Article

Consumption of *Limosilactobacillus fermentum* inhibits corneal damage and inflammation in dry eye disease mice model through regulating the gut microbiome

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**Figure S1.** **Effect of HY7302 on the taxonomy difference genus profile in BAC-induced cornea damag mice.** Taxonomic abundance comparisonat genus level from 16S rDNA sequencing. CON (Control group); DE (0.1% BAC treated group); DE + Ω-3 (0.1% BAC with 200mg/mL omega-3 treated mice); DE + HY7302L (0.1% BAC with 108 CFU/mL HY7302 treated mice); DE + HY7302H (0.1% BAC with 109 CFU/mL HY7302 treated mice).



**Figure S2.** **Effect of HY7302 on microbial taxa differing in BAC-induced cornea damag.** Linear discriminant analysis effect size (LEfSe) results (A) a bar plot between DE (Dry Eye) and Control group. (B) Omega 3, (C) HY7302 L (Low concentration), and (D) HY7302 H (High concentration) compared to the DE group (LDA > 2.0)



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