

Beta 1,3-Glucan Anthrax Research

Glucan Source: Yeast	
Citation	Abstract
<p>Vetvicka, V, Terayama K, Mandeville R, Brousseau P, Kournikakis B, Ostroff G</p> <p>Orally-administered Yeast β1,3-glucan prophylactically protects against anthrax infection and cancer in mice</p> <p>Journal of the American Nutraceutical Association. Vol. 5, No. 2, Spring 2002: 16-20.</p>	<p>β1,3-glucans from various bacterial, mushroom, yeast, and cereal sources have been established as immunomodulators. In the present paper we demonstrate that orally-administered yeast β1,3-glucan had significant effects as a prophylactic treatment to reduce the mortality of anthrax infection in mice. In addition, the same type of treatment also inhibited the growth of metastatic cancer cells <i>in vivo</i>. The mechanism of action involves the stimulation of three important cytokines: IL-2, IFN-γ, and TNF-α. These results provide preclinical evidence for the beneficial effects of orally-administered yeast β1,3-glucan.</p>