

Medicinal Mushrooms for Cancer

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References

1. Vannucci L, et al. Immunostimulatory properties and antitumor activities of glucans (review). *Int J Onc.* 2013;43: 357-364.
2. Stone B, Clarke A. Chemistry and biology of (1,3)-D-glucans. 1992, Victoria, Australia:La Trobe University Press
3. Chi-fung Chun G, et al. The effects of B-glucan on human immune and cancer cells. *J Hema Onc.* 2009. 2:25.
4. Eliza W, et al. Efficacy of Yun Zhi (*Coriolus versicolor*) on survival in cancer patients: systematic review and meta-analysis. *Recent Pat Inflamm allergy drug discov* 2012 Jan; 6 (1): 78-8
5. Frizz H, et al. Polysaccharide K and *Coriolus versicolor* extracts for lung cancer: A systematic review. *Integr Cancer Ther.* 2015 May; 14 (3): 201-11
6. Jin X, et al. *Ganoderma lucidum* (Reishi mushroom) for cancer treatment. *Cochrane Database of Systematic Reviews* 2016, Issue 4. Art. No.: CD007731.
7. Gao Y, et al. Effects of ganopoly (a *Ganoderma lucidum* polysaccharide extract) on the immune functions in advanced-stage cancer patients. *Immunol Invest.* 2003. Aug; 32 (3): 201-15
8. Deng G, et al. A phase I/II trial of a polysaccharide extract from *Grifolia frondosa* (Maitake mushroom) in breast cancer patients: immunological effects. *J Cancer Res Clin Oncol.* 2009. Sep; 135(9): 1215-21
9. Yang D, et al. Prevention of postoperative recurrence of bladder cancer: a clinical study. *Zhonghua Wai Ke Za Xhi.* 1999 Aug; 37(8): 464-465
10. Yamaguchi Y, et al. Efficacy and safety of orally administered *Lentula edodes* mycelia extract for patients undergoing cancer chemotherapy: a pilot study. *Am J Chin Med.* 2011; 39(3): 451-459
11. Shigama K, et al. Alleviating effect of active hexose correlated compound (AHCC) for anticancer drug-induced side effects in non-tumor-bearing mice. *J Exp Ther Oncol.* 2009;8:43-51
12. Matsui K, et al. Improved prognosis of postoperative hepatocellular carcinoma patients when treated with functional foods: a prospective cohort study. *J Hepatol* 2002;37:78-86.
13. Kang JH, et al. Ergosterol peroxide from Chaga mushroom (*Inonotus obliquus*) exhibits anti-cancer activity by down-regulation of the β -catenin pathway in colorectal cancer. *J Ethnopharmacol.* 2015 Sep 15;173:303-12.
14. Niwa Y, et al. Evidence that naturopathic therapy including *Cordyceps sinensis* prolongs survival in patients with hepatocellular carcinoma. *Integr Cancer Ther.* 2013. Jan; 12(1): 50-68
15. Li G, et al. Anticancer potential of *Herichium erinaceus* extracts against human gastrointestinal cancer. *J Ethnopharmacol.* 2014 Apr 28; 153(2): 521-30
16. Wong KH, et al. Neuroregenerative potential of lion's mane mushroom, *Herichium erinaceus* (Bull.: Fr.) Pers. (higher Basidiomycetes), in the treatment of peripheral nerve injury (review). *Int J Med Mushrooms.* 2012;14(5):427-46.
17. Nammex-organic medicinal mushroom extracts. Date retrieved: 2014 <<http://www.nammex.com/organic-mushroom-extracts/>>
18. Borchers A, et al. Mushrooms, tumors, and immunity: an update. *Exp Biol Med.* 2004 229: 393-406
19. Kamweru PK, Tindibale EL. Vitamin D and Vitamin D from Ultraviolet-Irradiated Mushrooms (Review). *Int J Med Mushrooms.* 2016;18(3):205-14
20. Dudhgaonkar S, et al. Suppression of the inflammatory response by triterpenes isolated from the mushroom *Ganoderma lucidum*. *Int Immunopharm.* 2009; 9:1272-1280
21. Gunde-Cinerman N. Medicinal Value of the Genus *Pleurotus* (Fr.) P. Karst (Agaricales s.1., Basidiomycetes). *Int J Med Mushrooms.* 1999;1:69-80
22. Hsieh T, Wu J. Regulation of cell cycle transition and induction of apoptosis in HL-60 leukemia cells by the combination of *Coriolus versicolor* and *Ganoderma lucidum*. *Int J Mol Med.* 2013 32(1): 251-7