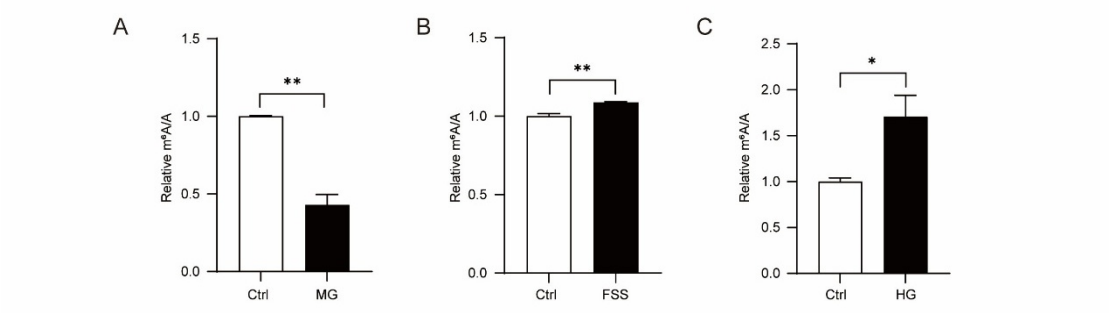


图 S1. 失重、剪切力和超重对 m^{6}A 水平的影响

Fig. S1. Effects of weightlessness, shear force and hypergravity (HG) on the m^{6}A level. *A*: The effect of simulated microgravity (MG) on m^{6}A level. *B*: The effect of fluid shear force (FSS) on m^{6}A level. *C*: The effect of HG on m^{6}A level. Mean ± SEM, n =3. $^{*}P < 0.05$, $^{**}P < 0.01$.

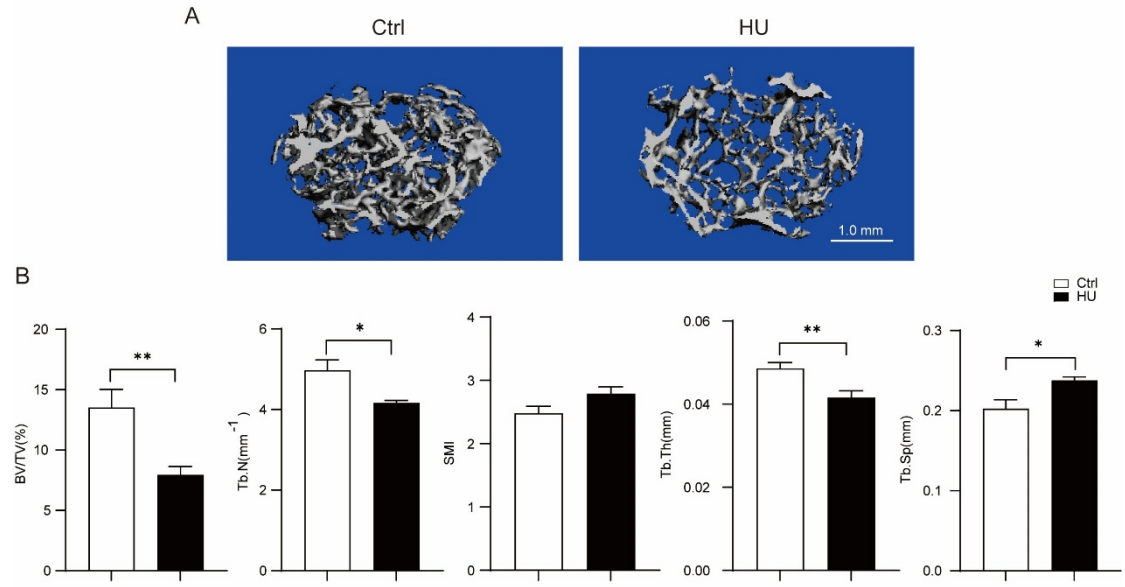


图 S2. 尾吊模拟失重小鼠骨量的变化

Fig. S2. Changes in bone mass of tail suspension simulated weightlessness mice. *A*: Bone mass of control and tail suspended mice detected by Micro CT. *B*: Changes in bone trabecular index of tail suspended mice. HU: hindlimb unloading. Scale bar, 1.0 mm. Mean ± SEM, n = 6. $^{*}P < 0.05$, $^{**}P < 0.01$.

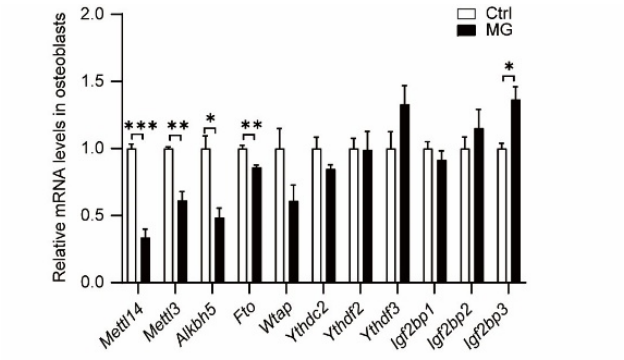


图 S3. 模拟失重条件下与 m^{6}A 修饰相关分子的表达水平

Fig. S3. Expression levels of molecules related to m^{6}A modification under simulated microgravity (MG) conditions. Mean ± SEM, $n = 3$. $^{*}P < 0.05$, $^{**}P < 0.01$, $^{***}P < 0.001$.