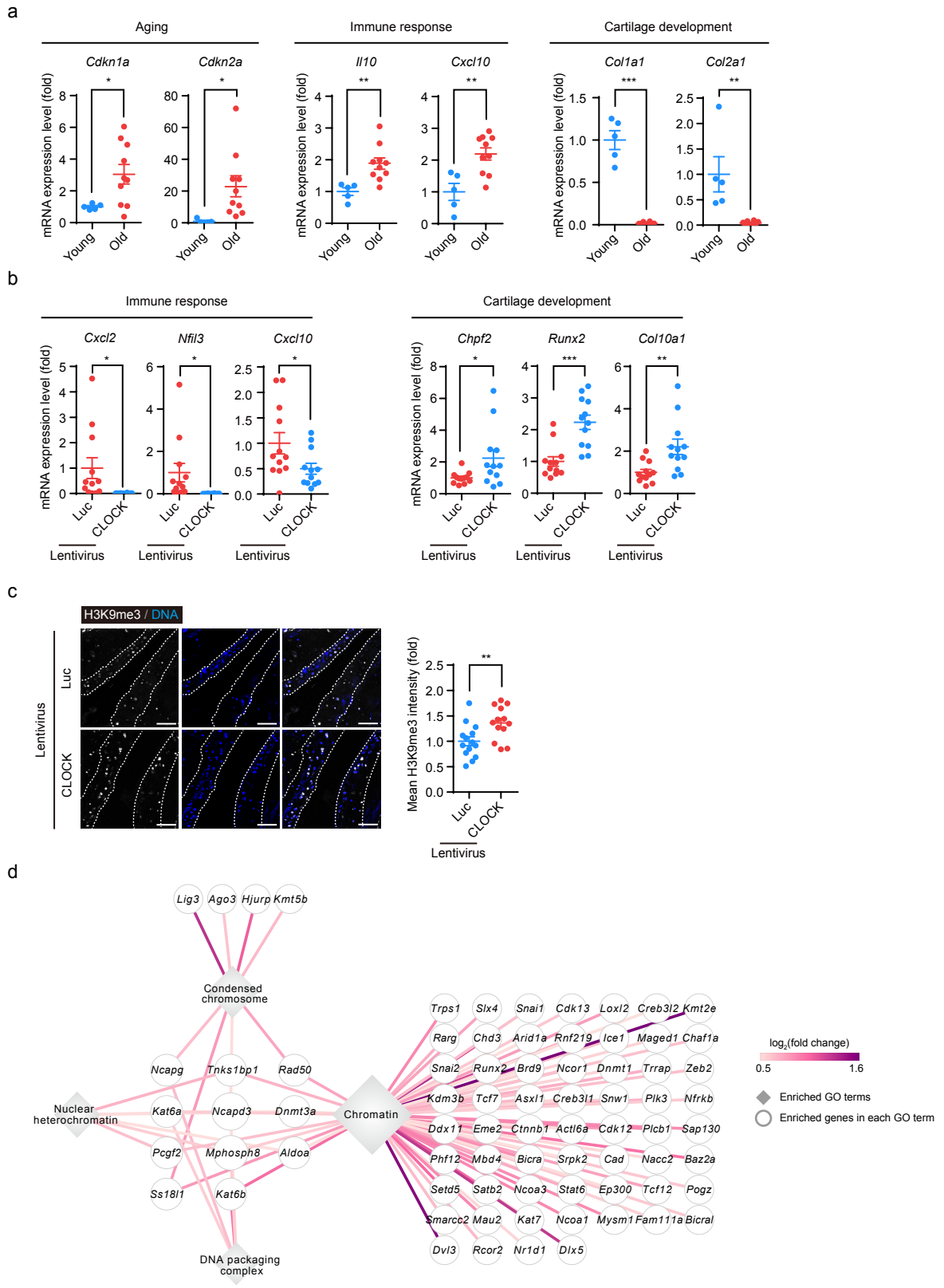


Figure S6



Supplementary information, Fig. S6 CLOCK alleviates osteoarthritis of aged mice. **a** RT-qPCR analysis of the indicated genes in the joints of young mice ($n = 5$ mice) and old mice ($n = 10$ mice). Data are presented as means \pm SEM. $*p < 0.05$; $**p < 0.01$; $***p < 0.001$ (Two-tailed unpaired Student's t -test). **b** RT-qPCR analysis results of the indicated genes in the joints of aged mice injected with lentiviruses expressing Luc or CLOCK. Luc ($n = 12$ mice), CLOCK ($n = 12$ mice). Data are presented as means \pm SEM. $*p < 0.05$; $**p < 0.01$; $***p < 0.001$ (Two-tailed unpaired Student's t -test). **c** H3K9me3 staining of articular cartilage from aged mice injected with lentiviruses expressing Luc ($n = 14$ mice) or CLOCK ($n = 13$ mice). Quantitative data to the right are presented as means \pm SEM. Dashed lines indicates the articular cartilage surface in the joints of aged mice injected with lentiviruses expressing Luc or CLOCK. $**p < 0.01$ (Two-tailed unpaired Student's t -test). Scale bars, 50 μ m. **d** Network showing the expression levels for upregulated genes involved in "Condensed chromosome", "Nuclear heterochromatin", "DNA packaging complex" and "Chromatin" in the joints of aged mice injected with lentiviruses expressing CLOCK.