

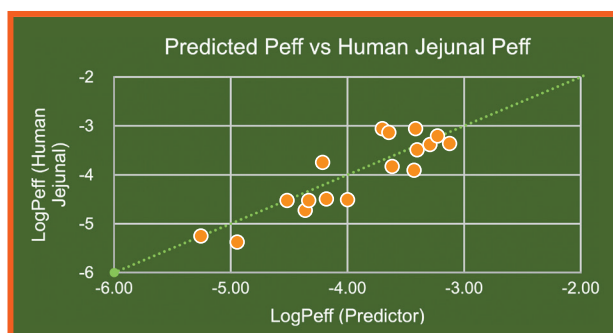
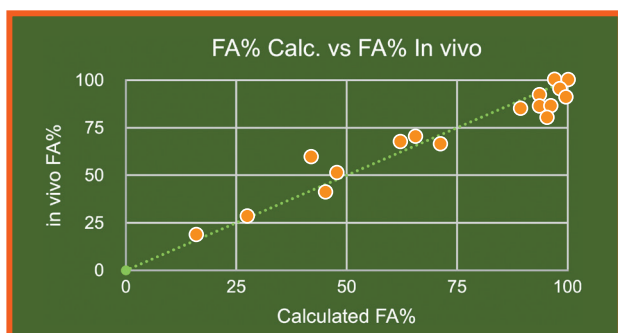


Predictor Software

Predict the *in vivo* effective permeability and the fraction of a dose absorbed using only *in vitro* flux data from the most biorelevant systems on the market.

Combine, analyze and compare dissolution, supersaturation-precipitation, and flux experiments from AuPRO and Rainbow quickly and effectively.

Visualize and understand the rate limiting step of oral absorption to control the performance of your APIs or formulations.



Predictor™ applies the mechanisms of the GUT Framework to convert *in vitro* flux data to predictions of *in vivo* oral absorption.

Handle large collections of AuPRO data efficiently with the *Predictor™* **Data Module**. Apply in-built calculations to determine dissolution rates, IDR, solubility, precipitation rates, induction times, and flux values for up to 16 concentration vs time profiles simultaneously.

Take flux data even further with the add-on **FA Module**. The *Predictor™* FA Module predicts the fraction absorbed (FA) of APIs or formulated drug and determines the rate limiting step to drug absorption, all from *in vitro* data acquired using Pion's line of FLUX apparatus.

Data module:

Concentration vs time profiles acquired using AuPRO software can be imported into *Predictor™*, enabling complete flexibility in compiling datasets for analysis and generating reports, from multiple source AuPRO files. User-friendly and intuitive data handling options allow for straightforward data refinements, including simple data point exclusion/inclusion, customizable units, and one-click exports of .pdf, Word, or Excel reports.

In-built data analysis functions for AuPRO concentration vs time data.

Powder Dissolution: Exponential curve fitting for use with μ DISS powder dissolution results. Reports API solubility, dissolution rate, intrinsic dissolution rate, and estimated mean particle size for compatible data sets.

Disc Dissolution (Disc IDR): Linear fit for use with Disc IDR assay data. Calculates the intrinsic dissolution rate of an API for compatible data sets.

Dissolution (Noyes-Whitney): First-order fit for use with dissolution data from any source. Reports dissolution rate and API solubility.

Equilibrium Solubility: The observed equilibrium solubility of the API component, extrapolated to infinite time.

Average Concentration: The average concentration of the API component across a fixed time interval.

Area Under the Curve (AUC): The area under the concentration vs time profile over a user-defined time interval.

Precipitation Rate: The measured precipitation rate of the API, extrapolated back to the induction point of precipitation.

Induction Time: The induction time prior to the occurrence of precipitation of the API component, or the observed duration of the API component in a supersaturated state.

