St SimulationsPlus

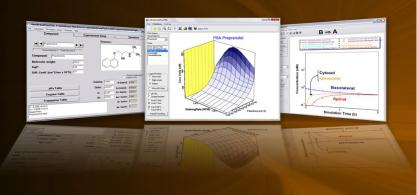
SCIENCE + SOFTWARE = SUCCESS

www.simulations-plus.com

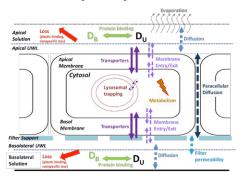
(NASDAQ: SLP)

MembranePlus[®] 2

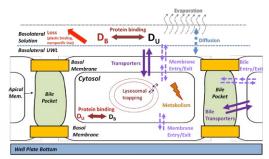
Stimulate your *kinetic* understanding... Permeability | Binding | Metabolism | Transport



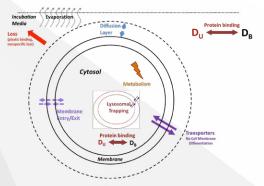
Permeability assays



Sandwich hepatocytes



Suspended hepatocytes



Your modeling tool for IVIVE of absorption and systemic clearance/distribution processes...

MembranePlus[™] is the industry's leading mechanistic *in vitro* permeability (Caco-2, PAMPA, and MDCK cells) & hepatocyte modeling software.

What's new in version 2?

- NEW! Cellular membrane models:
 - Mechanistic models of sandwich hepatocyte assays (with biliary excretion processes)
 - · Mechanistic models of suspended hepatocyte assays
- Improved! ADMET Predictor[™] Module integration:
 - · Updated models from ADMET Predictor version 8.1
 - Prediction of Km/Vmax for metabolism by cytochrome P450 enzymes (CYPs)
 - IVIVE settings for conversion to either intestinal cell monolayers or hepatocytes.
 - Classification models to predict whether imported compounds are substrates for Pgp and/or OATP1B1.
- NEW! Simulation outputs:
 - Fu Cell this new output provides an estimate of Fu,Enterocytes for use in GastroPlus[™] PBPK models. This improves the prediction of absorption & pharmacokinetics for compounds exhibiting lysosomal trapping and/or high binding in enterocytes causing extended Tmax values.
 - CLdiff the passive diffusional clearance parameter is an output that can be used in connection with GastroPlus PBPK models to define the permeability-surface area product (PStc) in PBPK tissues.

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