



## The Biological and Pharmaceutical Properties of Royal Jelly

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### Description

Royal jelly is a yellowish-white, acidic fluid produced by nursing bees' hypopharyngeal and mandibular glands, which is used to feed young worker larvae for the first three days and for the rest of the queen's life. RJ is a highly regarded and appreciated natural product that has long been utilised in traditional medicines, health foods, and cosmetics in various parts of the world. It's also the most researched bee product, with researchers looking at antibacterial, antioxidant, anti-aging, immunomodulatory, and general tonic properties in laboratory animals, microbiological species, farm animals, and clinical trials. It's often used to treat cancer, diabetes, heart disease, and Alzheimer's disease, among other ailments. For a thorough understanding of the biochemical, biological, and pharmacological responses to human health promotion and life advantages, we emphasise recent research breakthroughs on the primary bioactive constituents of Propolis, bee pollen, and royal jelly are just a few of the compounds found in honeybee products, all of which have long been renowned for their medicinal and health-promoting characteristics. Since antiquity, their vast biological effects have been known and exploited. Natural antioxidants such as flavonoids, phenolic acids, and terpenoids are thought to be present in bee products. Natural substances capable of counteracting the effects of oxidative stress underlying the pathogenesis of a variety of diseases, such as neurodegenerative disorders, cancer, diabetes, and atherosclerosis, as well as the negative effects of various harmful factors and drugs, are currently being studied. Apitherapy is a sort of complementary medicine that uses honeybee prod-

ucts such as honey, propolis, and royal jelly. Royal jelly is a yellowish-white fluid made by nurse bees' hypopharyngeal and mandibular glands and used to nourish queen bees and young worker larvae. Due to its remarkable benefits, this natural product has been regarded as a gold mine for traditional and natural medicine for generations. Royal jelly has been utilised in commercial medicinal items for a long time. It has been shown to have antibacterial, anti-inflammatory, vasodilator, hypotensive, anticancer, estrogen-like, antihypercholesterolemic, and antioxidant properties. This supplement is commonly used to treat conditions like cardiovascular disease, Alzheimer's disease, sexual dysfunction, diabetes, and cancer. The study's major goal is to demonstrate the efficacy of royal jelly supplementation in treating menopause symptoms and aging-related disorders. This product of the hypopharyngeal glands of worker bees contains a large number of proteins, some of which have been claimed to have various biological effects only in their glycosylated state; this product of the hypopharyngeal glands of worker bees has received attention because of its necessity for the development of queen honeybees as well as claims of benefits on human health. Despite prior glycomic and glycoproteic studies, none of the previously identified glycan structures appear to have the potential to trigger specific biological processes. In everyday life, skin injuries are unavoidable. Chronic wounds have become a significant concern in clinical practise in recent years, as the morbidity of diseases such as diabetes and metabolic disorders has increased. Since ancient times, royal jelly, which is said to have a variety of biological and physiological features, has been utilised as a wound treatment for a variety of wounds.