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## The possible mechanism of analgesic effect by *Trametes versicolor* treating formalin induced hyperalgesia of rats

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**Aim and Background:** The *Trametes versicolor* (TV) with the several biological activities including immunomodulation, anti-inflammation, anti-tumor, hypoglycemic, anti-oxidation, anti-bacterial and strengthen osteoporosis had been reported in previous studies. Hyperalgesia, which includes both acute and inflammatory processes, is characterized by an increased sensitivity to pain. Therefore, the anti-inflammation effect of TV may relieve the hyperalgesia. In an attempt to broaden the therapeutic application of TV, the formalin-induced hyperalgesia of rat will be a test animal model to explore the possible mechanisms of analgesia effect. According to previous explorations, the extracellular polysaccharides (EPS) had a strong relative to the nitric oxide (NO) and cytokines such as TNF-alpha, interleukins production. Besides, the bioactivities of mushrooms phytoosteroids, terpenoids and phenolic compounds also play important roles in the analgesic effects. Taken together, the hypothesis of mechanisms in analgesic effect by treated TV may be considered that impact the NO and cytokines production by the EPS or analgesic bioactivity components via anti-inflammation to cause an analgesic effect.

### Biography

Shih-Liang Chang, Oriental Medicine Doctor (PhD -medicine), now is a professor of Biomedicine, College Dean of Biotechnology & Bioresources and professor of the department of medicinal botanicals and health applications, Da-Yeh University, Changhua, Taiwan and Part-time professor of China Medical University, Taichung, Taiwan. He got the medicine doctoral degree (PhD) at China Medical University. His Medical and Relative Administrations as the following list: Director of the Chinese Medicine Association of Changhua, Taiwan, Chairman of the medicinal plant association of Changhua, Taiwan; Director of the Chinese Medical Association of Acupuncture, Taichung, Taiwan; Director of develop foundation in Chinese medicine, R.O.C.; Member of the Examination, The Examination Yuan, Taiwan, R. O. C.; Director of the National Union of TCM Doctors Association, Taiwan, R. O. C.; Member of the middle-branch Bureau of National Health Insurance, National Health Administration, Executive Yuan, Taiwan, R. O. C. Currently his researches focus on: The effect of electroacupuncture stimulation of plasma glucose regulation; Studies of mechanisms in electroacupuncture; The effect of medicinal plants and fungi on plasma glucose and blood pressure regulation. In the recent years, he got the award of excellent paper in the conference of the achievement in the cooperative project of Taichung Veterans General Hospital with middle Taiwan's universities in 2012&2014. The award of excellent Paper in the conference of WFAS in Malaysia, 2012; The award of special excellent person with research ability, National Science Council, Executive Yuan, Taiwan, 2012-2014; The award of advance academic, the cooperation, development and exchange association of both sides of the Taiwan Straits, 2011; The Third Prize of Oral Presentation, The conference of the achievement in the cooperative project of Taichung Veterans General Hospital with middle Taiwan's universities, 2010; The First Prize of Universities in Life education series activities, Ministry of Education, Taiwan, 2010; The Award of Excellent Paper, The conference of Union Universities in Changhua, Yunlin and Chiayi area, Taiwan, 2009; 2007 Asia/Pacific-WHO'S WHO, Volume Seventh Page 99.

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