

















Halothane hepatitis patients: Serum antibodies (% reactivity)		
Antigen	TFA-Protein	Native-Protein
CYP2E1		45
PDI (ERp59)	10	5
PDI isoform (ERp57)	55	25
Carboxylesterase	13	5
Calreticulin	5	3
ERp72	30	25
GRP94 (Hsp90b1)	65	28

































Drug	HLA	Odds Ratio* (Case/Control)
Amox/Clavulanat	e ¹ DRB1*1501	10X
Ximelegatran ²	DRB1*07	4X
Lumaricoxib ³	DRB1*1501	6X
Flucloxacillin₄	B*5701	80X
Ticlodipine₅	A*3303	13X
Odds Ratio does not reflec Hautekeete et al. Gastro. Kindmark et al., Pharmac www.aasld.org/conference	predictive value or absol 1999; O'Donohue et al., Go ogenomics J., 2007 es/educationtraining/Docume	ute risk measures ut, 2000 ents/Hepatoxicit/Wright













- CYPs are major autoantigens associated with immune-mediated drug-induced liver injury (DILI)
- Other antigens and neoantigens may be important in immune-mediated DILI, depending on chemistry of reactive metabolite(s)
- Evidence for T cells associated with immunemediated DILI
- Importance of genetic background of individual
- Increasing evidence for importance of innate immune system in all drug-induced liver injury

