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*Research article*

## **Phubbing and phubber behavior: A new perspective in clinical psychological assessment**

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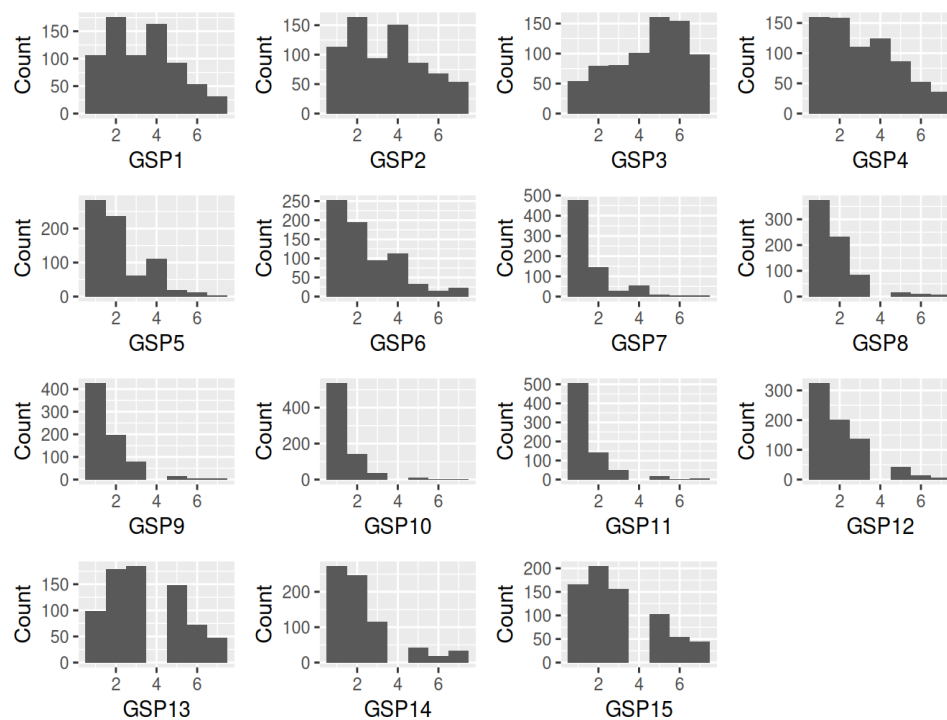
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**Supplementary**

**Table S1.** Descriptive statistics ( $M$ ,  $SD$ , Skewness, and Kurtosis) as well as Shapiro-Wilk normality test for GSP item.

| Row   | $M$  | $SD$ | Skewness | Kurtosis | $SW.test$ | $p.value$ |
|-------|------|------|----------|----------|-----------|-----------|
| GSP1  | 3.33 | 1.67 | 0.36     | −0.75    | 0.93      | <0.001    |
| GSP2  | 3.48 | 1.82 | 0.33     | −0.94    | 0.92      | <0.001    |
| GSP3  | 4.50 | 1.80 | −0.41    | −0.89    | 0.92      | <0.001    |
| GSP4  | 3.17 | 1.78 | 0.48     | −0.80    | 0.91      | <0.001    |
| GSP5  | 2.18 | 1.31 | 1.12     | 0.68     | 0.81      | <0.001    |
| GSP6  | 2.48 | 1.56 | 1.07     | 0.58     | 0.84      | <0.001    |
| GSP7  | 1.65 | 1.16 | 2.18     | 4.81     | 0.62      | <0.001    |
| GSP8  | 1.79 | 1.15 | 2.23     | 5.87     | 0.68      | <0.001    |
| GSP9  | 1.65 | 1.03 | 2.33     | 6.82     | 0.65      | <0.001    |
| GSP10 | 1.38 | 0.81 | 3.16     | 13.06    | 0.52      | <0.001    |
| GSP11 | 1.51 | 1.01 | 2.89     | 9.80     | 0.56      | <0.001    |
| GSP12 | 2.05 | 1.31 | 1.58     | 2.34     | 0.76      | <0.001    |
| GSP13 | 3.44 | 1.82 | 0.43     | −1.04    | 0.89      | <0.001    |
| GSP14 | 2.29 | 1.59 | 1.61     | 1.93     | 0.75      | <0.001    |
| GSP15 | 3.01 | 1.84 | 0.76     | −0.63    | 0.86      | <0.001    |

Note:  $N = 730$ .

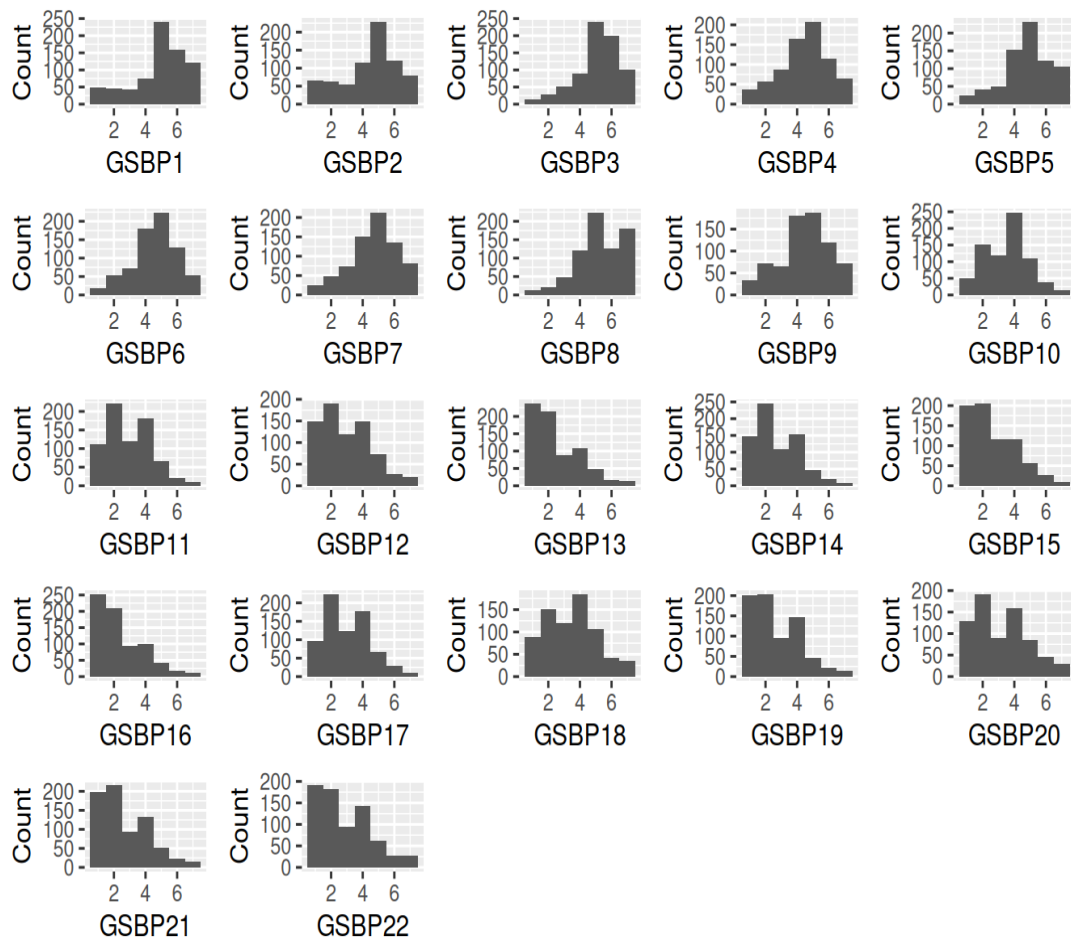


**Figure S1.** The distribution of responses to the GSP item.

**Table S2.** Descriptive statistics (*M*, *SD*, Skewness and Kurtosis,) as well as Shapiro-Wilk normality test for GSBP item.

| <i>Row</i> | <i>M</i> | <i>SD</i> | <i>Skewness</i> | <i>Kurtosis</i> | <i>SW.test</i> | <i>p.value</i> |
|------------|----------|-----------|-----------------|-----------------|----------------|----------------|
| GSBP1      | 4.88     | 1.68      | −0.83           | −0.01           | 0.88           | <0.001         |
| GSBP2      | 4.45     | 1.73      | −0.54           | −0.56           | 0.91           | <0.001         |
| GSBP3      | 5.09     | 1.39      | −0.82           | 0.48            | 0.9            | <0.001         |
| GSBP4      | 4.44     | 1.54      | −0.37           | −0.38           | 0.94           | <0.001         |
| GSBP5      | 4.80     | 1.51      | −0.54           | −0.01           | 0.92           | <0.001         |
| GSBP6      | 4.56     | 1.41      | −0.41           | −0.16           | 0.94           | <0.001         |
| GSBP7      | 4.66     | 1.51      | −0.46           | −0.26           | 0.93           | <0.001         |
| GSBP8      | 5.21     | 1.43      | −0.57           | −0.00           | 0.91           | <0.001         |
| GSBP9      | 4.47     | 1.58      | −0.36           | −0.47           | 0.94           | <0.001         |
| GSBP10     | 3.53     | 1.39      | 0.09            | −0.45           | 0.94           | <0.001         |
| GSBP11     | 2.95     | 1.41      | 0.46            | −0.42           | 0.92           | <0.001         |
| GSBP12     | 2.95     | 1.57      | 0.57            | −0.40           | 0.91           | <0.001         |
| GSBP13     | 2.48     | 1.51      | 0.96            | 0.22            | 0.85           | <0.001         |
| GSBP14     | 2.72     | 1.39      | 0.67            | −0.17           | 0.9            | <0.001         |
| GSBP15     | 2.64     | 1.51      | 0.77            | −0.19           | 0.88           | <0.001         |
| GSBP16     | 2.41     | 1.48      | 10.02           | 0.39            | 0.84           | <0.001         |
| GSBP17     | 3.04     | 1.44      | 0.49            | −0.39           | 0.92           | <0.001         |
| GSBP18     | 3.46     | 1.62      | 0.28            | −0.63           | 0.94           | <0.001         |
| GSBP19     | 2.67     | 1.52      | 0.75            | −0.13           | 0.88           | <0.001         |
| GSBP20     | 3.18     | 1.68      | 0.45            | −0.72           | 0.92           | <0.001         |
| GSBP21     | 2.67     | 1.54      | 0.80            | −0.07           | 0.88           | <0.001         |
| GSBP22     | 2.85     | 1.66      | 0.69            | −0.35           | 0.89           | <0.001         |

Note: *N* = 730.

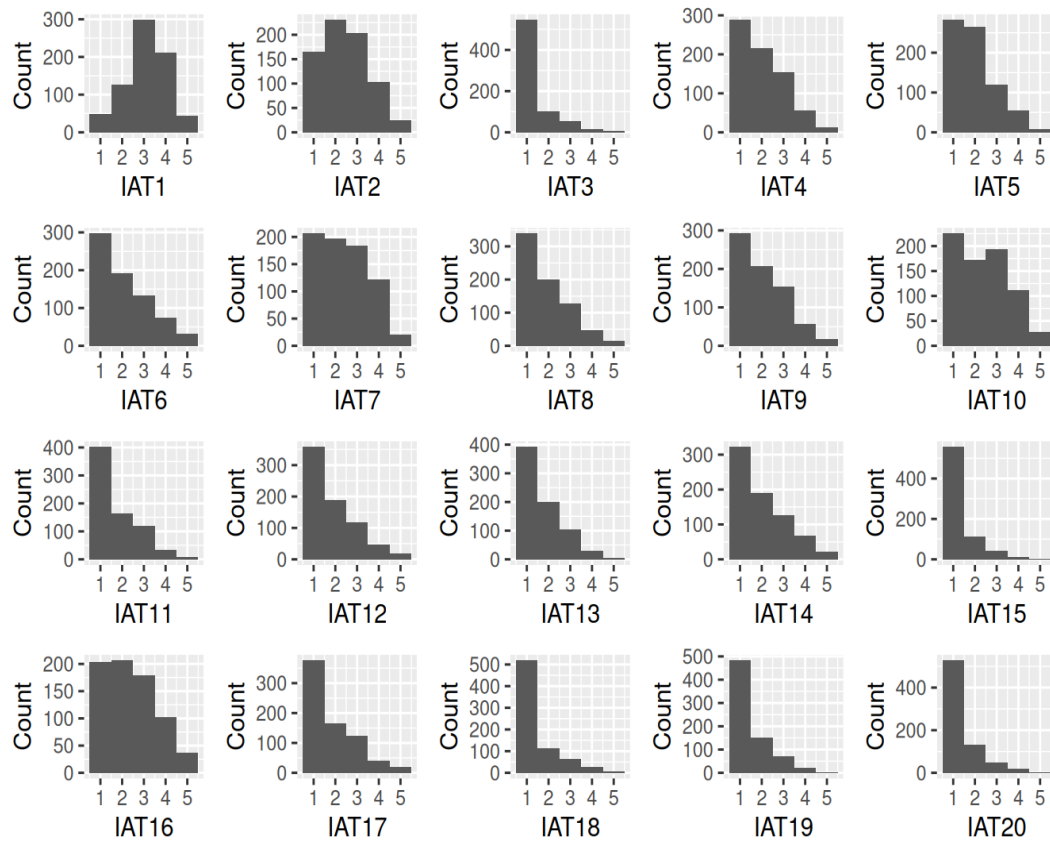


**Figure S2.** The distribution of responses to the GSBP item.

**Table S3.** Descriptive statistics (*M*, *SD*, Skewness and Kurtosis,) as well as Shapiro-Wilk normality test for IAT item.

| <i>Row</i> | <i>M</i> | <i>SD</i> | <i>Skewness</i> | <i>Kurtosis</i> | <i>SW.test</i> | <i>p.value</i> |
|------------|----------|-----------|-----------------|-----------------|----------------|----------------|
| IAT1       | 3.11     | 0.98      | −0.25           | −0.26           | 0.90           | <0.001         |
| IAT2       | 2.44     | 1.09      | 0.35            | −0.66           | 0.90           | <0.001         |
| IAT3       | 1.41     | 0.82      | 2.21            | 4.67            | 0.56           | <0.001         |
| IAT4       | 2.02     | 1.03      | 0.74            | −0.28           | 0.84           | <0.001         |
| IAT5       | 1.96     | 0.98      | 0.86            | 0.10            | 0.83           | <0.001         |
| IAT6       | 2.11     | 1.17      | 0.80            | −0.35           | 0.83           | <0.001         |
| IAT7       | 2.38     | 1.14      | 0.32            | −0.94           | 0.88           | <0.001         |
| IAT8       | 1.90     | 1.04      | 1.00            | 0.24            | 0.80           | <0.001         |
| IAT9       | 2.04     | 1.07      | 0.78            | −0.21           | 0.84           | <0.001         |
| IAT10      | 2.37     | 1.17      | 0.36            | −0.91           | 0.88           | <0.001         |
| IAT11      | 1.74     | 0.97      | 1.16            | 0.55            | 0.75           | <0.001         |
| IAT12      | 1.87     | 1.05      | 1.09            | 0.40            | 0.78           | <0.001         |
| IAT13      | 1.70     | .90       | 1.13            | 0.57            | 0.76           | <0.001         |
| IAT14      | 2.01     | 1.12      | 0.89            | −0.15           | 0.81           | <0.001         |
| IAT15      | 1.34     | 0.71      | 2.37            | 5.91            | 0.54           | <0.001         |
| IAT16      | 2.40     | 1.18      | 0.45            | −0.74           | 0.89           | <0.001         |
| IAT17      | 1.86     | 1.08      | 1.12            | 0.43            | 0.77           | <0.001         |
| IAT18      | 1.47     | 0.86      | 1.86            | 2.78            | 0.61           | <0.001         |
| IAT19      | 1.51     | 0.83      | 1.66            | 2.27            | 0.66           | <0.001         |
| IAT20      | 1.41     | 0.77      | 2.08            | 4.16            | 0.59           | <0.001         |

Note: *N* = 730

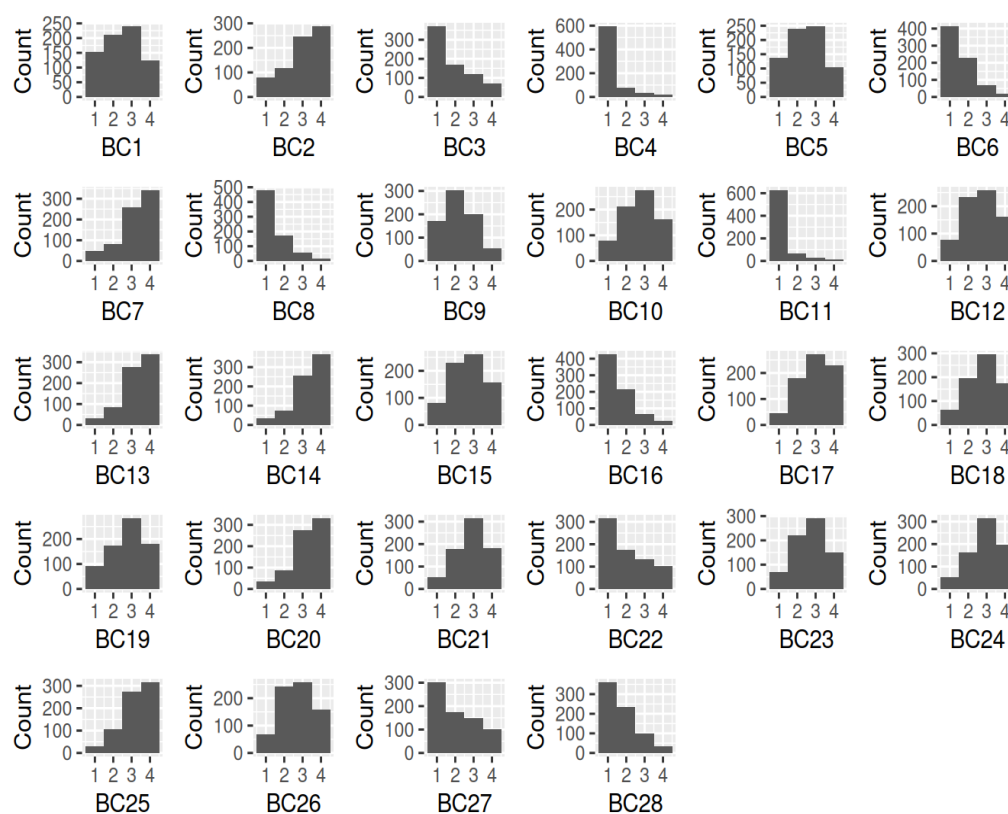


**Figure S3.** The distribution of responses to the IAT item.

**Table S4.** Descriptive statistics (*M*, *SD*, Skewness and Kurtosis,) as well as Shapiro-Wilk normality test for BC item.

| <i>Row</i> | <i>M</i> | <i>SD</i> | <i>Skewness</i> | <i>Kurtosis</i> | <i>SW.test</i> | <i>p.value</i> |
|------------|----------|-----------|-----------------|-----------------|----------------|----------------|
| BC1        | 2.46     | 1.01      | −0.01           | −1.09           | 0.88           | <0.001         |
| BC2        | 3.02     | 1.00      | −0.70           | −0.61           | 0.82           | <0.001         |
| BC3        | 1.84     | 1.01      | 0.86            | −0.55           | 0.77           | <0.001         |
| BC4        | 1.28     | 0.67      | 2.60            | 6.27            | 0.47           | <0.001         |
| BC5        | 2.44     | 0.95      | 0.02            | −0.95           | 0.88           | <0.001         |
| BC6        | 1.57     | 0.76      | 1.22            | 0.90            | 0.73           | <0.001         |
| BC7        | 3.22     | 0.90      | −1.01           | 0.21            | 0.78           | <0.001         |
| BC8        | 1.47     | 0.74      | 1.57            | 1.85            | 0.66           | <0.001         |
| BC9        | 2.19     | 0.88      | 0.29            | −0.67           | 0.87           | <0.001         |
| BC10       | 2.71     | 0.93      | −0.21           | −0.84           | 0.87           | <0.001         |
| BC11       | 1.21     | 0.58      | 3.08            | 9.48            | 0.41           | <0.001         |
| BC12       | 2.69     | 0.93      | −0.14           | −0.89           | 0.88           | <0.001         |
| BC13       | 3.26     | 0.83      | −0.97           | 0.33            | 0.78           | <0.001         |
| BC14       | 3.31     | 0.83      | −1.11           | 0.62            | 0.76           | <0.001         |
| BC15       | 2.67     | 0.94      | −0.14           | −0.89           | 0.88           | <0.001         |
| BC16       | 1.56     | 0.78      | 1.33            | 1.15            | 0.71           | <0.001         |
| BC17       | 2.94     | 0.90      | −0.40           | −0.75           | 0.85           | <0.001         |
| BC18       | 2.80     | 0.90      | −0.30           | −0.71           | 0.87           | <0.001         |
| BC19       | 2.75     | 0.97      | −0.34           | −0.85           | 0.87           | <0.001         |
| BC20       | 3.24     | 0.85      | −0.96           | 0.27            | 0.79           | <0.001         |
| BC21       | 2.86     | 0.88      | −0.38           | −0.57           | 0.86           | <0.001         |
| BC22       | 2.03     | 1.09      | 0.60            | −1.02           | 0.81           | <0.001         |
| BC23       | 2.72     | 0.89      | −0.19           | −0.74           | 0.87           | <0.001         |
| BC24       | 2.91     | 0.88      | −0.44           | −0.52           | 0.86           | <0.001         |
| BC25       | 3.21     | 0.84      | −0.82           | −0.06           | 0.8            | <0.001         |
| BC26       | 2.69     | 0.91      | −0.10           | −0.87           | 0.87           | <0.001         |
| BC27       | 2.07     | 1.09      | 0.52            | −1.09           | 0.82           | <0.001         |
| BC28       | 1.73     | 0.86      | 0.96            | 0.06            | 0.78           | <0.001         |

Note: *N* = 730



**Figure S4.** The distribution of responses to the BC item.

## Residual Covariances for Manifest variables

Table S5 shows the item residual covariance matrix for the 15 items of the Italian version of the GSP questionnaire.

**Table S5.** Residual covariance matrix.

|       | <i>GSP1</i> | <i>GSP2</i> | <i>GSP3</i> | <i>GSP4</i> | <i>GSP5</i> | <i>GSP6</i> | <i>GSP7</i> | <i>GSP8</i> | <i>GSP9</i> | <i>GSP10</i> | <i>GSP11</i> | <i>GSP12</i> | <i>GSP13</i> | <i>GSP14</i> | <i>GSP15</i> |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| GSP1  | 0.00        |             |             |             |             |             |             |             |             |              |              |              |              |              |              |
| GSP2  | 0.05        | −0.00       |             |             |             |             |             |             |             |              |              |              |              |              |              |
| GSP3  | 0.03        | −0.04       | 0.00        |             |             |             |             |             |             |              |              |              |              |              |              |
| GSP4  | −0.02       | −0.06       | −0.02       | 0.00        |             |             |             |             |             |              |              |              |              |              |              |
| GSP5  | −0.05       | 0.04        | −0.08       | −0.00       | 0.00        |             |             |             |             |              |              |              |              |              |              |
| GSP6  | −0.11       | 0.16        | 0.03        | −0.08       | 0.08        | 0.00        |             |             |             |              |              |              |              |              |              |
| GSP7  | −0.00       | 0.03        | 0.02        | 0.04        | −0.03       | −0.05       | −0.00       |             |             |              |              |              |              |              |              |
| GSP8  | −0.04       | 0.08        | −0.08       | 0.02        | −0.06       | −0.04       | 0.10        | −0.00       |             |              |              |              |              |              |              |
| GSP9  | −0.02       | −0.04       | 0.03        | 0.12        | −0.02       | −0.09       | 0.12        | 0.22        | −0.00       |              |              |              |              |              |              |
| GSP10 | −0.05       | −0.13       | −0.06       | 0.08        | −0.06       | −0.04       | 0.10        | 0.02        | 0.06        | −0.00        |              |              |              |              |              |
| GSP11 | −0.07       | −0.10       | −0.03       | 0.07        | −0.00       | −0.08       | 0.10        | 0.05        | −0.05       | 0.03         | −0.00        |              |              |              |              |
| GSP12 | −0.03       | −0.11       | −0.02       | 0.13        | 0.08        | 0.06        | 0.14        | 0.13        | −0.04       | −0.08        | 0.07         | −0.00        |              |              |              |
| GSP13 | 0.13        | 0.09        | 0.15        | 0.12        | −0.09       | −0.02       | −0.11       | −0.06       | −0.06       | −0.11        | −0.08        | 0.09         | −0.00        |              |              |
| GSP14 | −0.12       | −0.12       | −0.07       | −0.02       | 0.15        | 0.12        | 0.12        | 0.21        | 0.13        | 0.04         | 0.03         | 0.17         | −0.06        | 0.00         |              |
| GSP15 | −0.04       | −0.08       | −0.07       | 0.10        | −0.07       | −0.01       | −0.03       | 0.03        | 0.00        | −0.11        | −0.06        | 0.21         | 0.06         | −0.07        | −0.00        |

Table S6 shows the residual covariances among the GSBP items

**Table S6.** Residual covariance matrix for GSBP.

| Row    | GSBP1 | GSBP2 | GSBP3 | GSBP4 | GSBP5 | GSBP6 | GSBP7 | GSBP8 | GSBP9 | GSBP10 | GSBP11 | GSBP12 | GSBP13 | GSBP14 | GSBP15 | GSBP16 | GSBP17 | GSBP18 | GSBP19 | GSBP20 | GSBP21 | GSBP22 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| GSBP1  | −0.00 |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |
| GSBP2  | 0.12  | 0.12  |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |
| GSBP3  | 0.51  | 0.24  | 0.00  |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |
| GSBP4  | 0.34  | 0.49  | 0.47  | 0.00  |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |
| GSBP5  | 0.02  | −0.08 | −0.17 | −0.05 | 0.00  |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |
| GSBP6  | −0.08 | −0.08 | −0.11 | −0.11 | 0.15  | 0.00  |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |
| GSBP7  | −0.11 | −0.09 | 0.01  | −0.10 | −0.02 | 0.03  | 0.00  |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |
| GSBP8  | −0.02 | −0.12 | −0.13 | −0.10 | 0.07  | 0.03  | −0.03 | 0.00  |       |        |        |        |        |        |        |        |        |        |        |        |        |        |
| GSBP9  | −0.11 | 0.04  | 0.13  | 0.16  | −0.22 | −0.12 | 0.13  | 0.07  | 0.00  |        |        |        |        |        |        |        |        |        |        |        |        |        |
| GSBP10 | 0.05  | 0.06  | 0.09  | 0.22  | 0.27  | 0.33  | 0.24  | 0.26  | 0.24  | −0.00  |        |        |        |        |        |        |        |        |        |        |        |        |
| GSBP11 | −0.19 | −0.01 | −0.02 | 0.18  | 0.09  | 0.13  | 0.08  | 0.09  | 0.15  | 0.18   | −0.00  |        |        |        |        |        |        |        |        |        |        |        |
| GSBP12 | −0.30 | −0.11 | −0.08 | 0.09  | 0.01  | 0.02  | −0.07 | 0.03  | 0.01  | 0.00   | 0.00   | −0.00  |        |        |        |        |        |        |        |        |        |        |
| GSBP13 | −0.32 | −0.08 | −0.18 | −0.01 | −0.04 | −0.01 | −0.06 | −0.11 | 0.03  | −0.10  | −0.04  | 0.10   | −0.00  |        |        |        |        |        |        |        |        |        |
| GSBP14 | −0.15 | −0.03 | −0.16 | 0.04  | −0.06 | −0.03 | −0.14 | −0.15 | −0.10 | 0.02   | 0.00   | −0.01  | 0.04   | −0.00  |        |        |        |        |        |        |        |        |
| GSBP15 | −0.12 | −0.02 | −0.15 | 0.01  | −0.11 | −0.12 | −0.18 | −0.17 | 0.00  | −0.18  | −0.07  | 0.05   | 0.01   | −0.04  | −0.00  |        |        |        |        |        |        |        |
| GSBP16 | −0.12 | −0.07 | −0.10 | 0.04  | −0.11 | −0.10 | −0.12 | −0.18 | 0.01  | −0.14  | −0.09  | −0.05  | 0.06   | −0.04  | 0.29   | −0.00  |        |        |        |        |        |        |
| GSBP17 | 0.04  | −0.03 | −0.03 | 0.10  | 0.11  | 0.15  | 0.05  | 0.06  | 0.03  | 0.03   | 0.00   | −0.11  | −0.08  | 0.05   | −0.01  | 0.07   | −0.00  |        |        |        |        |        |
| GSBP18 | −0.11 | −0.11 | −0.06 | 0.04  | 0.16  | 0.12  | 0.04  | 0.12  | 0.01  | 0.21   | 0.02   | −0.02  | −0.14  | −0.02  | −0.15  | −0.18  | 0.02   | −0.00  |        |        |        |        |
| GSBP19 | −0.14 | −0.19 | −0.15 | −0.05 | 0.00  | −0.00 | −0.14 | −0.10 | −0.10 | 0.04   | −0.05  | −0.16  | −0.15  | −0.08  | −0.13  | −0.12  | 0.02   | 0.26   | −0.00  |        |        |        |
| GSBP20 | −0.01 | 0.06  | −0.05 | −0.01 | 0.02  | 0.04  | −0.05 | 0.09  | 0.03  | 0.10   | −0.04  | −0.16  | −0.16  | −0.08  | −0.16  | −0.11  | 0.01   | 0.00   | 0.06   | −0.00  |        |        |
| GSBP21 | −0.15 | −0.09 | −0.15 | −0.05 | −0.01 | 0.03  | −0.04 | 0.01  | 0.05  | 0.22   | 0.12   | −0.04  | 0.06   | 0.14   | −0.06  | −0.03  | 0.10   | −0.09  | −0.06  | −0.01  | −0.00  | 5      |
| GSBP22 | −0.08 | −0.07 | −0.14 | −0.00 | 0.06  | 0.04  | −0.02 | 0.07  | 0.15  | 0.24   | 0.18   | 0.15   | 0.18   | 0.15   | 0.19   | 0.11   | 0.24   | −0.22  | −0.13  | −0.00  | 0.15   | −0.00  |

