

Innovative Medicines Initiative

Why do we need stem cells to help us make safer medicines?

Chris Goldring MIP-DILI Consortium

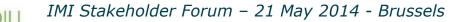




Drug-Induced Liver Injury a significant problem for society

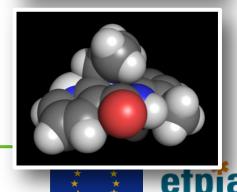
- Dose-dependent
- Species-selective
- Selective individuals
- Idiosyncratic
- Immunological





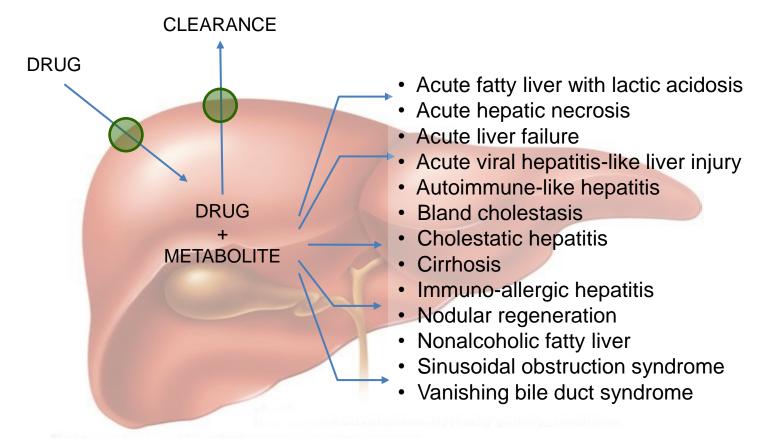




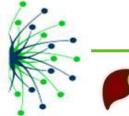


Drug-Induced Liver Injury





Multiple and variable forms of disease Multi-cellular and multifunctional organ

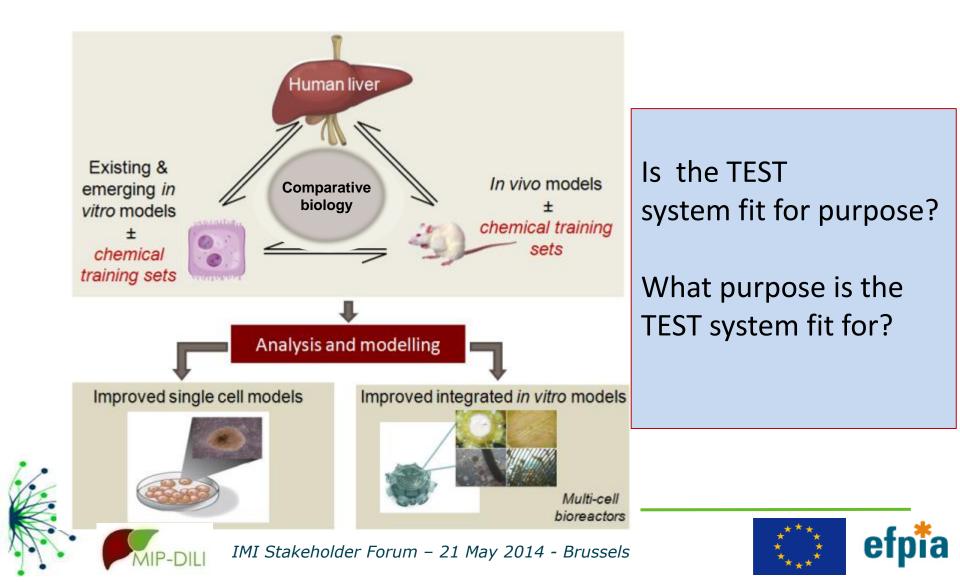




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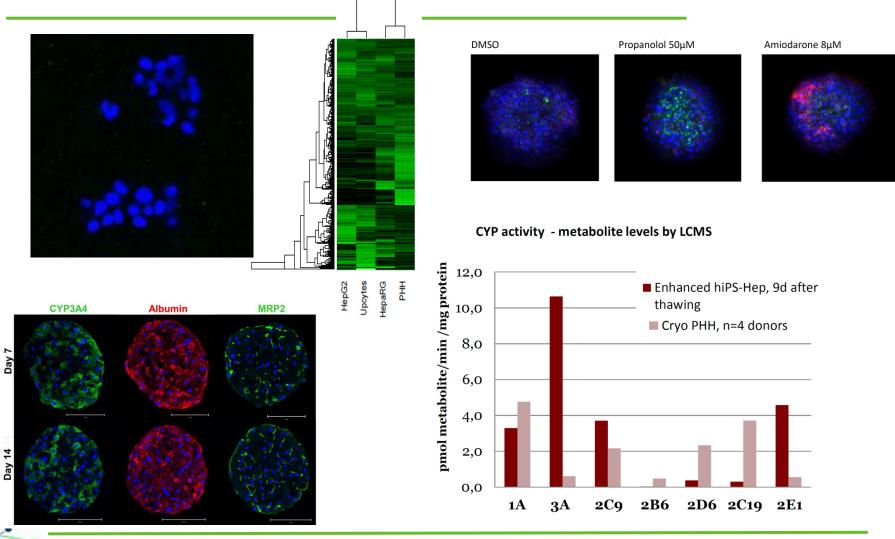
Predictive Models of Drug-Induced Liver Injury





Laboratory Models of DILI







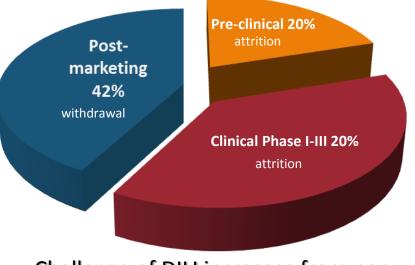
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Relevance to European Pharmaceutical Industry



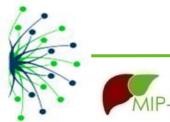
Major reason for:

- regulatory actions against marketing approval
- restriction of prescribing indications
- removal from the market postlicensing
- and can lead to attrition of potentially good medicines...therefore also a patient problem....

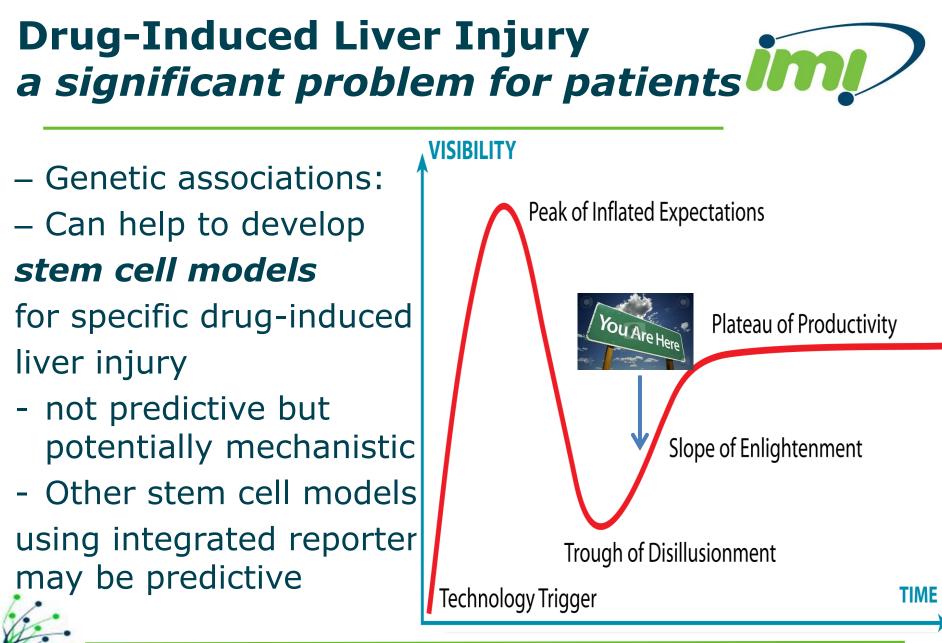


Challenge of DILI increases from nonclinical - to post-marketing

Stats: APBI 2008; Stevens and Baker 2008













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Acknowledgements: IMI MIP-DILI Consortium





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