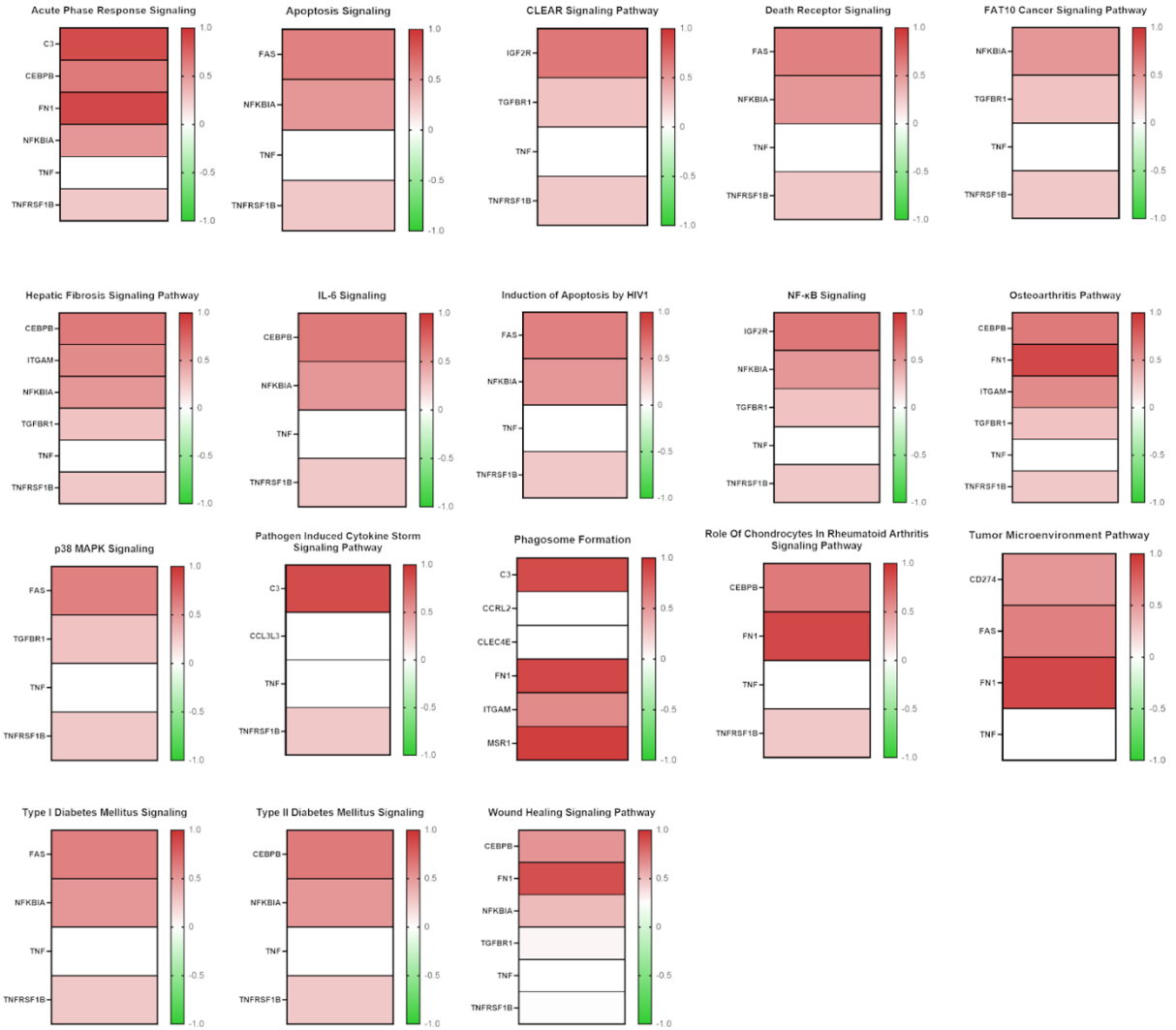


Supplementary Material

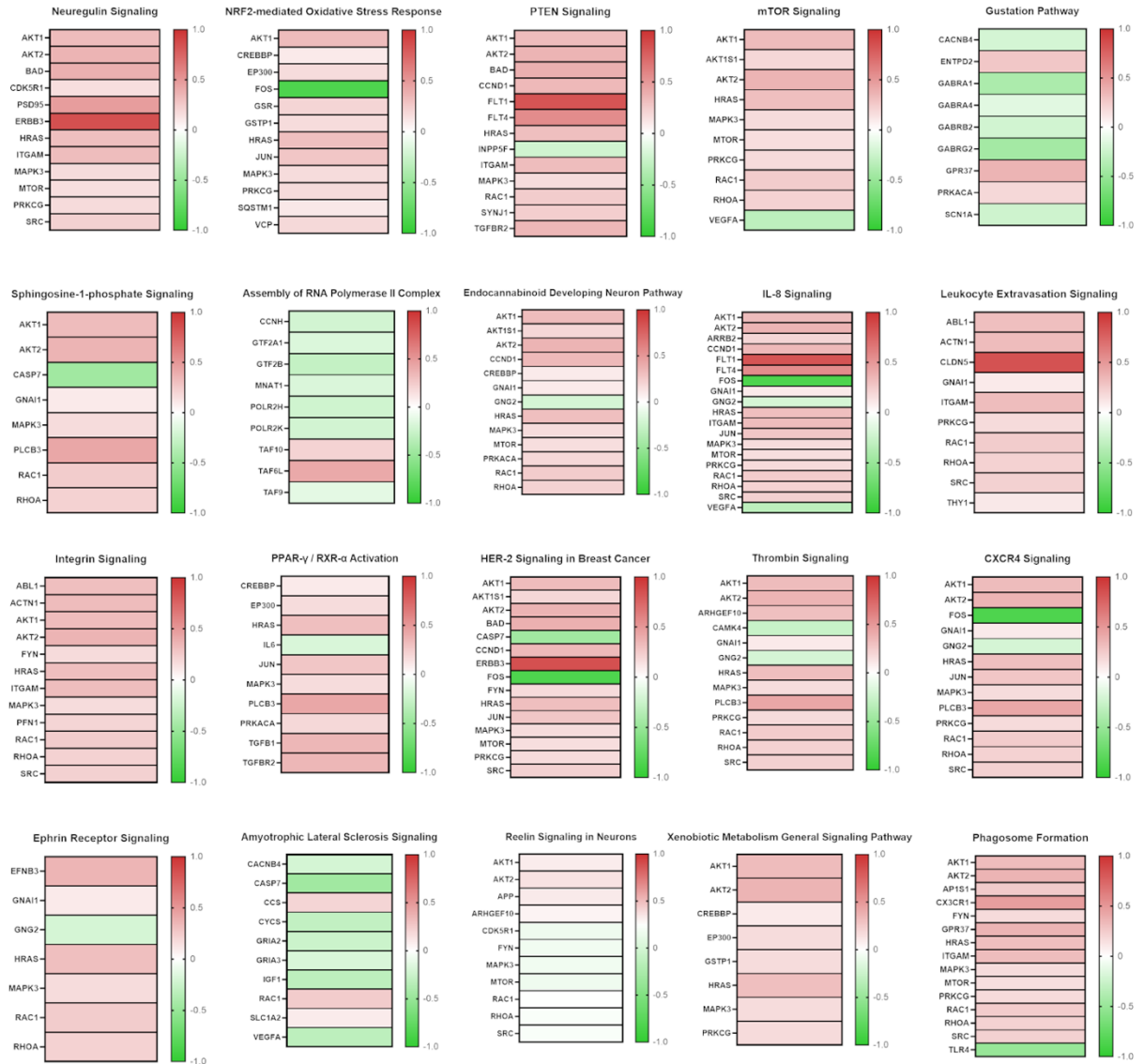
Exposure to World Trade Center Dust Exacerbates Cognitive Impairment and Evokes a Central and Peripheral Pro-Inflammatory Transcriptional Profile in an Animal Model of Alzheimer's Disease

Supplementary Table 1. Primers used for RT qPCR. All primers target mouse genes.

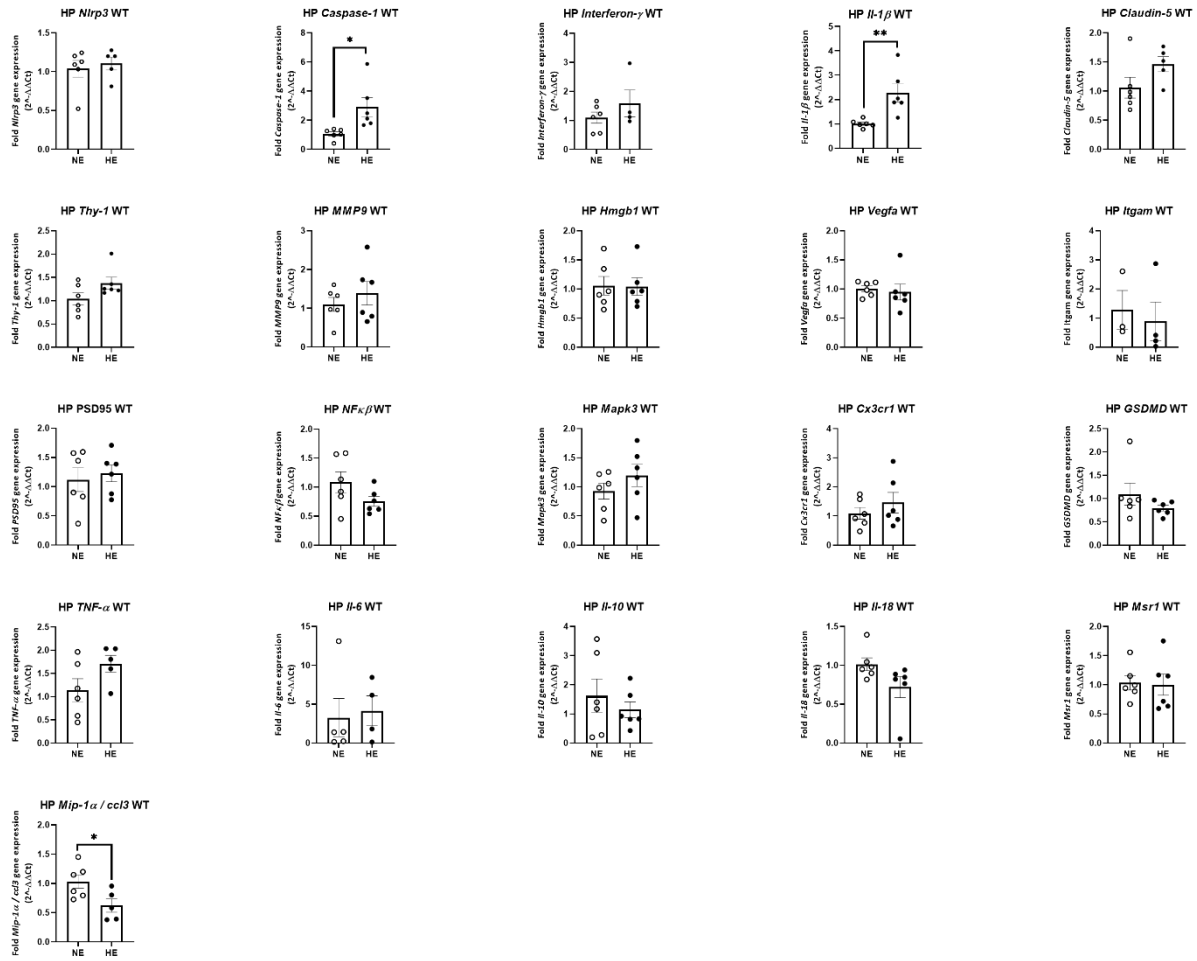
| Gene | Primer, 5' -> 3' | |
|----------------------|-------------------------|---------------------------|
| | Forward | Reverse |
| Hprt | CCCCAAAATGGTTAAGGTTGC | AACAAAGTCTGGCCTGTATCC |
| Nlrp3 | AGAAGAGACCACGGCAGAA | CCTTGGACCAGGTTTCAGTGT |
| Interferon- γ | GAGGAACTGGCAAAAGGATGG | TCATTGAATGCTTGGCGCTG |
| Caspase-1 | CACATTTCCAGGACTGACTGG | AGACGTGTACGAGTGGTTGT |
| Il-1 β | TTCAGGCAGGCAGTATCACTC | CCACGGGAAAGACACAGGTAG |
| Il-10 | GCTCTTACTGACTGGCATGAG | CGCAGCTCTAGGAGCATGTG |
| Nfk β | CTGGTGGACACATACAGGAAGAC | ATAGGCACTGTCTTCTTTTCACCTC |
| Il-6 | CACAAGTCCGGAGACCAGAC | CAGAATTGCCATTGCACAAC |
| Tnf- α | CCCTCACACTCAGATCATCTTCT | GCTACGACGTGGGCTACAG |
| Hmgb1 | TTCATTTCTCTTTCATAACGAG | TCCAAGAAGTGCTCAGAGAGTG |
| IL-18 | GACTCTTGCGTCAACTTCAAGG | CAGGCTGTCTTTTGTCAACGA |
| GSDMD | AGTGCTCCAGAACCAGAACC | ACTCTGCCCTGAATGTTCCC |
| Claudin 5 | TTTCTTCTATGCGCAGTTGG | GCAGTTTGGTGCCTACTTCA |
| Vegfa | ATTCAGCGGACTCACCAGC | GCAGCCTGGGACCACTTG |
| Itgam | CAGTGCTGGGAGACGTGAAT | GTCCACGCAGTCCGGTAAAA |
| Thy 1 | CTCCTGCTCTCAGTCTTGCAG | TATTCTCATGGCGGCAGTCC |
| Cx3cr1 | CCATCTGCTCAGGACCTCAC | CACCAGACCGAACGTGAAGA |
| PSD95 | GGGCCACGAAGCTGGAGCAG | CCAGGTGGTGGAGGCAGGGT |
| Mapk3 | TATCAACACCACCTGCGACC | GGATTTGGTGTAGCCCTTGGA |
| MMP9 | CAGCCGACTTTTGTGGTCTTC | ATAGCGGTACAAGTATGCCTCTG |
| MSR1 | AGTGCTGTCTTCTTACCAGC | GGGGCCATTTTATGTGCTGTG |
| MIP-1 α /CCL3 | GCAACCAAGTCTTCTCAGCG | TCTCTTAGTCTTCTCAGCG |



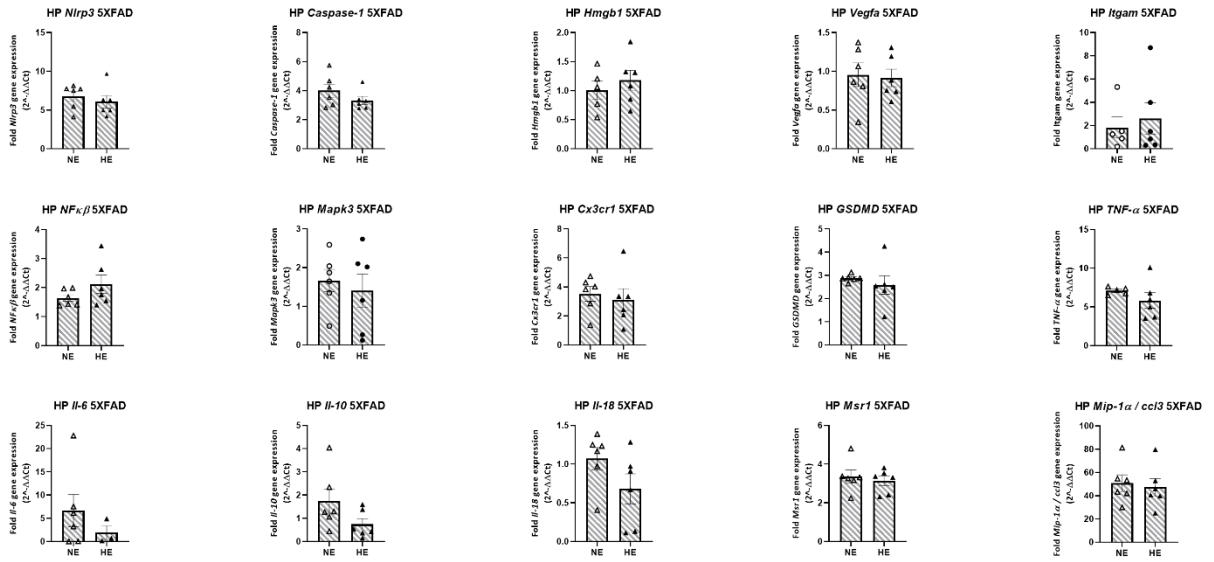
Supplementary Figure 1. Significantly differentially expressed genes of enriched canonical pathways, as identified by Ingenuity Pathway Analysis in the blood of 5XFAD mice.



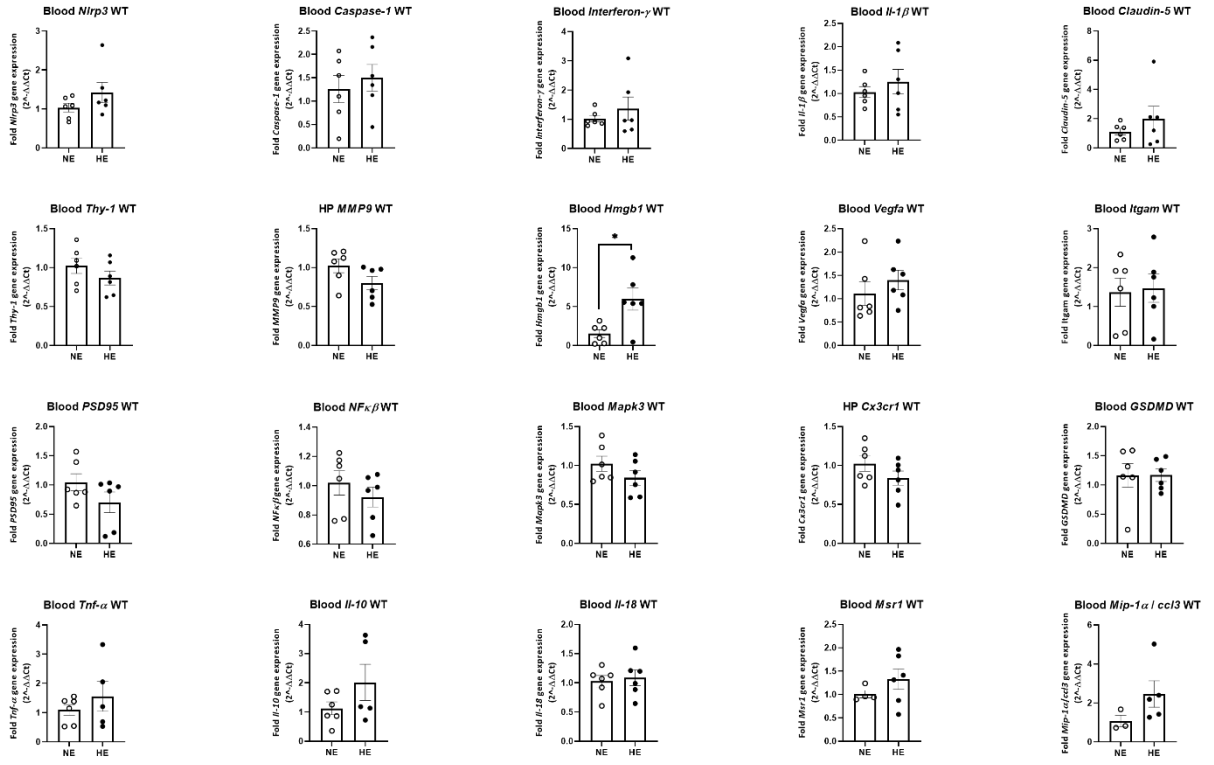
Supplementary Figure 2. Significantly differentially expressed genes of enriched canonical pathways, as identified by Ingenuity Pathway Analysis in the hippocampus of 5XFAD mice.



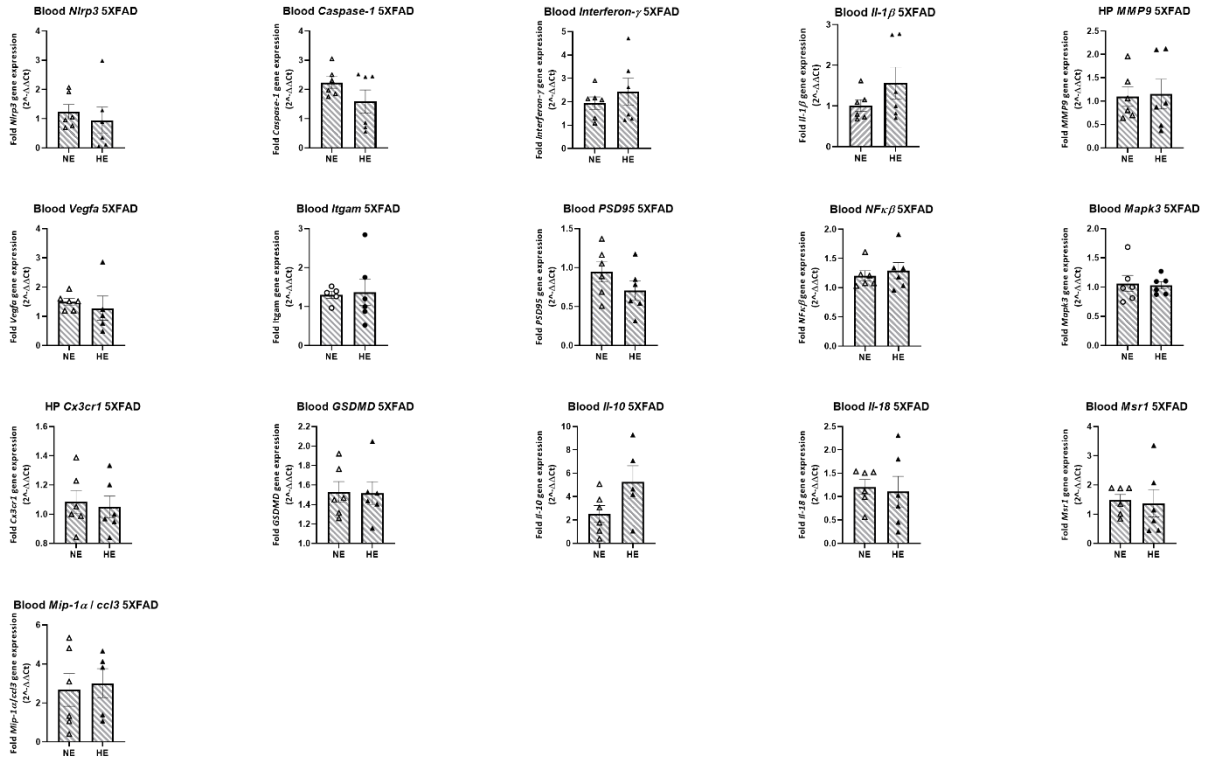
Supplementary Figure 3. Gene validation by RT qPCR in Hippocampus of WT animals.



Supplementary Figure 4. Gene validation by RT qPCR in Hippocampus in 5XFAD animals.



Supplementary Figure 5. Gene validation by RT qPCR in Blood in WT animals.



Supplementary Figure 6. Gene validation by RT qPCR in blood in 5XFAD animals.