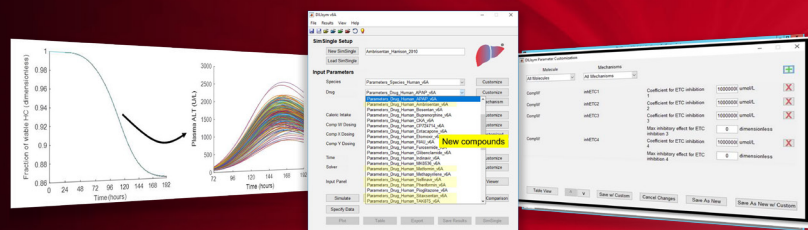# DILIsym® 7A

DILIsym is Quantitative Systems Toxicology (QST) software capable of **predicting** and **explaining** Drug-Induced Liver Injury (DILI)

DILIsym was developed through The DILI-sim Initiative, a consortium supported by 19 pharmaceutical companies and the FDA, and is regularly updated to include leading edge science.

DILIsym includes multiple interacting sub-models such as:

- Bile acid homeostasis and disruption by transporter inhibition
- Mitochondrial function and induced dysfunction
- Steatosis and lipotoxicity
- Inflammation
- Oxidative stress
- Hepatocyte apoptosis, necrosis, and proliferation
- Actively secreted as well as cell leakage biomarkers
- Compatible with GastroPlus™ and also includes built-in PBPK capability

What's new in version 7A?

- **NEW!** Optimization interface added allowing complex fitting using genetic algorithm
- **NEW!** Clinical Monitoring feature allowing dynamic clinical trials with dose alterations based on specified thresholds
- **NEW!** Weight Adjusted Dosing option
- **Updated!** Initial Conditions infrastructure allowing for importing of custom SimPops
- **Updated!** Output Table with more clinically important metrics built in
- **Faster Simulations!** Developed on MATLAB 2017b
- **NEW!** SimPops including injury adaptation via mitochondrial biogenesis
- … and more!
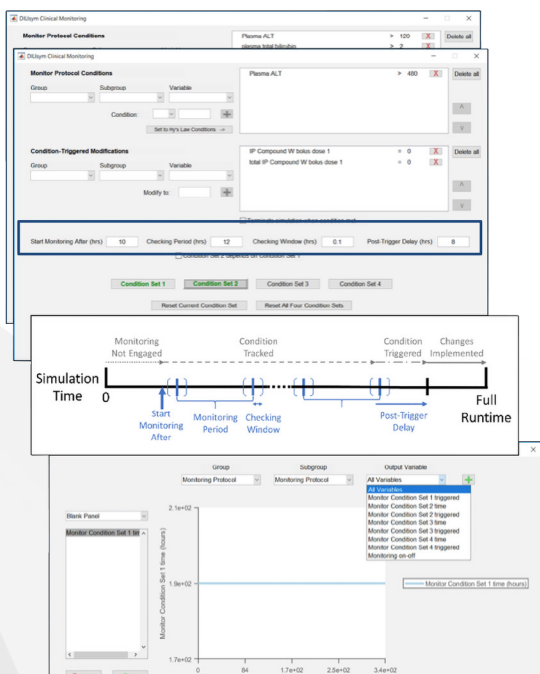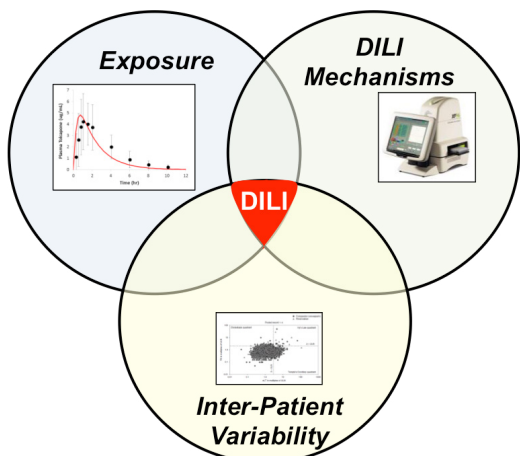
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