|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table 1.** Distribution of Contrast Annotations Across RDoC Social Constructs. | | | | |
|  | Affiliation | Soc. Comm. | Self | Others |
| **Total Contrasts (N)** | **106 (9.6%)** | **385 (34.7%)** | **208 (18.8%)** | **410 (36.9%)** |
| Mono-Annotated (n) | 31 (5.1%) | 247 (40.6%) | 91 (14.9%) | 240 (39.4%) |
| Dual-Annotated (n) | 75 (15%) | 138 (27.6%) | 117 (23.4%) | 170 (34%) |
| *Affiliation* | -- | 43 | 7 | 25 |
| *Soc. Comm.* | 43 | -- | 30 | 65 |
| *Self* | 7 | 30 | -- | 80 |
| *Others* | 25 | 65 | 80 | -- |
| *Note*. Total Contrasts (N) includes both *mono*- and *dual-annotated* contrasts. Number of contrasts  (N/n) and percentage (%) reported for each RDoC construct. | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Table 2:** Locations of Convergent Activation Patterns Across Social Constructs. | | | | | | |
| Domain | | Cluster | ALE value | *Volume* | X | Y Z Region BA | | | | |
| Affiliation and Attachment | | 1  2  3  4  5  6  7 | 5.353  6.100  5.686  5.863  4.404  4.809  4.981 | 5040  2680  2560  2040  1600  1568  1472 | -2  32  -32  2  -4  -46  54 | 58  24  18  26  60  -62  30 | -6  -8  -4  44  24  40  -2 | L Medial Frontal Gyrus  R Insula  L Claustrum  R Medial Frontal Gyrus  L Superior Frontal Gyrus  L Angular Gyrus  R Inferior Frontal Gyrus | BA 10  BA 13    BA 8  BA 9  BA 39  BA 45 |
| Social Communication | | 1  2  3  4  5  6  7  8  9  10  11 | 6.213  6.939  5.554  8.592  6.586  6.568  5.183  5.249  5.404  5.374  4.418 | 15488  6040  4872  4616  4056  3760  3688  2240  2208  1912  824 | 40  -48  52  -32  -54  34  4  -34  12  28  -54 | -50  -70  8  20  -48  24  24  -50  -26  -60  24 | -20  4  30  -2  12  2  46  44  -4  52  12 | R Anterior Culmen  L Inferior Temporal Gyrus  R Inferior Frontal Gyrus  L Claustrum  L Superior Temporal Gyrus  R Insula  R Superior Frontal Gyrus  L Inferior Parietal Lobe  R Thalamus  R Superior Parietal Lobe  L Inferior Frontal Gyrus | BA 37  BA 37  BA 9  BA 22  BA 13  BA 8  BA 40  BA 7  BA 45 |
| Perception and  Understanding of Self | | 1  2  3  4  5  6 | 6.539  5.339  5.223  6.510  5.154  5.259 | 8344  5408  2192  2088  1904  1656 | 0  -40  -44  10  -8  -6 | 54  -56  28  8  -50  16 | 14  28  -10  -4  32  60 | L Medial Frontal Gyrus BA 9  L Middle Temporal Gyrus BA 39  L Inferior Frontal Gyrus. BA 47  R Caudate  L Precuneus BA 31  L Superior Frontal Gyrus. BA 6 | |
| Perception and  Understanding of Others | | 1  2  3  4  5  6  7  8  9  10 | 8.903  6.591  7.255  8.393  5.651  7.309  5.803  6.786  6.189  6.020 | 14776  13320  11096  6896  6248  4896  3800  3712  3104  3080 | -48  48  4  2  -4  -46  34  56  -60  50 | -60  -72  56  -56  14  28  24  -2  -10  10 | 24  2  22  32  58  -10  2  -22  -14  28 | L Superior Temporal Gyrus BA 39  R Inferior Temporal Gyrus  R Medial Frontal Gyrus BA 9  L Cingulate Gyrus BA 31  L Superior Frontal Gyrus BA 6  L Inferior Frontal Gyrus BA 47  R Insula BA 13  R Middle Temporal Gyrus BA 21  L Middle Temporal Gyrus BA 21  R Inferior Frontal Gyrus BA 9 | |
| *Note.* RDoC Social Processes Construct ALE meta-analyses coordinates. Affiliation and Attachment (Row 1; 106 contrasts), Social Communication (Row 2; 385 contrasts), Perception and Understanding of Self (Row 3; 208 contrasts), and Perception and Understanding of Others (Row 4; 410 contrasts). BA = Brodmann Area; Laterality: L = Left; R = Right. | | | | | | | | | |

**Table 3:** Automated Functional Decoding Results from Neurosynth.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **All** | | **Affiliation and Attachment** | | **Social**  **Communication** | | **Self** | | **Others** | |
| *NS term* | *weight* | *NS term* | *weight* | *NS term* | *weight* | *NS term* | *weight* | *NS term* | *weight* |
| visual | 3083.001 | visual | 1117.927 | visual | 2455.356 | visual | 1565.387 | visual | 2195.748 |
| emotional | 1417.743 | emotional | 629.195 | emotional | 1064.058 | motor | 987.951 | motor | 1107.52 |
| motor | 1162.946 | motor | 580.47 | motor | 1048.19 | emotional | 702.573 | emotional | 1043.132 |
| attention | 937.941 | attention | 467.567 | face | 758.445 | attention | 541.923 | attention | 712.042 |
| face | 901.648 | memory | 444.627 | spatial | 727.274 | spatial | 471.208 | face | 640.547 |
| motion | 852.175 | spatial | 369.758 | faces | 692.102 | memory | 435.141 | memory | 627.878 |
| memory | 846.922 | novel | 350.416 | attention | 681.264 | auditory | 433.084 | motion | 622.540 |
| spatial | 845.109 | face | 325.618 | motion | 676.036 | reward | 423.674 | words | 611.198 |
| words | 816.023 | self | 315.163 | memory | 653.818 | novel | 397.029 | spatial | 597.195 |
| faces | 808.937 | faces | 308.311 | words | 651.553 | perception | 380.62 | faces | 566.831 |

*Note.* The top ten Neurosynth (NS) terms are provided for each RDoC construct, along with the corresponding weighted value.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Table 4:** Contrast Analysis Results Comparison Across RDoC Constructs. | | | | | | | |
| Domain | | Cluster | ALE value | *Volume* | X | Y Z Region BA | | | | |
| Affiliation and Attachment | | 1  2 | 2.989  2.437 | 96  72 | -44  -40 | -56  18 | 28  0 | L Middle Temporal Gyrus  L Insula | | BA 39  BA 13 |
| Social Communication | | 1  2 | 2.054  1.917 | 56  48 | 40  -44 | -42  -66 | 44  -6 | R Inferior Parietal Lobe  L Fusiform Gyrus | | BA 4**0**  BA 37 |
| Perception and  Understanding of Self | | 1  2 | 2.706  2.878 | 1112  656 | -6  -44 | 48  -56 | -8  24 | L Anterior Cingulate Cortex. BA 32  L Superior Temporal Gyrus BA 39 | | |
| Perception and  Understanding of Others | | 1  2 | 2.911  3.541 | 1256  1120 | 62  -44 | -6  -46 | -22  56 | R Middle Temporal Gyrus BA 21  L Inferior Parietal Lobe BA 40 | | |
| *Note.* A = RDoC Social Processes Construct Contrast analyses coordinates. Affiliation and Attachment (Row 1; 31 contrasts), Social Communication (Row 2; 247 contrasts), Perception and Understanding of Self (Row 3; 91 contrasts), and Perception and Understanding of Others (Row 4; 240 contrasts). BA = Brodmann Area; Laterality: L = Left; R = Right. | | | | | | | | | | |