

Supplemental Materials for

A biomimetic tarso-conjunctival biphasic scaffold for eyelid reconstruction in vivo

Peifang Xu,^{#a} Qi Gao,^{#a} Xue Feng,^b Lixia Lou,^a Tiepei Zhu,^a Changyou Gao^{*b} and Juan Ye^{*a}

^a Department of Ophthalmology, the Second Affiliated Hospital of Zhejiang University,

College of Medicine, Hangzhou, Zhejiang, 310009, China.

^b MOE Key Laboratory of Macromolecular Synthesis and Functionalization,

Department of Polymer Science and Engineering, Zhejiang University, Hangzhou, 310027, China.

* To whom correspondence should be addressed. Tel: +86-13858193908.

E -mail: yejuan@zju.edu.cn ; cygao@zju.edu.cn

These authors contribute equally to this work.

Figure S1

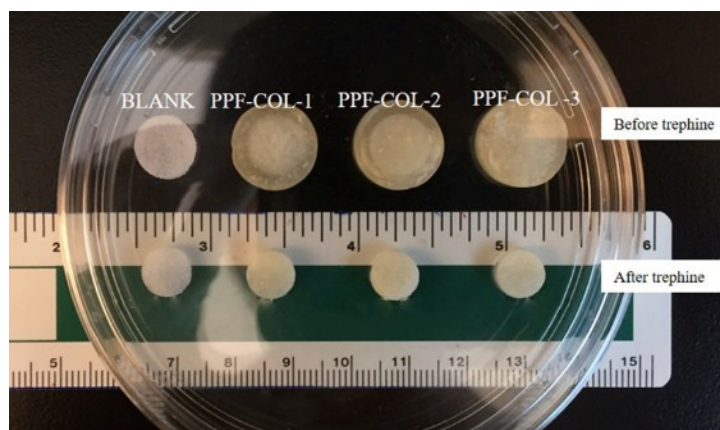


Fig. S1. A digital image of the PPF-COL bilayer scaffolds. Scaffolds before (top) and after trephine (bottom).

Figure S2

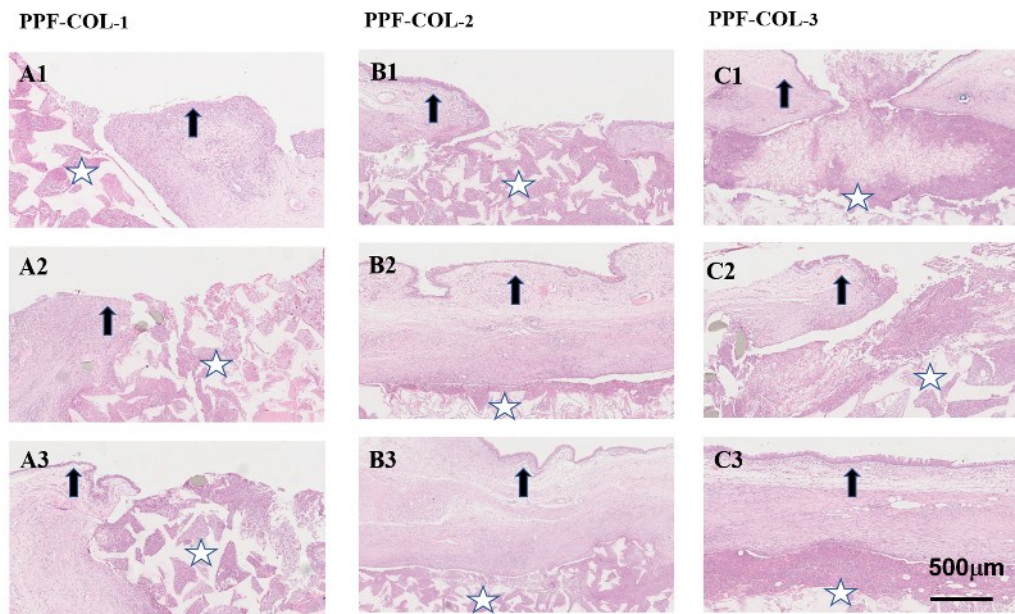


Fig. S2. HE staining of sections of parallel samples after being treated with (A1-3) PPF-COL-1, (B1-3) PPF-COL-2, and (C1-3) PPF-COL-3 scaffolds. Black arrows point out conjunctiva tissue and white pentagrams point out the scaffolds. Scale bar: 500 μm

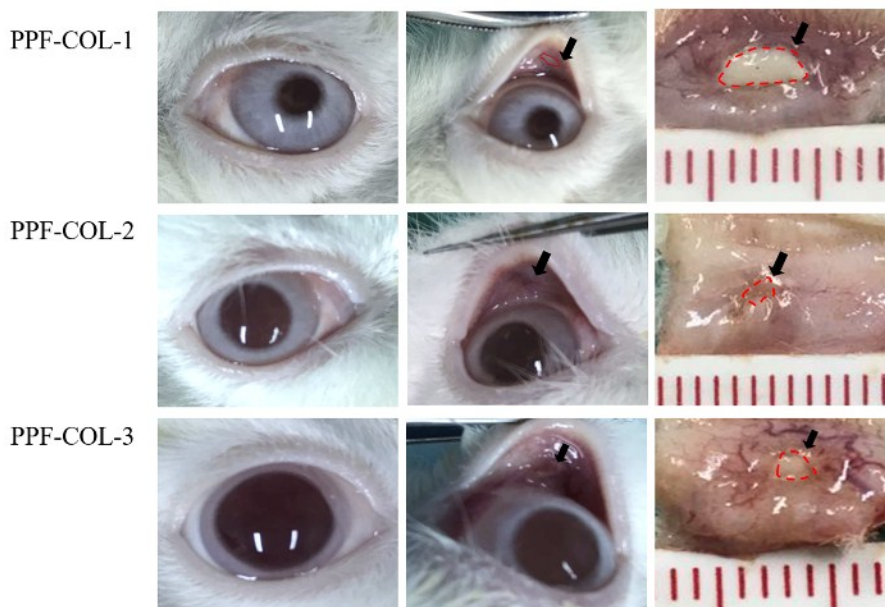


Fig. S3. Post-surgery appearance of the 2th week and macroscopic photographs of the healed defects. Black arrows point out the defect site.