Electronic Supplementary Information of RA-ART-08-2023-005529

Enhancing osteogenic differentiation of MC3T3-E1 cells during inflammation using UPPE/β-TCP/TTC composites via Wnt/β-catenin pathway

Qi-lin Li, [abc] Ya-xin Wu, [abc] Yu-xiao Zhang, [abc] Jing Mao, [*abc] and Zhi-xing Zhang [*abc]

*Corresponding authors

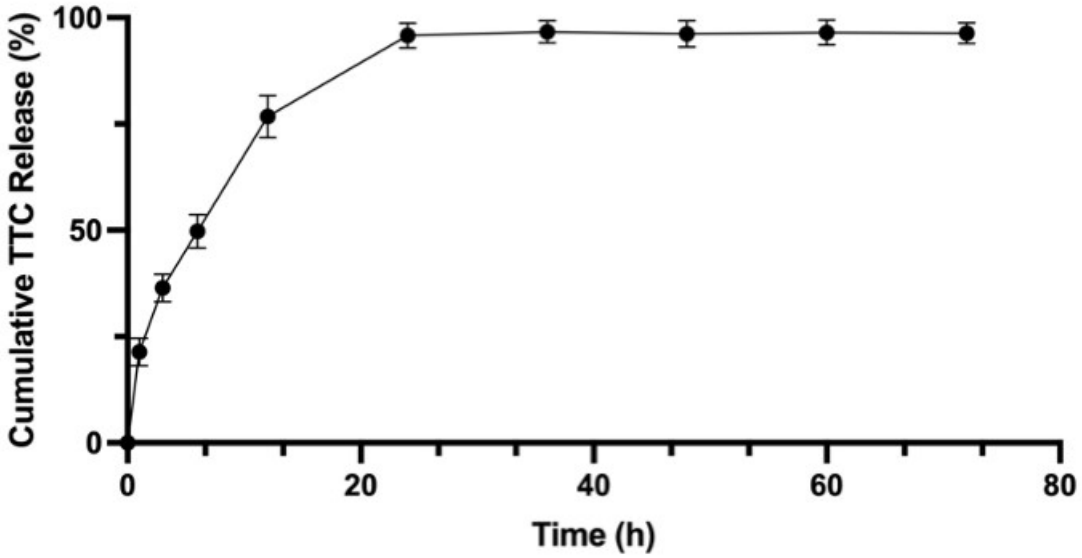
[a] Department of Stomatology, Tongji Hospital, Tongji Medical College, Huazhong University of Science and Technology, Wuhan 430030, China.

[b] School of Stomatology, Tongji Medical College, Huazhong University of Science and Technology, Wuhan 430030, China.

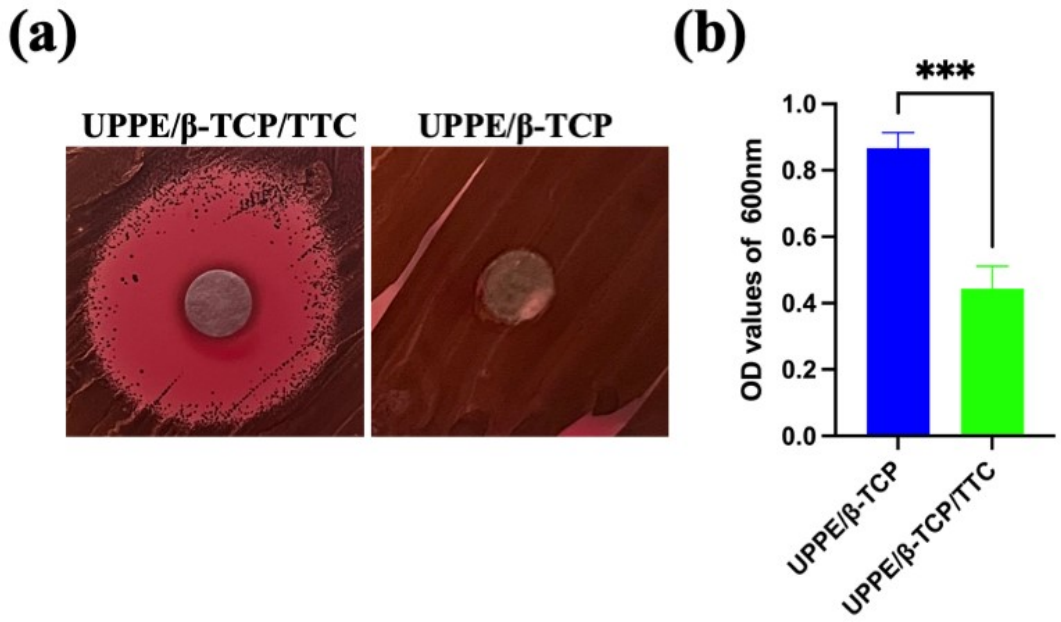
[c] Hubei Province Key Laboratory of Oral and Maxillofacial Development and Regeneration, Wuhan 430022, China.

E-mail: maojing@hust.edu.cn (Jing Mao) or zzx@tjh.tjmu.edu.cn (Zhi-xing Zhang)

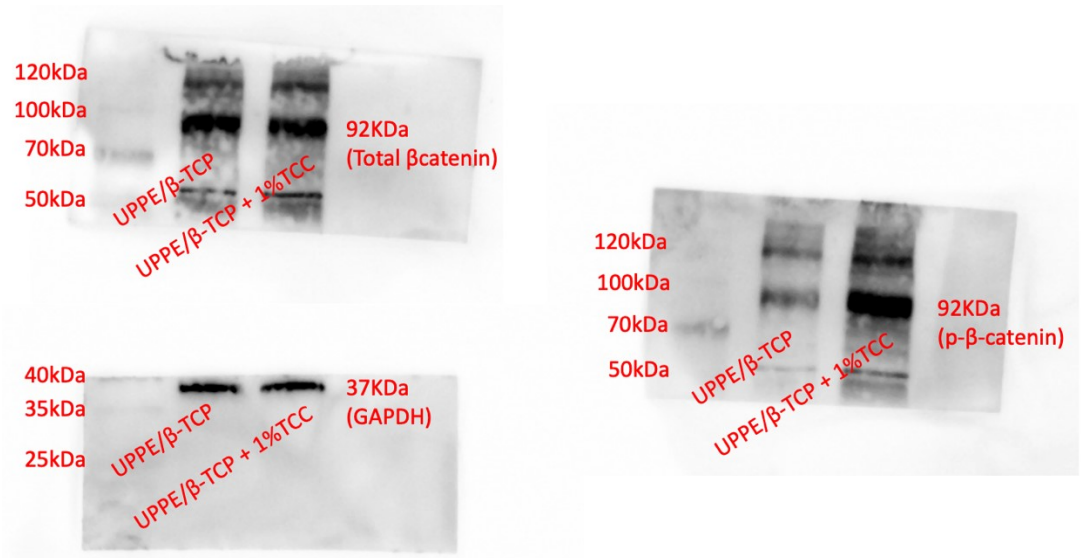
Supplementary Figure 1. The drug release curves of 1% TTC in UPPE/β-TCP+1%TCC samples.



Supplementary Figure 2. (a) The antibacterial activity of the materials (UPPE/β-TCP and UPPE/β-TCP+1%TTC) was detected by the antibacterial ring assay and quantitative analysis in (b). ***P <0.001, compared with the UPPE/β-TCP group.



Supplementary Figure 3. The original band of gel electrophoresis used in Figure 4B.



Supplementary Figure 4. The original band of gel electrophoresis used in Figure 4B.