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## News and Current Events:: Holy Anointing Oil, Cinnamon, and Alzheimers

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Study: Cinnamon Inhibits AlzheimerÂ's Disease

by Gil Ronen Follow Israel news .

Cinnamon has properties that inhibit the development of AlzheimerÂ's disease, according to a mouse model study carrie d out by researchers under the direction of Prof. Michael Ovadia of the Zoology Department at Tel Aviv UniversityÂ's Ge orge S. Wise Faculty of Life Sciences.

Several Life Sciences Faculty laboratories participated in the study, including those of Prof. Ehud Gazit (TAUÂ's Vice Pr esident for Research and Development), Prof. Daniel Segal, and Dr. Dan Frankel, and their students: Anat Frydman Ma or and Aviad Levin. The research findings were recently published in the scientific journal PLoS ONE.

Prof. Ovadia had found, in the course of past research, that an extract from the bark of the cinnamon plant possesses the ability to inhibit the infectivity of "enveloped" viruses, such as influenza, herpes, HIV, and other viruses. A later study showed that the same extract (one that is highly ultraviolet absorbent), also inhibits the accumulation of the β-am yloid (Aβ) polypeptide assemblies that cause neuron destruction and result in the development of AlzheimerÂ's disease.

The study was conducted in two stages. In the first, in vitro stage, the researchers demonstrated the ability of the cinna mon-bark extract to inhibit formation of the toxic intermediate β-amyloid oligomers and of Aβ fibrils. It also be came apparent, to the researchersÂ' surprise, that the extract was able to disassemble large intermediate oligomers and Aβ fibrils that had already formed. Thus, the extract may retroactively correct damage that has already occurred, meaning that, should it eventually be used prophylactically against AlzheimerÂ's disease, it might also be useful in restor ing functions impaired by the accumulation of oligomers and/or fibrils.

In the second stage of the study the researchers tested the substance on experimental animals commonly used in Alzh eimerÂ's research − fruit flies genetically altered to produce the Aβ peptide, and transgenic mice with five m utations that lead to the rapid development of AlzeimerÂ's disease.

In both models AlzheimerÂ's disease shortens the affected animalsÂ' lifespan and causes either a reduction in their nor mal activity or induces aggressive behavior. When the cinnamon extract was added to the fliesÂ' food or to the drinking water of the mice, it inhibited the development of AlzheimerÂ's disease: subsequently, the treated animals resembled he althy members of their species, both behaviorally and in terms of longevity.

## Protection from infectious agents

Why cinnamon? Prof. OvadiaÂ's answer to this question is a surprising one. Fifty years ago he won second place in Isra elÂ's National Bible Quiz for Youth. One of the quiz questions had to do with the composition of the holy ointment with w hich the High Priests − the Kohanim − anointed themselves before making ritual animal sacrifices.

Â"I had a blackout and almost lost the points, but fortunately managed to remember the components mentioned in the Ki Tisa portion and answered correctly just before the gong sounded,Â" Prof. Ovadia recalled. "I would recollect that questi on with dread whenever I read this Torah portion.Â"

"You have to take the bad along with the good, however, and now something good has come of it − one day it o ccurred to me that there must have been a good reason to provide the Kohanim with protection against the severe infect ion that can result from contact with animals and the blood pooling around them. Because most of the components of the anointing oil are unknown to us today ("sweet calamus," for instance), I focused on cinnamon. And, in fact, we succeeded in isolating from it a substance with important medicinal properties, as noted above."

Prof. Ovadia, who had already gained recognition for his work with snake venoms, thus decided to strike out on a differe

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nt path and study the properties of cinnamon.

Caution: too much raw cinnamon is dangerous

Prof. Ovadia: "There is a problem with this − raw cinnamon also contains substances that are harmful to the live r. Whereas one may consume 6 to 10 grams per day without damaging the liver, to reap the substanceÂ's medicinal ben efits, however, one would have to consume tens of grams per day at least, which starts to become dangerous. For this r eason we developed a means of extracting the active substance from the cinnamon and separating it from the toxic sub stances."

Tel Aviv University has submitted a patent application for the substance and its activity, via its technology transfer company, Ramot.

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