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Studies on development of piperine as a bio enhancer for micronutrients

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Piperine, a major constituent of *Piper nigrum* (Black pepper), is one of the well known components in many Ayurvedic formulations. Piperine is most studied bioenhancer because it inhibits drug metabolizing enzymes in rodents and increases plasma concentrations of several drugs, including P-glycoprotein substrates. However, there are no evidences on piperine conjugated with micronutrients inhibit human CYP450 3A4. We therefore investigated the influence of piperine conjugates to study the metabolism of micronutrients with CYP450 3A4. Our in silico and in vitro results showed that Piperine when conjugated with micronutrients, inhibited activity of CYP450 3A4. This improved the binding of piperine conjugates with CYP450 3A4 and increased bioavailability of micronutrients.

Biography

Animisha Mokkalpati, has completed her B. Tech from Satyabhama University, Chennai and M. Tech from GITAM University. Presently she is working as research scholar in University Grants Commission (UGC) sponsored project under the guidance of Dr. Satyanarayana Rentala, in Medical Biotechnology Lab, 7th Floor, Pharmacy Bhavan, GITAM University, Visakhapatnam. She has several publications and participated in international and national seminars and meetings.

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