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Designer probiotics: Development and applications in gastrointestinal health

Roy D Sleator

Abstract

Given the increasing commercial and clinical relevance of probiotics, improving their stress tolerance profile and ability to overcome the physiochemical defences of the host is an important biological goal. Herein, I review the current state of the art in the design of engineered probiotic cultures, with a specific focus on their utility as therapeutics for the developing world; from the treatment of chronic and acute enteric infections, and their associate diarrhoeal complexes, to targeting HIV and application as novel mucosal vaccine delivery vehicles.



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