



## An Overview on: The Formulation of Nano Medicines Using Probe Sonication Method for Enhancement of Oral Bioavailability

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### Abstract:

This session will present concepts, methods, and techniques to develop Nano medicines for oral delivery. Many of the broad-spectrum antibiotic used to treat bacterial infections; however, its limited aqueous solubility inhibits its broader clinical uses.(1) One of the major problems associated with poorly soluble drugs is very low bioavailability. Nanosuspension offers the unique advantage of increasing solubility of the drug resulting into faster drug absorption and hence achieving faster maximum plasma concentration. The purpose is to use of probe sonicator for nanocrystals preparation. Stabilized of nanosuspension using different surfactants and polymer. Enhancement of solubility and oral bioavailability. This enhanced dissolution and bioavailability of nanocrystals could be the promising approach for oral delivery.

Keywords: Nanosuspension; Solubility; Nanocrystal; Probe sonicator

### Biography:

Dr. Lina Eltaib is very dedicated, resourceful, and innovative educator and researcher, offering many years of well-honed teaching and research experience across the domain of pharmaceuticals, quality assurance systems, and drug delivery and dosage form designing. She did her B. Pharm in 2005. Dr Lina did her MSc in Pharmaceutics



in 2012. Later in 2016 she completed her PhD in Pharmaceutics from University of Khartoum. In 2013 Dr.Lina was registered as a pharmaceutical specialist at Sudan's Medical Board. Dr. Lina is a results-oriented pharmaceutical Specialist with 13+ years of experience in field of teaching pharmaceuticals.

### Publication of speakers:

1. Fabrication of ciprofloxacin nanocrystals by probe sonication method for enhancement of dissolution rate
2. Practices and attitudes concerning expiration date, unused, and expired medication disposal
3. Evaluation of community pharmacist dispensing and counselling practice
4. Implementation of gmp in pharmaceutical manufacturing facilities in sudan

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