

Bee Venom Therapy

Ross Conrad - www.dancingbeegardens.com

Immune System Diseases Helped with Bee Venom - Chronic fatigue syndrome, T cell suppression and B cell enhancement,

- Phospholipase A2-activating protein induces the synthesis of IL-1 and TNF in human monocytes. Bomalaski, J.S., et. al., *J Immunol*, April 15, 1995; 154(8):4027-31

Rheumatological Diseases Helped with Bee Venom - Rheumatoid Arthritis, Gout, Osteoarthritis, Bursitis, Tendinitis, Fibromyalgia, lupus, scleroderma

- Bee venom acupuncture for musculoskeletal pain: a review, Lee, M.S., et. al., *J Pain*, April 2008; 9(4):289-97 Epub January 28, 2008
- Bee venom induces apoptosis through caspase-3 activation in synovial fibroblasts of patients with rheumatoid arthritis. Hong, S.J., et. al., *Toxicon*, July 2005; 46(1):39-45
- Effect of bee venom on aromatase expression and activity in leukemic FLG 29.1 and primary osteoblastic cells. Kim, K.S., et. al., *J Ethnopharmacol*, June 3, 2005; 99(2):245-52 Epub April 11, 2005
- Antiarthritic effect of bee venom: inhibition of inflammation mediator generation by suppression of NF-kappaB through interaction with the p50 subunit. Park, H.J., et. al., *Arthritis Rheum*, Nov 2004; 350(11):3504-15
- Anti-inflammatory effect of bee venom on type II collagen-induced arthritis. Lee, J.D., et. al., *Am J Chin Med*, 2004; 32(3):361-7
- The effect of whole bee venom on arthritis. Kang, S.S., Park, S.C., Choi, S.H., *Am J Chin Med*, 2002; 30(1):73-80
- The analgesic efficacy of bee venom acupuncture for knee osteoarthritis: a comparative study with needle acupuncture. Kwon, Y.B., et. al., *Am J Chin Med*, 2001; 29(2):187-99
- Bee venom injection into an acupuncture point reduces arthritis associated edema and nociceptive responses. Kwon, Y.B., et. al., *Pain*, Feb 15, 2001, 90(3):271-80

Anti-Cancer - Malignant melanoma, basil cell carcinoma, lymphoma, breast and prostate cancer

- Use of Bee Venom components as a novel targeted therapy for some types of cancer, such as prostate and breast cancer - Therapeutic application of anti-arthritis, pain-releasing, and anti-cancer effects of bee venom and its constituent compounds, Son, D.J., et. al., *Pharmacol Ther*, August 2007; 115(2):246-70 Epub May 6, 2007
- Microarray analysis of gene expression in chondrosarcoma cells treated with bee venom. Yin, C.S., et. al., *Toxicon*, Jan 2005; 45(1):81-91

Dermatological - Topical ulcers, eczema, psoriasis, sclerolysis, corns

- Bee venom stimulates human melanocyte proliferation, melanogenesis, dendricity and migration, Jeon, S., et al., *Exp Mol Med*, Oct 31, 2007; 39(5):603-13

Nervous System – Multiple Sclerosis, Post herpetic neuralgia (shingles), chronic pain syndromes

Viral - Post herpetic neuralgia, warts (including planters warts), Epstein Barr virus (EBV), Mononucleosis

Endocrine - Fertility, cortisol secretion, stimulates endogenous plasma ACTH, premenstrual syndrome, menstrual cramps, irregular periods, mood swings, hypoglycemia

- BVT has been associated with both causing and curing miscarriages. May increase fertility in sterile women, but may increase risk of miscarriage in newly pregnant women.
- Increased bull sperm count at U. Penn – Dr. Alan Benton

Psychiatry – Depression (Not clear if anti-depressive effect is due primarily to disease improvement or direct action upon depression)