

4<sup>th</sup> International Conference on

# Clinical Microbiology and Microbial Genomics

October 05-07, 2015 Philadelphia, USA

## Antibacterial activity of honey

Ahmed Hegazi, Eman H Abdel- Rahman and Fayrouz Abd Allah Mahmoud  
National Research Centre, Egypt

Medical importance of honeybee products has been take the interest of medical and biologist scientists. The history of apitherapy extends back to ancient Egypt, China and Greece. Apitherapy (the term comes from the Latin *apis* which means “bee”), or bee therapy, is the use of honeybee venom for therapeutic purposes. The healing property of honey is due to the fact that it offers antibacterial activity. The antimicrobial activity in most honeys is due to the enzymatic production of hydrogen peroxide. Researchers have been interested in the investigation of isolated compounds responsible for honey action; since honey-containing products have been marketed and humans have used honey for different purposes. The efficacy of honey in different protocols *in vitro* and *in vivo* suggests its therapeutic identification and characterization of the active principle(s) may provide valuable information on the quality and possible therapeutic potential of honeys (against several health disorders of humans), and hence we discussed the medicinal property of honey with emphasis on their antibacterial activities. The goal of this review is to discuss the potential of honey for the development of new drugs, by comparing data from the literature that suggest candidate areas for the establishment of drugs due to bactericidal activity against antibiotic-resistant bacteria causing several life-threatening infections to humans.

## Biography

Ahmed Hegazi is currently a Professor of Microbiology and Immunology in the National Research Center, Egypt. Prof. Hegazi received his master's degree in 1979, and his PhD in 1981. Hegazi's research work has been focused lately on bee products and their therapeutic effects. Hegazi organized and contributed to national and international research projects since 1977 and up till now; he has been the principal investigator on multiple research projects within the National Research Center. He has published 207 scientific papers and articles in national and international journals. He also served on the board of multiple national and international scientific journals

[ahmed@ahmedhegazi.com](mailto:ahmed@ahmedhegazi.com)

Notes: