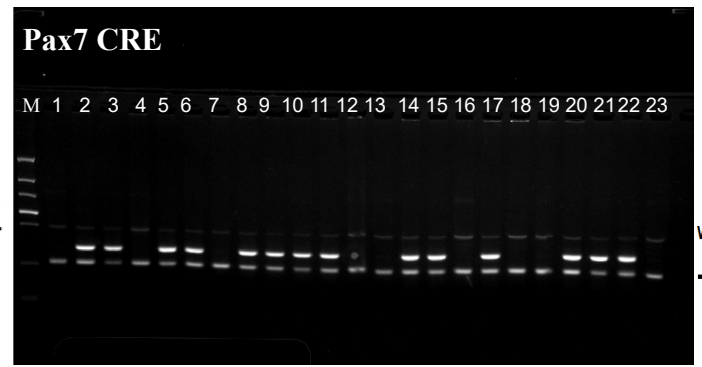
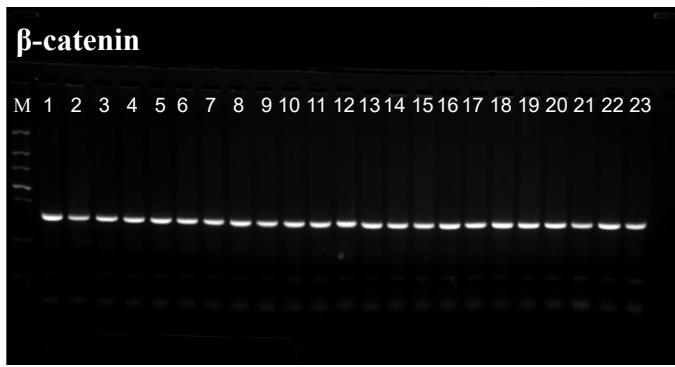
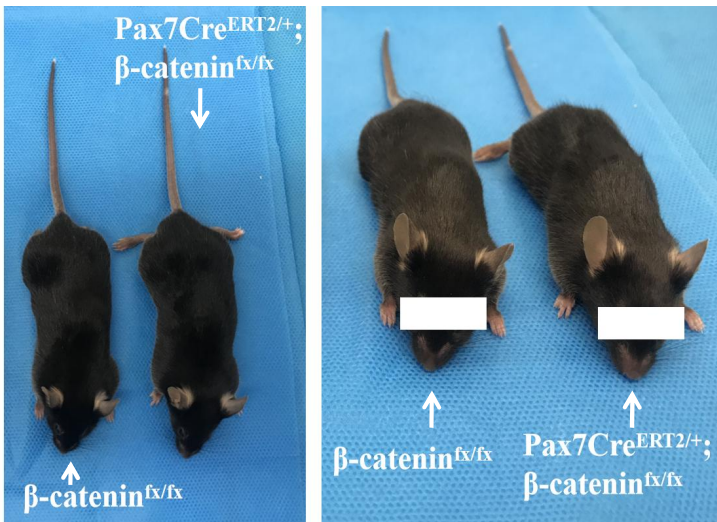
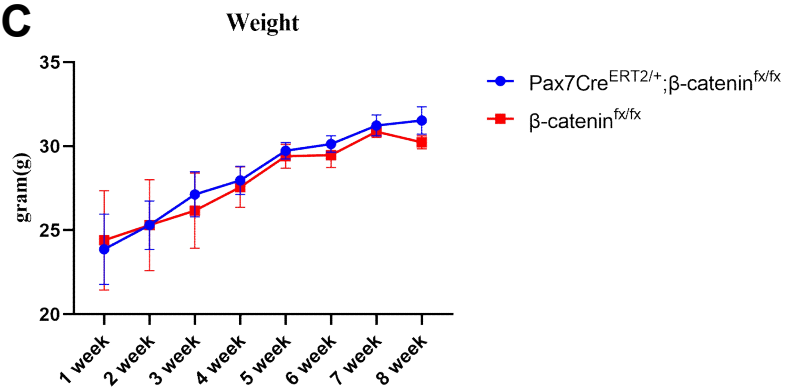
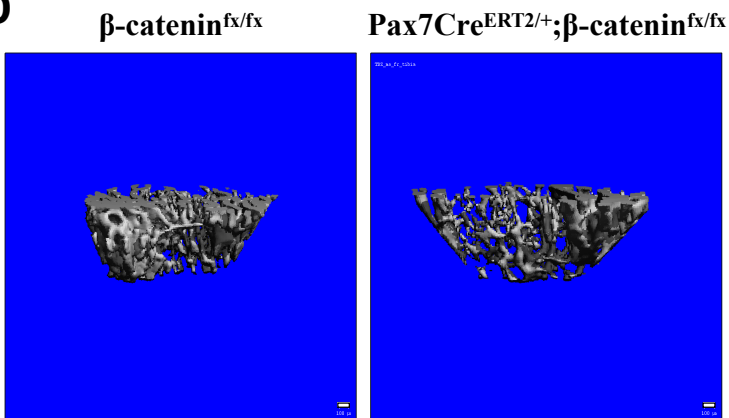
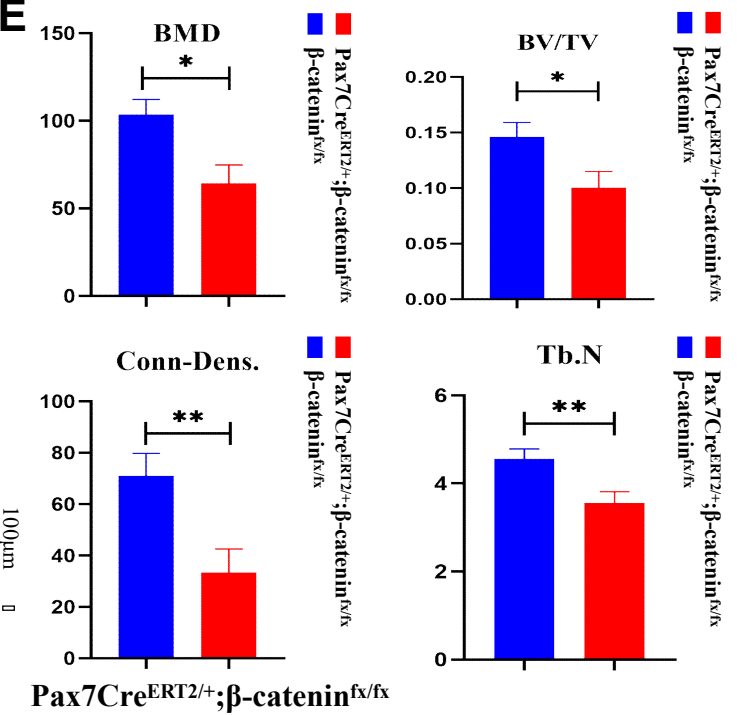
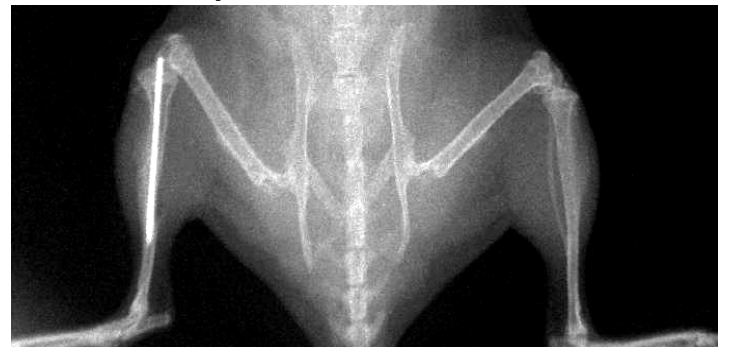
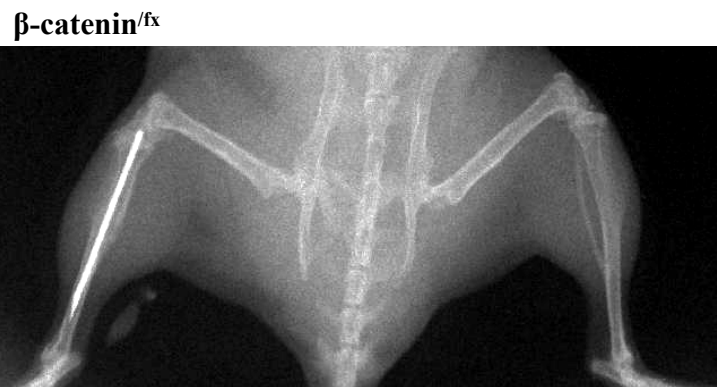
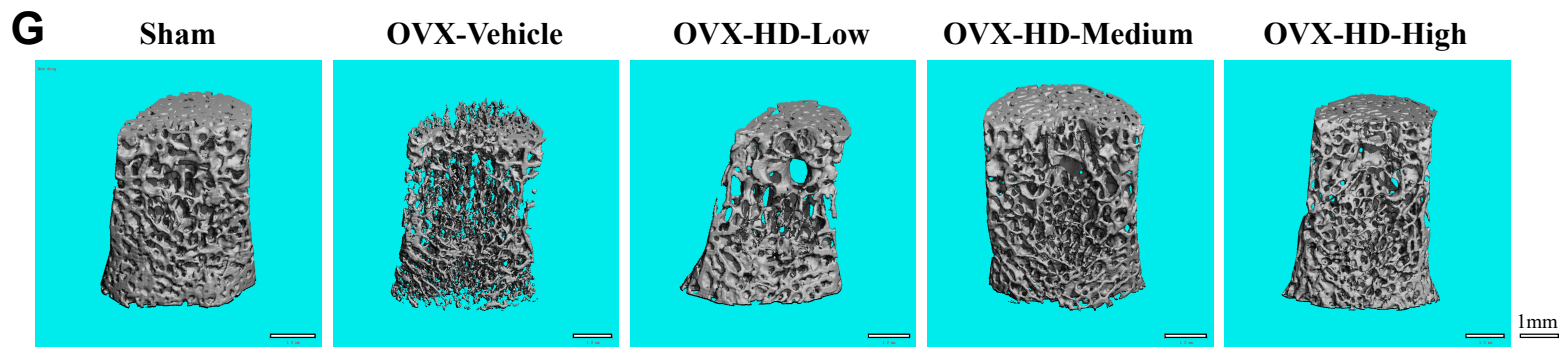
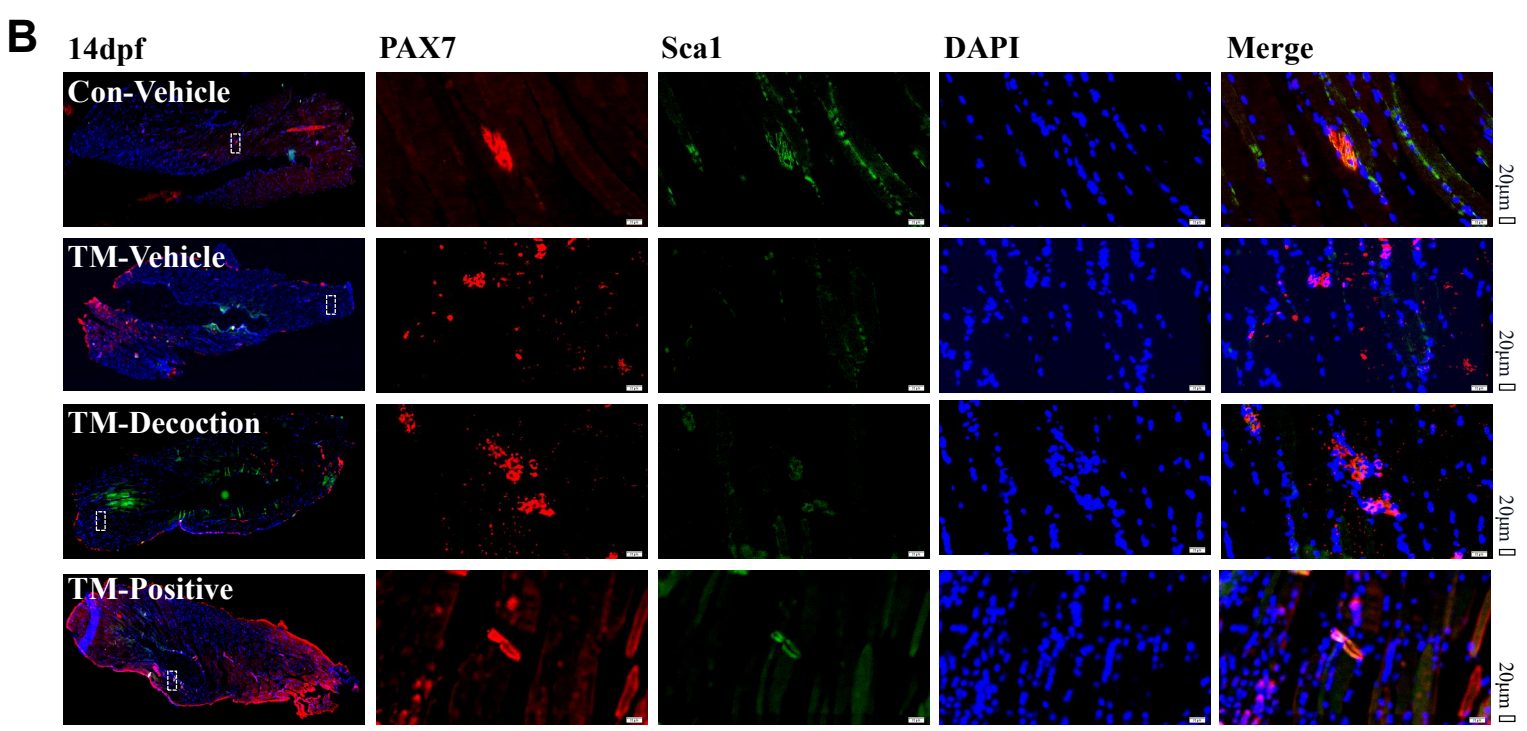
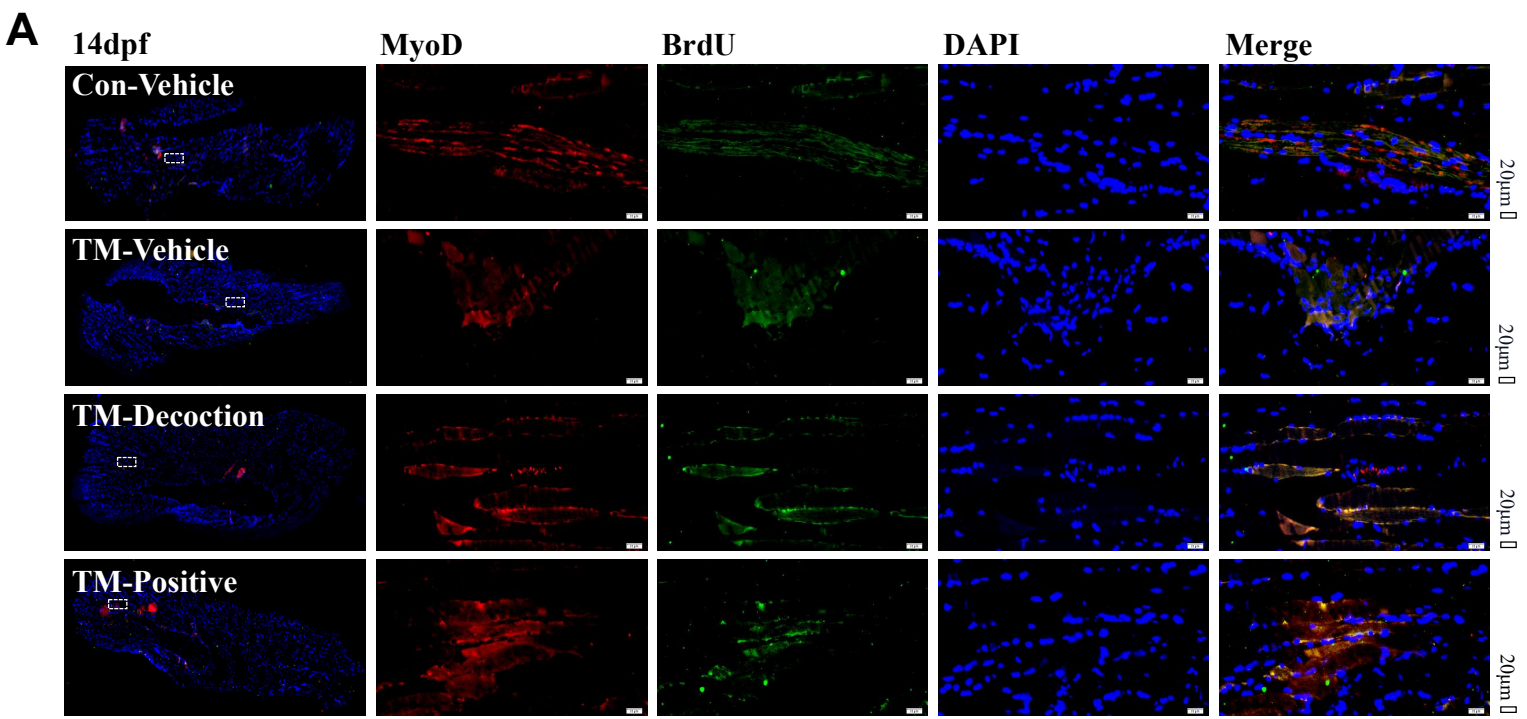


A**B****C****D****E****F****Supplemental figure 1**

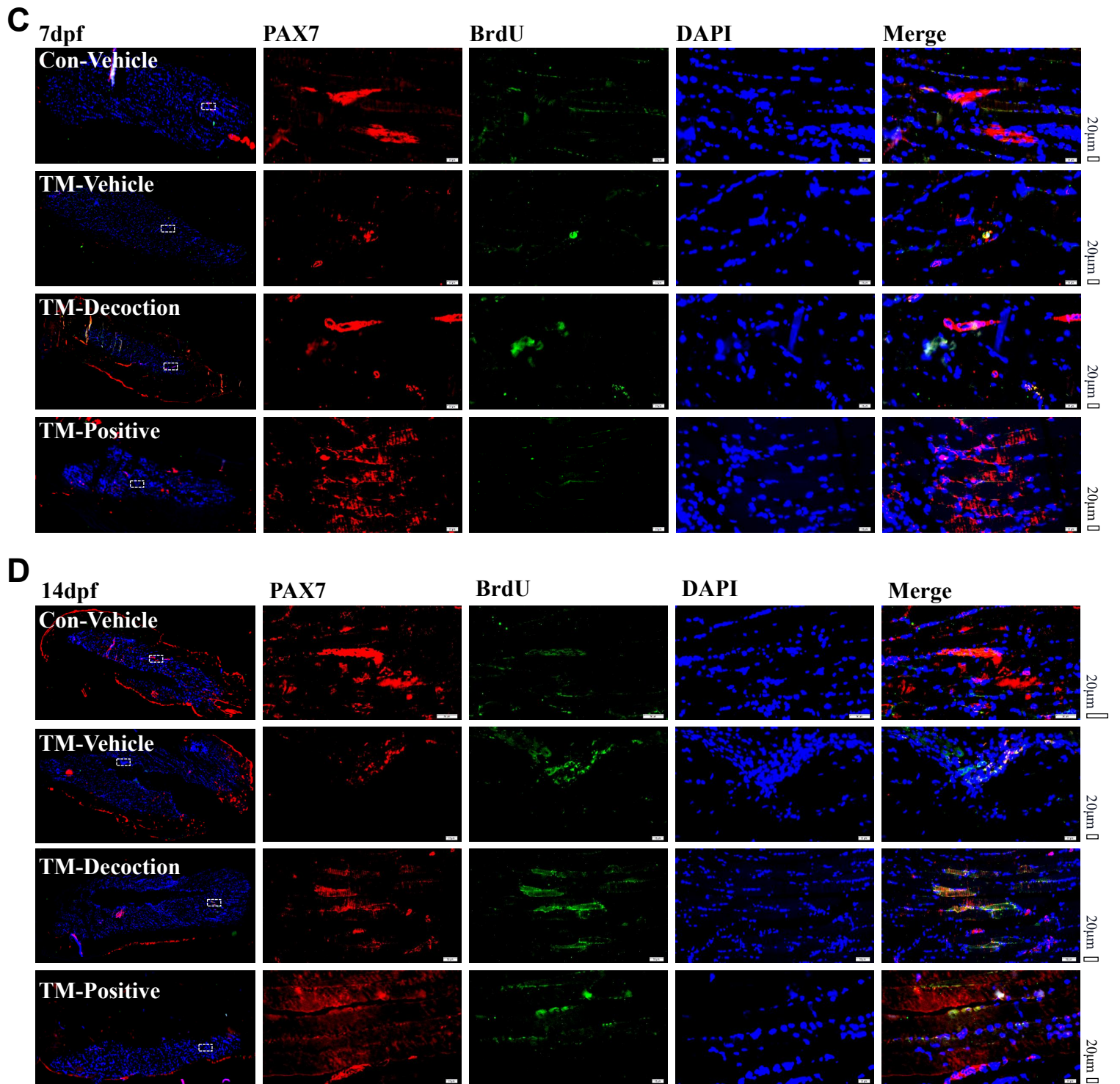


Supplemental figure 1

Supplemental figure 1 | (A) Agarose gel electrophoresis. (B) We monitored general signs, including body weight. (C) No significant difference in body weight was seen between the two groups of mice. (D) Through the Micro-CT detection of the tibia. (E) Pax7-Cre^{ERT2/+}; β -catenin^{fx/fx} transgenic mice have significantly lower BMD than β -catenin^{fx/fx} transgenic mice, $**P < 0.01$; BV/TV, Conn-Dens and Tb.N is also lower than β -catenin^{fx/fx} transgenic mice, $*P < 0.05$. (F) Post-operative live imaging under anaesthesia. (G) The screening of the optimal dose group of the HD. OVX surgery was performed on 3-month-old female mice, and postoperatively, the treatment group was subjected to a compound intervention experiment with different doses (high, medium and low), and the medium-dose group of the herbal decoction was the optimal group



Supplemental figure 2



Supplemental figure 2

Supplemental figure 2 | HD mediates β -catenin to regulate SMSCs to promote myogenic differentiation. (A) Immunofluorescence staining (MyoD+BrdU) of the posterior tibial muscle on the model side at 14 dpf. Bar, 20 μ m. (B) Immunofluorescence staining (Pax7+Sca1) of the posterior tibial muscle on the modeled side at 14 dpf. Bar, 20 μ m. HD promotes the proliferation activity of SMSCs in skeletal muscle. (C) Immunofluorescence staining (Pax7+BrdU) of the posterior tibial muscle on the modeled side at 7 dpf. Bar, 20 μ m. (D) Immunofluorescence staining (Pax7+BrdU) of the posterior tibial muscle on the modeled side at 14 dpf. Bar, 20 μ m. HD can effectively promote the proliferation activity of SMSCs in skeletal muscle.