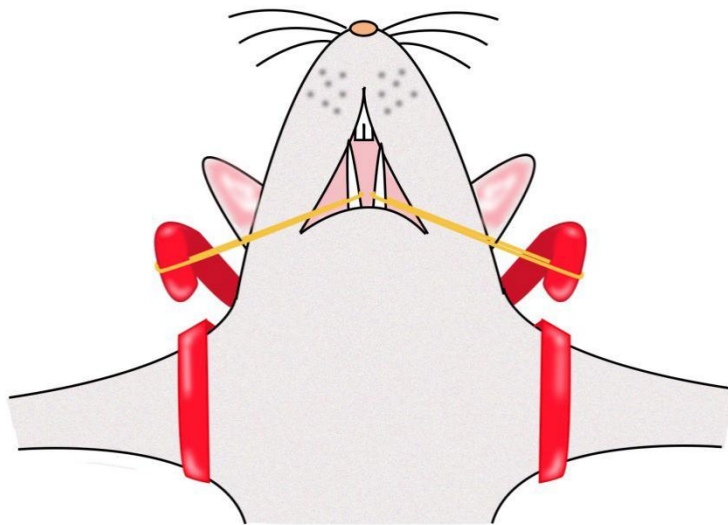
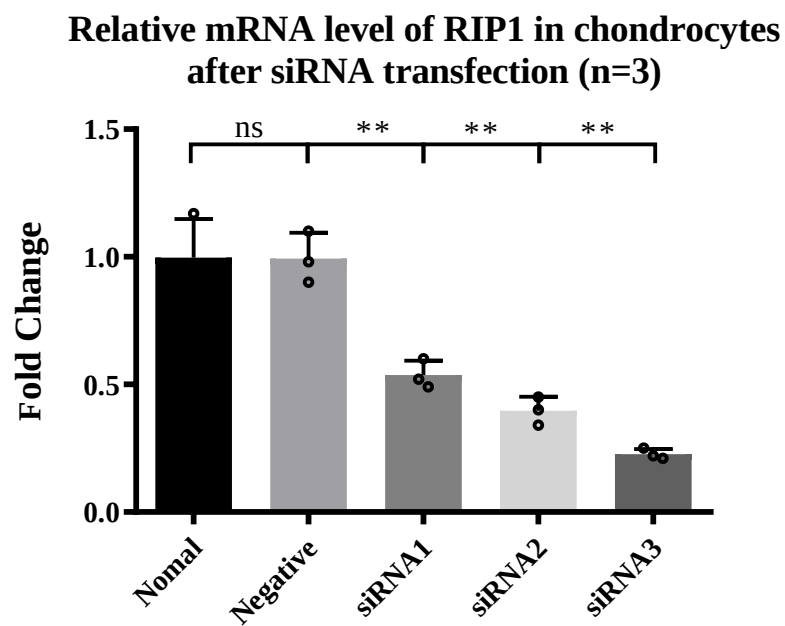


**Supplementary Figure 1.** The rat model of compressive mechanical stress induced TMJ OA.



**Supplementary Figure 2.** *In vitro* Screening of the optimal siRNA sequence targeting RIP1. Data were normalized based on GAPDH and expressed as mean  $\pm$  SD. (\*\*P<0.01, ns=no significant)



**Supplementary Table 1.** Primers used in real-time RT-PCR

| Gene          | Primer sequences (5'-3')       |
|---------------|--------------------------------|
| GAPDH         | Fwd:GCAAGTTCAACGGCACAG         |
|               | Rev:CCAGTAGACTCCACGACAT        |
| RIP1          | Fwd: GCACCAGCTGTCAGGGCCAG      |
|               | Rev: GCCCAGCTTTCGGGCACAGT      |
| TNF- $\alpha$ | Fwd: CCACGCTCTTCTGTCTACTG      |
|               | Rev: GCTACGGGCTTGTCACTCGA      |
| IL-1 $\beta$  | Fwd: CCAGGATGAGGACCCAAGCA      |
|               | Rev: TCCCGACCATTGCTGTTTCC      |
| Caspase-8     | Fwd: AGTTTCTGTTTTGGA TGAGGTGAC |
|               | Rev: TCTTCATTGGTAAACGTTGTCTGA  |
| RIP3          | Fwd: CTTGAACCCTTCGCTACTGC      |
|               | Rev: CGAGGACCCCAAACTGTAA       |