

# Lipid-based Formulation Technology



## Clinical needs

Improve the low oral bioavailability of drugs

## Benefits

- Impact systemic or local drug disposition
- Physically and chemically stable formulations.
- Better patient compliance

## Our approach

- Oily liquid systems
- Micro and nanoemulsion, self-emulsifying systems (SMEDDS)
- Vesicular system: liposomes, niosomes and micelles
- Lipid particulate system: lipospheres and solid lipid micro/nanoparticles

## Potential areas

- Functional formulations for human and veterinary applications
- Cosmetics

## Commercial outcome

Long acting injectable for equine gastric ulcers

## Patents

- Zhou, X. F, Parikh, A., Garg, S. (2016). Curcumin pharmaceutical preparation
- Bova, N., S. Garg and S. Page (2016). Methods and compositions for treating gastric ulcers

## Publication

Parikh A, et al. (2017) Drug delivery 24(1):962-978.



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