

## عنوان مقاله:

!Pain: Sweet As Honey

## محل انتشار:

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## خلاصه مقاله:

Pain is a great challenge for human beings throughout life and "pain treatment is a human right" (۱-۳). As long as human has experienced pain, he has been seeking pain medications. However, his efforts have not always been promising. Usually, pain suppressing medications either could not fully suppress pain or have side effects; drug dependency and pharmacologic tolerance are among the important side effects (۴). Improvements in cellular and molecular approaches have enabled us to assess the underlying mechanisms of pain and pharmacological tolerance. Opioid tolerance is among the most unwanted side effects of opioid analgesics. Oxidative stress has been mentioned as an important factor in the development of morphine tolerance both through the destruction of cell defense systems and potential neuronal damages (۵). Several materials including pharmaceutical agents have been used to counteract the stress response. In the current issue of the Journal, Zakaria et al. have published their in vivo study, assessing the "effect of Apis dorsata Honey against Morphine Tolerance" and demonstrated "therapeutic role of A. dorsata honey in preventing morphine tolerance via inhibition of oxidative stress". They demonstrated that Apis dorsata Honey affected pain tolerance of the Sprague Dawley male rats and the level of lipid peroxidation marker, Malondialdehyde, and iNOS (level in morphine-tolerant rats' thalamus, spinal cord, and hippocampus with potential neuroprotective effects (۵).

## کلمات کلیدی:

## لینک ثابت مقاله در پایگاه سیویلیکا:

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