**Suppl. Table 1 : Statistical information (F statistics and p values) of data in Figs. 1, 2, 3, 4.**

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| --- | --- | --- | --- |
| Figure | Experiment | F-statistic | p-value |
| 1A | One-way ANOVAIfn-ϒ mRNA levels in the spleen of F1 male rats (AD, PF, AF)AD vs AF PF vs AFAD vs PF | Alcohol : F (2,21)=6.65 | P<0.01P<0.01 \*\*P<0.05 \*p>0.05 (ns) |
| 1B | One-way ANOVAIfn-ϒ mRNA levels in the spleen of F1 female rats (AD, PF, AF)AD vs AF PF vs AFAD vs PF | Alcohol : F(2,21)=23.02 | P<0.0001P<0.001 \*\*\*P<0.001 \*\*\*p>0.05 (ns) |
| 1D | Two-way ANOVAIfn-ϒ promoter DNA methylation at various CpGs in F1 male rats (AD, PF,AF)CpG1 : AD vs AF PF vs AF AD vs PFCpG2 : AD vs AF PF vs AF AD vs PFCpG3 : AD vs AF PF vs AF AD vs PFCpG4 : AD vs AF PF vs AF AD vs PF | Alcohol : F(2,78)=23.74CpGs : F(3,78)=9.53Interaction: F(6,78)=0.56 | P<0.0001P<0.0001P=0.760p>0.05p>0.05 nsp>0.05p>0.05p<0.01 \*\*p>0.05 p<0.01 \*\*p<0.001 \*\*\*p>0.05 p<0.05 \*p<0.01 \*\*p>0.05 |
| 1E | Two-way ANOVAIfn-ϒ promoter DNA methylation at various CpGs in F1 female rats (AD, PF,AF)CpG1 : AD vs AF PF vs AF AD vs PFCpG2 : AD vs AF PF vs AF AD vs PFCpG3 : AD vs AF PF vs AF AD vs PFCpG4 : AD vs AF PF vs AF AD vs PF | Alcohol : F(2,84)=17.51CpGs : F(3,84)=17.53Interaction: F(6,84)=1.15 | P<0.0001P<0.0001P=0.342p<0.001 \*\*\*p<0.001 \*\*\*p>0.05p>0.05p<0.01 \*\*p>0.05p>0.05p>0.05 nsp>0.05p>0.05p>0.05 nsp>0.05 |
| 1F | One-way ANOVAIfn-ϒ protein levels in the spleen of F1 male rats (AD, PF, AF)AD vs AF PF vs AFAD vs PF | Alcohol : F(2,24)=6.35 | P<0.01P<0.01 \*\* P<0.05 \*p>0.05 (ns) |
| 1G | One-way ANOVAIfn-ϒ protein levels in the spleen of F1 female rats (AD, PF, AF)AD vs AF PF vs AFAD vs PF | Alcohol : F(2,27)=10.23 | P<0.001P<0.01 \*\*P<0.001 \*\*\*p>0.05 (ns) |
| 2C | One-way ANOVAIfn-ϒ mRNA levels in the spleen of F2 male rats (AD, PFF, PFM, AFF, AFM)AD vs AFM PFM vs AFMAD vs AFFPFF vs AFFAD vs PFFAD vs PFMPFF vs PFM | Alcohol : F(4,36)=9.24 | P<0.0001P<0.01 \*\*P<0.01 \*\*p>0.05 nsp>0.05 nsp>0.05p>0.05 nsp>0.05 |
| 2D | One-way ANOVAIfn-ϒ mRNA levels in the spleen of F2 female rats (AD, PFF, PFM, AFF, AFM)AD vs AFM PFM vs AFMAD vs AFFPFF vs AFFAD vs PFFAD vs PFMPFF vs PFM | Alcohol : F(4,35)=4.43 | P<0.01p>0.05 nsp<0.05 \*p>0.05 nsp>0.05 nsp>0.05p<0.05 ns p>0.05 |
| 2E | One-way ANOVAIfn-ϒ mRNA levels in the spleen of F3 male rats (AD, PFF, PFM, AFF, AFM)AD vs AFM PFM vs AFMAD vs AFF PFF vs AFF AD vs PFFAD vs PFMPFF vs PFM | Alcohol : F(4,35)=22.73 | P<0.0001P<0.001 \*\*\*P<0.001 \*\*\*p>0.05 nsp>0.05 nsp>0.05p>0.05 nsp>0.05 |
| 2F | One-way ANOVAIfn-ϒ mRNA levels in the spleen of F3 female rats (AD, PFF, PFM, AFF, AFM)AD vs AFM PFM vs AFMAD vs AFFPFF vs AFFAD vs PFFAD vs PFMPFF vs PFM | Alcohol : F(4,35)=1.71 | p>0.05p>0.05 nsp>0.05 ns p>0.05 nsp>0.05 nsp>0.05p>0.05 nsp>0.05 |
| 3A | Two-way ANOVAIfn-ϒ promoter DNA methylation at various CpGs in F2 male rats (AD, PFF, PFM, AFF, AFM)CpG1 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG2 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG3 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG4 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFM | Alcohol : F(4,28)=17.7CpGs : F(3,128)=30.64Interaction:F(12,128)=0.465 | P<0.0001P<0.0001P=0.932P<0.001 \*\*\* p>0.001 \*\*\* p>0.05 (ns)p>0.05 (ns) p<0.001 \*\*\*p<0.01 \*\*p>0.05 (ns)p>0.05 (ns)p<0.01 \*\*p<0.05 \*p>0.05 (ns)p>0.05 (ns)p<0.05 \*p<0.05 \*p>0.05 (ns)p>0.05 (ns)  |
| 3B | Two-way ANOVAIfn-ϒ promoter DNA methylation at various CpGs in F2 female rats (AD, PFF, PFM, AFF, AFM)CpG1 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG2 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG3 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG4 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFM | Alcohol : F(4,136)=5.41CpGs : F(3,136)=104Interaction : F(12,136)=1.07 | P<0.001P<0.0001P=0.395P>0.05 ns P>0.05 nsP>0.05 (ns)p>0.05 (ns)P>0.05 ns P>0.05 nsP>0.05 (ns)p>0.05 (ns)P>0.05 ns P>0.05 nsP>0.05 (ns)p>0.05 (ns)P>0.05 ns P>0.05 nsP>0.05 (ns)p>0.05 (ns) |
| 3C | Two-way ANOVAIfn-ϒ promoter DNA methylation at various CpGs in F3 male rats (AD, PFF, PFM, AFF, AFM)CpG1 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG2 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG3 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG4 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFM | Alcohol : F(4,126)=13.01CpGs : F(3,126)=54.01Interaction : F(12,126)=1.19 | P<0.0001P<0.0001P=0.298p>0.05 nsp<0.05 \*p>0.05 (ns)p>0.05 (ns)p<0.05 \*p>0.05 nsp>0.05 (ns)p>0.05 (ns)p>0.05 nsp>0.05 nsp>0.05 (ns)p>0.05 (ns)p<0.001 \*\*\* p<0.001 \*\*\*p>0.05 (ns)p>0.05 (ns) |
| 3D | Two-way ANOVAIfn-ϒ promoter DNA methylation at various CpGs in F3 female rats (AD, PFF, PFM, AFF, AFM)CpG1 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG2 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG3 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFMCpG4 : AD vs AFM PFM vs AFM AD/PFF vs AFF AD vs PFF/PFM | Alcohol : F(4,133)=5.99CpGs : F(3,133) =126.3Interaction : F(12,133)=0.35 | P<0.001P<0.0001P=0.977P<0.01 \*\*p>0.05 nsp>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p<0.05 \*p>0.05 (ns)p>0.05 (ns)p>0.05 (ns) |
| 4A | One-way ANOVAIfn-ϒ protein levels in the spleen of F2 male rats (AD, PFF, PFM, AFF, AFM)AD vs AFM PFM vs AFMAD vs AFFPFF vs AFFAD vs PFFAD vs PFMPFF vs PFM | Alcohol : F(4,25)=9.95 | P<0.0001P<0.001 \*\*\*P<0.01 \*\*p>0.05 (ns)p>0.05 (ns) p>0.05p>0.05 (ns)p>0.05 |
| 4B | One-way ANOVAIfn-ϒ protein levels in the spleen of F2 female rats (AD, PFF, PFM, AFF, AFM)AD vs AFM PFM vs AFMAD vs AFFPFF vs AFFAD vs PFFAD vs PFMPFF vs PFM | Alcohol : F(4,30)=0.196 | p>0.05p>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p>0.05p>0.05 (ns)p>0.05   |
| 4C | One-way ANOVAIfn-ϒ protein levels in the spleen of F3 male rats (AD, PFF, PFM, AFF, AFM)AD vs AFM PFM vs AFMAD vs AFFPFF vs AFFAD vs PFFAD vs PFMPFF vs PFM | Alcohol : (4,30)=5.12 | P<0.01P<0.05 \*P<0.05 \*p>0.05 (ns)p>0.05 (ns)p>0.05p>0.05 (ns)p>0.05  |
| 4D | One-way ANOVAIfn-ϒ protein levels in the spleen of F3 female rats (AD, PFF, PFM, AFF, AFM)AD vs AFM PFM vs AFMAD vs AFFPFF vs AFFAD vs PFFAD vs PFMPFF vs PFM | Alcohol : (4,30)=0.328  | p>0.05p>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p>0.05 (ns)p>0.05p>0.05 (ns)p>0.05  |

(\*, \*\*, \*\*\* significant at p<0.05, 0.01, 0.001. ns=no significance)