Nanoemulsion Improves Oral Bioavailability of Baicalin in Rats Published by Dove Medical Press

*Baicalin-loaded nanoemulsion formulation effectively improved the oral bioavailability of baicalin.*

(PRWEB) October 11, 2013 -- International Journal of Nanomedicine has published the original research “Nanoemulsion improves the oral bioavailability of baicalin in rats: in vitro and in vivo evaluation”.

Baicalin is one of the main bioactive flavone glucuronides derived from the dried roots of Scutellaria Baicalensis Georg as a medicinal herb, and it is widely used for the treatment of fever, inflammation and others. As corresponding author, Prof Dr Zhao says “Due to its poor solubility in water, the absolute bioavailability of baicalin is only 2.2% after oral administration.”

Prof Dr Zhao continues “Therefore, we develop a novel baicalin loaded nanoemulsion to improve the oral bioavailability of baicalin. Indeed, the results demonstrated that the baicalin loaded nanoemulsion formulation, in particular, BAN-1, was very effective for improving the oral bioavailability of baicalin and exhibited great potential for clinical application in the future.”

As Professor Thomas Webster, Editor-in-Chief, explains “Researchers from China improved the oral bioavailability of baicalin, a bioactive ingredient commonly used for treating fever, inflammation, and other conditions in a rat study. The use of baicalin has been limited due to its poor solubility and this research team provided significant evidence to improve solubility so that it can now be taken as a pill.”

*International Journal of Nanomedicine* is an international, peer-reviewed journal focusing on the application of nanotechnology in diagnostics, therapeutics, and drug delivery systems throughout the biomedical field. Reflecting the growing activity in this emerging specialty, the aim of this journal is to highlight research and development leading to potential clinical applications in the prevention and treatment of disease.

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