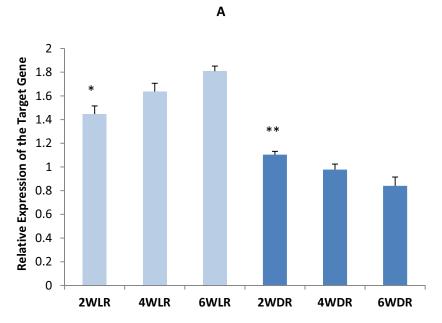
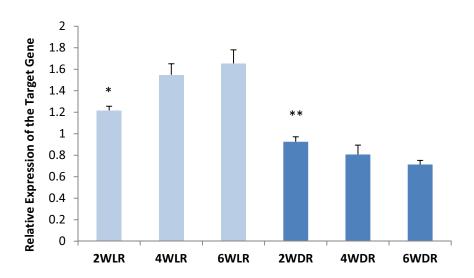
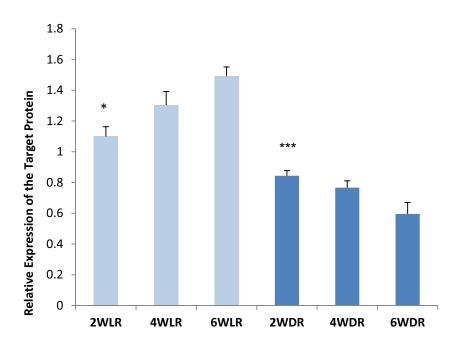
Table 1) Specifications of Primers Related to Melatonin Receptor Gene

| Gene size | Gene Melting Temperature | Primer Sequencing |
|--|---------------------------------|---------------------------------------|
| (Kbase) | (°C) | |
| HPRT Gene (NCBI Reference Sequence Data Base: NM_012583.2) | | |
| 172 | 60 | For: 5'-GGTCCATTCCTATGACTGTAGATTTT-3' |
| | | Rev: 5' CAATCAAGACGTTCTTTCCAGTT-3' |
| MT1 Gene (NCBI Reference Sequence Data Base: NM_053676.2) | | |
| 262 | 59.5 | For: 5'-CTGAGTGTCATTGGCTCGGT-3' |
| | | Rev: 5'-AATGGAAAACCACCAGGGCA-3' |
| MT2 Gene (NCBI Reference Sequence Data Base: NM_001100641.1) | | |
| 146 | 58.5 | For: 5'-CAGACAGCCAGCACCCAATA-3' |
| | | Rev: 5'-AGGCGTAGCTTTCTCTCAGC-3' |







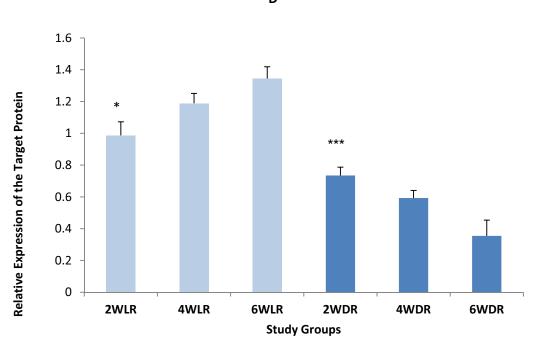


Diagram 1) Relative Expressions of MT1 Receptor Gene (A), MT2 Receptor Gene (B), MT1 Receptor Protein (C), and MT2 Receptor Protein (D) in Hippocampus of the Animals in Different Groups (*Significant difference between groups 2WLR and 6WLR (p<0.001); **significant difference between groups 2WDR and 6WDR (p<0.01);***significant difference between groups 2WDR and 6WDR (p<0.001); Inter-group comparison, also, showing significant difference between matched groups in darkness and lightness with (p<0.001))