



BEE LINES

Regularly scheduled meetings are on the 2nd Tuesday of each month at 7 pm at [1305 Pine Avenue in Snohomish](#) in the Christ the King Lutheran Church building.

May 09

Northwest District Bee Keepers Assn

Meeting April 14th 2009

The meeting was called to order by President, Scott Jenrich. The minutes of the March meeting were approved.

Spring management of hives was the subject of conversation. The weather has been too cold and we are about 6 weeks late. Cleaning hives, re-queening, and general housekeeping measures and feeding were discussed. Many people are buying their bee packages now and it was decided that a 4-pound package gives the better start, especially when the weather has been cool.

The meeting was adjourned at 8:45, next meeting May 12th.

Respectfully submitted,

Donna Wirt, Secretary

Next MTG Agenda.

Introductions

Approval of Minutes

Guest speaker (we are still trying to confirm a guest speaker) additionally we will be discussing members suggestions for useful or timesaving tools that they use, please feel free to bring to the meeting. Now may also be a good time for new beekeepers to bring questions they may have

about recently installed packages. Also if you need the input of a mentor now would be a good time to contact Rachael (beez neez) she has the list of available mentors, I can testify from experience that they are very helpful to new beekeepers.

Swarm List

Our current list has been sent out to several local and county agencies, good luck.

Events.

Hello Northwest District Beekeepers, Dr. Steve Sheppard, his students, and WSBA are hosting a beekeeping field day in Pullman, WA on June 12-13. For just \$10 a person, and \$20 per family (lunch included!), it looks like a lot of fun. To help get the word out, please forward this email along with the attachments to your membership. Or, direct them to our website, www.wasba.org where the documents will also be available.

Thanks much,
Lisa Knox
WSBA Field Day coordinator

In the News.

Bee Propolis Stops Tumors from Neurofibromatosis and Cancer

(NaturalNews) Honeybees are some of the most amazing creatures ever created by nature. They play a vital role in much of the food supply through



BEE LINES

Regularly scheduled meetings are on the 2nd Tuesday of each month at 7 pm at [1305 Pine Avenue in Snohomish](#) in the Christ the King Lutheran Church building.

May 09

pollination, and they provide people with a healthy natural alternative to sugar. Some of the most interesting aspects of bees are the substances they make to use themselves. Propolis is a natural resin found in young tree buds. Bees collect it for use as a glue to seal their homes. Propolis is an exceedingly complex product that contains substances that prevent and treat diseases ranging from cancer to the common cold. Recent research has documented the ability of propolis to suppress the growth of human tumors from neurofibromatosis and cancer.

Compound from propolis halts tumor process in clinical trials

Neurofibromatosis is a genetic disorder that can produce coffee colored skin patches, but it is best known for producing tumors on nerve tissue including the nerves involved in hearing. Tumors from neurofibromatosis can grow anywhere else in the body including the brain and spinal cord, and if surgically removed, they can return. The condition of neurofibromatosis can be life threatening. Neurofibromatosis affects one in every 3000 people. The body processes that form neurofibromatosis tumors are responsible for about 70% of human cancers.

Propolis halted neurofibromatosis tumor growth in a group of cancer patients taking part in a study by scientists at Universitaets Klinikum Eppendorf in Hamburg, Germany. Dysfunction of the NF1 or NF2 gene coding is the major cause of neurofibromatosis. Researchers had previously demonstrated that the human gene PAK1 is essential for the growth of both NF1 and NF2 tumors. Although several attempts have been made to develop anti-PAK1 drugs, none have been successful.

Since bee propolis contains anticancer ingredients caffeic acid phenethyl ester (CAPE) and artemisinin (ART), both of which block the oncogenic PAK1 signaling pathways, its potential therapeutic effects on NF tumors were explored in vivo. It was demonstrated that a CAPE-rich extract of propolis mixed with water completely suppressed the growth

of human NF1 and caused an almost complete regression of human NF2 (Schwannoma), that had been grafted in mice. The scientists stressed that although CAPE is not used clinically due to its poor bioavailability, it can be made soluble with the addition of lipids (fats). (*Phytotherapy Resources*, February)

In an earlier study, this German team identified CAPE's anti-cancer abilities. CAPE is a natural compound found in some foods, but is highly concentrated in bee propolis. Previously, propolis had been known only to have anti-cancer function through its profound ability to boost the immune system. Clinical trials to test the compound on humans are ongoing. So far, cancer patients taking part have seen their tumor growth halted. The compound's effect on neurofibromatosis, melanoma and pancreatic cancer is being investigated. Although the trials are still in early stages, the majority of patients have shown no further growth of their tumors. Those in charge of the study believe that several other PAK-1 dependent diseases such as AIDS and Fragile X mental retardation syndrome can be impacted by the compound.

Propolis is effective against cancer of the larynx

Scientists in Brazil recently investigated the effects of propolis on human laryngeal epidermoid carcinoma. They incubated cells with different concentrations of bee propolis for different time periods. Then they analyzed morphology and number of viable cancerous cells. Their data showed that propolis exhibited the ability to kill cancerous cells in a dose and time dependent manner. (*Evidence Based Complementary and Alternative Medicine*, October 22, 2007)

Propolis keeps tumors from setting up their own blood supplies

In other recent research, researchers examined the ability of propolis components to stop tumors from



BEE LINES

Regularly scheduled meetings are on the 2nd Tuesday of each month at 7 pm at [1305 Pine Avenue in Snohomish](#) in the Christ the King Lutheran Church building.

May 09

developing their own blood supplies. When blood supply to a tumor is cut off, it can no longer receive nutrients to fuel its growth. Acacetin, apigenin, artemisinin, CAPE, chrysin, p-coumaric acid, galangin, kaempferol, pinocembrin, and quercetin were studied for their antioxidant activity as well.

Two of the components, CAPE and quercetin, possessed strong inhibitory effects on tube formation and endothelial cell proliferation, and coincidentally showed strong antioxidant activity. Artemisinin, galangin, and kaempferol also possessed strong ability to block tumor blood supply. Each had strong antioxidant activity although not to the degree of CAPE and quercetin. In contrast, acacetin, apigenin, and pinocembrin possessed a considerable degree of effect against blood supply formation, although they demonstrated low antioxidant activity. The scientists noted the potential for these compounds to be developed into pharmaceutical drugs for the treatment of human tumors. (*Molecular Nutrition and Food Research*, December 8, 2008)

Bee propolis rejuvenates the immune system

The first double-blind study of propolis involved a team of five doctors led by Professor S. Scheller in Poland, who found that propolis had the power to prolong the prime of life by stimulating the immune system to release substances that protect against cellular deterioration. In addition, propolis boosted the destruction of potentially harmful foreign bacteria and stimulated the formation of antibodies to build immunity to many diseases. This strengthening of cellular defense helps build resistance to aging and illness.

Phagocytes are the white blood cells that serve as the primary defense against bacterial infections. Their activity was found to be increased by propolis. As people reach their 30s and 40s, the immune system generally begins to weaken, increasing susceptibility to disease. Propolis offers wide spectrum activity through its broad range of flavonoids and other cell-building compounds, such as vitamins,

minerals and enzymes. Flavonoids from propolis can block the release of histamine by stabilizing cell membrane lipids. Flavonoids guard against deposits of aging lipofuscins, which is fatty pigment in the heart, brain, nerves and liver.

Here are some comments from Dr. Scheller about his findings regarding propolis as quoted in Carlson Wade's article *Can Bee Propolis Rejuvenate the Immune System*:

"There was an increase in general physical performance, also sexual, and above all intellectual.

"In the gastro-enterological area, we found a favorable effect on infectious changes in the mucous membranes of the stomach and intestines.

"There was an accelerated and intensified regeneration of injured tissue on traumatically or infectiously altered tissues.

"There were no unequivocally negative changes in the white blood picture or in the liver or kidney values. Among other things, this substantiates the absence of side effects of propolis as well as its non-toxicity

"In our paper, we particularly studied the effect on the immune system and documented further positive effects of propolis on circulation, metabolism, physical well-being and infectious diseases.

"Simulate the immune system, and it is possible to control the aging process and enjoy a long and healthy life. Propolis holds the key to this form of inner rejuvenation."

Propolis is effective against a variety of bacteria and viruses

A bee hive is a busy place crammed full of bustling bodies. These conditions would make them very susceptible to bacterial and viral infections, which could destroy the hive the way the Bubonic Plague ravaged Europe in the 17th century. Yet bees are able to prevent infection by using sap from young trees that has antibiotic properties. They gather the sap, re-metabolize it with their nectar secretions, and take it back to the hives. There they spread it all over the place so that every bee will brush against it and



BEE LINES

Regularly scheduled meetings are on the 2nd Tuesday of each month at 7 pm at [1305 Pine Avenue in Snohomish](#) in the Christ the King Lutheran Church building.

May 09

become immunized. The tree antibiotic becomes the bee antibiotic.

Studies have documented the ability of propolis against *Staphylococcus aureus* that causes deadly infections in hospitals. Researchers found that extracts of propolis inhibited the growth of the bacteria.

Another study documented that propolis inhibited the activity of streptococcal bacteria species that cause dental cavities. Japanese researchers reported that propolis fed laboratory rats had far fewer cavities than those given a regular diet.

Researchers in Brazil recently evaluated the antimicrobial activity of two experimental pastes containing propolis extract associated with calcium hydroxide against polymicrobial cultures collected from molars of children. The paste was effective in controlling dental infections. (*Brazilian Dental Journal*, 2008)

Propolis is equally effective against viral infection. Several journals have documented its ability to fight upper respiratory infections, such as those caused by the common cold and influenza viruses. It has been shown to prevent viruses from reproducing, but it must be used throughout the infection period.

For more information see:

<http://www.thenutritionreporter.com...>

<http://thenaturalshopper.com/buy-be...>

<http://www.elearn-university.org/Me...>