

Figure 1

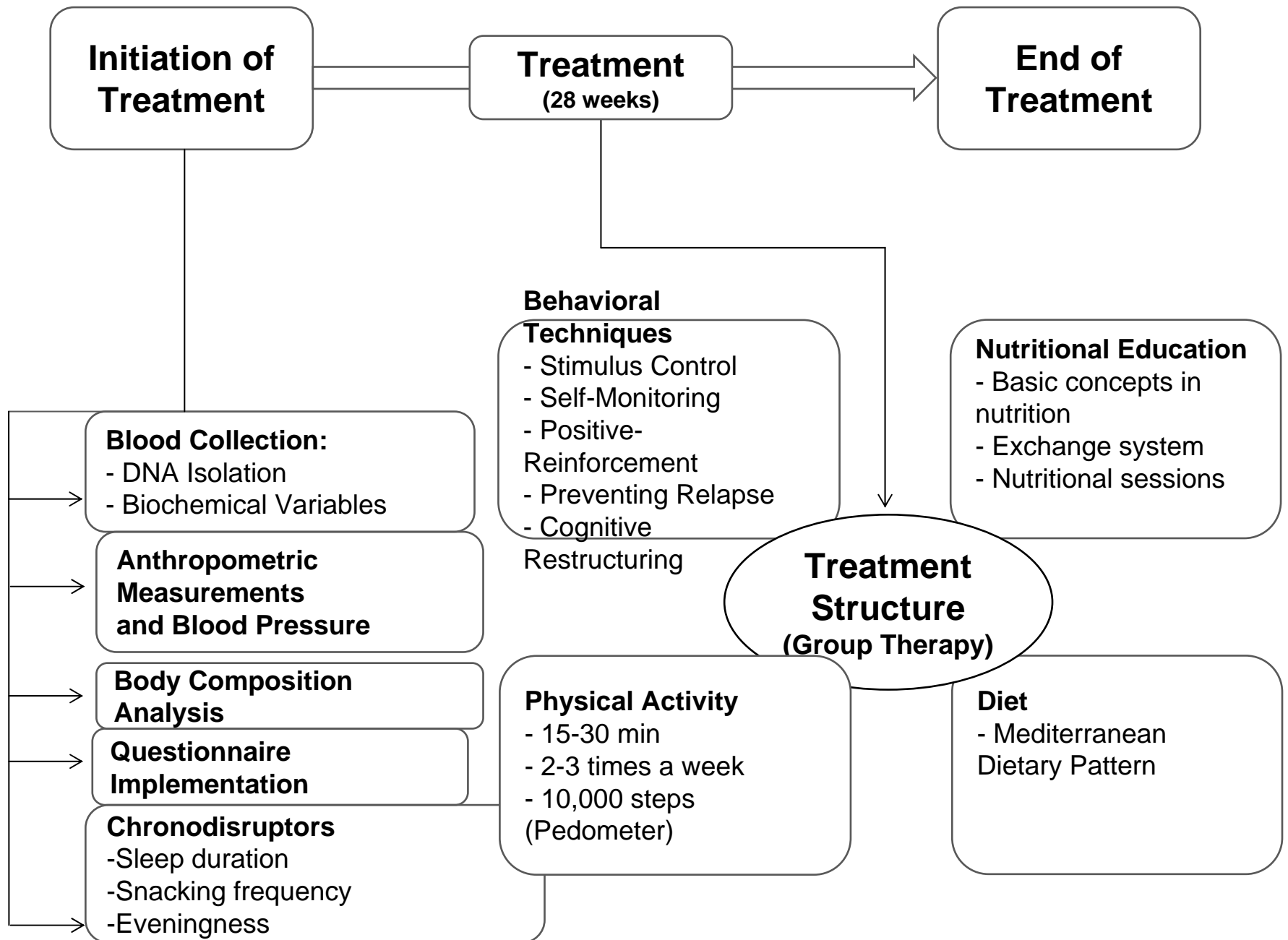
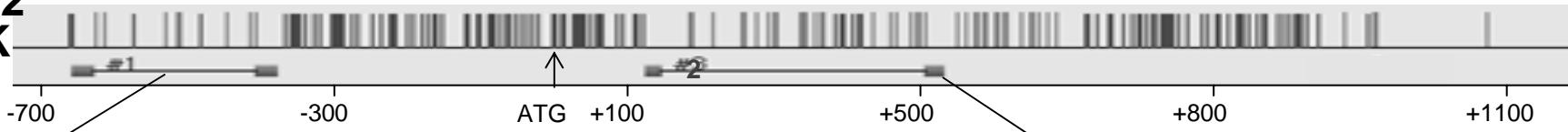


Figure 2 CLOCK



CLOCK-R1 chr4:56,413,388-56,413,617

```

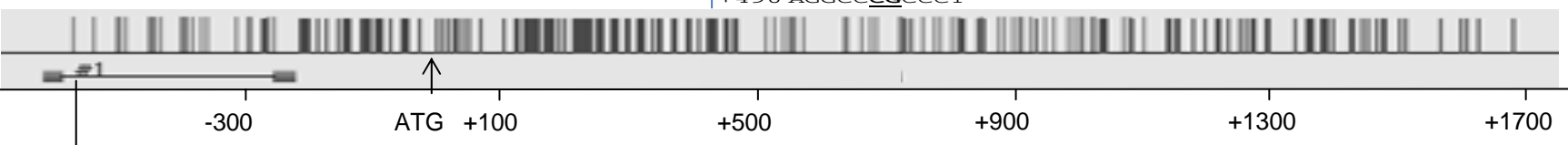
-620 TGT TACTGG1CGTCCAGG2CGCC TTTGCAACTCTTCTCTCC CAGCACCAGG
-570 AGAGGAAACAC3CGAATGATGCCACTGGGGGAAAAAGTCTCCTGCCAACACC
-520 4CGAAAAATCTAAGCTGG5-6CGTCCGGCAGTGT TTTGCTTTTGG AAGGGAGAG7CG
-470 GGTTCCTTTTCTGGCCTCTGGATCCCTCATC8CGGCAGGAAGCTCTTCTTCTC
-420 CTCCTCCTAGCCCC9CGGCATA10CGGGGGGAA
  
```

CLOCK-R2 chr4:56,412,488-56,412,858

```

+140 GGGGAAGGGAAGGGAGGGGGAGGAGAGCTGGCCACAGGAG1CG2CGAATT
+190 TTTGGGGGGGTGGGTGGGGGG3CGCCACTCACAGCCCCAGGTGCTGCTGGAG
+240 GTGGGAGC4CG5CG6CG7CGCTCCTGGACACAGG8CGGGGTAGTGGTTC9CGAGT
+290 CAC10CG11CG12CG13CG14CG15CG16CG17CG18CG19CG
+340 AAGCCACA20CG21CG22CG23CG24CG25CG26CG27CG28CG
+390 TGTGGGGCC29CG30CG31CG32CG33CG34CG35CG36CG37CG38CG
+440 CCAAGTTTGG39CG40CG41CG42CG43CG44CG45CG46CG47CG48CG
+490 AGGCC49CG50CGCCCT
  
```

BMAL1



BMAL-R1 chr11:13,298,705-13,29,034

```

-620 GGATTTTAGGAAGGGTCTGGCACTCAA1CGTTCTAAAATTTGGTTTCCTAG
-570 ATGGAGC2CGGAGGGAGAGAGGGAGTCAGGAAC TGTGCTTTT3CG4CGEAA
-520 TGCC5CGGAGGGGAGAAGAAGAAGGAGGAGGGGTGAGGG6CG7CGSCAAA
-470 8CGCCAGC9CGGCAGGGGACCCAGAGAAGAGGGACATC10CG11CG12CGACCC13CGA
-420 GGAG14CG15CGBCTTGGGCAC16CG17CGCTAGTGGGAGACCTGAGG
-370 GGAAAGGGAGAGGGCAGGG18CGGAGGAACCCAGGGAG19CG20CG21CG22CGSATTTGGT
-320 CCTCTCCT23CG24CG25CG26CGCTCCTGTG27CG
  
```

PER2



PER2-R1 chr2:239,196,718-239,197,098

```

+109 TGGAGAGTGGT1CGAGC2CG3CG4CGCAGGGT5CG6CGTTTGAACTG7CGGTGA
+159 CAC8CG9CG10CG11CG12CG13CG14CG15CG16CG17CG18CG19CG20CG21CG
+209 GTC22CG23CG24CG25CG26CG27CG28CG29CG30CG31CG32CG33CG34CG35CG36CG37CG38CG39CG40CG
+259 41CG42CG43CG44CG45CG46CG47CG48CG49CG50CG51CG52CG53CG54CG55CG56CG57CG58CG59CG60CG
+309 CCT61CG62CG63CG64CG65CG66CG67CG68CG69CG70CG71CG72CG73CG74CG75CG76CG77CG78CG79CG80CG
+359 GGATCTGGAGGACCCT81CG82CG83CG84CG85CG86CG87CG88CG89CG90CG91CG92CG93CG94CG95CG96CG97CG98CG99CG100CG
+409 CTAAGTCTGGGCTGGGGAAAGGGCCATGGAGGGG101CG102CG103CG104CG105CG106CG107CG108CG109CG110CG
+459 TTTCTGGACACCCAC111CG112CG113CG114CG115CG116CG117CG118CG119CG120CG
  
```

Figure 3

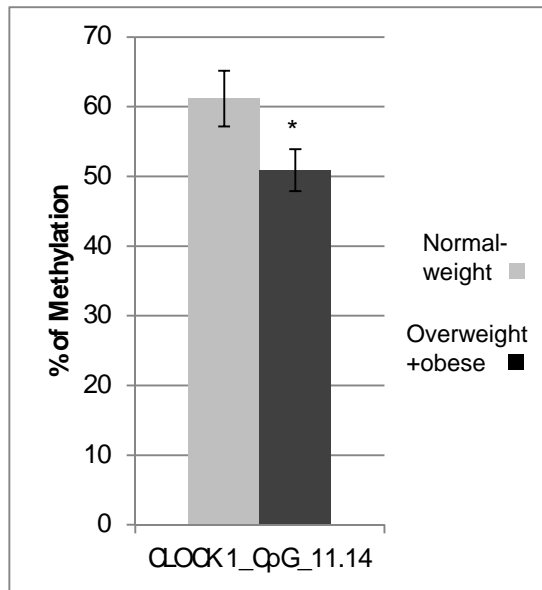
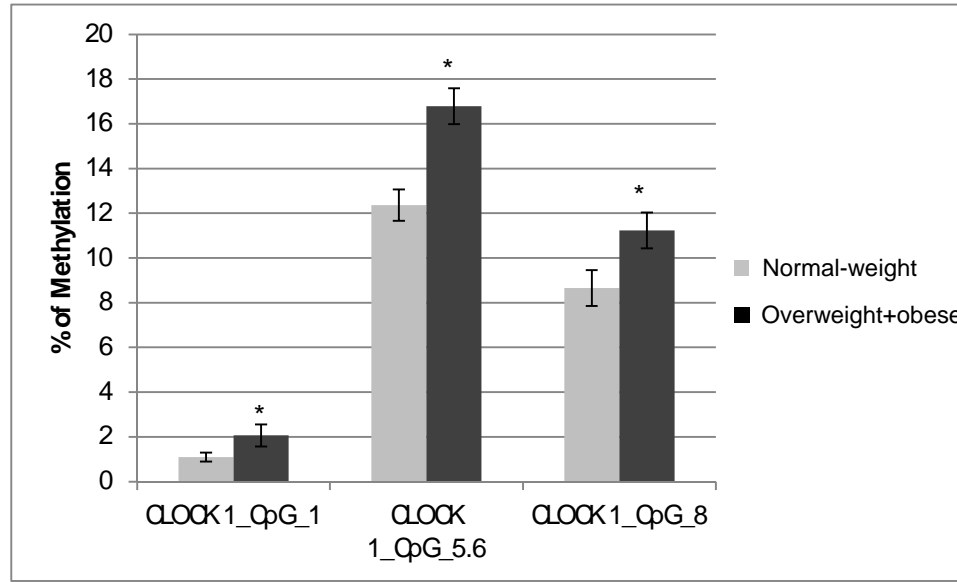
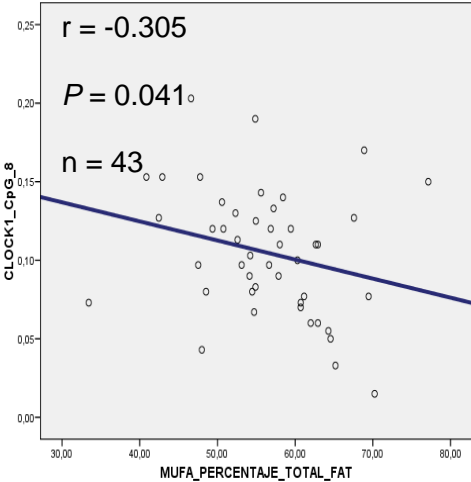
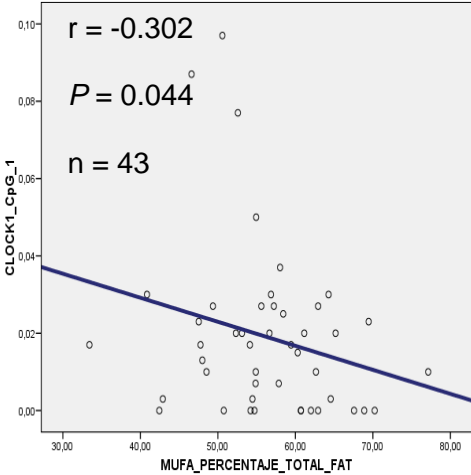


Figure 4

A



B

