

## Antibacterial Activity Of Bee And Yemeni Sidr Honey

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Antibacterial Activity Of Bee And antibiotics Review Antimicrobial Activity of Bee-Collected Pollen and Beebread: State of the Art and Future Perspectives Nikos Asoutis Didaras 1, Katerina Karatasou 2, Tilemachos G Dimitriou 1, Grigoris D. Amoutzias 3 and Dimitris Mossialos 1,\* 1 Microbial Biotechnology-Molecular Bacteriology-Virology Laboratory, Department of Biochemistry & Biotechnology, University of Thessaly, 41500 Volos ...

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### Antimicrobial Activity of Bee-Collected Pollen and ...

The authors studied the effect of storage period and heat on the physical and chemical properties of honey and proceeded to study the antibacterial effect of honey on *Escherichia coli* and *Salmonella typhimurium*. In samples of honey (Egyptian clover honey) that were heat-treated and stored over a long period of time, water content decreased, hydroxymethyl furfural (HMF) was produced and increased in concentration, and enzyme activity decreased.

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### Antibacterial activity of bee honey and its therapeutic ...

Research on beebread has been rather limited until now. In recent years, there is an increasing interest regarding the antimicrobial properties of BCP and beebread, due to emerging antimicrobial resistance by pathogens. Both BCP and beebread exhibit antimicrobial properties against diverse pathogens, like bacteria and fungi.

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### Antimicrobial Activity of Bee-Collected Pollen and ...

Bee venom (BV) has been used in traditional Eastern medicine to reduce pain and treat chronic inflammatory diseases. Various studies have demonstrated the biological activity of BV. In addition, BV has been reported to have various physiological activities such as antibacterial, anticancer, and anti-inflammatory effects [10,11,12]. BV contains various peptides, amines, nonpeptide components, and free amino acids, which are presumed to have anti-inflammatory, analgesic, and anticancer effects.

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### The antibacterial activity and toxin production control of ...

Antibacterial activity, (M IC), Growth curve, Honey, Gram positive and Gram negative bacteria Honey has the ability to fight food-borne pathogens as *E. coli* and *salmonella*, and other certain bacteria, including *Staphylococcus aureus* and *Pseudomonas aeruginosa*,. The antibacterial activity of local Isis and Yemeni Sidr honeys against

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### Antibacterial Activity of Bee and Yemeni Sidr Honey ...

The artificial solid-state fermentation of the bee pollen showed a positive effect on antioxidant properties and antimicrobial activity. Non-pasteurized bee pollen spontaneous fermentation or fermentation with added bacteria led to increased antioxidant activity by 1.27–2.40 times, antibacterial activity by 1.08–16.9 times and antifungal activity – by 1.96–5.52 times.

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### Antimicrobial and antioxidant activities of natural and ...

Among the various purified PLA 2 enzymes examined for antibacterial effects, crotoxin B, daboia toxin, mulgatoxin and bee venom PLA 2

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exhibited significant activity against *S. aureus*, *E. coli*, *P. aeruginosa* and *E. aerogenes*, with the highest activity noted only for the basic PLA 2 crotoxin B .

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Antibacterial activity of snake, scorpion and bee venoms ...  
During recent years, the antimicrobial activity of natural products and especially products of the hive is gaining importance and unlike other bee products, beeswax has been only recently studied. Crude beeswax showed antibacterial activity against several bacterial strains and against the *Candida albicans* (*C. albicans*) yeast .

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Beeswax: A minireview of its antimicrobial activity and ...  
The antibacterial activity of honey is mostly depicted by the collective effect of acidity, osmolarity, hydrogen peroxide activity, and phenolic compound content [Molan, 1992]. In this study,...

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The Antibacterial Activity of Honey - ResearchGate  
The nature of antibacterial activity. *Bee* . World. 1992; 73:5–28. [7]  
Molan PC. ... and *S. enteritidis*. The antimicrobial activity of water-diluted honeys (Sidr and Talh) was high than that of ...

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(PDF) Antimicrobial Activity of Honey  
The antimicrobial activity of this product is highly complex. Generation of hydrogen peroxide, bee defensin-1, high osmolarity and low value of pH seems to be crucial for its antimicrobial potential. Considering honey as a therapeutic, antimicrobial agent special attention deserves Manuka honey.

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Antimicrobial Activity of Honey | IntechOpen  
The inhibition-zone assays revealed that antimicrobial activity is weakly detected in worker larvae 6 h p.i. (Figure 1B), whereas the first occurrence of antimicrobial activity in infected drone larvae was observed as early as 4 h p.i. (Figure 1D).

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Antibacterial Immune Competence of Honey Bees (*Apis* ...  
This review aims to characterize the latest scientific reports in the field of antibacterial activity of this substance. The results of studies on the influence of propolis on more than 600 bacterial strains were analyzed. The greater activity of propolis against Gram-positive bacteria than Gram-negative was confirmed.

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Antibacterial Properties of Propolis  
Aims: Venoms of snakes, scorpions, bees and purified venom

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phospholipase A 2 (PLA 2) enzymes were examined to evaluate the antibacterial activity of purified venom enzymes as compared with that of the crude venoms. Methods and Results: Thirty-four crude venoms, nine purified PLA 2 s and two l -amino acid oxidases (LAAO) were studied for antibacterial activity by disc-diffusion assay (100 ...

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Antibacterial activity of snake, scorpion and bee venoms ...  
The antibacterial activity of honey that had been stored over a long period of time decreased and high concentrations of honey proved more effective as antibacterial agents. In this study there was lower mortality among mice treated with honey but the parenteral application of honey and its therapeutic properties require further investigation.

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[PDF] Antibacterial activity of bee honey and its ...  
The antimicrobial activity of honey of the stingless bee *beecheii*. The availability of hydrogen peroxide in honey as well as its hyperosmolarity and acidic properties, honey possesses significant inhibitory activity on the proliferation of bacteria.

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The antimicrobial activity of honey of the stingless bee ...  
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Antibacterial Activity Of Bee And Yemeni Sidr Honey  
Antibacterial activity against *Staphylococcus aureus* and *Pseudomonas aeruginosa* was expressed as a minimum inhibitory and bactericidal concentrations (MIC and MBC). Furthermore, the content of bee-derived glucose oxidase (GOX) and its enzymatic product, H<sub>2</sub>O<sub>2</sub>, were also evaluated.

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Antibacterial potential of Swiss honeys and ...  
The purpose of this study was to investigate the antifungal effect of bee venom (BV) and sweet bee venom (SBV) against *Candida albicans* (C. albicans) clinical isolates.

Honey Analysis - New Advances and Challenges discusses advances in honey research. Topics include the physicochemical characteristics of honey from stingless bees, the therapeutic properties of honey,

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melissopalynological analysis as an indicator of the botanical and geographical origin of honey, and methods for authenticating honey. Written by experts in the field, this book provides readers with an indispensable source of information, assisting them in future investigations of honey and beekeeping.

This book presents an updated discussion of the chemical composition and biological properties of the main bee products. Specific attention is focused on the beneficial biological activities of bee products in human health. Honey, royal jelly, propolis, bee pollen and bee venom are used as nutriment and in traditional medicine. Their composition is rather variable and depends on the floral source and external factors, such as seasonal, environmental conditions and processing. Bee products are rich in several essential nutrients and non essential nutrients, as sugars, minerals, proteins, free amino acids, vitamins, enzymes and polyphenols, that seem to be closely related to their biological functions. The effects of these products in nutrition, aging and age-related diseases, cancer, neurodegenerative diseases and pathogen infections are discussed.

The nature and diversity of presentations at the conference on: "Bee Products: Properties, Applications and Apitherapy" held at Tel-Aviv on May 26-30, 1996, emphasize the increasing interest of physicians, practitioners, scientists, herbalists, dieticians, cosmeticians, microbiologists, and beekeepers in different facets of bee products. This volume consists of a selection of 31 contributions presented at the conference and which provide information on the present status of our knowledge in this area. In spite of their diversity, they reflect the mainstream of the conference, namely: "Imported" Products (honey, pollen and propolis), Exocrine Secretions of Workers (venom, royal jelly). Toxicity and Contaminants, Quality Control, Marketing, Apitherapy, Cosmetics, etc. Since antiquity, honey as well as other bee products were used as food, as a cure for ailments of humans and animals, and as cosmetics. We hope that this volume will contribute to interdisciplinary studies on chemical composition, pharmacological effects, nutrition, and other aspects of bee products. Critical and unbiased experimental research may unravel the yet unknown composition and mode of action of bee products and elucidate many unanswered questions. The noteworthy features of this conference were the participants from all parts of the world and of different cultural backgrounds, who shared their keen interest and curiosity regarding honey bees and their products. We thank all of them for their personal contribution to the success of this conference.

This book focuses on the usage and application of plant- and animal-based food products with significant functional properties and health benefits as well as their development into processed food. Many chapters in this book contain overviews on superfood and functional

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food from South America. Details on the functional properties of apiculture products are also included herein. Additionally, an area that is not widely discussed in academia - pet food with functional properties - is also covered. It is hoped that this book will serve as a source of knowledge and information to make better choices in food consumption and alterations to dietary patterns. It is also recommended for readers to take a look at a related book, Superfood and Functional Food - The Development of Superfoods and Their Roles as Medicine.

Bee venom and its melittin fraction were shown to have antibacterial activity against a penicillin-resistant strain of *Staph aureus* (strain 80). This activity of bee venom and melittin was demonstrated by a method similar to that used for plate sensitivity tests. Both whole bee venom and its melittin fraction were also able to inhibit the growth of 20 of the 30 different bacterial organisms tested. More Gram positive organisms (86%) were sensitive to bee venom and to melittin than Gram negatives (46%). The antibacterial activity of bee venom and melittin were of the same magnitude. The zones of inhibition created by bee venom and melittin were compared with those caused by penicillin, and the equivalent units of penicillin were computed. The antibiotic potency of a single bee sting was also determined. Among the Gram positives, the antibacterial effect of a 1:10 dilution of whole liquid bee venom was equal to that of penicillin at a concentration of 0.093 to 17.0 units/ml. The same dilution of bee venom when tested against Gram negative organisms compared to a higher range of penicillin values-93 to 1,700 units/ml.

The stingless bees are one of the most diverse, attractive, fascinating, conspicuous and useful of all the insect groups of the tropical world. This is a formidable and contentious claim but I believe it can be backed up. They are fifty times more species rich than the honey bees, the other tribe of highly eusocial bees. They are ubiquitous in the tropics and thrive in tropical cities. In rural areas, they nest in a diversity of sites and are found on the flowers of a broad diversity of crop plants. Their role in natural systems is barely studied but they almost certainly deserve that hallowed title of keystone species. They are popular with the general public and are greatly appreciated in zoos and gardens. The chapters of this book provide abundant further evidence of the ecological and economic importance of stingless bees.

Venoms of the Hymenoptera: Biochemical, Pharmacological, and Behavioral Aspects contains papers that deals with the study of the venoms and toxins produced by insects belonging to the order of the Hymenoptera. The book provides a considerable amount of information in the study of the venoms of the Hymenoptera. There are chapters that focus on the history of the research made on the order of the Hymenoptera; the stinging apparatus; venom collection; physiological effects of venoms produced by particular insects belonging to the

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order; and the pharmacological uses of the venoms and toxins. Entomologists, physiologists, pharmacologists, biochemists, and researchers developing drugs and pesticides will find this text extremely useful.

Polyphenols in Prevention and Treatment of Human Disease, Second Edition authoritatively covers evidence of the powerful health benefits of polyphenols, touching on cardiovascular disease, cancer, obesity, diabetes and osteoporosis. This collection represents the contributions of an international group of experts in polyphenol research who share their expertise in endocrinology, public health, cardiology, pharmacology, agriculture and veterinary science. Researchers from diverse backgrounds will gain insight into how clinical observations and practices can feed back into the research cycle, thus allowing them to develop more targeted insights into the mechanisms of disease. This reference fills a void in research where nutritionists and alternative therapies may be applicable. Describes polyphenol modulation of blood flow and oxygenation as a potential mechanism of protection against vascular atherosclerosis Describes how polyphenols and antioxidants frequently change immune defenses and actions Focuses on the most important areas of research and provides insights into their relationships and translational opportunities

Staphylococcus was first recognized as a human pathogen in 1880 and was named for its grape cluster-like appearance. In 1884, Staphylococcus aureus was identified and named for its vibrant golden color, which was later found to be the result of golden toxin production. Here, experts examine in-depth patterns of S. aureus colonization and exposures in humans, mammals, and birds that have led to the development of various clinical diseases. The mode of transmission of S. aureus and different methods for its detection in different samples are defined. Conventional antibiotic options to treat this aggressive, multifaceted, and readily adaptable pathogen are becoming limited. Alternative, novel chemotherapeutics to target S. aureus are discussed in the pages within, including herbal medicines, bee products, and modes of delivery.

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