Supplementary Material

Sulfur-mediated Polycarbonate-polyurethane for Potential Application of Blood-contacting Materials

Peichuang Lia,b, Wanhao Caib,c, Xin Lib,d, Hong Zhanga, Yuancong Zhaob,\*, Jin Wangb,\*

a Heze Branch, Qilu University of Technology (Shandong Academy of Sciences), Biological Engineering Technology Innovation Center of Shandong Province, Heze 274000, China

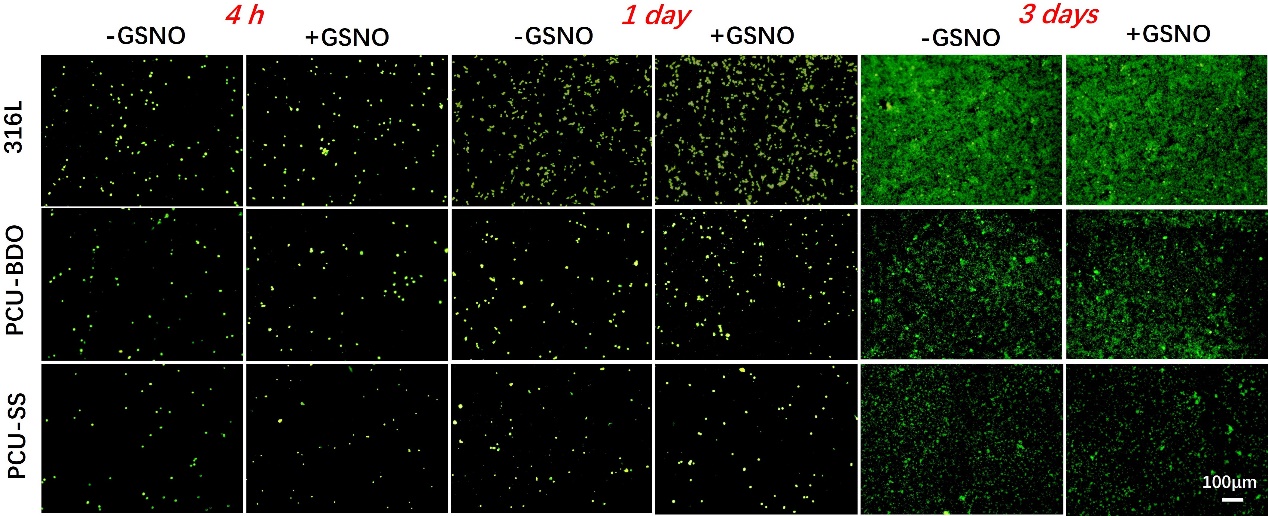
b Key Laboratory of Advanced Technologies of Materials, Ministry of Education, School of Materials Science and Engineering, Southwest Jiaotong University, 610031, Chengdu, China

c Institute of Physical Chemistry, University of Freiburg, Albertstraße 21a, Freiburg 79104, Germany

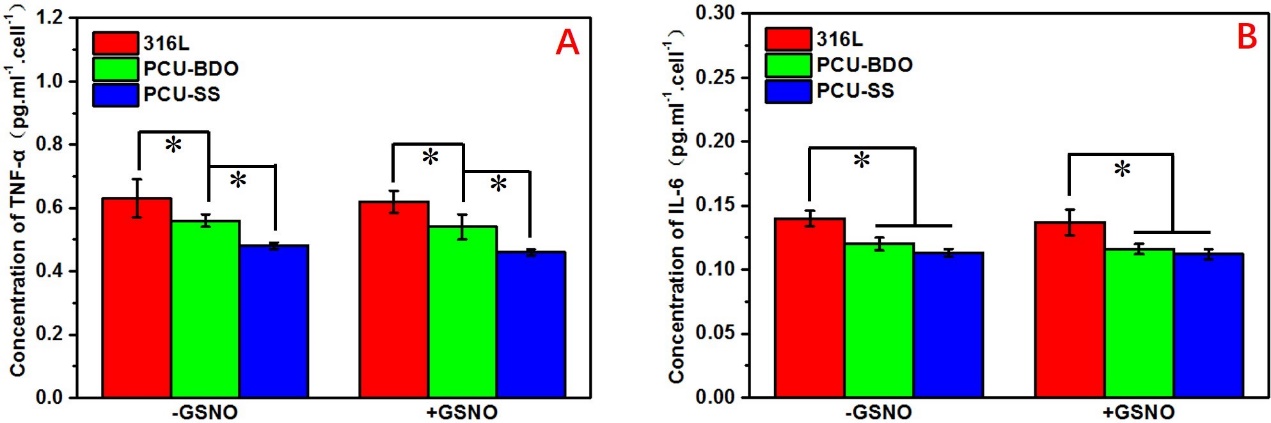
d Department of Cardiology, Third People's Hospital of Chengdu Affiliated to Southwest Jiaotong University, Chengdu, 610031, China

∗ Corresponding authors.

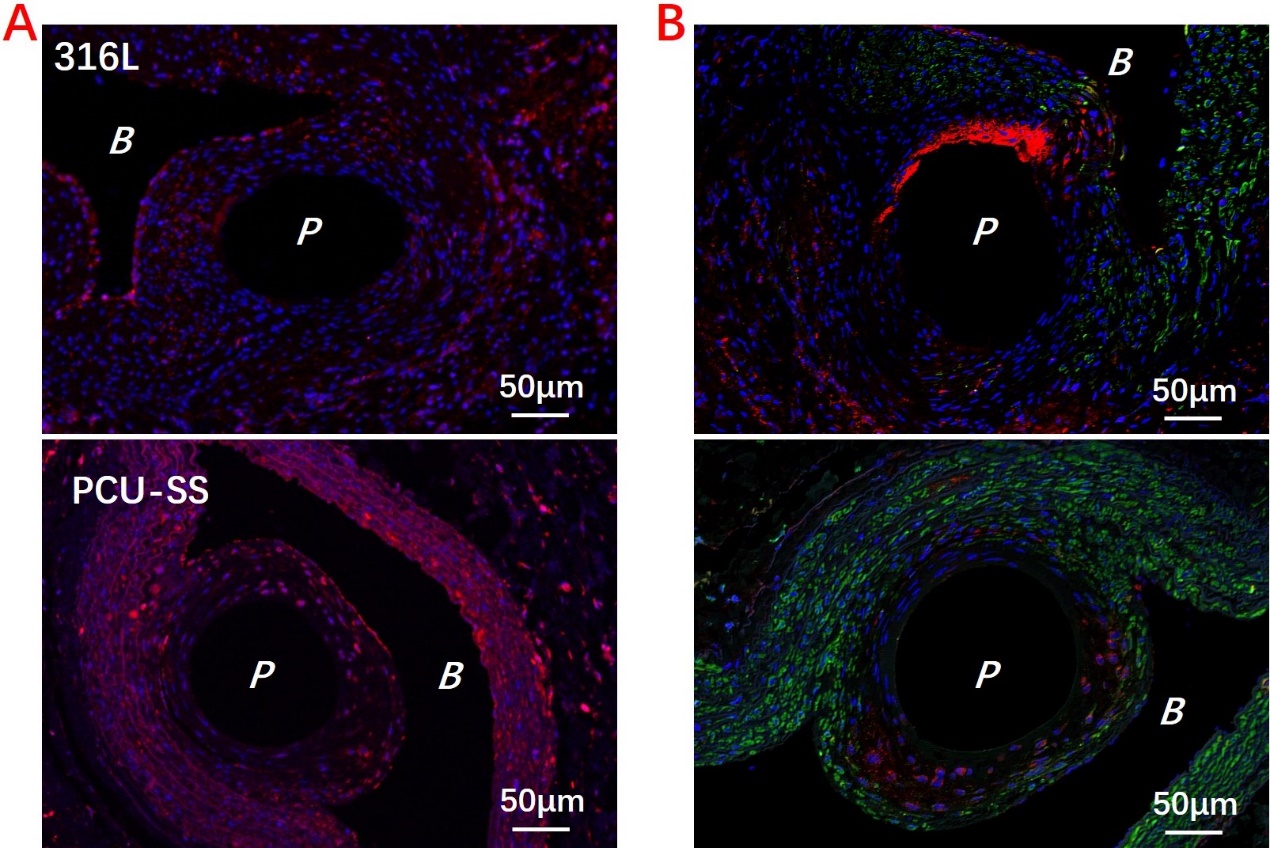
E-mail addresses: zhaoyc7320@163.com (Y. Zhao); wangjin@swjtu.edu.cn (J. Wang)



**Fig. S1.** Cal-AM fluorescence staining of MA on the different samples surface.



**Fig. S2.** (A) Quantitative analysis of TNF-α and (B) IL-6 of MA cultured for 3 days.



**Fig. S3.** Immunofluorescence staining results. (A) CD 206 staining of regenerated tissue (red is the positive expression of M2-type macrophage). (B) The results of α-SMA and OPN double staining of regenerated tissue (red is the positive expression of OPN of synthetic SMC, green is the positive expression of α-SMA of contractile SMC, *P* is the location of sample implantation, *B* is the location of blood flow).