Supplementary Information

Titanium Nanotubes Induce Osteogenic Differentiation Through the FAK/RhoA/YAP Cascade

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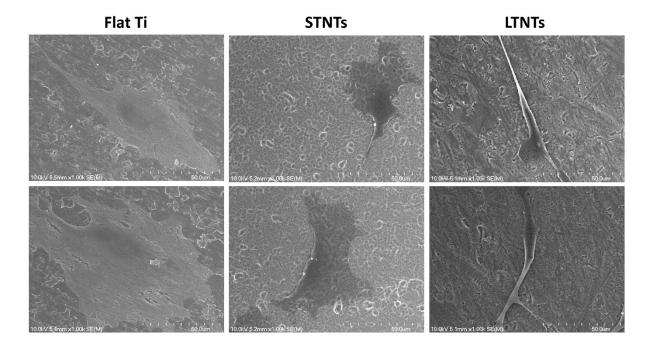


Fig. S1 SEM images of MC3T3-E1 cells on smooth Ti, STNTs and LTNTs.

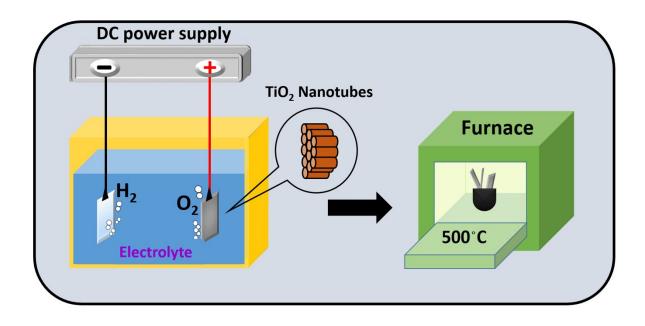
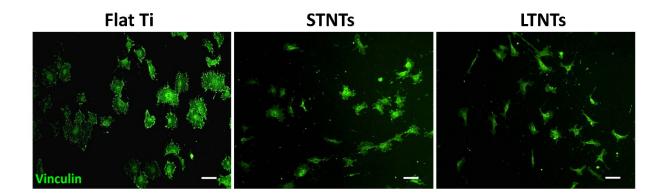


Fig.S2 Schematic diagram of anodizing process to fabricate TNTs.



 $\label{eq:Fig.S3} \mbox{Immunofluorescent staining of focal adhesion with Anti-Vinculin antibody (scale bars=100 $\mu m).}$

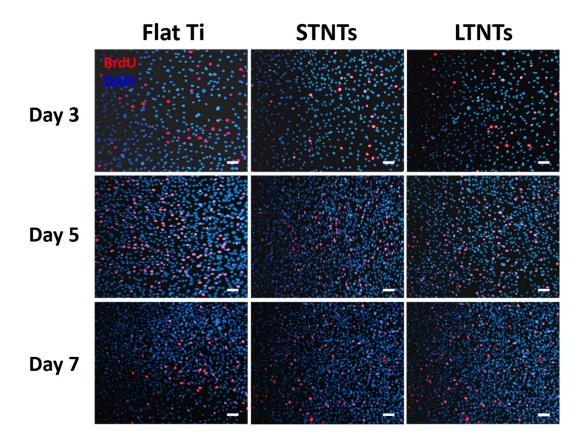


Fig. S4 Immunofluorescent labeling of BrdU (red) and DAPI (blue) for MC3T3-cells cultured on smooth Ti, STNTs and LTNTs for 3, 5 and 7 days (scale bars=100μm).

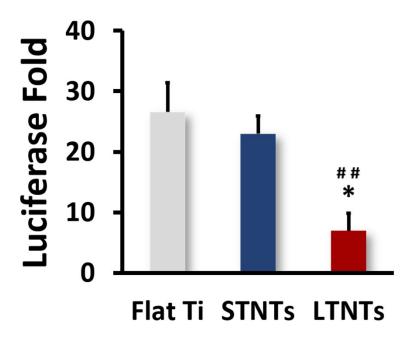


Fig. S5 Luciferase activity of the YAP reporter ($8\times GTIIC$ -luciferase) in MC3T3-E1 cells cultured on the three substrates (*p<0.05, vs smooth Ti; *#p<0.01, vs STNTs. n=3.).

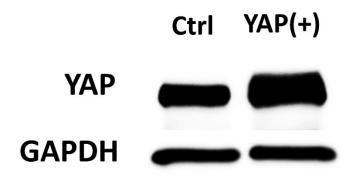


Fig. S6 Western Blot result of YAP overexpression in MC3T3-E1 cells.

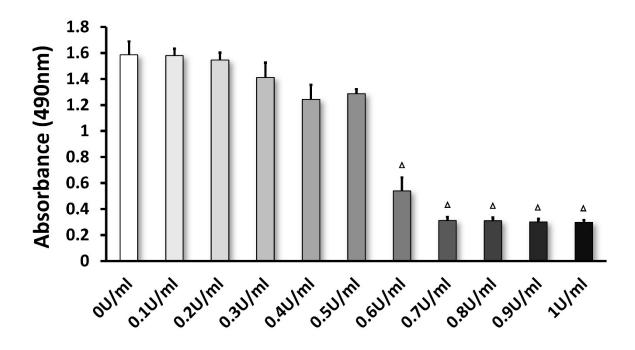


Fig. S7 The effects of different CN01 concentration on MC3T3-E1 cells livability tested with MTS assay ($^{\circ}p<0.05$, vs 0U/ml. n=3.).