) | -0.253 (3.801) | 1 |
| Right.rostralmiddlefrontal\_part3 | -6.067 (6.449) | -6.471 (6.633) | 1 |
| Right.rostralmiddlefrontal\_part4 | -7.388 (4.271) | -7.027 (3.697) | 1 |
| Right.rostralmiddlefrontal\_part5 | -10.17 (4.193) | -10.357 (4.047) | 1 |
| Right.rostralmiddlefrontal\_part6 | -4.493 (3.443) | -4.376 (3.49) | 1 |
| Right.rostralmiddlefrontal\_part7 | -8.146 (3.853) | -7.481 (4.181) | 0.079 |
| Right.rostralmiddlefrontal\_part8 | -6.668 (3.504) | -6.923 (3.535) | 1 |
| Right.rostralmiddlefrontal\_part9 | -9.753 (5.879) | -9.396 (5.301) | 1 |
| Right.superiorfrontal\_part1 | 0.982 (4.578) | 2.022 (4.479) | <0.001 |
| Right.superiorfrontal\_part10 | 1.751 (4.085) | 1.916 (4.153) | 1 |
| Right.superiorfrontal\_part11 | 7.759 (4.167) | 8.334 (4.164) | 1 |
| Right.superiorfrontal\_part12 | -2.303 (3.371) | -2.074 (3.567) | 1 |
| Right.superiorfrontal\_part13 | 5.472 (2.952) | 5.645 (3.25) | 1 |
| Right.superiorfrontal\_part2 | 3.254 (3.434) | 4.011 (3.501) | 0.003 |
| Right.superiorfrontal\_part3 | 2.517 (6.262) | 2.516 (6.252) | 1 |
| Right.superiorfrontal\_part4 | 1.689 (4.156) | 2.136 (3.634) | 1 |
| Right.superiorfrontal\_part5 | -3.009 (5.896) | -3.574 (6.251) | 1 |
| Right.superiorfrontal\_part6 | 7.055 (3.607) | 7.273 (3.938) | 1 |
| Right.superiorfrontal\_part7 | 4.485 (4.839) | 5.173 (4.811) | 1 |
| Right.superiorfrontal\_part8 | 4.568 (3.405) | 5.116 (3.356) | 1 |
| Right.superiorfrontal\_part9 | -5.663 (5.085) | -5.646 (4.48) | 1 |
| Right.superiorparietal\_part1 | -0.619 (6.389) | -0.962 (6.228) | 1 |
| Right.superiorparietal\_part10 | -6.458 (5.632) | -5.232 (5.221) | 0.012 |
| Right.superiorparietal\_part2 | -1.458 (6.918) | -2.236 (7.128) | 1 |
| Right.superiorparietal\_part3 | -6.882 (4.921) | -7.428 (4.859) | 0.551 |
| Right.superiorparietal\_part4 | -6.708 (5.067) | -7.56 (5.461) | 0.173 |
| Right.superiorparietal\_part5 | -1.183 (4.52) | -2.2 (4.952) | 0.019 |
| Right.superiorparietal\_part6 | -8.216 (3.921) | -9.106 (4.294) | 0.224 |
| Right.superiorparietal\_part7 | -9.769 (3.733) | -10.467 (3.862) | 0.872 |
| Right.superiorparietal\_part8 | -6.559 (5.161) | -6.116 (5.204) | 1 |
| Right.superiorparietal\_part9 | -7.231 (5.887) | -7.083 (5.08) | 1 |
| Right.superiortemporal\_part1 | 11.098 (4.718) | 11.776 (4.607) | 0.178 |
| Right.superiortemporal\_part2 | 3.724 (5.264) | 4.301 (5.148) | 1 |
| Right.superiortemporal\_part3 | 11.207 (5.069) | 10.61 (5.02) | 1 |
| Right.superiortemporal\_part4 | 8.352 (5.064) | 7.308 (5.14) | <0.001 |
| Right.superiortemporal\_part5 | 8.677 (4.795) | 8.176 (5.888) | 1 |
| Right.superiortemporal\_part6 | 3.943 (2.536) | 4.135 (3.108) | 1 |
| Right.supramarginal\_part1 | -4.7 (3.948) | -4.785 (4.314) | 1 |
| Right.supramarginal\_part2 | 6.261 (3.875) | 6.691 (3.626) | 1 |
| Right.supramarginal\_part3 | -7.896 (4.442) | -8.492 (4.71) | 1 |
| Right.supramarginal\_part4 | -3.693 (5.079) | -3.209 (4.816) | 1 |
| Right.supramarginal\_part5 | -4.498 (4.771) | -4.521 (5.022) | 1 |
| Right.supramarginal\_part6 | -3.128 (5.141) | -3.062 (4.494) | 1 |
| Right.supramarginal\_part7 | -2.348 (5.485) | -1.652 (4.92) | 1 |
| Right.temporalpole\_part1 | 14.843 (3.424) | 15.779 (5.23) | <0.001 |
| Right.transversetemporal\_part1 | 20.041 (3.333) | 21.651 (3.068) | <0.001 |

PBSI-All, person-based similarity index for all cortical measures; HC, healthy control; SPR, schizophrenia.

a expressed as ×10-4

b Mann–Whitney U test was used with Bonferroni correction for multiple testing

# **Supplementary Table 6-1.** Association between the PBSI scores and illness duration in patients with schizophrenia

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Male | | Female | |
| Modality | rho | Uncorrected p | rho | Uncorrected p |
| PBSI-SA | 0.083 | 0.138 | 0.054 | 0.362 |
| PBSI-GV | 0.078 | 0.163 | 0.039 | 0.508 |
| PBSI-CT | 0.129 | 0.020 | -0.023 | 0.695 |
| PBSI-LGI | 0.060 | 0.280 | 0.044 | 0.462 |
| PBSI-All | 0.109 | 0.051 | 0.040 | 0.501 |

PBSI-SA, person-based similarity index for surface area; PBSI-GV, person-based similarity index for gray matter volume; PBSI-CT, person-based similarity index for cortical thickness; PBSI-LGI, person-based similarity index for local gyrification index; PBSI-All, person-based similarity index for all cortical measures.

# **Supplementary Table 6-2.** Association between the PBSI scores and daily olanzapine equivalents in patients with schizophrenia

|  |  |  |
| --- | --- | --- |
| Modality | rho | Uncorrected p |
| PBSI-SA | 0.002 | 0.984 |
| PBSI-GV | -0.057 | 0.498 |
| PBSI-CT | -0.156 | 0.062 |
| PBSI-LGI | 0.089 | 0.292 |
| PBSI-All | -0.066 | 0.432 |

PBSI-SA, person-based similarity index for surface area; PBSI-GV, person-based similarity index for gray matter volume; PBSI-CT, person-based similarity index for cortical thickness; PBSI-LGI, person-based similarity index for local gyrification index; PBSI-All, person-based similarity index for all cortical measures.

# **Supplementary Table 6-3.** Association between the PBSI scores with the PANSS positive and negative PANSS scores in patients with schizophrenia

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | PANSS positive | | PANSS negative | |
| Modality | rho | Uncorrected p | rho | Uncorrected p |
| PBSI-SA | 0.103 | 0.007 | 0.05 | 0.195 |
| PBSI-GV | 0.109 | 0.004 | 0.047 | 0.218 |
| PBSI-CT | 0.020 | 0.610 | -0.076 | 0.047 |
| PBSI-LGI | 0.063 | 0.100 | 0.046 | 0.227 |
| PBSI-All | 0.110 | 0.004 | 0.023 | 0.551 |

PBSI-SA, person-based similarity index for surface area; PBSI-GV, person-based similarity index for grey matter volume; PBSI-CT, person-based similarity index for cortical thickness; PBSI-LGI, person-based similarity index for local gyrification index; PBSI-All, person-based similarity index for all cortical measures; PANSS, positive and negative syndrome scale.

# **Supplementary Table 7-1.** Group comparisons of clinical variables between the deviant and other patients in terms of the PBSI scores

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | No deviant | | Devianta | | Statisticb | |
| PBSI score | Clinical variable | Mean | SD | Mean | SD | W | pc |
| PBSI-SA | PANSS positive | 14.5 | 6.1 | 14.7 | 6.2 | 30793.5 | 0.862 |
| PANSS negative | 13.6 | 6.3 | 14.1 | 6.9 | 30267 | 0.649 |
| IQ | 92.4 | 18.4 | 83.3 | 25.4 | 2265 | 0.077 |
| Word fluency | 39.2 | 9.1 | 37 | 6.3 | 219 | 0.504 |
| CTT 1 | 42.5 | 15.1 | 36.9 | 14.5 | 658.5 | 0.124 |
| PBSI-GV | PANSS positive | 14.6 | 6.1 | 14.3 | 6 | 36110 | 0.618 |
| PANSS negative | 13.6 | 6.3 | 14 | 6.8 | 34146 | 0.626 |
| IQ | 94.1 | 18.4 | 74.5 | 19.2 | 2956.5 | <0.001 |
| Word fluency | 39.6 | 8.4 | 35 | 10.7 | 260.5 | 0.304 |
| CTT 1 | 43.1 | 15.5 | 33.7 | 7.8 | 793.5 | 0.012 |
| PBSI-CT | PANSS positive | 14.7 | 6.1 | 13.7 | 5.9 | 30633.5 | 0.144 |
| PANSS negative | 13.6 | 6.4 | 14.6 | 6.4 | 24887 | 0.076 |
| IQ | 92.5 | 19.4 | 82.2 | 20 | 2334.5 | 0.018 |
| Word fluency | 39 | 9.3 | 38.5 | 4 | 222.5 | 0.831 |
| CTT 1 | 43 | 14.9 | 31.7 | 12.3 | 638 | 0.020 |
| PBSI-LGI | PANSS positive | 14.7 | 6.2 | 13.9 | 5.7 | 38608 | 0.189 |
| PANSS negative | 13.7 | 6.3 | 13.8 | 6.7 | 36485 | 0.794 |
| IQ | 91.9 | 19.2 | 88.3 | 21.8 | 2941 | 0.246 |
| Word fluency | 39.3 | 8.8 | 38 | 9.1 | 355 | 0.661 |
| CTT 1 | 43 | 15.6 | 37.4 | 12 | 978 | 0.082 |
| PBSI-All | PANSS positive | 14.4 | 6.1 | 15.0 | 6.0 | 31410.5 | 0.311 |
| PANSS negative | 13.6 | 6.3 | 14.4 | 6.8 | 31055.5 | 0.230 |
| IQ | 93.4 | 18.4 | 80.7 | 22.6 | 2968.5 | 0.002 |
| Word fluency | 39.0 | 9.4 | 38.6 | 5.6 | 282.0 | 0.903 |
| CTT 1 | 43.1 | 15.4 | 35.2 | 11.3 | 901.5 | 0.019 |

PBSI-SA, person-based similarity index for surface area; PBSI-GV, person-based similarity index for gray matter volume; PBSI-CT, person-based similarity index for cortical thickness; PBSI-LGI, person-based similarity index for local gyrification index; PBSI-All, person-based similarity index for all cortical measures; PANSS, positive and negative syndrome scale; IQ, intelligence quotient; CTT 1, color trails test 1.

a Deviant patients were defined as those with PBSI scores lower than the mean-1.5 SD scores of healthy controls.

b Mann–Whitney U test was performed.

c Uncorrected p values

# **Supplementary Table 7-2.** Group comparisons of the PBSI scores between the deviant and other patients in terms of clinical variables

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Clinical variable |  | No deviant | | Devianta | | Statisticb | |
| PBSI score | Mean | SD | Mean | SD | W | pc |
| PANSS positive | PBSI-SA | 0.364 | 0.047 | 0.37 | 0.046 | 18771 | 0.326 |
| PBSI-GV | 0.573 | 0.044 | 0.581 | 0.037 | 17972 | 0.131 |
| PBSI-CT | 0.66 | 0.041 | 0.662 | 0.03 | 19778 | 0.75 |
| PBSI-LGI | 0.91 | 0.017 | 0.91 | 0.019 | 19369 | 0.556 |
| PBSI-All | 0.631 | 0.031 | 0.635 | 0.026 | 18025 | 0.14 |
| PANSS negative | PBSI-SA | 0.365 | 0.047 | 0.364 | 0.05 | 21379 | 0.985 |
| PBSI-GV | 0.574 | 0.044 | 0.571 | 0.04 | 22413 | 0.495 |
| PBSI-CT | 0.661 | 0.04 | 0.657 | 0.036 | 22267 | 0.556 |
| PBSI-LGI | 0.91 | 0.017 | 0.911 | 0.017 | 19476 | 0.229 |
| PBSI-All | 0.632 | 0.03 | 0.63 | 0.028 | 21928 | 0.711 |
| IQ | PBSI-SA | 0.366 | 0.042 | 0.328 | 0.043 | 2007 | 0.001 |
| PBSI-GV | 0.575 | 0.039 | 0.54 | 0.038 | 2033 | 0.001 |
| PBSI-CT | 0.658 | 0.039 | 0.639 | 0.035 | 1827 | 0.017 |
| PBSI-LGI | 0.91 | 0.014 | 0.902 | 0.018 | 1680 | 0.102 |
| PBSI-All | 0.632 | 0.026 | 0.607 | 0.024 | 2099 | <0.001 |
| Word fluency | PBSI-SA | 0.371 | 0.046 | 0.362 | 0.038 | 215 | 0.564 |
| PBSI-GV | 0.58 | 0.041 | 0.567 | 0.041 | 232 | 0.336 |
| PBSI-CT | 0.655 | 0.043 | 0.656 | 0.022 | 227 | 0.396 |
| PBSI-LGI | 0.911 | 0.014 | 0.911 | 0.013 | 194 | 0.919 |
| PBSI-All | 0.634 | 0.029 | 0.628 | 0.016 | 235 | 0.303 |
| CTT 1 | PBSI-SA | 0.368 | 0.038 | 0.354 | 0.055 | 895 | 0.313 |
| PBSI-GV | 0.581 | 0.035 | 0.564 | 0.047 | 978 | 0.082 |
| PBSI-CT | 0.664 | 0.035 | 0.647 | 0.035 | 1035 | 0.025 |
| PBSI-LGI | 0.911 | 0.012 | 0.908 | 0.018 | 836 | 0.625 |
| PBSI-All | 0.635 | 0.023 | 0.622 | 0.03 | 979 | 0.080 |

a Deviant patients were defined as those with positive or negative PANSS scores higher than the upper 10th percentile values or those with neurocognitive results lower than the mean - 2 SD.

b Mann–Whitney U test was performed.

c Uncorrected p values