

## Supplementary Materials

**Supplementary Table 1.** Interaction Between Recovery Status and Diagnostic Group for Each Personality Characteristic: Results from a 2 x 4 Analysis of Variance

|                                 | Type III<br>Sum of<br>Squares                                 | df  | Mean<br>square | <i>F</i> | <i>p</i> -value | Partial Eta<br>Squared |
|---------------------------------|---------------------------------------------------------------|-----|----------------|----------|-----------------|------------------------|
| <b><i>Neuroticism</i></b>       | <b><i>(R<sup>2</sup> = .11; Adj. R<sup>2</sup> = .07)</i></b> |     |                |          |                 |                        |
| Corrected Model                 | 1047.56                                                       | 7   | 149.65         | 3.14     | .004            | .105                   |
| Intercept                       | 62631.16                                                      | 1   | 62631.16       | 1315.81  | <.001           | .876                   |
| Recovery Status                 | 208.11                                                        | 1   | 208.11         | 4.37     | .038            | .023                   |
| Diagnostic Group                | 589.36                                                        | 3   | 196.45         | 4.13     | .007            | .062                   |
| Recovery*Diagnostic             | 202.09                                                        | 3   | 67.36          | 1.42     | .240            | .022                   |
| Error                           | 8900.98                                                       | 187 | 47.60          |          |                 |                        |
| Total                           | 108375.00                                                     | 195 |                |          |                 |                        |
| Corrected Total                 | 9948.53                                                       | 194 |                |          |                 |                        |
| <b><i>Extraversion</i></b>      | <b><i>(R<sup>2</sup> = .09; Adj. R<sup>2</sup> = .05)</i></b> |     |                |          |                 |                        |
| Corrected Model                 | 693.63                                                        | 7   | 99.09          | 2.47     | .019            | .087                   |
| Intercept                       | 71126.12                                                      | 1   | 71126.12       | 1774.67  | <.001           | .907                   |
| Recovery Status                 | 161.91                                                        | 1   | 161.91         | 4.04     | .046            | .022                   |
| Diagnostic Group                | 159.29                                                        | 3   | 53.10          | 1.32     | .268            | .021                   |
| Recovery*Diagnostic             | 73.66                                                         | 3   | 24.55          | .61      | .608            | .010                   |
| Error                           | 7294.29                                                       | 182 | 40.08          |          |                 |                        |
| Total                           | 126938.00                                                     | 190 |                |          |                 |                        |
| Corrected Total                 | 7987.92                                                       | 189 |                |          |                 |                        |
| <b><i>Agreeableness</i></b>     | <b><i>(R<sup>2</sup> = .13; Adj. R<sup>2</sup> = .09)</i></b> |     |                |          |                 |                        |
| Corrected Model                 | 803.84                                                        | 7   | 114.83         | 3.86     | <.001           | .126                   |
| Intercept                       | 155301.85                                                     | 1   | 155301.85      | 5216.40  | <.001           | .965                   |
| Recovery Status                 | 119.43                                                        | 1   | 119.43         | 4.01     | .047            | .021                   |
| Diagnostic Group                | 526.85                                                        | 3   | 175.62         | 5.90     | <.001           | .086                   |
| Recovery*Diagnostic             | 161.41                                                        | 3   | 53.80          | 1.81     | .147            | .028                   |
| Error                           | 5567.34                                                       | 187 | 29.77          |          |                 |                        |
| Total                           | 264884.00                                                     | 195 |                |          |                 |                        |
| Corrected Total                 | 6371.18                                                       | 194 |                |          |                 |                        |
| <b><i>Conscientiousness</i></b> | <b><i>(R<sup>2</sup> = .12; Adj. R<sup>2</sup> = .09)</i></b> |     |                |          |                 |                        |
| Corrected Model                 | 993.48                                                        | 7   | 141.93         | 3.60     | .001            | .123                   |
| Intercept                       | 131025.21                                                     | 1   | 131025.21      | 3324.68  | <.001           | .949                   |
| Recovery Status                 | 302.94                                                        | 1   | 302.94         | 7.69     | .006            | .041                   |
| Diagnostic Group                | 577.94                                                        | 3   | 192.65         | 4.89     | .003            | .076                   |
| Recovery*Diagnostic             | 147.06                                                        | 3   | 49.02          | 1.24     | .295            | .020                   |
| Error                           | 7054.38                                                       | 179 | 39.41          |          |                 |                        |
| Total                           | 222117.00                                                     | 187 |                |          |                 |                        |
| Corrected Total                 | 8047.86                                                       | 186 |                |          |                 |                        |
| <b><i>Mistrust</i></b>          | <b><i>(R<sup>2</sup> = .31; Adj. R<sup>2</sup> = .28)</i></b> |     |                |          |                 |                        |
| Corrected Model                 | 1507.77                                                       | 7   | 215.40         | 11.22    | <.001           | .305                   |
| Intercept                       | 5500.42                                                       | 1   | 5500.42        | 286.41   | <.001           | .615                   |

|                                     |                                                               |     |         |        |       |      |
|-------------------------------------|---------------------------------------------------------------|-----|---------|--------|-------|------|
| Recovery Status                     | 589.50                                                        | 1   | 589.50  | 30.70  | <.001 | .146 |
| Diagnostic Group                    | 577.46                                                        | 3   | 192.49  | 10.02  | <.001 | .144 |
| Recovery*Diagnostic                 | 149.29                                                        | 3   | 49.76   | 2.59   | .054  | .042 |
| Error                               | 3437.61                                                       | 179 | 19.20   |        |       |      |
| Total                               | 12281.73                                                      | 187 |         |        |       |      |
| Corrected Total                     | 4945.37                                                       | 186 |         |        |       |      |
| <b><i>Detachment</i></b>            | <b><i>(R<sup>2</sup> = .27; Adj. R<sup>2</sup> = .24)</i></b> |     |         |        |       |      |
| Corrected Model                     | 952.78                                                        | 7   | 136.11  | 9.77   | <.001 | .272 |
| Intercept                           | 5994.66                                                       | 1   | 5994.66 | 430.43 | <.001 | .702 |
| Recovery Status                     | 493.00                                                        | 1   | 493.00  | 35.40  | <.001 | .162 |
| Diagnostic Group                    | 186.74                                                        | 3   | 62.25   | 4.47   | .005  | .068 |
| Recovery*Diagnostic                 | 19.87                                                         | 3   | 6.62    | .48    | .700  | .008 |
| Error                               | 2548.69                                                       | 183 | 13.93   |        |       |      |
| Total                               | 11705.78                                                      | 191 |         |        |       |      |
| Corrected Total                     | 3501.46                                                       | 190 |         |        |       |      |
| <b><i>Eccentric Perceptions</i></b> | <b><i>(R<sup>2</sup> = .18; Adj. R<sup>2</sup> = .15)</i></b> |     |         |        |       |      |
| Corrected Model                     | 406.16                                                        | 7   | 58.02   | 5.82   | <.001 | .183 |
| Intercept                           | 1132.12                                                       | 1   | 1132.12 | 113.56 | <.001 | .384 |
| Recovery Status                     | 190.16                                                        | 1   | 190.16  | 19.07  | <.001 | .095 |
| Diagnostic Group                    | 97.51                                                         | 3   | 32.50   | 3.26   | .023  | .051 |
| Recovery*Diagnostic                 | 113.72                                                        | 3   | 37.91   | 3.80   | .011  | .059 |
| Error                               | 1814.51                                                       | 182 | 9.97    |        |       |      |
| Total                               | 3848.22                                                       | 190 |         |        |       |      |
| Corrected Total                     | 2220.67                                                       | 189 |         |        |       |      |

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**Supplementary Table 2.** Linear Regression Residuals: Means and Standard Deviations

|                   | Schizophrenia | BP with<br>psychotic<br>features | MDD with<br>psychotic<br>features | Substance-<br>induced<br>psychosis | Never-<br>psychotic | Recovered<br>psychotic<br>group | Non-recovered<br>psychotic<br>group |
|-------------------|---------------|----------------------------------|-----------------------------------|------------------------------------|---------------------|---------------------------------|-------------------------------------|
|                   | Mean (SD)     |                                  |                                   |                                    |                     |                                 |                                     |
| Neuroticism       | .47 (6.06)    | .90 (7.62)                       | 5.51 (7.07)                       | 3.03 (6.61)                        | -1.70 (6.58)        | 1.60 (6.97)                     | 1.93 (7.34)                         |
| Extraversion      | -1.31 (5.54)  | .04 (6.54)                       | -2.46 (7.34)                      | -2.98 (6.61)                       | 1.05 (6.28)         | -.06 (6.36)                     | -1.70 (6.38)                        |
| Agreeableness     | -1.06 (5.65)  | .93 (4.55)                       | -2.09 (6.16)                      | -3.06 (6.19)                       | .68 (5.09)          | -.63 (5.61)                     | -1.11 (5.62)                        |
| Conscientiousness | -1.51 (6.78)  | .00 (6.48)                       | -3.53 (6.38)                      | -4.03 (6.21)                       | 1.44 (5.56)         | -.75 (6.23)                     | -2.11 (6.78)                        |
| Mistrust          | 1.28 (4.64)   | -.28 (4.20)                      | 2.59 (4.37)                       | 3.81 (5.32)                        | -1.11 (3.41)        | .08 (4.12)                      | 2.37 (4.89)                         |
| Eccentric         |               |                                  |                                   |                                    |                     |                                 |                                     |
| Perceptions       | .54 (3.49)    | -.13 (2.34)                      | .84 (3.57)                        | 2.18 (4.20)                        | -.47 (1.68)         | -.14 (2.57)                     | 1.03 (3.80)                         |
| Detachment        | .89 (3.83)    | -.06 (3.90)                      | 2.10 (4.75)                       | 2.82 (3.47)                        | -.88 (3.61)         | -.31 (3.77)                     | 2.24 (4.00)                         |

Note: MDD = Major Depressive Disorder, BP = Bipolar Disorder

**Supplementary Table 3.** Psychotic vs. Never-psychotic group comparisons: Linear Regression Residuals

|     | Schizophrenia    |          |                      | BP with<br>psychotic features |          |                     | MDD with<br>psychotic features |          |                       | Substance-induced psychosis |          |                       | Recovered psychotic<br>disorders |          |                      |
|-----|------------------|----------|----------------------|-------------------------------|----------|---------------------|--------------------------------|----------|-----------------------|-----------------------------|----------|-----------------------|----------------------------------|----------|----------------------|
|     | <i>t</i> (df)    | <i>p</i> | <i>d</i>             | <i>t</i> (df)                 | <i>p</i> | <i>d</i>            | <i>t</i> (df)                  | <i>p</i> | <i>d</i>              | <i>t</i> (df)               | <i>p</i> | <i>d</i>              | <i>t</i> (df)                    | <i>p</i> | <i>d</i>             |
| N   | 2.75<br>(338)    | .006     | .34<br>(.10, .58)    | 2.89<br>(321)                 | .004     | .38<br>(.12, .64)   | 6.87<br>(294)                  | <.001    | 1.08<br>(.76, 1.40)   | 2.85<br>(18.2)              | .011     | .72<br>(.22, 1.21)    | 4.08<br>(341)                    | <.001    | 0.49<br>(.25, .73)   |
| E   | -3.12<br>(337)   | .002     | -.39<br>(-.63, -.14) | -1.21<br>(324)                | .226     | -.16<br>(-.42, .10) | -3.40<br>(296)                 | <.001    | -.55<br>(-.86, -.23)  | -2.56<br>(267)              | .011     | -.64<br>(-1.13, -.15) | -1.47<br>(344)                   | .143     | -.18<br>(-.42, .06)  |
| A   | -2.69<br>(341)   | .007     | -.33<br>(-.57, -.09) | 0.39<br>(327)                 | .697     | .05<br>(-.21, .31)  | -2.93<br>(59.8)                | .005     | -.52<br>(-.84, -.21)  | -2.89<br>(268)              | .004     | -.72<br>(-1.22, -.23) | -2.08<br>(348)                   | .038     | -.25<br>(-.48, -.01) |
| C   | -3.65<br>(128.5) | <.001    | -.50<br>(-.75, -.25) | -1.86<br>(319)                | .064     | -.25<br>(-.51, .01) | -5.45<br>(294)                 | <.001    | -.87<br>(-1.20, -.55) | -3.54<br>(17.8)             | .002     | -.98<br>(-1.48, -.48) | -3.14<br>(341)                   | .002     | -.38<br>(-.62, -.14) |
| MS  | 4.38<br>(119.1)  | <.001    | .64<br>(.38, .89)    | 1.54<br>(100.4)               | .126     | .23<br>(-.03, .50)  | 5.55<br>(58.9)                 | <.001    | 1.03<br>(.71, 1.35)   | 3.66<br>(15.8)              | .002     | 1.39<br>(.87, 1.91)   | 2.51<br>(149.2)                  | .013     | .33<br>(.09, .57)    |
| EP  | 2.61<br>(101.7)  | .010     | .44<br>(.20, .69)    | 1.19<br>(99.9)                | .238     | .19<br>(-.07, .44)  | 2.45<br>(48.8)                 | 0.018    | .63<br>(.31, .95)     | 2.59<br>(16.4)              | .019     | 1.37<br>(.87, 1.88)   | 1.18<br>(127.8)                  | .239     | .17<br>(-.07, .41)   |
| DET | 3.88<br>(330)    | <.001    | .48<br>(.24, .73)    | 1.70<br>(316)                 | .091     | .23<br>(-.04, .49)  | 4.13<br>(58.1)                 | <.001    | .78<br>(.47, 1.10)    | 4.25<br>(18.5)              | <.001    | 1.03<br>(.53, 1.53)   | 1.29<br>(338)                    | .196     | .16<br>(-.08, .39)   |

Note: N = Neuroticism, E = Extraversion, A = Agreeableness, C = Conscientiousness, MS = Mistrust, EP = Eccentric Perceptions, DET = Detachment; BP = Bipolar Disorder, MDD = Major Depressive Disorder; *p* = *p*-value; *d* = Cohen's *d* (95% confidence intervals)

**Supplementary Table 3 Continued.** Psychotic vs. Never-psychotic group comparisons: Linear Regression Residuals

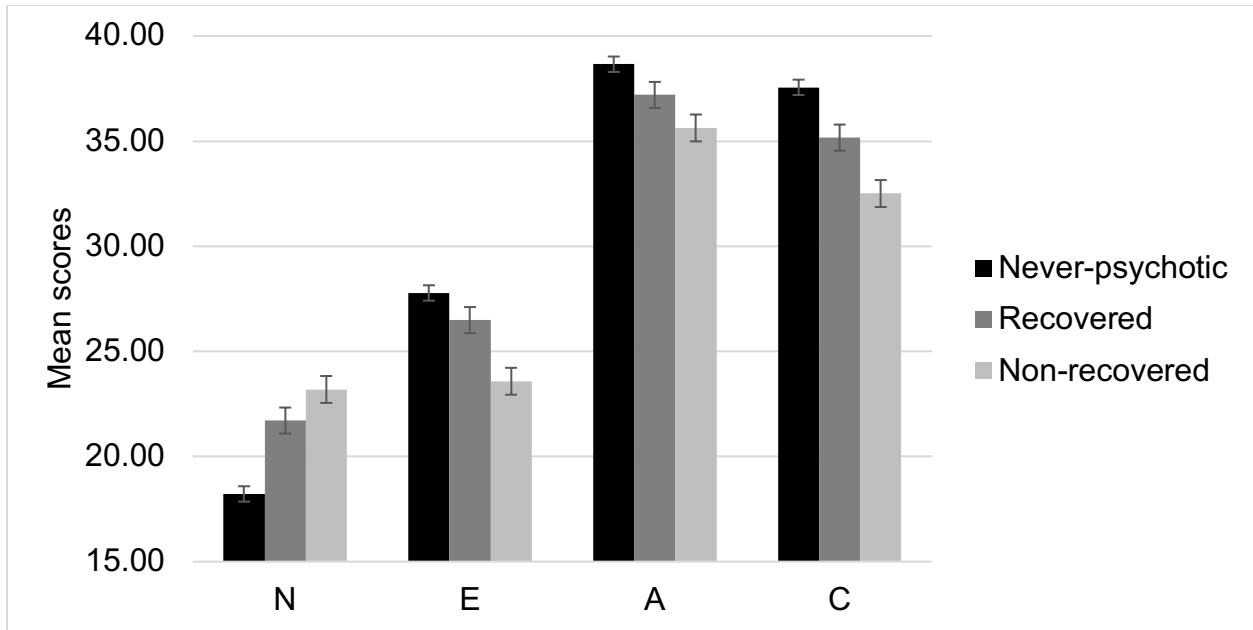
|     | Non-recovered psychotic disorders |          |                      |
|-----|-----------------------------------|----------|----------------------|
|     | <i>t</i> (df)                     | <i>p</i> | <i>d</i>             |
| N   | 4.50<br>(346)                     | <.001    | .53<br>(.30, .77)    |
| E   | -3.64<br>(346)                    | <.001    | -.44<br>(-.67, -.20) |
| A   | -2.86<br>(349)                    | .004     | -.34<br>(-.58, -.11) |
| C   | -4.96<br>(342)                    | <.001    | -.60<br>(-.84, -.36) |
| MS  | 6.24<br>(124.3)                   | <.001    | .90<br>(.65, 1.15)   |
| EP  | 3.72<br>(107.1)                   | <.001    | .62<br>(.37, .86)    |
| DET | 6.95<br>(337)                     | <.001    | .84<br>(.60, 1.09)   |

Note: N = Neuroticism, E = Extraversion, A = Agreeableness, C = Conscientiousness, MS = Mistrust, EP = Eccentric Perceptions, DET = Detachment; BP = Bipolar Disorder, MDD = Major Depressive Disorder; *p* = *p*-value; *d* = Cohen's *d* (95% confidence intervals)

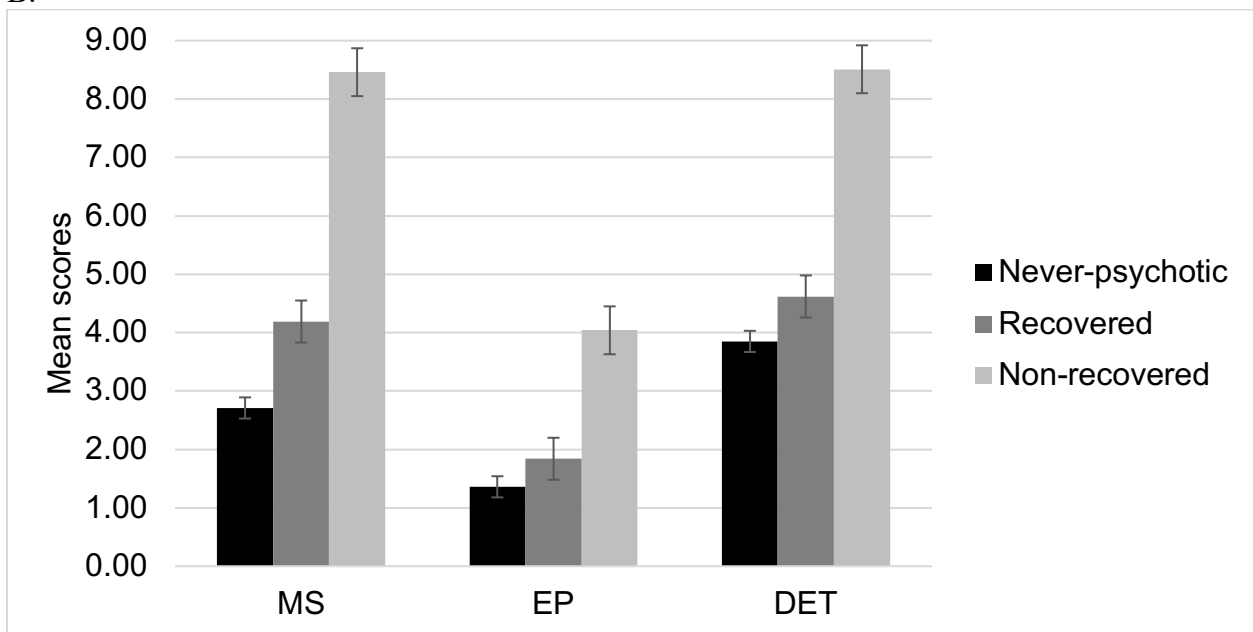
### Supplementary Figure 1.

Mean scores on personality traits for never-psychotic, recovered psychotic disorder, and non-recovered psychotic disorder groups

A.



B.



N = Neuroticism, E = Extraversion, A = Agreeableness, C = Conscientiousness, MS = Mistrust, EP = Eccentric Perceptions, DET = Detachment