



Fig. 1. Relative expression of *Csp38* (A), *CsJNK* (B), *CsERK1* (C), and *CsERK2* (D) in *C. suppressalis* after treatment with PBS, *B. thuringiensis*, *E. coli*, or *S. aureus* at 0, 3, 6, 12, and 24 h. Error bars represent standard deviation (n = 3). Asterisks indicate significant differences (P < 0.05).

C. suppressalis (Figs. 1A-D). *Csp38* expression in *C. suppressalis* was significantly increased (P < 0.05) at 12 and 24 h after treatment with *B. thuringiensis* (2.3-fold), *E. coli* (3.0-fold), and *S. aureus* (1.6-fold) (Fig. 1A). *CsJNK* expression in *C. suppressalis* was significantly increased (P < 0.05) at 3, 12, and 24 h after treatment with *B. thuringiensis* (2.3-fold), *E. coli* (3.0-fold), and *S. aureus* (1.6-fold) (Fig. 1B). *CsERK1* expression in *C. suppressalis* was significantly increased (P < 0.05) at 3, 12, and 24 h after treatment with *B. thuringiensis* (7.9-fold), *E. coli* (4.2-fold), and *S. aureus* (3.0-fold) (Fig. 1C). *CsERK2* expression in *C. suppressalis* was significantly increased (P < 0.05) at 12 and 24 h after treatment with *B. thuringiensis* (7.9-fold), *E. coli* (4.2-fold), and *S. aureus* (3.0-fold) (Fig. 1D).

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