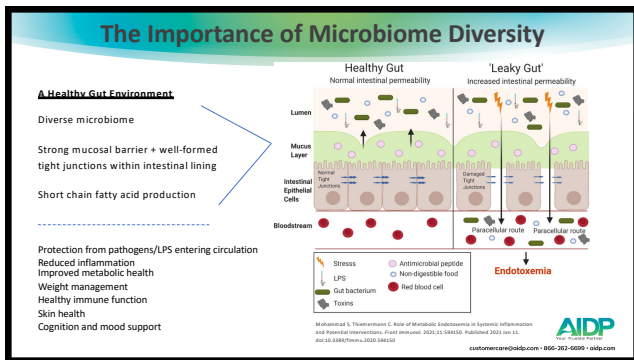
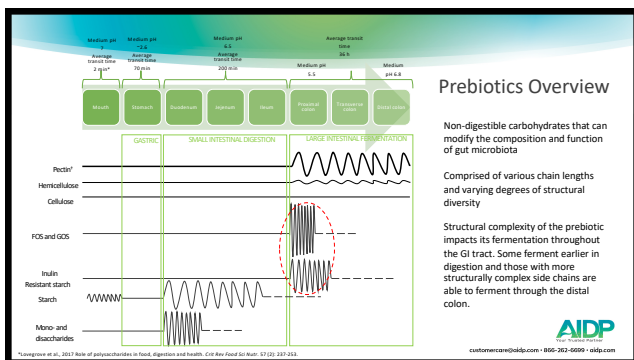


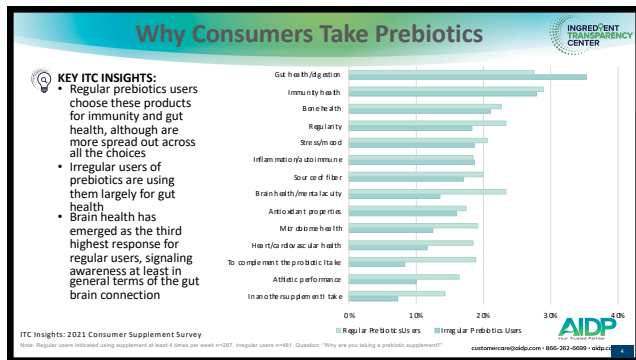
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Precision Prebiotics

Alteration in gut composition, "selectivity" and host benefit are impacted by prebiotic structure.

Precision prebiotics have a higher specificity when feeding gut bacteria, leading to more selective alterations in the microbiome.

Key Advantages:

- ✓ Low dose
- ✓ Minimal side effects (bloating, discomfort)
- ✓ Selective growth of good bacteria
- ✓ Pleiotropic (anti-inflammatory) effects

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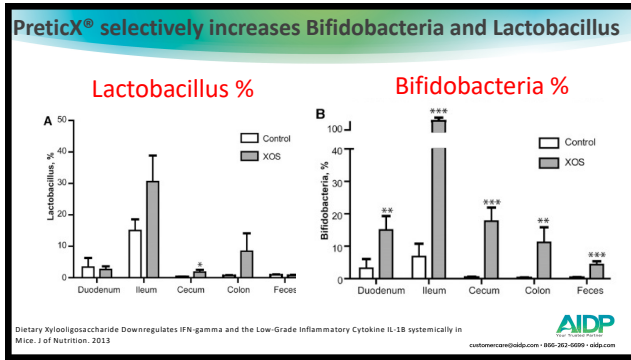
Low Dose XOS for Bifidogenic Reconditioning

PretecX
Optimize Your Flora

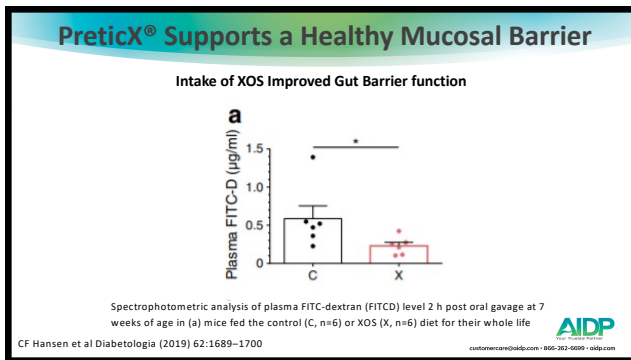
- Low-dose xylooligosaccharide (XOS) prebiotic
- Produced by patented manufacturing process via enzymatic hydrolysis of non-GMO corn cob
- Selective bifidogenic activity at 1 gram per day
- Optimizes gut flora
- Supports metabolic health
- Backed by more than 12 published clinical trials
- Low water activity (<0.17)
- FDA GRAS, EFSA and Health Canada Approved with qualified health claims
- Kosher, Halal and Non-GMO Project Verified
- Organic available

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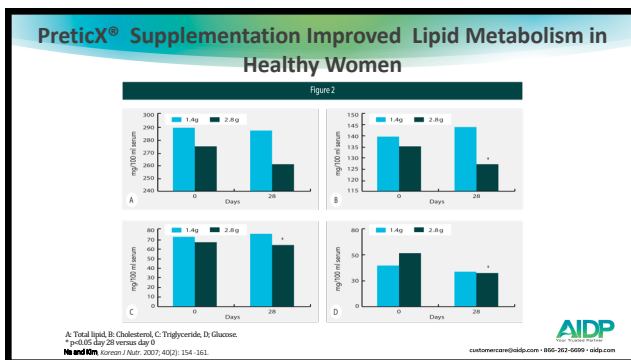
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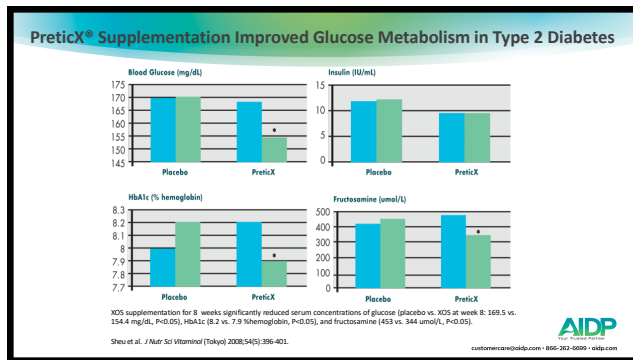
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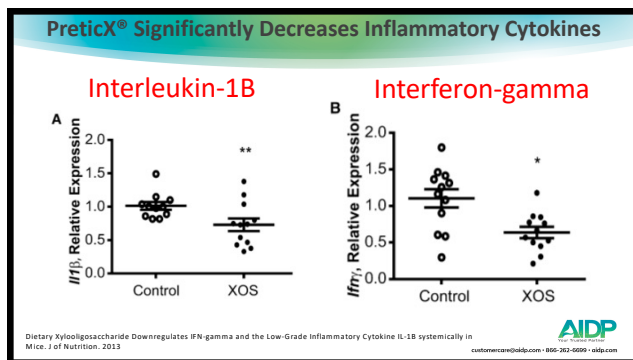
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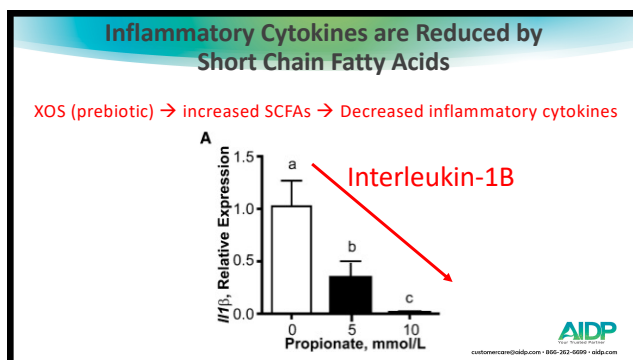
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12

PreticX® Modulates Immune Markers

Xylo-oligosaccharides alone or in synbiotic combination with *Bifidobacterium animalis* subsp. *lactis* induce bifidogenesis and modulate markers of immune function in healthy adults: a double-blind, placebo-controlled, randomised, factorial cross-over study

Childs et al. British Journal of Nutrition (2014), 111, 1945–1956

Conclusion:

XOS supplementation significantly increased

- mean bowel movements
- bifidobacterial counts
- fasting plasma HDL concentrations.
- lower expression of the cell-surface markers CD16/56 on NKT cells
- lower IL-10 secretion
- increased participant-reported vitality and happiness.



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Gold Kiwifruit Powder with Specific *F. prau* Activity

- Derived from New Zealand **gold kiwifruit**
- Developed using proprietary, **pharmaceutical grade freeze-drying** method
- **Nutrient powerhouse:** rich in vitamin C, phenolic compounds and fiber
- **Prebiotic substrates** modulate the microbiome
- Kiwifruit dietary fiber mainly consists of **pectic polysaccharides** (pectin), hemicelluloses and cellulose.
- The most **fermentable** of these polysaccharides is pectin.
- Kiwifruit pectin is a prebiotic polysaccharide with a **complex and diverse structure**.
- Increases abundance of *Faecalibacterium prausnitzii* in the gut



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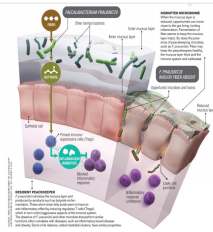
14

Faecalibacterium prausnitzii (F. prau)

F. prau is a special bacterial species that resides in the gut, accounting for approx. 5% - 15% of the total gut microbiome.

F. prau has digestive health and wellness benefits:

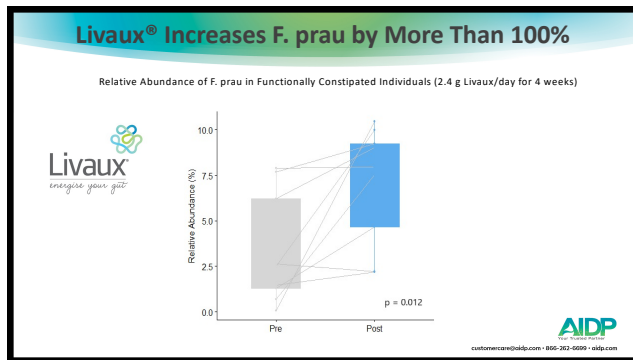
- ✓ Readily ferments soluble fiber and polyphenolic compounds
- ✓ Increases butyrate production
- ✓ Reduced *F. prau* has been associated with a range of gastrointestinal disorders, such as IBS, IBD and chronic constipation.



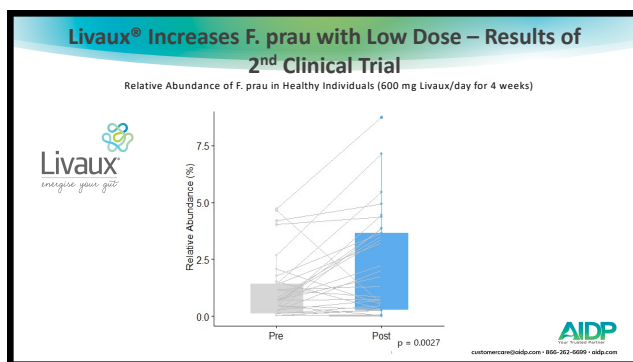
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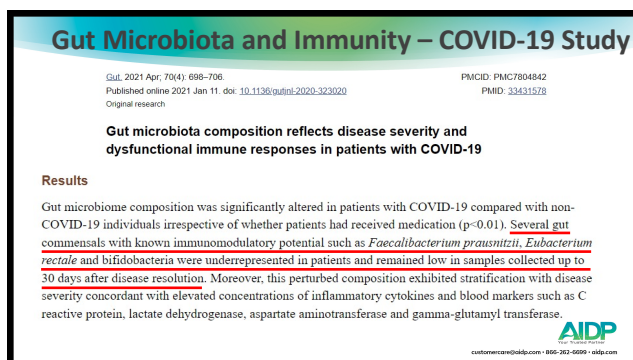
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Study Significance and Future Implications

How might it impact on clinical practice in the foreseeable future?

- These findings suggest that depletion of immunomodulatory gut microorganisms contributes to severe COVID-19 disease.
- The dysbiotic gut microbiota that persists after disease resolution could be a factor in developing persistent symptoms and/or multisystem inflammation syndromes that occur in some patients after clearing the virus.
- Bolstering of beneficial gut species depleted in COVID-19 could serve as a novel avenue to mitigate severe disease, underscoring importance of managing patients' gut microbiota during and after COVID-19.

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The Gut-Skin Connection

Imbalanced gut environment generates compounds and toxins that enter circulation and accumulate into the skin, causing:

- Inflammation
- Dryness
- Breakdown of collagen and elastin fibers
- Discoloration
- Appearance of fine lines and wrinkles

Yanghe AL, Raley M, Clark AM, Sivamani RK. Skin-gut axis: The relationship between intestinal bacteria and skin health. *World J Dermatol* 2017; 6(4): 52-58.

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High-Purity GOS for Skin Health

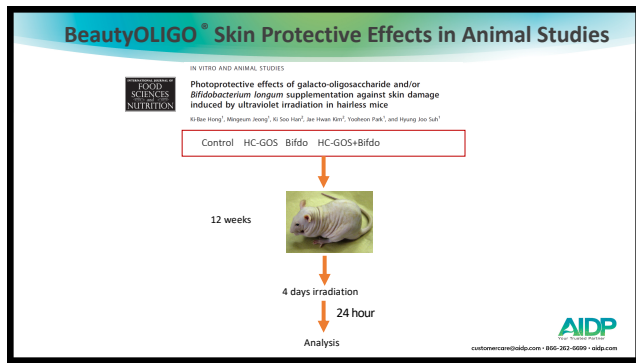
Beauty OLIGO

is a unique, high purity, **LOW GLYCEMIC**, GOS proven to be effective in **SUPPORTING HEALTHY SKIN APPEARANCE**

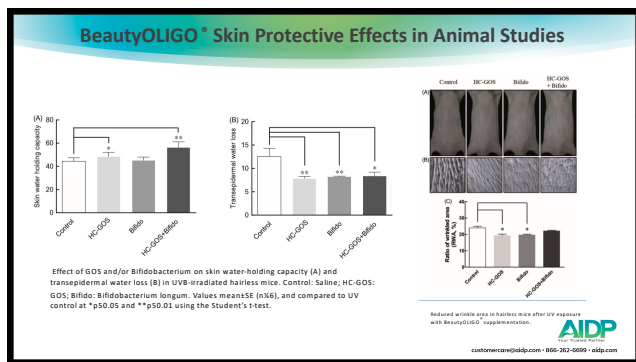
OCC1OC(CO)C(OC2C(CO)C(CO)CO2)OC3C(CO)C(CO)CO3

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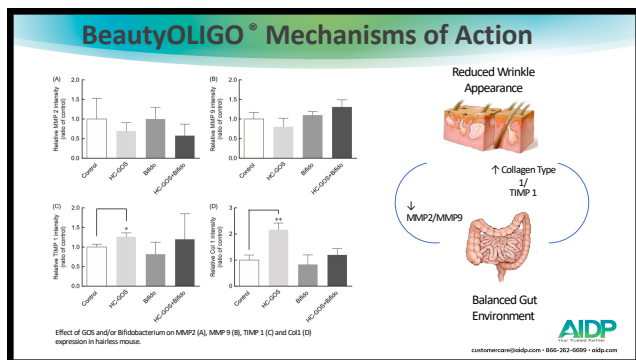
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BeautyOLIGO® Improves Skin Appearance

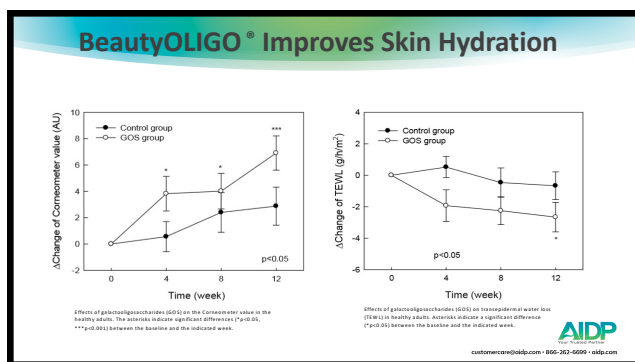


Dietary galactooligosaccharides improve skin health: a randomized double-blind clinical trial
 Hong YH, Chang UJ, Kim YS, Jung EY, Suh HJ. *Asia Pac J Clin Nutr.* 2017;(26):4

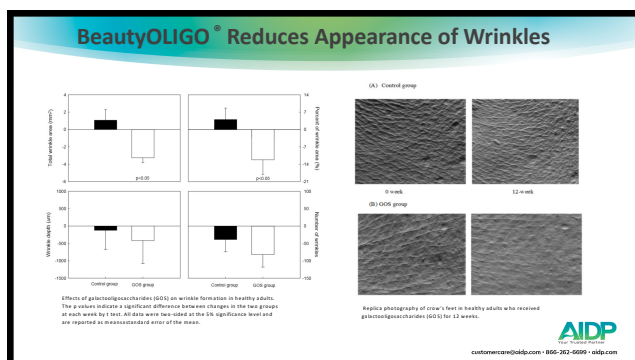
- 84 healthy Korean volunteers
- 30–69 years of age
- fine wrinkles at the outer corner of the eyes
- 1.0 g of GOS or Placebo twice a day

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BeautyOLIGO[®] Supports Skin Tone - Hyperpigmentation

Inhibitory effect of galactooligosaccharide on skin pigmentation.
Prev. Nutr. Food Sci. 2019;24(3):321-326

In vitro study:

- effects of BeautyOLIGO on melanin accumulation in B16F10 cell model

Randomized, Double-Blind, Placebo Controlled Trial:

- N=79 (mean age 50-51 yrs)
- Placebo Group (n=39): 1 g dextrin 2x daily
- GOS Group (n=40): 1 g BeautyOLIGO 2x daily
- 12 weeks
- Changes in melanin index and erythema index

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BeautyOLIGO[®] Reduces Melanin and Erythema Index

Table 1. Changes in skin value indexes during 12 weeks of galactooligosaccharide (GOS) treatment

Variable	Group	Time (week)			
		Baseline	4	8	12
MI	Placebo (N=40)	160.08±4.28	159.53±4.05	154.72±3.92	155.65±4.13
	GOS (N=39)	161.84±5.57	158.42±4.48	145.88±4.94***††	145.55±5.03***††
EI	Placebo (N=40)	279.89±8.15	270.56±7.34	270.13±7.93	273.62±7.17
	GOS (N=39)	282.85±7.53	258.81±9.04***	253.57±9.30***†	253.85±8.11***†

Asterisk indicates a significant difference (***P<0.001) between baseline and change from baseline at each week, as calculated by a repeated measure ANOVA followed by Bonferroni-adjusted pairwise comparisons within groups. Significant differences were indicated by daggers (†P<0.05 and ††P<0.01 between changes in two groups at each week by t-test). Values are mean±SEM. MI, melanin index; EI, erythema index.

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Thank You

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