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Webinar

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Antidiabetic activity of Carob extracts and natural products

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Carob (*Ceratonia siliqua* L.) is an evergreen, fruiting tree, native to the Middle East and the Mediterranean basin. Humans used this tree since antiquity, mainly for nutritional purposes, where ripe fruits (pods, kibbles) were eaten fresh, as flour or after obtaining their viscous molasses (Roubb in Arabic, Pekmez in Turkish). Ripe Carob pods are also used for domestic animals' food. But unripe pods are also used to prepare various dishes and sweets. In addition to this, Carob tree different parts were used in traditional medicine to treat several health disorders such as mouth inflammation, diarrhea, and diabetes. Modern science has approved these properties and many others. In our presentation, we will introduce the notable antidiabetic activity of Carob products (extracts and natural products). Special attention will be given to natural products like D-Pinitol, fibers polysaccharides. The insulin-regulation activity of D-Pinitol will highlighted, along with some other important activities of this very healthy natural product.



Extracts

Antidiabetic Activity

Natural Products

2. Macho-Gonzalez, A. et al. (2017), Fiber purified extracts of Carob fruits decrease carbohydrate absorption. DOI: 10.1039/C7FO00166E

3. Rtibi, K. et al. (2017), *Ceratonia siliqua* L. (immature carob bean) inhibits intestinal glucose absorption, improves glucose tolerance and protects against alloxan-induced diabetes in rat. DOI: 10.1002/jsfa.809

4. Lambert, C. et al. (2018), Effects of a Carob-Pod-Derived Sweetener on Glucose Metabolism. DOI: 10.3390/nu10030271

5. Azab, A., D-Pinitol—Active Natural Product from Carob with Notable Insulin Regulation. DOI: 10.3390/nu14071453

Biography:

Dr. Abed Azab completed his PhD in **Medicinal Chemistry** in the **Hebrew University in Jerusalem**. He won the neuroscience excellence award. His career is diverse and included long chemistry teaching experience, **medicinal plants** research and director in the chemical industry. He is currently college chemistry teacher and Science to Health Administrator of Carobway Company.

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1. Azab, A. (2017), Carob (*Ceratonia siliqua*): Health, Medicine and Chemistry. DOI: 10.17628/ecb.2017.6.456-469

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