**Supplementary Material**

**Table S1. Demographic, Cognitive, PCL-R, and Substance Use data for N = 72 sample**
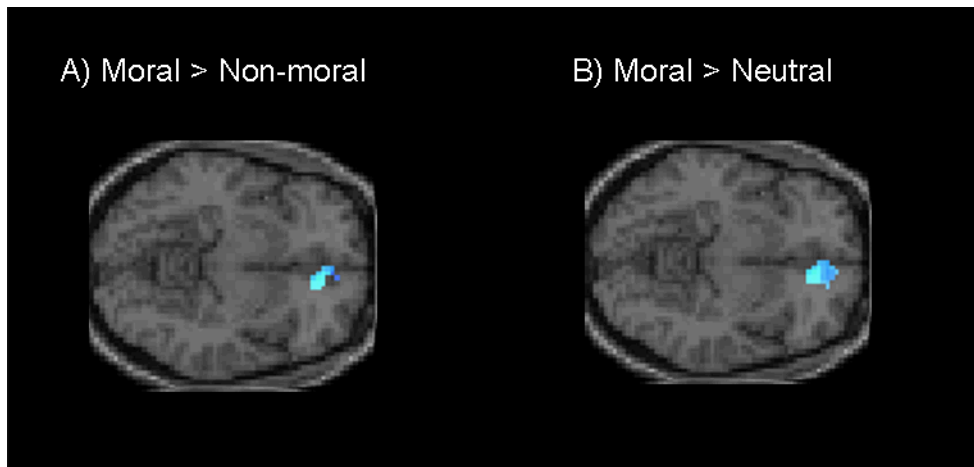
| Demographic | Mean (SD)* |
|---|---|
| Age | 32.4 (9.53) |
| Ethnicity | |
| *Caucasian* | N = 29 |
| *Non-Caucasian* | N = 43 |
| Handedness Score‡ | 55.3 (47.7) |

| **Cognitive** | |
|---|---|
| IQ | 98.5 (14.29) |

| **Psychopathy** | |
|---|---|
| PCL-R Total | 19.3 (7.07) |
| Factor 1 | 6.2 (3.52) |
| Factor 2 | 11.4 (4.07) |

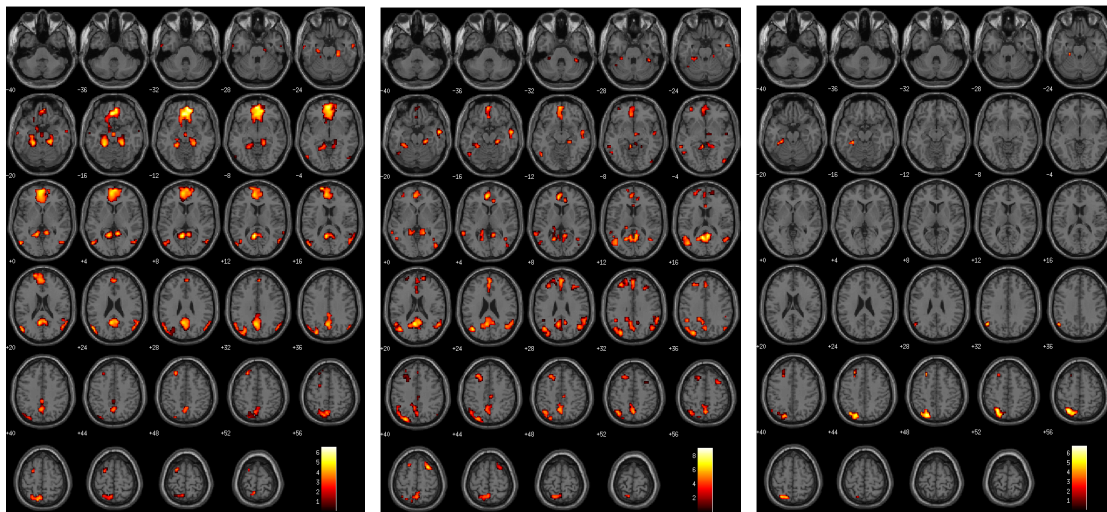| **Substance Use (Past)**§ | |
|---|---|
| *Total Years used* | |
| Alcohol | 10.4 (9.28) |
| Cannabis | 10.8 (9.08) |
| Cocaine | 3.5 (6.58) |
| Methamphetamine | 2.8 (4.43) |
| Heroin | 0.9 (3.23) |
| Hallucinogens | 1.3 (3.22) |

* Unless otherwise noted.
‡ Information was not available for one psychopathic participant.
§ Information was not available for two psychopathic participants.

**Figure S1.** Negative correlation between PCL-R scores and ventromedial prefrontal activity during A) Moral vs. Non-moral picture viewing ($x = 9$, $y = 39$, $z = -12$; $t = 3.44$, $p = .035$ FWE corrected) and B) Moral vs. Neutral picture viewing ($x = 12$, $y = 39$, $z = -9$; $t = 3.36$, $p = .044$ FWE corrected) in N = 72 participants. For these participants, correlations between PCL-R scores and demographic variables were as follows: Age: r = -0.06, IQ: r = 0.14, Handedness: r = 0.09; Alcohol use: r = -0.03, Heroin use: r = 0.06, Cocaine use: r = 0.17, Methamphetamine use: r = 0.18, Cannabis use: r = -0.05, Hallucinogen use: r = 0.15. None of these correlations were significant. Regarding race, 85% of our 72 participants were either Caucasian (48%) or Hispanic (52%). These two groups did not significantly differ in PCL-R score ($p = .82$). Because none of these variables were significantly associated with PCL-R scores, we did not include any of them as covariates.

**Figure S2.** fMRI results of moral vs. non-moral picture viewing from non-antisocial/non-incarcerated participants (N = 28, Harenski et al., 2008), and the current sample of nonpsychopaths (N = 16) and psychopaths (N = 16), illustrating the similarity in activation patterns between non-incarcerated participants and nonpsychopaths.

**Non-incarcerated**      **Nonpsychopaths**      **Psychopaths**

**Optional Supplementary Material** (can be included at discretion of editor)

**Table S2. Negative correlations between Factor/Facet scores and brain activity in regions of interest**

| Contrast | Factor/Facet | | MPFC | Amyg (R) | Amyg (L) | ATC (R) | ATC (L) | PTC (R) | PTC (L) |
|---|---|---|---|---|---|---|---|---|---|
| *Moral > Non-moral* | Factor 1 (Interpersonal/Affective) | *t* | --- | 2.29 | 2.17 | 1.7 | --- | --- | 2.27 |
| | | *p* | --- | 0.32 | 0.36 | 0.56 | --- | --- | 0.32 |
| | | *k* | --- | 42 | 12 | 1 | --- | --- | 5 |
| | | *x,y,z* | --- | 30,-6,-24 | -24,-9,-33 | 60,-6,-12 | --- | --- | -51,-63,24 |
| | Factor 2 (Impulsive/Antisocial) | | 3.83 | 2.14 | 2.1 | 2.96 | --- | 2.55 | --- |
| | | | 0.01*** | 0.38 | 0.39 | 0.1 | --- | 0.22 | --- |
| | | | 26 | 5 | 3 | 25 | --- | 33 | --- |
| | | | 9,36,-9 | 24,-9,-21 | -27,-6,-24 | 57,-9,-18 | --- | 45,-66,33 | --- |
| | Facet 1 (Interpersonal) | | --- | --- | --- | --- | --- | --- | --- |
| | | | --- | --- | --- | --- | --- | --- | --- |
| | | | --- | --- | --- | --- | --- | --- | --- |
| | | | --- | --- | --- | --- | --- | --- | --- |
| | Facet 2 (Affective) | | --- | --- | 2.85 | 2.84 | --- | --- | --- |
| | | | --- | --- | 0.13 | 0.13 | --- | --- | --- |
| | | | --- | --- | 13 | 11 | --- | --- | --- |
| | | | --- | --- | -18,-12,-30 | 57,3, -21 | --- | --- | --- |
| | Facet 3 (Impulsive) | | 1.69 | 2.62 | --- | --- | --- | --- | --- |
| | | | 0.56 | 0.2 | --- | --- | --- | --- | --- |
| | | | 1 | 11 | --- | --- | --- | --- | --- |
| | | | 12,51,-6 | 36,0,-27 | --- | --- | --- | --- | --- |
| | Facet 4 (Antisocial) | | --- | 2.13 | --- | --- | --- | --- | --- |
| | | | --- | 0.38 | --- | --- | --- | --- | --- |
| | | | --- | 3 | --- | --- | --- | --- | --- |
| | | | --- | 39,-6,-27 | --- | --- | --- | --- | --- |
| *Moral > Neutral* | Factor 1 (Interpersonal/Affective) | | --- | 3.31 | 1.92 | --- | --- | --- | 2.01 |
| | | | --- | 0.05*** | 0.47 | --- | --- | --- | 0.42 |
| | | | --- | 63 | 4 | --- | --- | --- | 12 |
| | | | --- | 33,-6,-24 | -27,-3,-21 | --- | --- | --- | -48,-63,24 |
| | Factor 2 (Impulsive/Antisocial) | | 2.5 | --- | --- | 1.7 | --- | 2.05 | --- |
| | | | 0.23 | --- | --- | 0.54 | --- | 0.4 | --- |
| | | | 61 | --- | --- | 2 | --- | 8 | --- |
| | | | 15, 42, -9 | --- | --- | 57,-9,-21 | --- | 45,-66 36 | --- |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Facet 1 (Interpersonal) | --- | --- | --- | --- | --- | --- | --- |
| | | --- | --- | --- | --- | --- | --- | --- |
| | | --- | --- | --- | --- | --- | --- | --- |
| | | --- | --- | --- | --- | --- | --- | --- |
| | Facet 2 (Affective) | --- | --- | 2.53 | --- | --- | --- | --- |
| | | --- | --- | 0.22 | --- | --- | --- | --- |
| | | --- | --- | 5 | --- | --- | --- | --- |
| | | --- | --- | -21,6,-24 | --- | --- | --- | --- |
| | Facet 3 (Impulsive) | 2.34 | 2.37 | 1.74 | 2.34 | 1.8 | 2.78 | --- |
| | | 0.28 | 0.27 | 0.52 | 0.28 | 0.5 | 0.14 | --- |
| | | 20 | 15 | 1 | 10 | 2 | 16 | --- |
| | | 15,51,-6 | 36,-6,-21 | -30,0,-24 | 57,-9,-24 | -60,-9,-21 | -51,-63,30 | --- |
| | Facet 4 (Antisocial) | --- | --- | --- | --- | --- | --- | --- |
| | | --- | --- | --- | --- | --- | --- | --- |
| | | --- | --- | --- | --- | --- | --- | --- |
| | | --- | --- | --- | --- | --- | --- | --- |
| *Parametric modulation* | Factor 1 (Interpersonal/Affective) | --- | 2.43 | --- | --- | --- | 1.9 | --- |
| | | --- | 0.32 | --- | --- | --- | 0.56 | --- |
| | | --- | 10 | --- | --- | --- | 6 | --- |
| | | --- | 33,-15,-24 | --- | --- | --- | 51,-57,30 | --- |
| | Factor 2 (Impulsive/Antisocial) | 1.74 | 2.78 | --- | --- | --- | --- | --- |
| | | 0.62 | 0.19 | --- | --- | --- | --- | --- |
| | | 1 | 6 | --- | --- | --- | --- | --- |
| | | 15,42,-3 | 24,0,-27 | --- | --- | --- | --- | --- |
| | Facet 1 (Interpersonal) | --- | --- | --- | --- | --- | --- | --- |
| | | --- | --- | --- | --- | --- | --- | --- |
| | | --- | --- | --- | --- | --- | --- | --- |
| | | --- | --- | --- | --- | --- | --- | --- |
| | Facet 2 (Affective) | 2.99 | 3.79 | 3.25 | 3.9 | 2.61 | 1.93 | 2.31 |
| | | 0.12 | 0.02*** | 0.07 | 0.01 | 0.17 | 0.53 | 0.36 |
| | | 26 | 62 | 54 | 32 | 15 | 1 | 10 |
| | | 9,48,-3 | 33,-9,-30 | -30,0,-27 | 63,-9,-18 | -54,-18,-24 | 51,-72,27 | -51,-66,30 |
| | Facet 3 (Impulsive) | 2.27 | 2.81 | 2.46 | --- | 1.7 | 2.02 | --- |
| | | 0.38 | 0.17 | 0.29 | --- | 0.62 | 0.49 | --- |
| | | 5 | 50 | 10 | --- | 1 | 5 | --- |
| | | 9,42,-9 | 33,-15,-27 | -15,-9,-24 | --- | -60,-21,-21 | 48,-69,30 | --- |
| | Facet 4 (Antisocial) | 2.05 | --- | --- | --- | --- | --- | --- |
| | | 0.48 | --- | --- | --- | --- | --- | --- |
| | | 6 | --- | --- | --- | --- | --- | --- |

| | 15, 42, -3 | --- | --- | --- | --- | --- | --- |

MPFC = medial prefrontal cortex; Amyg = amygdala, ATC = anterior temporal cortex, PTC = posterior temporal cortex. t = t value, p = p value, k = cluster size (voxels). Dashes indicate no activity within ROI.