Attenuating the Consequences of Ethanol Exposure With Probiotics

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Fetal Alcohol Syndrome alters development that translates to life-long health problems. Probiotic treatment has known to have health benefits that may alleviate these problems. The purpose of this experiment was to examine the effects of alcohol (EtOH) and probiotic Lactobacillus rhamnosus GG (LGG) on alcohol-exposed fruit flies as well as to see what developmental effects would occur. The fly larvae were given LGG, EtOH, and LGG+EtOH. Although similar pupa counts were observed, EtOH flies showed less adults. LGG also lessened the ethanol's effects on fly mass as well as mutagenic effect. Based on these results, LGG has potential to provide a treatment to infants with Fetal Alcohol Syndrome.

Awards Won: