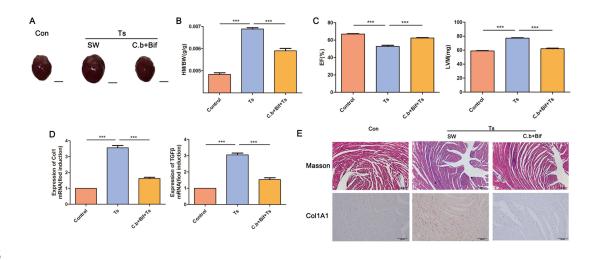


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Fig. S1 The levels of SCFA in serum of mice in each group. Bars show the mean
±SD (n=5) of three independent experiments. Different SCFA expression levels
among the TAC, ABX+Sham, ABX+TAC and Sham groups were compared by
one-way ANOVA. *, P < 0.05.



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Fig. S2 Combined use of *C butyricum* and *B pseudolongum* effectively improves
cardiac fibrosis induced by helminth infection. (A) Whole heart for each group
(n=6). (B) Heart mass-to-body weight ratio of mice in each group. Representative

images are shown. (C) Ejection fraction and left ventricular weight obtained by 10 cardiac ultrasound in each group of mice. (D) qPCR analysis of Col1 and TGF-β 11 expression in the heart tissue of mice in each group. The levels of Col1 and TGF- β in 12 13 tissues from the Control group were assigned a value of 1.0. Different mRNA expression levels among the Ts, C.b+Bif+Ts and Control groups were compared by 14 one-way ANOVA. *, P < 0.05. (F) Masson staining and COL1A1 15 immunohistochemistry results of mouse hearts of mice gavaged with C. butyricum 16 and .B pseudolongum (C.b+Bif+Ts) after T. spiralis (Ts) and Control (Control). 17 18 Magnification, $200 \times$. Representative images are shown.