



Chemistry of Honey and Its Medicinal Values In Wound Infections

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Abstract:

Honey is a natural medicine that is valued to human health for many decades, and has been in use by mankind since ancient times. Among different compounds present in honey, many act as antioxidants (phenolics, flavonoids, ascorbic acid, etc.) as well as antibacterials, such as H₂O₂, high sugar contents and lactic acid. Both medical grade honey and indigenous honey display inhibitory action against gram-negative as well as gram-positive pathogenic bacteria including those that cause wound infection and infection to human skin. Currently honey is found important in curing surgical and burn wound infections, and in cosmetic therapies. The current study, thus, explores the medicinal properties of honey (possessing an array of chemical compounds) with emphasis on healing of dermal wounds secondary infection caused with microbial pathogens, and skin health modulation.

Biography:

Dr. Shyamapada Mandal, Professor, Department of Zoology, University of Gour Banga, India, is interested on infectious diseases, probiotics, and genomics and bioinformatics research. He did pre-PhD, PhD, and post-PhD research under the guidance of Professor Nishith Kumar Pal at Calcutta School of Tropical Medicine, India. He has published 110 articles with seven book chapters. He is life member of IAMM and IASR, India. Seven national academic and research awards have been conferred to him. He has guided 47 post graduate students; three MPhil and three PhD students have been awarded the degree, and five PhD students are working under the guidance of him.



Recent Publications:

- Shyamapada Mandal, Biomedicines. 2017
- Shyamapada Mandal, Asian Pac J Trop Med. 2012
- Shyamapada Mandal, Asian Pac J Trop Biomed. 2011
- Shyamapada Mandal, J Postgrad Med. 2006
- Shyamapada Mandal, J Biomed Biotechnol. 2005

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