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**Medicinal fungi** - Wikipedia

Medicinal fungi are fungi that contain metabolites or can be induced to produce metabolites through biotechnology to develop prescription drugs. Compounds successfully developed into drugs or under research include antibiotics, anti-cancer drugs, cholesterol and epertogon synthesis inhibitors, psychotropic drugs, immunosuppressants and

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**Mushroom**: List of the Best Fungi and Their Healing... Sep 18, 2012 · List of Medicinal Mushrooms Listed on Mushroom (Hericium erinaceus)The Lion’s Mane mushroom, otherwise known as Hericium erinaceus, is an edible and medicinal fungus endemic to some parts of eastern Asia. The fungus is very easily identifiable by the long spines that grow from its fruiting body, earning it the nickname of “the hedgehog mushroom” or...

**Aloe vera** - Wikipedia

Aloe vera has been widely grown as an ornamental plant. The species is popular with modern gardeners as a topical medicinal plant and for its interesting flower, form, and succulence. This succulence enables the species to survive in areas of low natural rainfall, making it ideal for rockeries and other low water-use gardens. The species is hardy in zones 6-11, and is...

**Ganoderma lucidum ( Lingzhi or Reishi)** - NCBI Bookshelf

In Chinese, the same name represents a combination of spiritual potency and essence of immortality, and is regarded as the “seed of spiritual potency,” symbolizing success, well-being, divine power, and longevity. Among cultivated mushrooms, G. lucidum is unique in that its pharmacological rather than nutritional value is paramount. A variety of commercial G. lucidum...

**Wound Healing and the Use of Medicinal Plants - Hindawi** Sep 22, 2019 · Cutaneous wound healing is the process by which skin repairs itself. It is generally accepted that cutaneous wound healing can be divided into 4 phases: haemostasis, inflammation, proliferation, and remodelling. In humans, keratinocytes re-form a functional epidermis (reepithelialization) as rapidly as possible, closing the wound and reestablishing tissue...

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**Antibiotics** - Wikipedia

With advances in medicinal chemistry, most modern antibacterial are semisynthetic modifications of various natural compounds. These include, for example, the beta-lactam antibiotics, which include the penicillins (produced by fungi in the genus Penicillium), the cephalosporins, and the carbapenems. Compounds that are still isolated from living organisms...
Moreover, dietary polysaccharides that reach the human large intestine have a major impact on gut microbial ecology and health. Insight into the molecular mechanisms by which different gut polysaccharide utilization by gut bacteria: potential for new insights from genomic analysis

In this paper, we will look at one area of health where mushrooms can be of great benefit—the immune system. We are all quite aware of the implications of a weak immune system. Simply put, a compromised immune system means that the body is unable to fight off infections and diseases effectively. This is where the role of polysaccharides comes into play. Polysaccharides are a type of carbohydrate that are often found in plants, fungi, and bacteria. They are known for their immune-stimulating properties and their ability to enhance the body's immune response.

**What Are Polysaccharides?**

Polysaccharides are complex carbohydrates that are made up of multiple monosaccharide units. They are found in a variety of foods, including plants, fungi, and bacteria. Polysaccharides can be classified into three main categories: starches, glycogen, and cellulose. Starches are the main energy storage molecules in plants, while glycogen is the main energy storage molecule in animals. Cellulose is a type of polysaccharide that is found in the cell walls of plants and is the most abundant organic compound on earth.

**How Do Polysaccharides Work?**

Polysaccharides have been shown to have a variety of health benefits, including being prebiotics. Prebiotics are a type of fiber that is not digested by the body, but instead acts as a food for the beneficial bacteria in the gut. This can help to improve gut health and promote a healthy balance of bacteria.

**Polysaccharides and Immune Function**

Polysaccharides have been shown to have immunostimulatory effects, which means that they can help to enhance the immune system. One study found that a polysaccharide extracted from a type of mushroom could stimulate the production of cytokines, which are signaling molecules that are important for immune function.

**Polysaccharides and Anti-Inflammatory Effects**

Polysaccharides have also been shown to have anti-inflammatory effects. This is important because inflammation is a key factor in many chronic diseases, including cardiovascular disease, diabetes, and cancer. A study found that a polysaccharide extracted from a type of mushroom could reduce inflammation in animals with-induced inflammation.

**Conclusion**

In conclusion, polysaccharides are a type of carbohydrate that have a variety of potential health benefits. They can act as prebiotics, enhance immune function, and reduce inflammation. However, more research is needed to fully understand the potential of polysaccharides in promoting health and preventing disease.