

# Integrated Packages: Absorption

XenoGesis has developed a series of ADME packages which are designed to help clients answer key questions on how their drug discovery compounds behave in key areas such as absorption, clearance, distribution and oral bioavailability. The packages build sequentially to predict oral exposure in pre-clinical species and ultimately the likely efficacious pharmacokinetics and dose in man.

They are designed to be part of a robust iterative screening cascade during drug discovery ultimately leading to better informed decisions with an understanding of drug exposure with respect to efficacy and safety.

To find out more, contact a member of the XenoGesis team.  
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Understanding whether your oral drug is likely to be absorbed is the first step in understanding the bioavailability of the compound. XenoGesis has designed this package to provide the key information when assessing the likely absorption of a drug and how this is expected to vary with dose.

## Description of Service

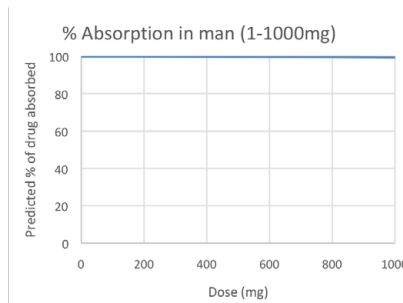
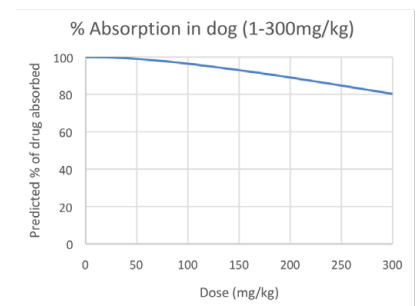
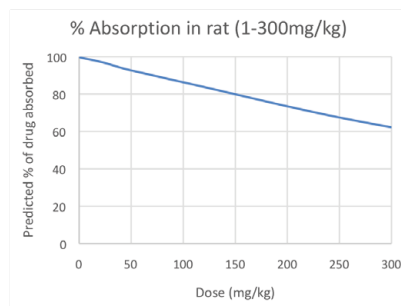
Preliminary assessment of absorption potential following an oral dose using GastroPlus™

## Data collected

- Caco-2 permeability
- Thermodynamic solubility in buffer and biorelevant media
- pKa

## Report format

XenoGesis will provide a written report which plots the predicted percentage of drug absorbed in rat, dog and human across typical dose ranges (1-300 mg/kg in rat and dog and 1-1000mg in man).



XenoGesis Ltd is an independent laboratory-based contract research organisation specialising in pre-clinical drug metabolism & pharmacokinetics (DMPK), quantitative bioanalysis, pharmacology and expert interpretation.

XenoGesis has state-of-the-art *in vitro*, *in vivo* and bioanalytical capabilities. With its expert pharmacokinetic/pharmacodynamic (PK/PD) interpretation and consultancy services, XenoGesis provides bespoke, iterative, data-driven feedback to clients with next step recommendations.