

We now seek to expand the scope of DILIsym to reconcile clinical data implicating the immune response with mechanistic data characterizing liver-specific CD8+ T cell responses. Incorporation of CD8+ T cell mediated hepatocyte death in DILIsym is designed to synthesize available data into a quantitative framework for hypothesis testing, furthe	DILIsym [®] software applies a quantitative systems toxicology (QST) approach to the understanding of dose-dependent DILI. I integrates <i>in vitro</i> mechanistic toxicity data, <i>in vivo</i> dynamic drug disposition, known biochemistry, and patien characteristics to predict the hepatotoxic potential of new drug candidates. Simulations can also provide a mechanistic rationale to account for liver signals observed in the clinic. [1]	Some iDILI events are thought to be immune-mediated, based on delayed onset and rapid re-injury after resuming drug Immune involvement has been further supported by the identification of HLA risk alleles for some drugs.	reactions that are not obviously dose-dependent, remain poorly predicted and extremely costly, both for patient health and fo drug development companies.
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Extensive progress has been made in identifying mechanisms or dose-dependent drug-induced liver injury (DILI) and in leveloping screening assays to reduce its incidence. However, diosyncratic DILI (iDILI), or rare, often severe, adverse	INTRODUCTION	Activation of CD8+ T Cells in t Injury Advances Groundwo Idiosyncratic Dru Zackary Kenz1, ¹ DILIsym Services, Inc., Researd The University of
Mechanistic Modeling of T Cell Activation Due to Ovalbumin Experimental models of CD8+ T cell responses to liver-expressed antigens have identified antigen load as a key regulator of the response [2,4].	RESULTS	ne Context of Amodiaquine-Induced Liver rk for Mathematical Representation of g-Induced Liver Injury (iDILI) Christina Battista ^{1,2} , Lisl Shoda ¹ th Triangle Park, NC; ² UNC Eshelman School of Pharmacy, North Carolina at Chapel Hill, Chapel Hill, NC