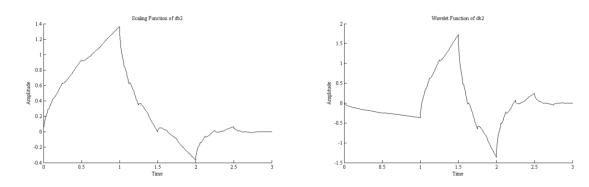
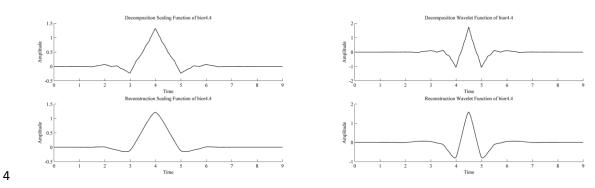
Supplementary Material

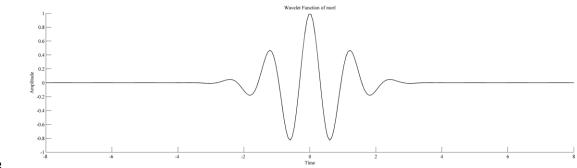


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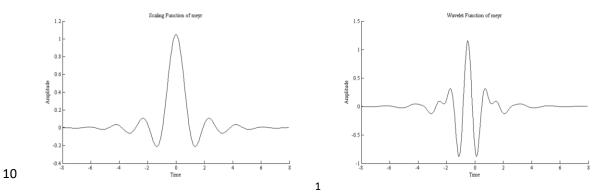
2 Supplementary Figure S1. The scaling function and wavelet function of
3 Daubechies2 (db2).



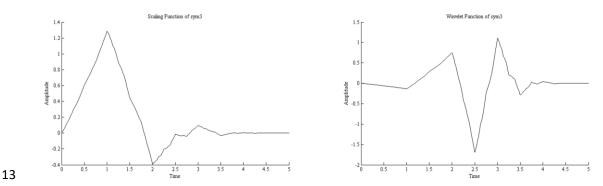
Supplementary Figure S2. The decomposition scaling function, decomposition
wavelet function, reconstruction scaling function, and reconstruction wavelet function
of biorthogonal 4.4 (bior 4.4).



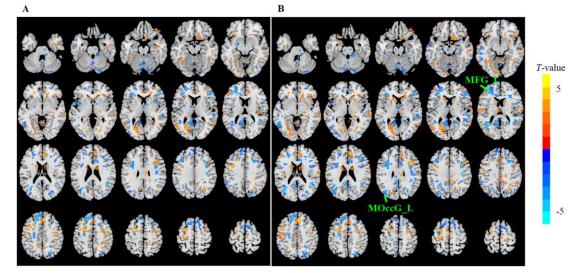
- 8
- 9 Supplementary Figure S3. The wavelet function of Morlet (morl).



Supplementary Figure S4. The scaling function and wavelet function of Meyer
 (meyr).



Supplementary Figure S5. The scaling function and wavelet function of Symlets 3 (sym3).



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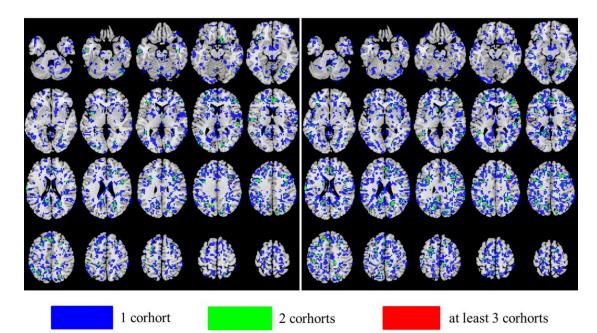
Supplementary Figure S6. The *t* map (p < 0.05, cluster size ≥ 10 voxels) of ADHD

- vs. TDC of NYU cohort in Slow-6 (0 0.0117 Hz) by FFT-ALFF (A) and db2-ALFF
 (B), respectively. Cold colors indicate lower ALFF in ADHD. MFG_L, left middle
- 41 (b), respectively. Cold colors indicate lower ALT
 42 frontal gyrus; MOccG_L, left middle occipital gyrus.
 - A B

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44 **Supplementary Figure S7.** The *t* map (p < 0.05, cluster size ≥ 10 voxels) of ADHD 45 vs. TDC of NYU cohort in Slow-2 (0.1992 - 0.25 Hz) by FFT-ALFF (**A**) and 46 db2-ALFF (**B**), respectively. Cold colors indicate lower ALFF in ADHD. SOcG_R, 47 right superior occipital gyrus; SMA_R, right supplementary motor area.

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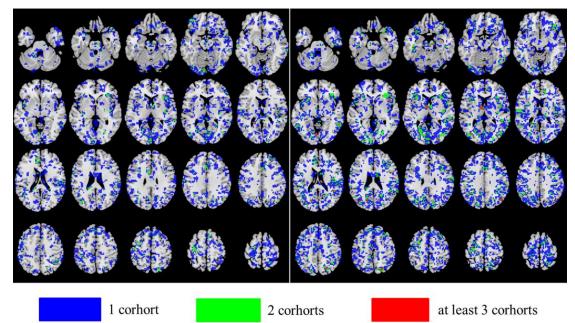


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50 **Supplementary Figure S8.** The reproducibility brain maps across the 4 cohorts in 51 Slow-6 (0 - 0.0117 Hz) by FFT-ALFF (**A**) and db2-ALFF (**B**), respectively. Blue

52 indicates the regions detected in only one of the 4 cohorts. Green and red indicate the

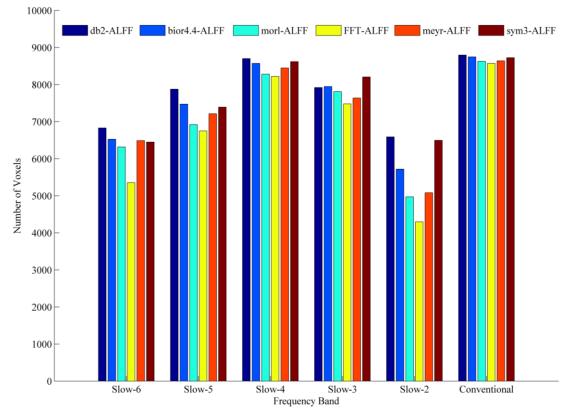
regions detected in 2 and at least 3 cohorts, respectively.



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Supplementary Figure S9. The reproducibility brain maps across the 4 cohorts in
Slow-2 (0.1992 - 0.25 Hz) by FFT-ALFF (A) and db2-ALFF (B), respectively. Blue
indicates the regions detected in only one of the 4 cohorts. Green and red indicate the
regions detected in 2 and at least 3 cohorts, respectively.

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Supplementary Figure S10. The mean number of voxels showing significant
difference in all 5 cohorts (NYU, PKU1, PKU2, PKU3, and EOEC)) calculated from

64 Wavelet-ALFF and FFT-ALFF results in different frequency bands.