Study	Subjects	Variables Studied	Outcome
Bacillus clausii			
Nista EC, Candelli M, Cremonini F, et al. Bacillus clausii therapy to reduce side- effects of anti-Helicobacter pylori treatment: randomized, double-blind, placebo-controlled trial. <i>Alimentary</i> <i>Pharmacology and Therapeutics</i> . 2004;20(10):1181-1188. Marseglia GL, Tosca M, Cirillo I, et al. Efficacy of Bacillus clausii spores in the prevention of recurrent respiratory infections in children: a pilot study. <i>Therapeutics and Clinical Risk</i> <i>Management</i> . 2007;3(1):13-17. doi:10.2147/tcrm.2007.3.1.13.	120 adults with <i>H.</i> <i>pylori</i> 80 children with recurrent respiratory infection	effect of <i>Bacillus</i> <i>clausii</i> on incidence and severity of antibiotic- associated side- effects during anti- <i>H. pylori</i> therapy Activity and duration of respiratory infection, safety of <i>B. clausii</i>	 <i>B. clausii</i> reduces the incidence of the most common side-effects related to anti-<i>H. pylori</i> antibiotic therapy <i>B. clausii</i> treatment is safe significantly effective in reducing the duration of RI in children with recurrent disease
Gabrielli M, Lauritano E, Scarpellini E. genes involved in immune response and inflammation, apoptosis and cell growth, cell differentiation, cell–cell signalling, cell adhesion, signal transcription and transduction. <i>The American Journal of Gastroenterology</i> . 2009;104:1327-1328. Ciprandi G, Tosca MA, Milanese M, Caligo G, Ricca V. Cytokines evaluation in nasal lavage of allergic children after Bacillus clausii administration: A pilot study. <i>Pediatric Allergy and Immunology</i> . 2004;15(2):148-151.	40 adults 10 children	SIBO decontam- ination rate, tolerance of probiotic supplementation Levels of interleukins, (IFN)- c, (TGF)-b, and (TNF)-a	Decontamination rate of SIBO using B. clausii is comparable to that observed with many antibiotics. B clausii is extremely safe and well tolerated <i>B. clausii</i> may exert immuno- modulating activity by affecting cytokine pattern
Di Caro S, Tao H, Grillo A, et al. Bacillus clausii effect on gene expression pattern in small bowel mucosa using DNA microarray analysis. <i>European Journal of</i> <i>Gastroenterology & Hepatology</i> . 2005;17(9):951-960.	6 adults	modification of gene expression	<i>B. clausii</i> affects upregulation and downregulation of genes, mainly those which are involved with immune response and inflammation, apoptosis and cell growth, cell differentiation, cell signaling, cell adhesion, and signal transcription and transduction
Urdaci MC, Bressollier P, Pinchuk I. Bacillus clausii Probiotic Strains. <i>Journal of Clinical</i> <i>Gastroenterology</i> . 2004;38(Supplement 2).	Murine cells	Antimicrobial and immunomodulatory activities	<i>B. clausii</i> in their vegetative forms are active against <i>Staphylococcus aureus,</i> <i>Enterococcus faecium,</i> and <i>Clostridium difficile</i>

Bacillus subtilis			
Uyen NQ, Hong HA, Cutting SM. Enhanced	Mice	Immune response,	Bacillus subtilis elicits
immunisation and expression strategies		antigen expression	protective immune response
using bacterial spores as heat-stable			when exposed to TTFC
vaccine delivery vehicles. Vaccine.			antigen of Clostridium tetani
2007;25(2):356-365.			
Hong H, Khaneja R, Tam N. Bacillus subtilis	6 human	Presence and	Bacillus subtilis is naturally
isolated from the human gastrointestinal	subjects	activity of B. subtilis	present in human GIT and
tract. Research in Microbiology.	dyspeptic	within human GIT	should be considered a
2009;160:134-143.	symptoms	(antimicrobial	human gut commensal
		activity)	
Saccharomyces boulardii			
Czerucka D, Dahan S, Mograbi B, Rossi B,	human	disease activity,	S. boulardii reduces the
Rampal P. Saccharomyces boulardii	colon T84	distribution of ZO-	negative consequences of
Preserves the Barrier Function and	cell line	1, adhesion,	enteropathogenic <i>E. coli</i>
Modulates the Signal Transduction		transepithelial	infection
Pathway Induced in Enteropathogenic		resistance,	
Escherichia coli-Infected T84 Cells. Infection		apoptosis of	
and Immunity. 2000;68(10):5998-6004.		epithelial cells	
Demirel G, Celik IH, Erdeve O, et al.	181	fungal colonization	S. boulardii supplementation
Prophylactic Saccharomyces boulardii	premature	and infection,	is as effective as nystatin in
versus nystatin for the prevention of fungal	infants	sepsis, feeding	reducing fungal colonization,
colonization and invasive fungal infection in		tolerance	and more effective than
premature infants. Eur J Pediatr.			nystatin in reducing invasive
2013;172:1321-1326.			fungal infection