

Hydroxyapatite/poly (butylene succinate)/metoprolol tartrate composites with controllable drug release and porous structure for bone scaffold application

Hongming Yang¹, Rui Pan¹, Yuan Zhou¹, Guiting Liu^{1}, Rong Chen^{1*}, Shaoyun Guo¹*

¹The State Key Laboratory of Polymer Materials Engineering, Polymer Research Institute of Sichuan University, Chengdu 610065, China

* Correspondence:

Rong Chen; Guiting Liu

rongchen@scu.edu.cn;liugt@scu.edu.cn

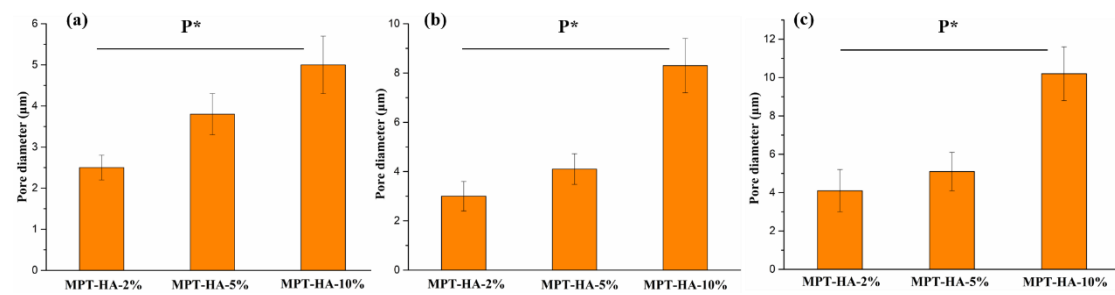


Figure S1. Pore diameter analysis of HA/PBS/MPT composites after immersion of 2 h (a), 12 h (b) and 36 h (c).

Table S1. Pore diameter (μm) of HA/PBS/MPT composites after immersion for different times

Specimen	2 h	12 h	36 h
MPT-HA-2%	2.5	3.1	4.1
MPT-HA-5%	3.8	4.2	4.9
MPT-HA-10%	5.1	8.3	10.2

The Ca/P mass ratio is 1.48, which is close to the theoretical Ca/P mass ratio (1.67) of HA.

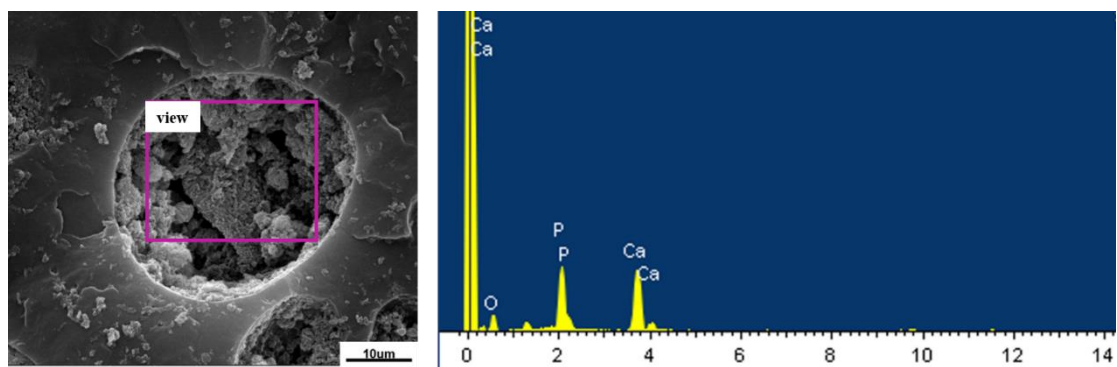


Figure S2. EDS analysis of MPT-HA-10% samples immersion in PBS for 36 hours.

Table S2. The quantitative statistics of element mass proportion

Element	Weight Percentage, %	Atomic percentage, %
O	39.16	59.14
P	23.68	16.47
Ca	37.16	24.40