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### Changes in the effect of heat stress protein that transferred from one plant to another through capillary water and its treatment with Cantharis 200

Two pairs of rows of cowpea plants *Vigna unguiculata* (L) Walp, were grown in earthen pots, each row containing 10 plants. Plants in each pair were connected by polythene tubes filled in water, the ends being dipped into water of two beakers. In each beaker, a mature leaf was immersed. Plants in one row of a pair were given heat stress through hot water while the corresponding water connected row of the same pair remained unstressed. Plants in one row of the second pair treated with Cantharis 200C, a homeopathy potency, used for the treatment for burns. The corresponding water connected row of this pair remained untreated. Another single row of plants served as the unstressed and untreated control. After a fixed time leaves of all the plants were harvested and homogenized. Leaf proteins of the plants in each row were separated by Fast Protein Liquid Chromatography (FPLC). Leaf protein profile of the heat stressed plants showed similarity with that of unstressed but water connected plants. Cantharis-treated plants and the corresponding untreated but water connected ones showed similarity in the leaf protein profile. Leaf protein profile of the control plants was different from that of the two groups. It appears that an external stimulus to a plant brings about a change in the water structure in the plant which is transmitted through the Global Molecular Network (GMN) of water connecting the two plants.

### Biography

Anirban Sukul has completed his PhD from Visva-Bharati University and Research Associate-ship from same university. He is the Director of Sukul Institute of Homeopathic Research, Kolkata, India. He has published 22 papers in international journals and authored a book published by Kluwer Academic Publishers, Netherlands. He is conferred the Junior Scientist Award, Life Time Achievement Award, Gold Medal Award (UK), Man of Excellence Award, etc. He is in Board of Editors in many reputed international journals published from London, USA. He is also a Member of Research Committee, LMHI, Germany.

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