**Functional and microstructural plasticity following social and interoceptive mental training**

**-Supplementary File 1-**

Sofie L Valk1,2; Philipp Kanske3,4; Bo-yong Park5-7; Seok Jun Hong7-9; Anne Böckler10; Fynn-Mathis Trautwein11; Boris C. Bernhardt5\*, Tania Singer12\*

\* joint co-authors

*1. Otto Hahn Group Cognitive Neurogenetics, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany; 2. INM-7, FZ Jülich, Jülich, Germany; 3. Clinical Psychology and Behavioral Neuroscience, Faculty of Psychology, Technische Universität Dresden, Dresden, Germany; 4. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany; 5. Multimodal Imaging and Connectome Analysis Lab, McConnell Brain Imaging Centre, Montreal Neurological Institute and Hospital, McGill University, Montreal, Quebec, Canada; 6. Department of Data Science, Inha University, Incheon, South Korea; 7. Center for Neuroscience Imaging Research, Institute for Basic Science, Suwon, South Korea; 8. Center for the Developing Brain, Child Mind Institute, NY, USA; 9. Department of Biomedical Engineering, Sungkyunkwan University, Suwon, South Korea; 10. Department of Psychology, Wurzburg University, Germany; 11. Department of Psychosomatic Medicine and Psychotherapy, Medical Center – University of Freiburg, Faculty of Medicine, University of Freiburg, Freiburg im Breisgau, Germany; 12. Social Neuroscience Lab, Max Planck Society, Berlin, Germany*

**Supplementary File 1**

**Supplementary File 1a. Descriptive statistics *Presence***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Presence | Mean | Std | CI low | CI high |
| Attention | 0,002 | 0,013 | -0,001 | 0,004 |
| Interoception | 0,003 | 0,015 | 0,000 | 0,006 |
| Emotion | 0,001 | 0,012 | -0,002 | 0,003 |
| Empathy | 0,002 | 0,011 | 0,000 | 0,004 |
| ToM | 0,003 | 0,014 | 0,000 | 0,006 |

**Supplementary File 1b. Descriptive statistics *Affect***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Affect | Mean | Std | CI low | CI high |
| Attention | -0,001 | 0,012 | -0,003 | 0,001 |
| Interoception | 0,001 | 0,015 | -0,001 | 0,003 |
| Emotion | 0,001 | 0,013 | -0,001 | 0,003 |
| Empathy | 0,001 | 0,011 | -0,001 | 0,003 |
| ToM | 0,000 | 0,016 | -0,002 | 0,003 |

**Supplementary File 1c. Descriptive statistics *Affect*, excluding active controls (TC3)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Affect | Mean | Std | CI low | CI high |
| Attention | -0,001 | 0,013 | -0,003 | 0,002 |
| Interoception | 0,000 | 0,015 | -0,003 | 0,003 |
| Emotion | 0,000 | 0,013 | -0,002 | 0,003 |
| Empathy | 0,000 | 0,012 | -0,002 | 0,002 |
| ToM | -0,001 | 0,016 | -0,004 | 0,002 |

**Supplementary File 1d. Descriptive statistics *Perspective***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Perspective | Mean | Std | CI low | CI high |
| Attention | -0,003 | 0,013 | -0,006 | -0,001 |
| Interoception | -0,003 | 0,016 | -0,006 | 0,000 |
| Emotion | 0,000 | 0,015 | -0,003 | 0,003 |
| Empathy | -0,001 | 0,012 | -0,004 | 0,001 |
| ToM | -0,001 | 0,018 | -0,005 | 0,003 |

**Supplementary File 1e. Descriptive statistics Retest controls**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Retest controls | Mean | Std | CI low | CI high |
| Attention | -0,001 | 0,014 | -0,003 | 0,001 |
| Interoception | 0,001 | 0,014 | -0,001 | 0,003 |
| Emotion | 0,001 | 0,013 | -0,001 | 0,002 |
| Empathy | 0,001 | 0,011 | -0,001 | 0,002 |
| ToM | 0,001 | 0,016 | -0,002 | 0,003 |

**Supplementary File 1f. Functional eccentricity changes GSR controlled per *a-priori* network.** T-values and p-values below p<0.05, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | *Presence vs Perspective* | | *Presence vs Affect* | | *Perspective vs Affect* | |
| Attention | 3,541 | 0,001\* | 2,243 | 0,025 | -1,777 |  |
| Interoception | 3,203 | 0,002\* | 1,552 |  | -2060 | 0,040 |
| Emotion | 1,371 |  | 0,892 |  | -0,665 |  |
| Empathy | 2,898 | 0,004\* | 1,660 |  | -1,621 |  |
| ToM | 2,047 | 0,041 | 1,449 |  | -0,883 |  |

**Supplementary File 1g. Functional eccentricity changes in training cohort 1 per *a-priori* network.** T-values and p-values below p<0.05, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | *Presence vs Perspective* | | *Presence vs Affect* | | *Perspective vs Affect* | |
| Attention | 1,953 |  | 1,707 |  | -0,245 |  |
| Interoception | 2,332 | 0,021 | 0,889 |  | -1,392 |  |
| Emotion | 1,347 |  | 0,819 |  | -0,512 |  |
| Empathy | 1,984 | 0,049 | 0,950 |  | -0,100 |  |
| ToM | 1,908 |  | 1,825 |  | -0,089 |  |

**Supplementary File 1h. Functional eccentricity changes in training cohort 2 per *a-priori* network.** T-values and p-values below p<0.05, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | *Presence vs Perspective* | | *Presence vs Affect* | | *Perspective vs Affect* | |
| Attention | 2,028 | 0,044 | 0,010 |  | -1,966 |  |
| Interoception | 1,383 |  | 0,794 |  | -0,627 |  |
| Emotion | -1,016 |  | -0,623 |  | 0,421 |  |
| Empathy | 0,906 |  | 0,514 |  | -0,416 |  |
| ToM | 0,386 |  | 0,547 |  | 0,144 |  |

**Supplementary File 1i. Functional eccentricity changes per *a-priori* network baseline to T1.** T-values and p-values below p<0.05, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | TC1-RCC | | TC2-RCC | | TC3-RCC | | TC1-TC3 | | TC2-TC3 | |
| Attention | 2,529 | 0,012 | 1,523 |  | 1,144 |  | 1,424 |  | 0,440 |  |
| Interoception | -0,260 |  | -0,813 |  | -0,756 |  | 0,505 |  | -0,093 |  |
| Emotion | 0,411 |  | -1,059 |  | 0,492 |  | -0,077 |  | -1,553 |  |
| Empathy | 0,608 |  | 0,039 |  | 0,348 |  | 0,269 |  | -0,296 |  |
| ToM | 1,225 |  | 0,358 |  | 0,763 |  | 0,476 |  | -0,379 |  |

**Supplementary File 1j. Functional eccentricity changes per *a-priori* network T1 to T3.** T-values and p-values below p<0.05, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | *Perspective* vs Retest Control | | *Affect* vs Retest Control | | *Perspective-Affect* | |
| Attention | -1,981 | 0,048 | -0,431 |  | -1,528 |  |
| Interoception | -0,960 |  | 0,544 |  | -1,461 |  |
| Emotion | -0,143 |  | -0,045 |  | -0,097 |  |
| Empathy | -1,192 |  | -0,113 |  | -1,059 |  |
| ToM | -0,818 |  | -0,858 |  | 0,022 |  |

**Supplementary File 1k. G1-G3 change per *a-priori* network *Presence* vs *Perspective*.** T-values and p-values below p<0.05, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | G1 |  | G2 |  | G3 |  |
| Attention | -1,321 |  | 2,508 | 0.012 | 1,098 |  |
| Interoception | -1,787 |  | -2,180 | 0.030 | -1,499 |  |
| Emotion | -0,118 |  | 1,501 |  | 0,833 |  |
| Empathy | -0,573 |  | 1,713 |  | -0,206 |  |
| ToM | 1,048 |  | 2,102 | 0.036 | -0,947 |  |

**Supplementary File 1l. G1-G3 change per *a-priori* network *Presence* vs *Affect*.** T-values and p-values below p<0.05, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | G1 |  | G2 |  | G3 |  |
| Attention | -0.945 |  | 1.715 |  | 0,113 |  |
| Interoception | -2.185 | 0.03 | -0.901 |  | -1,339 |  |
| Emotion | -0.643 |  | 0.871 |  | -0,782 |  |
| Empathy | -0.976 |  | 3.215 | 0.002\* | -1,824 |  |
| ToM | 1.135 |  | 2.382 | 0.018 | -0,925 |  |

**Supplementary File 1m. G1-G3 change per *a-priori* network *Perspective* vs *Affect*.** T-values and p-values below p<0.05, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | G1 |  | G2 |  | G3 |  |
| Attention | 0.527 |  | -1.081 |  | -1,087 |  |
| Interoception | -0.156 |  | 1.506 |  | 0,344 |  |
| Emotion | -0.490 |  | -0.796 |  | -1,654 |  |
| Empathy | -0.315 |  | 1.228 |  | -1,531 |  |
| ToM | -0.050 |  | 0.002 |  | 0,140 |  |

**Supplementary File 1n. Functional eccentricity changes per *a-priori* network controlling for cortical thickness change.** T-values and p-values below p<0.05, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | *Presence vs Perspective* | | *Presence vs Affect* | | *Perspective vs Affect* | |
| Attention | 2,859 | 0,005\* | 1,479 |  | -1,691 |  |
| Interoception | 2,744 | 0,007\* | 1,064 |  | -1,964 | 0.050 |
| Emotion | 0,374 |  | -0,165 |  | -0,566 |  |
| Empathy | 2,206 | 0,028 | 0,870 |  | -1,566 |  |
| ToM | 1,709 |  | 1,316 |  | -0,595 |  |

**Supplementary File 1o. Functional eccentricity changes per *a-priori* network from baseline to T3.** T-values and p-values below p<0.05, **\*** indicates FDRp<0.05.

|  |  |  |
| --- | --- | --- |
|  | Training vs Retest Control |  |
| Attention | -0,567 |  |
| Interoception | -0,380 |  |
| Emotion | -0,299 |  |
| Empathy | -0,651 |  |
| ToM | -0,192 |  |

**Supplementary File 1p. Depth-dependent qT1 change per *a-priori* network Training vs Retest Control.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention | | Interoception | | Emotion |  | Empathy | | ToM |  |
| 1 | -1,368 |  | -0,190 |  | -0,414 |  | -1,099 |  | -0,799 |  |
| 2 | -2,012 |  | -0,454 |  | -0,669 |  | -1,451 |  | -1,338 |  |
| 3 | -2,590 | 0,011 | -0,865 |  | -1,013 |  | -1,807 |  | -1,822 |  |
| 4 | -3,080 | 0,002\* | -1,295 |  | -1,441 |  | -2,152 | 0,033\* | -2,242 | 0,026\* |
| 5 | -3,493 | 0,001\* | -1,733 |  | -1,923 |  | -2,531 | 0,012\* | -2,617 | 0,010\* |
| 6 | -3,820 | 0,001\* | -2,164 | 0,032\* | -2,367 | 0,019\* | -2,958 | 0,004\* | -2,976 | 0,003\* |
| 7 | -4,035 | 0,001\* | -2,512 | 0,013\* | -2,615 | 0,010\* | -3,340 | 0,001\* | -3,249 | 0,001\* |
| 8 | -4,090 | 0,001\* | -2,754 | 0,007\* | -2,622 | 0,010\* | -3,523 | 0,001\* | -3,262 | 0,001\* |
| 9 | -3,987 | 0,001\* | -2,859 | 0,005\* | -2,481 | 0,014\* | -3,497 | 0,001\* | -3,023 | 0,003\* |
| 10 | -3,819 | 0,001\* | -2,769 | 0,006\* | -2,360 | 0,020\* | -3,388 | 0,001\* | -2,733 | 0,007\* |
| 11 | -3,694 | 0,001\* | -2,551 | 0,012\* | -2,324 | 0,021\* | -3,303 | 0,001\* | -2,482 | 0,014\* |
| 12 | -3,659 | 0,001\* | -2,288 | 0,023\* | -2,363 | 0,019\* | -3,256 | 0,001\* | -2,282 | 0,024\* |

**Supplementary File 1q. Descriptives of retest-control change (mean change over T0-T1; T1-T2; T2-T3) as a function of depth-dependent qT1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Attention | | | | Interoception | | | | Emotion | | | |
| Depth | Mean | Std | CI min | CI  max | Mean | Std | CI  min | CI  max | Mean | Std | CI  min | CI  max |
| 1 | 7,562 | 49,980 | -0,050 | 15,175 | 1,997 | 32,385 | -2,936 | 6,929 | -2,210 | 28,341 | -6,527 | 2,107 |
| 2 | 7,081 | 40,984 | 0,838 | 13,323 | 1,862 | 25,168 | -1,971 | 5,696 | -2,224 | 21,211 | -5,455 | 1,007 |
| 3 | 6,366 | 34,091 | 1,173 | 11,559 | 1,737 | 20,467 | -1,381 | 4,854 | -2,101 | 16,432 | -4,604 | 0,402 |
| 4 | 5,510 | 28,803 | 1,123 | 9,897 | 1,535 | 17,499 | -1,130 | 4,201 | -1,910 | 13,395 | -3,950 | 0,130 |
| 5 | 4,594 | 24,717 | 0,829 | 8,359 | 1,267 | 15,458 | -1,087 | 3,622 | -1,647 | 11,497 | -3,399 | 0,104 |
| 6 | 3,718 | 21,721 | 0,409 | 7,026 | 0,933 | 13,867 | -1,180 | 3,045 | -1,350 | 10,542 | -2,955 | 0,256 |
| 7 | 2,951 | 19,821 | -0,069 | 5,970 | 0,546 | 12,560 | -1,367 | 2,460 | -1,069 | 10,405 | -2,654 | 0,516 |
| 8 | 2,357 | 19,003 | -0,537 | 5,252 | 0,159 | 11,639 | -1,614 | 1,932 | -0,844 | 10,843 | -2,495 | 0,808 |
| 9 | 1,987 | 19,123 | -0,925 | 4,900 | -0,199 | 11,126 | -1,894 | 1,496 | -0,697 | 11,507 | -2,450 | 1,056 |
| 10 | 1,841 | 19,858 | -1,184 | 4,865 | -0,529 | 10,911 | -2,191 | 1,133 | -0,630 | 12,042 | -2,464 | 1,204 |
| 11 | 1,891 | 20,844 | -1,284 | 5,066 | -0,831 | 10,900 | -2,491 | 0,829 | -0,670 | 12,163 | -2,522 | 1,183 |
| 12 | 2,088 | 21,799 | -1,232 | 5,409 | -1,073 | 10,979 | -2,745 | 0,600 | -0,814 | 11,806 | -2,612 | 0,984 |
|  | **Empathy** | | | | **ToM** | | | |
| Depth | Mean | Std | CI min | CI  max | Mean | Std | CI min | CI  max |
| 1 | 2,651 | 30,526 | -1,999 | 7,301 | 1,606 | 25,823 | -2,328 | 5,539 |
| 2 | 1,865 | 23,063 | -1,648 | 5,378 | 1,080 | 19,190 | -1,844 | 4,003 |
| 3 | 1,270 | 17,727 | -1,430 | 3,970 | 0,669 | 14,902 | -1,601 | 2,938 |
| 4 | 0,828 | 14,162 | -1,329 | 2,985 | 0,383 | 12,308 | -1,492 | 2,258 |
| 5 | 0,531 | 11,871 | -1,278 | 2,339 | 0,207 | 10,757 | -1,431 | 1,846 |
| 6 | 0,343 | 10,550 | -1,264 | 1,950 | 0,121 | 9,905 | -1,388 | 1,629 |
| 7 | 0,237 | 10,039 | -1,292 | 1,766 | 0,090 | 9,681 | -1,385 | 1,565 |
| 8 | 0,171 | 10,209 | -1,384 | 1,726 | 0,077 | 10,020 | -1,449 | 1,604 |
| 9 | 0,123 | 10,749 | -1,514 | 1,761 | 0,057 | 10,617 | -1,560 | 1,674 |
| 10 | 0,061 | 11,323 | -1,664 | 1,786 | -0,001 | 11,112 | -1,694 | 1,692 |
| 11 | -0,034 | 11,723 | -1,819 | 1,752 | -0,112 | 11,273 | -1,829 | 1,605 |
| 12 | -0,160 | 11,866 | -1,967 | 1,647 | -0,274 | 11,079 | -1,962 | 1,413 |

**Supplementary File 1r. Descriptive of *Presence* change (mean change over T0-T1) as a function of depth-dependent qT1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Attention | | | | | | | Interoception | | | | | | | Emotion | | | | |
| Depth | Mean | Std | CI  min | | | CI  max | | Mean | | Std | | CI  min | | CI  max | Mean | | Std | | |
| 1 | 26,962 | 42,445 | 18,904 | | | 35,021 | | 11,744 | | 32,692 | | 5,5366 | | 17,95 | -0,1614 | | 29,164 | | |
| 2 | 22,432 | 37,77 | 15,261 | | | 29,602 | | 10,628 | | 24,888 | | 5,9029 | | 15,35 | -0,75176 | | 21,216 | | |
| 3 | 17,804 | 34,339 | 11,284 | | | 24,324 | | 9,0319 | | 20,491 | | 5,1414 | | 12,92 | -1,2386 | | 17,084 | | |
| 4 | 13,436 | 31,073 | 7,5364 | | | 19,335 | | 7,2546 | | 18,145 | | 3,8096 | | 10,7 | -1,5975 | | 14,796 | | |
| 5 | 9,636 | 27,622 | 4,3918 | | | 14,88 | | 5,4632 | | 16,527 | | 2,3254 | | 8,601 | -1,8056 | | 13,27 | | |
| 6 | 6,6193 | 24,229 | 2,0193 | | | 11,219 | | 3,7751 | | 15,091 | | 0,90993 | | 6,64 | -1,8841 | | 12,369 | | |
| 7 | 4,4032 | 21,348 | 0,35014 | | | 8,4563 | | 2,3068 | | 13,884 | | -0,32914 | | 4,943 | -1,8585 | | 12,251 | | |
| 8 | 2,9186 | 19,435 | -0,77129 | | | 6,6085 | | 1,0881 | | 13,073 | | -1,3938 | | 3,57 | -1,8242 | | 12,83 | | |
| 9 | 2,048 | 18,648 | -1,4924 | | | 5,5884 | | 0,09958 | | 12,75 | | -2,3212 | | 2,52 | -1,8667 | | 13,723 | | |
| 10 | 1,6593 | 18,743 | -1,8993 | | | 5,2179 | | -0,69095 | | 12,736 | | -3,1091 | | 1,727 | -2,0169 | | 14,379 | | |
| 11 | 1,5937 | 19,274 | -2,0655 | | | 5,253 | | -1,3077 | | 12,618 | | -3,7032 | | 1,088 | -2,2674 | | 14,323 | | |
| 12 | 1,732 | 19,852 | -2,0371 | | | 5,5011 | | -1,7709 | | 12,094 | | -4,0669 | | 0,525 | -2,5839 | | 13,256 | | |
|  |  |  | | **Empathy** | | | | | | | **ToM** | | | | | | | |
| Depth | CI  min | CI  max | | Mean | Std | | CI min | | CI  max | | Mean | | Std | | | CI min | | CI  max |
| 1 | -5,6984 | 5,3756 | | 10,435 | 28,632 | | 4,9986 | | 15,87 | | 8,5313 | | 22,468 | | | 4,2655 | | 12,8 |
| 2 | -4,7798 | 3,2763 | | 8,126 | 22,669 | | 3,8221 | | 12,43 | | 5,8231 | | 16,579 | | | 2,6755 | | 8,971 |
| 3 | -4,4821 | 2,0049 | | 6,1404 | 19,553 | | 2,4281 | | 9,853 | | 3,7308 | | 14,063 | | | 1,0608 | | 6,401 |
| 4 | -4,4067 | 1,2117 | | 4,506 | 17,422 | | 1,1984 | | 7,814 | | 2,1832 | | 13,019 | | | -0,28858 | | 4,655 |
| 5 | -4,3251 | 0,71385 | | 3,2537 | 15,371 | | 0,33528 | | 6,172 | | 1,1235 | | 12,101 | | | -1,1739 | | 3,421 |
| 6 | -4,2325 | 0,46425 | | 2,39 | 13,492 | | -0,17144 | | 4,952 | | 0,53595 | | 11,18 | | | -1,5866 | | 2,659 |
| 7 | -4,1844 | 0,46747 | | 1,7933 | 12,311 | | -0,54403 | | 4,131 | | 0,30078 | | 10,795 | | | -1,7487 | | 2,35 |
| 8 | -4,2601 | 0,61178 | | 1,3569 | 12,164 | | -0,95258 | | 3,666 | | 0,26041 | | 11,319 | | | -1,8886 | | 2,409 |
| 9 | -4,4722 | 0,73882 | | 0,9688 | 12,865 | | -1,4737 | | 3,411 | | 0,27816 | | 12,455 | | | -2,0866 | | 2,643 |
| 10 | -4,7468 | 0,71295 | | 0,591 | 13,757 | | -2,0208 | | 3,203 | | 0,25582 | | 13,511 | | | -2,3094 | | 2,821 |
| 11 | -4,9868 | 0,45196 | | 0,2205 | 14,239 | | -2,4828 | | 2,924 | | 0,12787 | | 13,9 | | | -2,5111 | | 2,767 |
| 12 | -5,1007 | -0,06723 | | -0,136 | 14,066 | | -2,8062 | | 2,535 | | -0,1157 | | 13,375 | | | -2,655 | | 2,424 |

**Supplementary File 1s. Descriptives of *Affect* change (mean change over T0-T1, T1-T2 and T2-T3) as a function of depth-dependent qT1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Attention | | | | | | | Interoception | | | | | | | Emotion | | | |
| Depth | Mean | Std | CI  min | | | CI  max | | Mean | | Std | | CI  min | | CI  max | Mean | | Std | |
| 1 | 4,706 | 44,870 | -2,212 | | | 11,625 | | 1,224 | | 29,272 | | -3,289 | | 5,738 | -6,308 | | 25,848 | |
| 2 | 2,206 | 38,832 | -3,782 | | | 8,193 | | 0,772 | | 23,371 | | -2,832 | | 4,376 | -5,746 | | 19,466 | |
| 3 | 0,288 | 33,868 | -4,934 | | | 5,510 | | 0,107 | | 19,716 | | -2,933 | | 3,147 | -5,139 | | 15,474 | |
| 4 | -1,147 | 29,495 | -5,695 | | | 3,401 | | -0,647 | | 17,393 | | -3,329 | | 2,035 | -4,647 | | 12,938 | |
| 5 | -2,203 | 25,537 | -6,140 | | | 1,735 | | -1,357 | | 15,627 | | -3,767 | | 1,053 | -4,306 | | 11,271 | |
| 6 | -2,943 | 22,076 | -6,347 | | | 0,461 | | -1,969 | | 14,056 | | -4,137 | | 0,198 | -4,102 | | 10,373 | |
| 7 | -3,446 | 19,395 | -6,437 | | | -0,456 | | -2,498 | | 12,669 | | -4,451 | | -0,544 | -4,024 | | 10,246 | |
| 8 | -3,791 | 17,745 | -6,528 | | | -1,055 | | -2,982 | | 11,649 | | -4,778 | | -1,186 | -4,065 | | 10,788 | |
| 9 | -4,057 | 17,136 | -6,700 | | | -1,415 | | -3,421 | | 11,112 | | -5,134 | | -1,707 | -4,187 | | 11,688 | |
| 10 | -4,303 | 17,292 | -6,969 | | | -1,637 | | -3,799 | | 10,982 | | -5,493 | | -2,106 | -4,350 | | 12,497 | |
| 11 | -4,529 | 17,818 | -7,276 | | | -1,781 | | -4,111 | | 11,001 | | -5,807 | | -2,415 | -4,471 | | 12,750 | |
| 12 | -4,699 | 18,383 | -7,534 | | | -1,865 | | -4,300 | | 10,904 | | -5,982 | | -2,619 | -4,496 | | 12,191 | |
|  |  |  | | **Empathy** | | | | | | | **ToM** | | | | | | | |
| Depth | CI  min | CI  max | | Mean | Std | | CI min | | CI  max | | Mean | | Std | | | CI min | | CI  max |
| 1 | -10,293 | -2,322 | | -0,781 | 26,852 | | -4,921 | | 3,359 | | -0,289 | | 20,940 | | | -3,517 | | 2,940 |
| 2 | -8,748 | -2,745 | | -1,624 | 21,451 | | -4,931 | | 1,684 | | -1,155 | | 17,108 | | | -3,793 | | 1,483 |
| 3 | -7,525 | -2,753 | | -2,234 | 17,936 | | -5,000 | | 0,531 | | -1,769 | | 14,871 | | | -4,062 | | 0,524 |
| 4 | -6,642 | -2,652 | | -2,629 | 15,423 | | -5,007 | | -0,251 | | -2,190 | | 13,319 | | | -4,243 | | -0,136 |
| 5 | -6,044 | -2,568 | | -2,889 | 13,394 | | -4,954 | | -0,824 | | -2,449 | | 12,020 | | | -4,303 | | -0,596 |
| 6 | -5,702 | -2,503 | | -3,073 | 11,807 | | -4,894 | | -1,253 | | -2,576 | | 11,004 | | | -4,273 | | -0,880 |
| 7 | -5,604 | -2,445 | | -3,224 | 10,873 | | -4,901 | | -1,548 | | -2,618 | | 10,536 | | | -4,242 | | -0,993 |
| 8 | -5,729 | -2,402 | | -3,366 | 10,721 | | -5,019 | | -1,713 | | -2,621 | | 10,736 | | | -4,276 | | -0,965 |
| 9 | -5,989 | -2,385 | | -3,529 | 11,195 | | -5,255 | | -1,803 | | -2,625 | | 11,397 | | | -4,383 | | -0,868 |
| 10 | -6,277 | -2,423 | | -3,714 | 11,910 | | -5,550 | | -1,877 | | -2,659 | | 12,160 | | | -4,534 | | -0,784 |
| 11 | -6,437 | -2,505 | | -3,911 | 12,458 | | -5,832 | | -1,990 | | -2,731 | | 12,680 | | | -4,686 | | -0,776 |
| 12 | -6,376 | -2,617 | | -4,114 | 12,614 | | -6,059 | | -2,169 | | -2,843 | | 12,745 | | | -4,809 | | -0,878 |

**Supplementary File 1t. Descriptives of *Affect* change (mean change over T1-T2 and T2-T3) as a function of depth-dependent qT1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Attention | | | | | | | Interoception | | | | | | | Emotion | | | | |
| Depth | Mean | Std | CI  min | | | CI  max | | Mean | | Std | | CI  min | | CI  max | Mean | | Std | | |
| 1 | -2,5228 | 46,28 | -11,523 | | | 6,4775 | | -1,6892 | | 30,662 | | -7,6521 | | 4,274 | -5,2022 | | 26,077 | | |
| 2 | -4,0713 | 39,93 | -11,837 | | | 3,6942 | | -2,287 | | 24,126 | | -6,9789 | | 2,405 | -4,9854 | | 19,189 | | |
| 3 | -4,9563 | 34,624 | -11,69 | | | 1,7773 | | -2,8899 | | 19,931 | | -6,766 | | 0,986 | -4,6893 | | 14,886 | | |
| 4 | -5,3472 | 29,986 | -11,179 | | | 0,4843 | | -3,416 | | 17,237 | | -6,7682 | | -0,064 | -4,4435 | | 12,235 | | |
| 5 | -5,4408 | 25,904 | -10,478 | | | -0,4032 | | -3,7642 | | 15,357 | | -6,7508 | | -0,778 | -4,2724 | | 10,623 | | |
| 6 | -5,3062 | 22,483 | -9,6786 | | | -0,9339 | | -3,9564 | | 13,899 | | -6,6593 | | -1,254 | -4,1187 | | 9,9775 | | |
| 7 | -5,063 | 19,975 | -8,9476 | | | -1,1785 | | -4,0454 | | 12,751 | | -6,5251 | | -1,566 | -4,0143 | | 10,208 | | |
| 8 | -4,7844 | 18,592 | -8,4001 | | | -1,1687 | | -4,1359 | | 11,948 | | -6,4596 | | -1,812 | -3,9849 | | 11,065 | | |
| 9 | -4,5494 | 18,277 | -8,1038 | | | -0,995 | | -4,2382 | | 11,532 | | -6,4808 | | -1,996 | -3,9986 | | 12,15 | | |
| 10 | -4,4092 | 18,688 | -8,0435 | | | -0,7749 | | -4,3449 | | 11,422 | | -6,5663 | | -2,124 | -4,0351 | | 12,983 | | |
| 11 | -4,3492 | 19,414 | -8,1248 | | | -0,5736 | | -4,4493 | | 11,388 | | -6,664 | | -2,235 | -4,0192 | | 13,092 | | |
| 12 | -4,3433 | 20,116 | -8,2554 | | | -0,4312 | | -4,49 | | 11,182 | | -6,6646 | | -2,316 | -3,8985 | | 12,234 | | |
|  |  |  | | **Empathy** | | | | | | | **ToM** | | | | | | | |
| Depth | CI  min | CI  max | | Mean | Std | | CI min | | CI  max | | Mean | | Std | | | CI min | | CI  max |
| 1 | -10,273 | -0,13092 | | -3,236 | 27,882 | | -8,6579 | | 2,187 | | -2,019 | | 20,485 | | | -6,0027 | | 1,965 |
| 2 | -8,7171 | -1,2537 | | -4,01 | 22,161 | | -8,3195 | | 0,3 | | -2,7088 | | 16,61 | | | -5,9391 | | 0,522 |
| 3 | -7,5841 | -1,7944 | | -4,491 | 18,239 | | -8,0381 | | -0,944 | | -3,1489 | | 14,324 | | | -5,9345 | | -0,363 |
| 4 | -6,8228 | -2,0641 | | -4,685 | 15,376 | | -7,6756 | | -1,695 | | -3,4087 | | 12,741 | | | -5,8864 | | -0,931 |
| 5 | -6,3384 | -2,2065 | | -4,688 | 13,145 | | -7,2448 | | -2,132 | | -3,5069 | | 11,45 | | | -5,7338 | | -1,28 |
| 6 | -6,0591 | -2,1783 | | -4,599 | 11,56 | | -6,8469 | | -2,351 | | -3,4807 | | 10,514 | | | -5,5254 | | -1,436 |
| 7 | -5,9995 | -2,029 | | -4,473 | 10,79 | | -6,5717 | | -2,375 | | -3,3644 | | 10,184 | | | -5,3449 | | -1,384 |
| 8 | -6,1367 | -1,8331 | | -4,35 | 10,863 | | -6,4623 | | -2,237 | | -3,2093 | | 10,526 | | | -5,2563 | | -1,162 |
| 9 | -6,3615 | -1,6357 | | -4,263 | 11,539 | | -6,5068 | | -2,019 | | -3,0571 | | 11,297 | | | -5,254 | | -0,86 |
| 10 | -6,56 | -1,5102 | | -4,233 | 12,413 | | -6,6467 | | -1,819 | | -2,932 | | 12,161 | | | -5,297 | | -0,567 |
| 11 | -6,5652 | -1,4731 | | -4,244 | 13,099 | | -6,7913 | | -1,696 | | -2,8149 | | 12,79 | | | -5,3022 | | -0,328 |
| 12 | -6,2778 | -1,5192 | | -4,286 | 13,409 | | -6,8935 | | -1,678 | | -2,7091 | | 12,996 | | | -5,2365 | | -0,182 |

**Supplementary File 1u. Descriptives of *Perspective* change (mean change over T1-T2 and T2-T3) as a function of depth-dependent qT1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Attention | | | | | | | Interoception | | | | | | | Emotion | | | | |
| Depth | Mean | Std | CI  min | | | CI  max | | Mean | | Std | | CI  min | | CI  max | Mean | | Std | | |
| 1 | -10,87 | 52,435 | -21,494 | | | -0,2458 | | -2,7462 | | 34,112 | | -9,6579 | | 4,165 | -2,7201 | | 27,766 | | |
| 2 | -9,2606 | 44,418 | -18,26 | | | -0,2608 | | -3,2496 | | 27,916 | | -8,9059 | | 2,407 | -2,9624 | | 21,214 | | |
| 3 | -7,5768 | 38,091 | -15,295 | | | 0,1412 | | -3,371 | | 23,751 | | -8,1835 | | 1,442 | -2,6939 | | 17,138 | | |
| 4 | -5,9606 | 32,896 | -12,626 | | | 0,7047 | | -3,2017 | | 20,677 | | -7,3913 | | 0,988 | -2,237 | | 14,413 | | |
| 5 | -4,5253 | 28,585 | -10,317 | | | 1,2667 | | -2,8753 | | 18,163 | | -6,5554 | | 0,805 | -1,7131 | | 12,627 | | |
| 6 | -3,3834 | 25,12 | -8,4732 | | | 1,7064 | | -2,4586 | | 16,021 | | -5,7048 | | 0,788 | -1,2131 | | 11,73 | | |
| 7 | -2,534 | 22,66 | -7,1253 | | | 2,0573 | | -1,9479 | | 14,33 | | -4,8514 | | 0,956 | -0,74685 | | 11,697 | | |
| 8 | -1,947 | 21,333 | -6,2694 | | | 2,3755 | | -1,3666 | | 13,157 | | -4,0326 | | 1,299 | -0,35126 | | 12,308 | | |
| 9 | -1,58 | 21,038 | -5,8427 | | | 2,6827 | | -0,79743 | | 12,511 | | -3,3324 | | 1,738 | -0,045665 | | 13,176 | | |
| 10 | -1,3974 | 21,448 | -5,7432 | | | 2,9483 | | -0,28119 | | 12,209 | | -2,7549 | | 2,193 | 0,17334 | | 13,835 | | |
| 11 | -1,3603 | 22,168 | -5,8519 | | | 3,1313 | | 0,14272 | | 12,018 | | -2,2924 | | 2,578 | 0,21532 | | 13,883 | | |
| 12 | -1,4199 | 22,878 | -6,0554 | | | 3,2156 | | 0,45214 | | 11,769 | | -1,9325 | | 2,837 | 0,083819 | | 13,132 | | |
|  |  |  | | **Empathy** | | | | | | | **ToM** | | | | | | | |
| depth | CI  min | CI  max | | Mean | Std | | CI min | | CI  max | | Mean | | Std | | | CI min | | CI  max |
| 1 | -8,3461 | 2,9059 | | -4,22 | 32,346 | | -10,774 | | 2,334 | | -4,5243 | | 23,152 | | | -9,2154 | | 0,167 |
| 2 | -7,2608 | 1,336 | | -3,914 | 25,651 | | -9,1112 | | 1,284 | | -3,8974 | | 18,304 | | | -7,6062 | | -0,189 |
| 3 | -6,1663 | 0,77853 | | -3,437 | 20,779 | | -7,6477 | | 0,773 | | -3,1972 | | 15,084 | | | -6,2534 | | -0,141 |
| 4 | -5,1574 | 0,68333 | | -2,87 | 17,117 | | -6,3379 | | 0,599 | | -2,5082 | | 12,903 | | | -5,1227 | | 0,106 |
| 5 | -4,2715 | 0,84524 | | -2,307 | 14,48 | | -5,2405 | | 0,627 | | -1,9118 | | 11,426 | | | -4,227 | | 0,403 |
| 6 | -3,5899 | 1,1637 | | -1,828 | 12,794 | | -4,4202 | | 0,765 | | -1,443 | | 10,636 | | | -3,598 | | 0,712 |
| 7 | -3,1169 | 1,6232 | | -1,422 | 12,087 | | -3,8706 | | 1,027 | | -1,1308 | | 10,646 | | | -3,2879 | | 1,026 |
| 8 | -2,8451 | 2,1426 | | -1,113 | 12,185 | | -3,5823 | | 1,356 | | -0,94722 | | 11,328 | | | -3,2424 | | 1,348 |
| 9 | -2,7153 | 2,624 | | -0,893 | 12,736 | | -3,474 | | 1,687 | | -0,83875 | | 12,296 | | | -3,3301 | | 1,653 |
| 10 | -2,6299 | 2,9766 | | -0,758 | 13,363 | | -3,4655 | | 1,95 | | -0,79372 | | 13,216 | | | -3,4715 | | 1,884 |
| 11 | -2,5977 | 3,0283 | | -0,722 | 13,757 | | -3,5091 | | 2,066 | | -0,81567 | | 13,77 | | | -3,6058 | | 1,975 |
| 12 | -2,577 | 2,7447 | | -0,759 | 13,798 | | -3,5551 | | 2,036 | | -0,89601 | | 13,851 | | | -3,7024 | | 1,91 |

**Supplementary File 1v. Depth-dependent qT1 change per *a-priori* network *Presence* vs *Perspective*.** T-values and p-values below p<0.05, and Cohen’s D effect size, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Attention | | | Interoception | | | Emotion | | | Empathy | | | ToM | | |
| depth | t | p | D | t- | p | D | t | p | D | t | p | D | t | p | D |
| 1 | 5,663 | 0,001\* | 0,491 | 3,217 | 0,001\* | 0,279 | 0,639 |  | 0,055 | 3,539 | 0,001\* | 0,307 | 3,992 | 0,001\* | 0,346 |
| 2 | 5,581 | 0,001\* | 0,484 | 3,914 | 0,001\* | 0,340 | 0,753 |  | 0,065 | 3,725 | 0,001\* | 0,323 | 3,868 | 0,001\* | 0,336 |
| 3 | 5,177 | 0,001\* | 0,449 | 4,207 | 0,001\* | 0,365 | 0,630 |  | 0,055 | 3,642 | 0,001\* | 0,316 | 3,349 | 0,001\* | 0,291 |
| 4 | 4,552 | 0,001\* | 0,395 | 4,065 | 0,001\* | 0,353 | 0,332 |  | 0,029 | 3,330 | 0,001\* | 0,289 | 2,604 | 0,009\* | 0,226 |
| 5 | 3,816 | 0,001\* | 0,331 | 3,629 | 0,001\* | 0,315 | -0,056 |  | -0,005 | 2,920 | 0,004\* | 0,253 | 1,878 |  | 0,163 |
| 6 | 3,075 | 0,002\* | 0,267 | 3,014 | 0,003\* | 0,262 | -0,434 |  | -0,038 | 2,508 | 0,012\* | 0,218 | 1,324 |  | 0,115 |
| 7 | 2,376 | 0,018\* | 0,206 | 2,262 | 0,024 | 0,196 | -0,729 |  | -0,063 | 2,042 | 0,042 | 0,177 | 0,977 |  | 0,085 |
| 8 | 1,778 |  | 0,154 | 1,394 |  | 0,121 | -0,934 |  | -0,081 | 1,560 |  | 0,135 | 0,786 |  | 0,068 |
| 9 | 1,344 |  | 0,117 | 0,511 |  | 0,044 | -1,085 |  | -0,094 | 1,109 |  | 0,096 | 0,673 |  | 0,058 |
| 10 | 1,109 |  | 0,096 | -0,280 |  | -0,024 | -1,240 |  | -0,108 | 0,749 |  | 0,065 | 0,591 |  | 0,051 |
| 11 | 1,037 |  | 0,090 | -0,916 |  | -0,080 | -1,394 |  | -0,121 | 0,495 |  | 0,043 | 0,515 |  | 0,045 |
| 12 | 1,075 |  | 0,093 | -1,414 |  | -0,123 | -1,570 |  | -0,136 | 0,321 |  | 0,028 | 0,434 |  | 0,038 |

**Supplementary File 1w. Depth-dependent qT1 change per *a-priori* network *Presence* vs *Affect*.** T-values and p-values below p<0.05, and Cohen’s D effect size, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Attention | | | Interoception | | | Emotion | | | Empathy | | | ToM | | |
| Depth | t | p | D | t- | p | D | t | p | D | t | p | D | t | p | D |
| 1 | 3,840 | 0,001\* | 0,333 | 2,722 | 0,007\* | 0,236 | 1,800 |  | 0,156 | 3,082 | 0,002\* | 0,267 | 3,081 | 0,002\* | 0,267 |
| 2 | 4,094 | 0,001\* | 0,355 | 3,243 | 0,001\* | 0,281 | 1,940 |  | 0,168 | 3,419 | 0,001\* | 0,297 | 3,167 | 0,002\* | 0,275 |
| 3 | 4,101 | 0,001\* | 0,356 | 3,536 | 0,000\* | 0,307 | 1,914 |  | 0,166 | 3,592 | 0,001\* | 0,312 | 3,019 | 0,003\* | 0,262 |
| 4 | 3,928 | 0,001\* | 0,341 | 3,591 | 0,000\* | 0,312 | 1,793 |  | 0,156 | 3,640 | 0,001\* | 0,316 | 2,750 | 0,006\* | 0,239 |
| 5 | 3,671 | 0,001\* | 0,319 | 3,478 | 0,001\* | 0,302 | 1,680 |  | 0,146 | 3,647 | 0,001\* | 0,317 | 2,504 | 0,013\* | 0,217 |
| 6 | 3,396 | 0,001\* | 0,295 | 3,266 | 0,001\* | 0,283 | 1,605 |  | 0,139 | 3,671 | 0,001\* | 0,319 | 2,372 | 0,018\* | 0,206 |
| 7 | 3,122 | 0,002\* | 0,271 | 3,015 | 0,003\* | 0,262 | 1,575 |  | 0,137 | 3,636 | 0,001\* | 0,316 | 2,293 | 0,022 | 0,199 |
| 8 | 2,860 | 0,004\* | 0,248 | 2,743 | 0,006\* | 0,238 | 1,579 |  | 0,137 | 3,436 | 0,001\* | 0,298 | 2,182 | 0,030 | 0,189 |
| 9 | 2,641 | 0,009\* | 0,229 | 2,450 | 0,015\* | 0,213 | 1,540 |  | 0,134 | 3,119 | 0,002\* | 0,271 | 2,045 | 0,041 | 0,177 |
| 10 | 2,512 | 0,012\* | 0,218 | 2,163 | 0,031 | 0,188 | 1,478 |  | 0,128 | 2,816 | 0,005\* | 0,244 | 1,919 |  | 0,167 |
| 11 | 2,468 | 0,014\* | 0,214 | 1,932 |  | 0,168 | 1,393 |  | 0,121 | 2,602 | 0,010\* | 0,226 | 1,818 |  | 0,158 |
| 12 | 2,482 | 0,013\* | 0,215 | 1,774 |  | 0,154 | 1,277 |  | 0,111 | 2,488 | 0,013\* | 0,216 | 1,742 |  | 0,151 |

**Supplementary File 1x. Depth-dependent qT1 change per *a-priori* network *Perspective* vs *Affect*.** T-values and p-values below p<0.05, and Cohen’s D effect size, **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Attention | | | Interoception | | | Emotion | | | Empathy | | | ToM | | |
| Depth | t | p | D | t- | p | D | t | p | D | t | p | D | t | p | D |
| 1 | -2,455 | 0,014 | -0,213 | -0,876 |  | -0,076 | 1,035 |  | 0,090 | -0,883 |  | -0,077 | -1,377 |  | -0,120 |
| 2 | -2,122 | 0,034 | -0,184 | -1,131 |  | -0,098 | 1,046 |  | 0,091 | -0,763 |  | -0,066 | -1,160 |  | -0,101 |
| 3 | -1,679 |  | -0,146 | -1,167 |  | -0,101 | 1,155 |  | 0,100 | -0,511 |  | -0,044 | -0,742 |  | -0,064 |
| 4 | -1,166 |  | -0,101 | -0,959 |  | -0,083 | 1,364 |  | 0,118 | -0,125 |  | -0,011 | -0,191 |  | -0,017 |
| 5 | -0,615 |  | -0,053 | -0,595 |  | -0,052 | 1,676 |  | 0,146 | 0,328 |  | 0,028 | 0,363 |  | 0,032 |
| 6 | -0,075 |  | -0,006 | -0,131 |  | -0,011 | 2,017 | 0,044 | 0,175 | 0,800 |  | 0,069 | 0,841 |  | 0,073 |
| 7 | 0,421 |  | 0,037 | 0,443 |  | 0,038 | 2,309 | 0,021 | 0,200 | 1,275 |  | 0,111 | 1,142 |  | 0,099 |
| 8 | 0,818 |  | 0,071 | 1,122 |  | 0,097 | 2,533 | 0,012\* | 0,220 | 1,608 |  | 0,140 | 1,242 |  | 0,108 |
| 9 | 1,079 |  | 0,094 | 1,799 |  | 0,156 | 2,658 | 0,008\* | 0,231 | 1,792 |  | 0,156 | 1,234 |  | 0,107 |
| 10 | 1,210 |  | 0,105 | 2,383 | 0,018\* | 0,207 | 2,766 | 0,006\* | 0,240 | 1,892 |  | 0,164 | 1,202 |  | 0,104 |
| 11 | 1,245 |  | 0,108 | 2,857 | 0,004\* | 0,248 | 2,850 | 0,005\* | 0,247 | 1,962 | 0,050 | 0,170 | 1,188 |  | 0,103 |
| 12 | 1,217 |  | 0,106 | 3,246 | 0,001\* | 0,282 | 2,930 | 0,004\* | 0,254 | 2,043 | 0,042 | 0,177 | 1,203 |  | 0,104 |

**Supplementary File 1y. Depth-dependent qT1 change per *a-priori* network *Presence* vs *Perspective* in TC1.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention |  | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | 4,136 | 0.001\* | 2,618 | 0,010 | 0,568 |  | 3,285 | 0,001\* | 3,445 | 0,001\* |
| 2 | 3,741 | 0,001\* | 2,873 | 0,005\* | 0,421 |  | 3,228 | 0,002\* | 2,951 | 0,004\* |
| 3 | 3,165 | 0,002\* | 2,857 | 0,005\* | 0,144 |  | 2,922 | 0,004\* | 2,152 | 0,033 |
| 4 | 2,553 | 0,012 | 2,599 | 0,010 | -0,166 |  | 2,544 | 0,012 | 1,390 |  |
| 5 | 1,984 | 0,049 | 2,244 | 0,026 | -0,413 |  | 2,254 | 0,026 | 0,897 |  |
| 6 | 1,522 |  | 1,900 |  | -0,535 |  | 2,102 | 0,037 | 0,709 |  |
| 7 | 1,188 |  | 1,556 |  | -0,561 |  | 1,996 | 0,048 | 0,757 |  |
| 8 | 0,983 |  | 1,225 |  | -0,545 |  | 1,871 |  | 0,908 |  |
| 9 | 0,891 |  | 0,883 |  | -0,554 |  | 1,696 |  | 1,019 |  |
| 10 | 0,881 |  | 0,547 |  | -0,601 |  | 1,543 |  | 1,063 |  |
| 11 | 0,910 |  | 0,236 |  | -0,688 |  | 1,425 |  | 1,048 |  |
| 12 | 0,941 |  | -0,061 |  | -0,868 |  | 1,314 |  | 0,964 |  |

**Supplementary File 1z. Depth-dependent qT1 change per *a-priori* network *Presence* vs *Affect* in TC1.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention |  | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | 3,483 | 0,001\* | 2,057 | 0,041 | 0,757 |  | 2,975 | 0,003\* | 2,837 | 0,005\* |
| 2 | 3,765 | 0,000\* | 2,584 | 0,011 | 0,626 |  | 3,330 | 0,001\* | 2,687 | 0,008\* |
| 3 | 3,756 | 0,000\* | 3,005 | 0,003\* | 0,464 |  | 3,464 | 0,001\* | 2,296 | 0,023 |
| 4 | 3,544 | 0,001\* | 3,250 | 0,001\* | 0,291 |  | 3,439 | 0,001\* | 1,821 | 0,071 |
| 5 | 3,226 | 0,002\* | 3,326 | 0,001\* | 0,156 |  | 3,369 | 0,001\* | 1,434 |  |
| 6 | 2,860 | 0,005\* | 3,262 | 0,001\* | 0,041 |  | 3,278 | 0,001\* | 1,189 |  |
| 7 | 2,484 | 0,014\* | 3,080 | 0,002\* | -0,034 |  | 3,048 | 0,003\* | 1,008 |  |
| 8 | 2,126 | 0,035 | 2,811 | 0,006\* | -0,083 |  | 2,637 | 0,009 | 0,843 |  |
| 9 | 1,836 | 0,068 | 2,466 | 0,015\* | -0,136 |  | 2,159 | 0,032 | 0,696 |  |
| 10 | 1,671 | 0,097 | 2,145 | 0,034 | -0,161 |  | 1,797 | 0,074 | 0,585 |  |
| 11 | 1,619 |  | 1,898 |  | -0,206 |  | 1,571 |  | 0,474 |  |
| 12 | 1,651 |  | 1,737 |  | -0,320 |  | 1,444 |  | 0,354 |  |

**Supplementary File 1za. Depth-dependent qT1 change per *a-priori* network *Perspective* vs *Affect* in TC1.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention |  | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | -0,646 |  | -0,550 |  | 0,178 |  | -0,313 |  | -0,599 |  |
| 2 | 0,004 |  | -0,291 |  | 0,194 |  | 0,081 |  | -0,268 |  |
| 3 | 0,549 |  | 0,127 |  | 0,305 |  | 0,504 |  | 0,127 |  |
| 4 | 0,934 |  | 0,610 |  | 0,438 |  | 0,843 |  | 0,405 |  |
| 5 | 1,178 |  | 1,024 |  | 0,546 |  | 1,055 |  | 0,509 |  |
| 6 | 1,272 |  | 1,293 |  | 0,554 |  | 1,114 |  | 0,455 |  |
| 7 | 1,233 |  | 1,449 |  | 0,507 |  | 0,996 |  | 0,236 |  |
| 8 | 1,088 |  | 1,510 |  | 0,445 |  | 0,723 |  | -0,066 |  |
| 9 | 0,899 |  | 1,509 |  | 0,403 |  | 0,433 |  | -0,314 |  |
| 10 | 0,752 |  | 1,525 |  | 0,424 |  | 0,235 |  | -0,463 |  |
| 11 | 0,673 |  | 1,589 |  | 0,464 |  | 0,132 |  | -0,555 |  |
| 12 | 0,674 |  | 1,719 |  | 0,529 |  | 0,118 |  | -0,588 |  |

**Supplementary File 1zb. Depth-dependent qT1 change per *a-priori* network *Presence* vs *Perspective* in TC2.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention |  | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | 3,891 | 0,001\* | 1,765 | 0,080 | 0,304 |  | 1,620 |  | 2,464 | 0,015 |
| 2 | 4,061 | 0,001\* | 2,499 | 0,014 | 0,684 |  | 1,895 |  | 2,755 | 0,007 |
| 3 | 3,992 | 0,001\* | 2,931 | 0,004 | 0,831 |  | 1,998 | 0,048 | 2,714 | 0,007 |
| 4 | 3,697 | 0,001\* | 3,008 | 0,003 | 0,735 |  | 1,903 |  | 2,390 | 0,018 |
| 5 | 3,243 | 0,001 | 2,774 | 0,006 | 0,443 |  | 1,637 |  | 1,890 |  |
| 6 | 2,692 | 0,008 | 2,263 | 0,025 | 0,033 |  | 1,245 |  | 1,308 |  |
| 7 | 2,075 | 0,040 | 1,543 |  | -0,354 |  | 0,727 |  | 0,727 |  |
| 8 | 1,457 |  | 0,658 |  | -0,655 |  | 0,173 |  | 0,233 |  |
| 9 | 0,941 |  | -0,214 |  | -0,866 |  | -0,307 |  | -0,107 |  |
| 10 | 0,610 |  | -0,971 |  | -1,048 |  | -0,679 |  | -0,311 |  |
| 11 | 0,474 |  | -1,532 |  | -1,183 |  | -0,916 |  | -0,415 |  |
| 12 | 0,502 |  | -1,896 |  | -1,251 |  | -1,025 |  | -0,417 |  |

**Supplementary File 1zc. Depth-dependent qT1 change per *a-priori* network *Presence* vs *Affect* in TC2.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention |  | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | 2,851 | 0,005 | 2,071 | 0,040 | 1,006 |  | 1,617 |  | 2,005 | 0,047 |
| 2 | 2,871 | 0,005 | 2,501 | 0,013 | 1,468 |  | 1,887 |  | 2,424 | 0,017 |
| 3 | 2,783 | 0,006 | 2,668 | 0,008 | 1,746 |  | 2,078 | 0,039 | 2,650 | 0,009 |
| 4 | 2,621 | 0,010 | 2,593 | 0,010 | 1,906 |  | 2,197 | 0,030 | 2,771 | 0,006 |
| 5 | 2,436 | 0,016 | 2,343 | 0,021 | 2,017 | 0,046 | 2,281 | 0,024 | 2,840 | 0,005 |
| 6 | 2,243 | 0,026 | 2,002 | 0,047 | 2,063 | 0,041 | 2,354 | 0,020 | 2,860 | 0,005 |
| 7 | 2,032 | 0,044 | 1,637 |  | 2,061 | 0,041 | 2,353 | 0,020 | 2,758 | 0,007 |
| 8 | 1,793 |  | 1,308 |  | 2,016 | 0,046 | 2,235 | 0,027 | 2,514 | 0,013 |
| 9 | 1,563 |  | 1,046 |  | 1,925 |  | 2,036 | 0,044 | 2,233 | 0,027 |
| 10 | 1,376 |  | 0,813 |  | 1,767 |  | 1,800 |  | 1,976 |  |
| 11 | 1,252 |  | 0,657 |  | 1,579 |  | 1,604 |  | 1,778 |  |
| 12 | 1,192 |  | 0,560 |  | 1,391 |  | 1,484 |  | 1,632 |  |

**Supplementary File 1zd. Depth-dependent qT1 change per *a-priori* network *Perspective* vs *Affect* in TC2.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention |  | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | -1,156 |  | 0,240 |  | 0,680 |  | -0,059 |  | -0,536 |  |
| 2 | -1,312 |  | -0,085 |  | 0,747 |  | -0,074 |  | -0,420 |  |
| 3 | -1,327 |  | -0,361 |  | 0,870 |  | 0,011 |  | -0,157 |  |
| 4 | -1,187 |  | -0,513 |  | 1,125 |  | 0,223 |  | 0,291 |  |
| 5 | -0,907 |  | -0,521 |  | 1,532 |  | 0,576 |  | 0,868 |  |
| 6 | -0,535 |  | -0,336 |  | 1,993 | 0,048 | 1,047 |  | 1,480 |  |
| 7 | -0,114 |  | 0,039 |  | 2,385 | 0,018 | 1,572 |  | 1,971 |  |
| 8 | 0,280 |  | 0,616 |  | 2,647 | 0,009 | 2,020 | 0,045 | 2,234 | 0,027 |
| 9 | 0,578 |  | 1,245 |  | 2,772 | 0,006 | 2,312 | 0,022 | 2,303 | 0,023 |
| 10 | 0,731 |  | 1,787 |  | 2,801 | 0,006 | 2,459 | 0,015 | 2,258 | 0,025 |
| 11 | 0,748 |  | 2,204 | 0,029 | 2,754 | 0,007 | 2,508 | 0,013 | 2,168 | 0,032 |
| 12 | 0,661 |  | 2,479 | 0,014 | 2,640 | 0,009 | 2,501 | 0,013 | 2,028 | 0,044 |

**Supplementary File 1ze. Depth-dependent qT1 change per *a-priori* network baseline – T1: TC1 (*Presence*) versus Retest Control.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention | | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | -0,188 |  | 0,236 |  | 0,691 |  | 0,296 |  | -0,002 |  |
| 2 | -0,484 |  | 0,082 |  | 0,907 |  | 0,379 |  | -0,316 |  |
| 3 | -0,764 |  | -0,159 |  | 0,908 |  | 0,286 |  | -0,649 |  |
| 4 | -1,049 |  | -0,368 |  | 0,691 |  | 0,152 |  | -0,968 |  |
| 5 | -1,268 |  | -0,507 |  | 0,339 |  | 0,000 |  | -1,259 |  |
| 6 | -1,401 |  | -0,623 |  | -0,066 |  | -0,132 |  | -1,465 |  |
| 7 | -1,429 |  | -0,625 |  | -0,409 |  | -0,223 |  | -1,507 |  |
| 8 | -1,334 |  | -0,530 |  | -0,624 |  | -0,266 |  | -1,348 |  |
| 9 | -1,152 |  | -0,368 |  | -0,705 |  | -0,306 |  | -1,066 |  |
| 10 | -0,966 |  | -0,158 |  | -0,684 |  | -0,253 |  | -0,783 |  |
| 11 | -0,847 |  | 0,053 |  | -0,600 |  | -0,143 |  | -0,525 |  |
| 12 | -0,820 |  | 0,206 |  | -0,454 |  | 0,006 |  | -0,276 |  |

**Supplementary File 1zf. Depth-dependent qT1 change per *a-priori* network baseline – T1: TC2 (*Presence*) versus Retest Control.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention | | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | -0,371 |  | -0,052 |  | 0,467 |  | -0,825 |  | -0,286 |  |
| 2 | -0,422 |  | 0,209 |  | 1,220 |  | -0,474 |  | 0,119 |  |
| 3 | -0,487 |  | 0,257 |  | 1,672 |  | -0,259 |  | 0,409 |  |
| 4 | -0,634 |  | 0,133 |  | 1,766 |  | -0,139 |  | 0,475 |  |
| 5 | -0,783 |  | -0,094 |  | 1,567 |  | -0,167 |  | 0,327 |  |
| 6 | -0,935 |  | -0,441 |  | 1,132 |  | -0,324 |  | 0,040 |  |
| 7 | -1,093 |  | -0,744 |  | 0,605 |  | -0,577 |  | -0,297 |  |
| 8 | -1,231 |  | -0,985 |  | 0,132 |  | -0,870 |  | -0,578 |  |
| 9 | -1,319 |  | -1,089 |  | -0,196 |  | -1,145 |  | -0,721 |  |
| 10 | -1,373 |  | -1,049 |  | -0,393 |  | -1,307 |  | -0,758 |  |
| 11 | -1,409 |  | -0,885 |  | -0,454 |  | -1,347 |  | -0,686 |  |
| 12 | -1,439 |  | -0,667 |  | -0,341 |  | -1,264 |  | -0,486 |  |

**Supplementary File 1zg. Depth-dependent qT1 change per *a-priori* network baseline – T1: *Affect* TC3 vs Retest Control.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention | | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | -1,397 |  | -0,818 |  | -0,896 |  | -1,493 |  | -1,420 |  |
| 2 | -1,728 |  | -0,881 |  | -0,525 |  | -1,278 |  | -1,382 |  |
| 3 | -1,948 |  | -0,987 |  | -0,209 |  | -1,031 |  | -1,278 |  |
| 4 | -2,089 | 0,038 | -1,093 |  | -0,078 |  | -0,903 |  | -1,218 |  |
| 5 | -2,205 | 0,029 | -1,195 |  | -0,178 |  | -0,968 |  | -1,303 |  |
| 6 | -2,341 | 0,020 | -1,284 |  | -0,522 |  | -1,227 |  | -1,513 |  |
| 7 | -2,488 | 0,013 | -1,383 |  | -0,965 |  | -1,614 |  | -1,744 |  |
| 8 | -2,628 | 0,009 | -1,471 |  | -1,344 |  | -1,957 |  | -1,863 |  |
| 9 | -2,734 | 0,007 | -1,504 |  | -1,578 |  | -2,134 | 0,034 | -1,835 |  |
| 10 | -2,821 | 0,005 | -1,446 |  | -1,688 |  | -2,175 | 0,031 | -1,751 |  |
| 11 | -2,904 | 0,004 | -1,317 |  | -1,701 |  | -2,157 | 0,032 | -1,665 |  |
| 12 | -2,978 | 0,003 | -1,155 |  | -1,618 |  | -2,118 | 0,035 | -1,578 |  |

**Supplementary File 1zh. Depth-dependent qT1 change per *a-priori* network baseline – T1: *Presence* TC1 vs *Affect* TC3.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention | | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | 1,234 |  | 1,078 |  | 1,624 |  | 1,829 |  | 1,449 |  |
| 2 | 1,269 |  | 0,984 |  | 1,467 |  | 1,684 |  | 1,088 |  |
| 3 | 1,207 |  | 0,845 |  | 1,145 |  | 1,326 |  | 0,640 |  |
| 4 | 1,047 |  | 0,740 |  | 0,788 |  | 1,059 |  | 0,253 |  |
| 5 | 0,934 |  | 0,698 |  | 0,529 |  | 0,968 |  | 0,041 |  |
| 6 | 0,932 |  | 0,661 |  | 0,465 |  | 1,097 |  | 0,044 |  |
| 7 | 1,054 |  | 0,755 |  | 0,567 |  | 1,405 |  | 0,237 |  |
| 8 | 1,297 |  | 0,939 |  | 0,734 |  | 1,726 |  | 0,522 |  |
| 9 | 1,597 |  | 1,140 |  | 0,890 |  | 1,867 |  | 0,782 |  |
| 10 | 1,877 |  | 1,301 |  | 1,024 |  | 1,963 |  | 0,987 |  |
| 11 | 2,077 | 0,039 | 1,389 |  | 1,123 |  | 2,057 | 0,041 | 1,163 |  |
| 12 | 2,166 | 0,031 | 1,382 |  | 1,187 |  | 2,171 | 0,031 | 1,329 |  |

**Supplementary File 1zi. Depth-dependent qT1 change per *a-priori* network baseline – T1: *Presence* TC2 vs *Affect* TC3.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention | | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | 0,988 |  | 0,748 |  | 1,356 |  | 0,616 |  | 1,097 |  |
| 2 | 1,259 |  | 1,077 |  | 1,764 |  | 0,757 |  | 1,475 |  |
| 3 | 1,408 |  | 1,230 |  | 1,918 |  | 0,725 |  | 1,670 |  |
| 4 | 1,381 |  | 1,207 |  | 1,886 |  | 0,722 |  | 1,680 |  |
| 5 | 1,332 |  | 1,070 |  | 1,779 |  | 0,756 |  | 1,611 |  |
| 6 | 1,306 |  | 0,790 |  | 1,670 |  | 0,848 |  | 1,522 |  |
| 7 | 1,288 |  | 0,573 |  | 1,565 |  | 0,973 |  | 1,404 |  |
| 8 | 1,288 |  | 0,412 |  | 1,452 |  | 1,024 |  | 1,231 |  |
| 9 | 1,308 |  | 0,340 |  | 1,344 |  | 0,916 |  | 1,057 |  |
| 10 | 1,340 |  | 0,329 |  | 1,250 |  | 0,791 |  | 0,938 |  |
| 11 | 1,377 |  | 0,374 |  | 1,200 |  | 0,732 |  | 0,927 |  |
| 12 | 1,405 |  | 0,440 |  | 1,235 |  | 0,778 |  | 1,047 |  |

**Supplementary File 1zj. Depth-dependent qT1 change per *a-priori* network T1 – T3: *Perspective* versus *Affect* (TC1+TC2).** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Affect-Control  Depth | Attention | | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | -1,175 |  | -0,205 |  | 0,659 |  | -0,202 |  | -0,749 |  |
| 2 | -0,862 |  | -0,236 |  | 0,720 |  | 0,061 |  | -0,444 |  |
| 3 | -0,499 |  | -0,133 |  | 0,904 |  | 0,430 |  | 0,004 |  |
| 4 | -0,112 |  | 0,105 |  | 1,205 |  | 0,867 |  | 0,534 |  |
| 5 | 0,283 |  | 0,410 |  | 1,598 |  | 1,328 |  | 1,043 |  |
| 6 | 0,631 |  | 0,754 |  | 1,934 |  | 1,734 |  | 1,434 |  |
| 7 | 0,901 |  | 1,151 |  | 2,149 | 0,032 | 2,005 |  | 1,592 |  |
| 8 | 1,057 |  | 1,619 |  | 2,246 | 0,025 | 2,086 | 0,046 | 1,537 |  |
| 9 | 1,105 |  | 2,080 | 0,038 | 2,270 | 0,024 | 2,051 | 0,038 | 1,401 |  |
| 10 | 1,084 |  | 2,482 | 0,014 | 2,293 | 0,023 | 1,988 | 0,041 | 1,266 |  |
| 11 | 1,030 |  | 2,808 | 0,005 | 2,294 | 0,022 | 1,930 |  | 1,143 |  |
| 12 | 0,968 |  | 3,043 | 0,003 | 2,275 | 0,024 | 1,900 |  | 1,036 |  |

**Supplementary File 1zk. Depth-dependent qT1 change per *a-priori* network T1 – T3: *Affect* vs Retest Control. \*** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Affect-Control  Depth | Attention | | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | 0,237 |  | 0,124 |  | -0,569 |  | -0,078 |  | -0,030 |  |
| 2 | -0,059 |  | 0,105 |  | -1,025 |  | -0,517 |  | -0,495 |  |
| 3 | -0,363 |  | -0,028 |  | -1,459 |  | -1,010 |  | -0,926 |  |
| 4 | -0,633 |  | -0,242 |  | -1,798 |  | -1,446 |  | -1,305 |  |
| 5 | -0,858 |  | -0,473 |  | -2,004 | 0,046 | -1,756 |  | -1,544 |  |
| 6 | -1,007 |  | -0,681 |  | -2,015 | 0,045 | -1,907 |  | -1,624 |  |
| 7 | -1,072 |  | -0,867 |  | -1,890 |  | -1,871 |  | -1,555 |  |
| 8 | -1,062 |  | -1,068 |  | -1,735 |  | -1,701 |  | -1,387 |  |
| 9 | -1,025 |  | -1,279 |  | -1,614 |  | -1,512 |  | -1,238 |  |
| 10 | -1,000 |  | -1,483 |  | -1,563 |  | -1,389 |  | -1,136 |  |
| 11 | -1,007 |  | -1,678 |  | -1,563 |  | -1,344 |  | -1,073 |  |
| 12 | -1,047 |  | -1,858 |  | -1,629 |  | -1,392 |  | -1,084 |  |

**Supplementary File 1zl. Depth-dependent qT1 change per *a-priori* network T1 – T3: *Perspective* vs Retest Control.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention | | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | -0,937 |  | -0,088 |  | 0,09 |  | -0,276 |  | -0,794 |  |
| 2 | -0,908 |  | -0,132 |  | -0,293 |  | -0,446 |  | -0,933 |  |
| 3 | -0,845 |  | -0,159 |  | -0,535 |  | -0,565 |  | -0,903 |  |
| 4 | -0,729 |  | -0,134 |  | -0,569 |  | -0,561 |  | -0,743 |  |
| 5 | -0,562 |  | -0,061 |  | -0,382 |  | -0,412 |  | -0,471 |  |
| 6 | -0,368 |  | 0,071 |  | -0,062 |  | -0,162 |  | -0,162 |  |
| 7 | -0,168 |  | 0,276 |  | 0,273 |  | 0,138 |  | 0,066 |  |
| 8 | -0,005 |  | 0,537 |  | 0,522 |  | 0,385 |  | 0,183 |  |
| 9 | 0,079 |  | 0,784 |  | 0,665 |  | 0,536 |  | 0,202 |  |
| 10 | 0,084 |  | 0,982 |  | 0,738 |  | 0,597 |  | 0,172 |  |
| 11 | 0,025 |  | 1,117 |  | 0,736 |  | 0,583 |  | 0,110 |  |
| 12 | -0,074 |  | 1,183 |  | 0,649 |  | 0,505 |  | -0,011 |  |

**Supplementary File 1zm. Depth-dependent qT1 change per *a-priori* network controlling for CTX: *Presence* versus *Perspective*.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention |  | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | 5,664 | 0,001\* | 3,264 | 0,001\* | 0,425 |  | 3,468 | 0,001\* | 3,897 | 0,001\* |
| 2 | 5,568 | 0,001\* | 3,939 | 0,001\* | 0,528 |  | 3,655 | 0,001\* | 3,788 | 0,001\* |
| 3 | 5,155 | 0,001\* | 4,205 | 0,001\* | 0,396 |  | 3,568 | 0,001\* | 3,278 | 0,001\* |
| 4 | 4,520 | 0,001\* | 4,049 | 0,001\* | 0,082 |  | 3,249 | 0,001\* | 2,524 | 0,012\* |
| 5 | 3,768 | 0,001\* | 3,602 | 0,001\* | -0,337 |  | 2,821 | 0,005\* | 1,767 |  |
| 6 | 2,996 | 0,003\* | 2,962 | 0,003\* | -0,759 |  | 2,377 | 0,018\* | 1,163 |  |
| 7 | 2,261 | 0,024 | 2,164 | 0,031 | -1,089 |  | 1,881 |  | 0,766 |  |
| 8 | 1,634 |  | 1,240 |  | -1,296 |  | 1,376 |  | 0,544 |  |
| 9 | 1,196 |  | 0,313 |  | -1,437 |  | 0,924 |  | 0,423 |  |
| 10 | 0,984 |  | -0,493 |  | -1,574 |  | 0,577 |  | 0,354 |  |
| 11 | 0,959 |  | -1,128 |  | -1,700 |  | 0,344 |  | 0,308 |  |
| 12 | 1,068 |  | -1,615 |  | -1,833 |  | 0,196 |  | 0,276 |  |

**Supplementary File 1zn. Depth-dependent qT1 change per *a-priori* network controlling for CTX: *Presence* versus *Affect*.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention |  | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | 3,914 | 0,001\* | 2,793 | 0,005\* | 1,372 |  | 3,114 | 0,002\* | 2,885 | 0,004\* |
| 2 | 4,140 | 0,001\* | 3,274 | 0,001\* | 1,534 |  | 3,459 | 0,001\* | 3,006 | 0,003\* |
| 3 | 4,125 | 0,001\* | 3,544 | 0,001\* | 1,524 |  | 3,654 | 0,001\* | 2,908 | 0,004\* |
| 4 | 3,938 | 0,001\* | 3,612 | 0,001\* | 1,390 |  | 3,716 | 0,001\* | 2,680 | 0,008\* |
| 5 | 3,669 | 0,001\* | 3,540 | 0,001\* | 1,230 |  | 3,738 | 0,001\* | 2,464 | 0,014\* |
| 6 | 3,379 | 0,001\* | 3,385 | 0,001\* | 1,084 |  | 3,770 | 0,001\* | 2,342 | 0,020 |
| 7 | 3,086 | 0,002\* | 3,190 | 0,002\* | 0,985 |  | 3,704 | 0,001\* | 2,243 | 0,025 |
| 8 | 2,806 | 0,005\* | 2,959 | 0,003\* | 0,916 |  | 3,478 | 0,001\* | 2,101 | 0,036 |
| 9 | 2,582 | 0,010\* | 2,683 | 0,008\* | 0,858 |  | 3,135 | 0,002\* | 1,936 |  |
| 10 | 2,463 | 0,014\* | 2,388 | 0,017\* | 0,806 |  | 2,810 | 0,005\* | 1,790 |  |
| 11 | 2,444 | 0,015\* | 2,137 | 0,033 | 0,747 |  | 2,574 | 0,010\* | 1,678 |  |
| 12 | 2,498 | 0,013\* | 1,927 |  | 0,682 |  | 2,439 | 0,015\* | 1,602 |  |

**Supplementary File 1zo. Depth-dependent qT1 change per *a-priori* network controlling for CTX: *Perspective* versus *Affect*.** T-values and p-values below p<0.05. **\*** indicates FDRp<0.05.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth | Attention |  | Interoception | | Emotion |  | Empathy |  | ToM |  |
| 1 | -2,386 | 0,017\* | -0,859 |  | 0,857 |  | -0,776 |  | -1,461 |  |
| 2 | -2,066 | 0,039 | -1,127 |  | 0,901 |  | -0,650 |  | -1,227 |  |
| 3 | -1,632 |  | -1,157 |  | 1,035 |  | -0,371 |  | -0,770 |  |
| 4 | -1,122 |  | -0,922 |  | 1,247 |  | 0,037 |  | -0,170 |  |
| 5 | -0,564 |  | -0,506 |  | 1,549 |  | 0,524 |  | 0,446 |  |
| 6 | -0,006 |  | 0,040 |  | 1,869 |  | 1,038 |  | 0,987 |  |
| 7 | 0,511 |  | 0,717 |  | 2,133 | 0,033 | 1,514 |  | 1,324 |  |
| 8 | 0,923 |  | 1,497 |  | 2,292 | 0,022 | 1,848 |  | 1,428 |  |
| 9 | 1,182 |  | 2,238 | 0,026 | 2,388 | 0,017\* | 2,009 | 0,045 | 1,401 |  |
| 10 | 1,298 |  | 2,831 | 0,005\* | 2,486 | 0,013\* | 2,074 | 0,039 | 1,336 |  |
| 11 | 1,306 |  | 3,283 | 0,001\* | 2,564 | 0,011\* | 2,100 | 0,036 | 1,278 |  |
| 12 | 1,240 |  | 3,612 | 0,001\* | 2,646 | 0,008\* | 2,131 | 0,034 | 1,240 |  |