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Name of Journal: *World Journal of Clinical Pediatrics*

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Prospects on Clinical Applications of Butyrate-Producing Bacteria

Clinical Applications of Butyrate-Producing Bacteria

Libin Zhu, Yuchen Zhang, Hanhui Huang, Jing Lin

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Probiotic treatment with butyrate-producing bacteria has **therapeutic potential** since these bacteria are depleted in IBD patients and butyrate has beneficial effects on epithelial barrier function and overall gut health. However, studies assessing the effect of probiotic supplementation on microbe-microbe and host-microbe interactions are rare.

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