Supporting Information of

Composite Microspheres of Bioactive Glass and Hydrophilic Biodegradable Polymers to Accelerate Infected Wound Healing

Ziyun He[a], Zirui Xu[a], Shuhua Chang[a], Quan Zhao[a], Zhuangzhuang Zhang[b], Yun Bai[b], Ju-E Cun[a*], Jun Cao[a] and Bin He[a*]
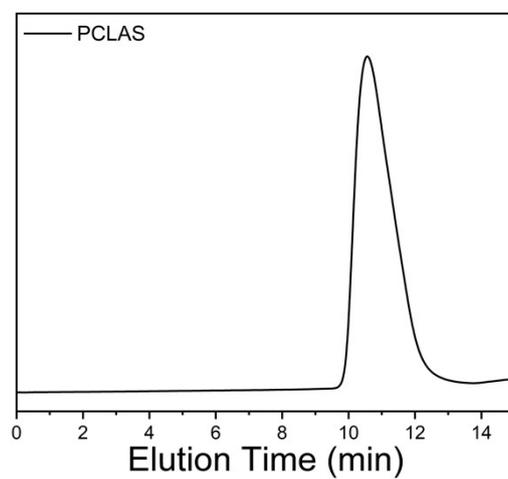
[a]National Engineering Research Center for Biomaterials, College of Biomedical Engineering, Sichuan University, Chengdu 610064, China

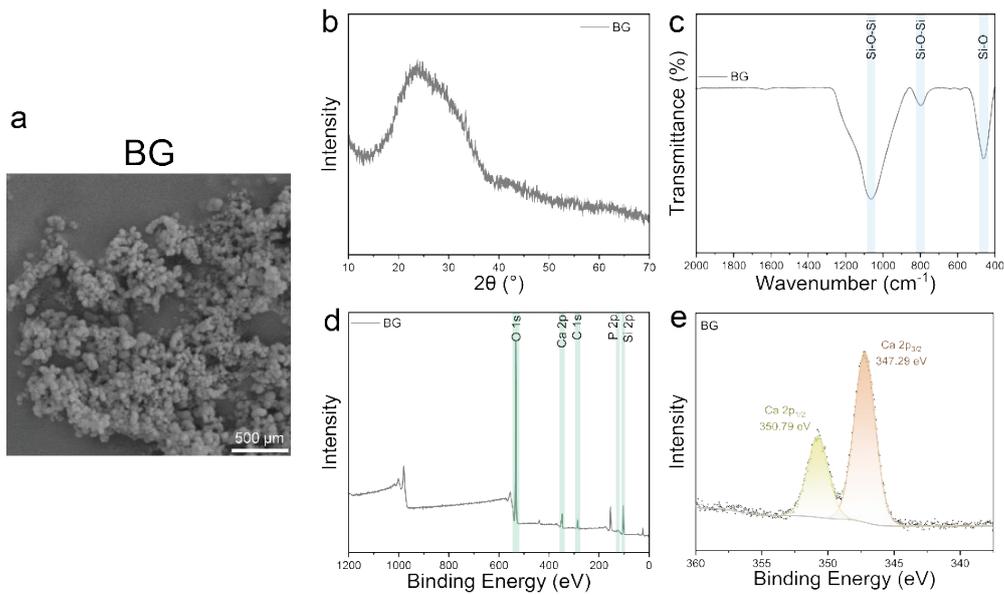[b]Ningbo Baoting Biotechnology LTD, Ningbo 315000, China

*Corresponding authors E-mail: bhe@scu.edu.cn (Bin He), jue_cun@163.com (Ju-E Cun)
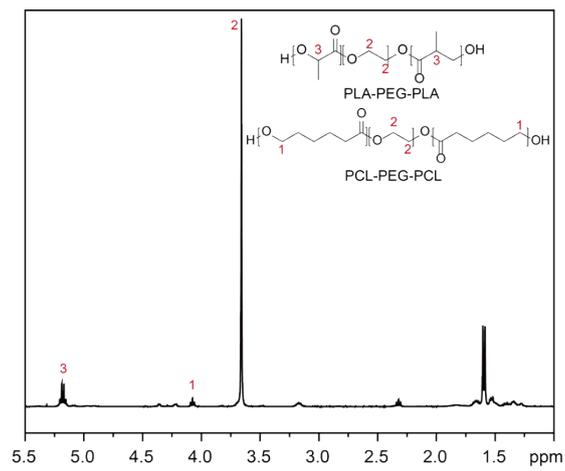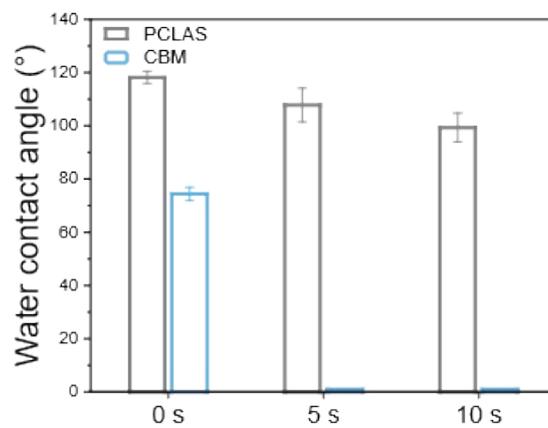
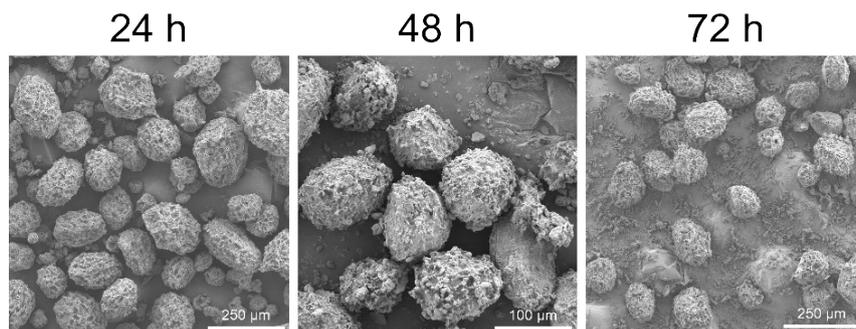**Figure S1.** ^{1}H NMR spectrum of PCLAS in CDCl$_3$.
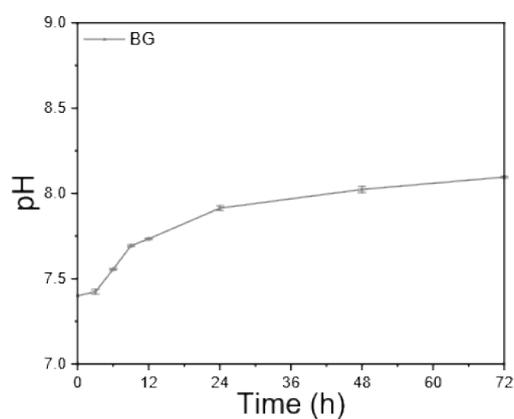

Figure S2. GPC curves of PCLAS.

Figure S3. Characterization of BG in SEM image (a), XRD (b), FT-IR (c) and XPS spectrum (d, e).

Figure S4. Water contact angle of PCLAS and CBM microspheres.

Figure S5. SEM images of CBM microspheres after 24, 48 and 72 h degeneration.

Figure S6. pH value during the degradation of Cu-BG.

Table S1 Molar composition ratios of PCLAS.

Materials	PCLAS
M_n	27089
M_w	48914
M_w/M_n	1.81
PEG content (%)	59.16
PLLA content (%)	35.62
PCL content (%)	5.22

Table S2 The loading efficiency of bioglass and metallic ion contents.

Materials	CBM	Cu-BG
Theoretical content (wt%)	30	5.98
Actual content (wt%)	21.58	5.91

Table S3 Molar composition ratios of PCLAS after degradation.

Degradation time	PEG content (%)	PLLA content (%)	PCL content (%)
24 h	49.64	43.24	7.11
48 h	49.13	43.78	7.08
72 h	47.79	44.53	7.68