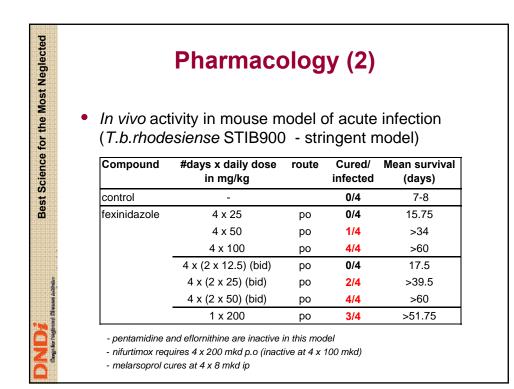
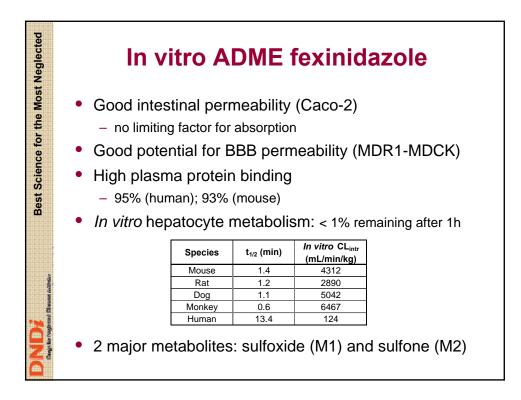
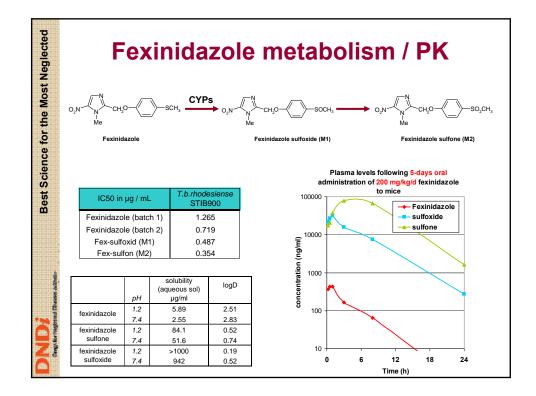


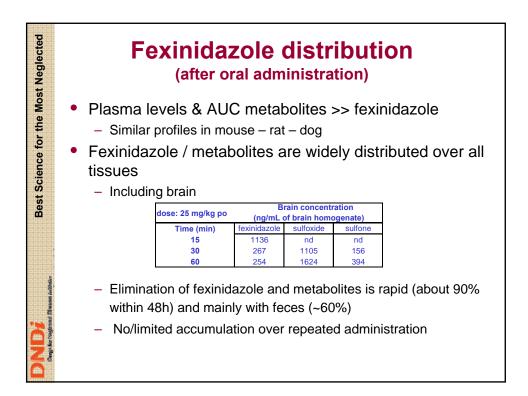
Selective	Pharmacology (1) Selective <i>in vitro</i> anti-trypanosomal activity					
IC <sub>50</sub>	T. b. rhodesiense	T. b. gambiense	cytotoxicity			
in μg/ml (μM)	STIB 900	STIB 754	L-6 (rat skeleta myoblast cells)			
Fexinidazole	0.72 (2.57)	0.32 (1.14)	>90 (>322)			
Reference compo	unds					
Megazol	0.02 (0.10)		57 (254)			
Melarsoprol	0.004 (0.009)	0.0015 (0.004)	1.3 (3.3)			
Eflornithine	0.90 (3.80)	0.40 (1.67)	12 (51)			
Nifurtimox	0.41 (1.44)	0.31 (1.08)	25 (87)			
Pentamidine	0.003 (0.009)	0.002 (0.01)	3 (9)			

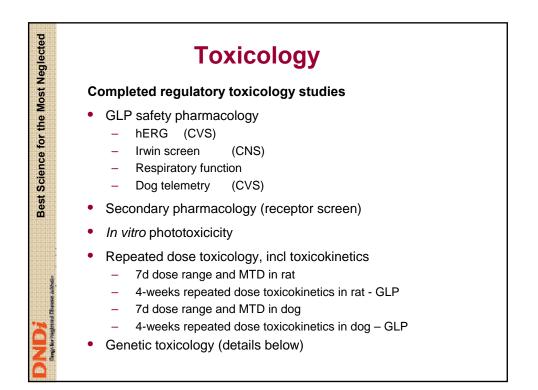


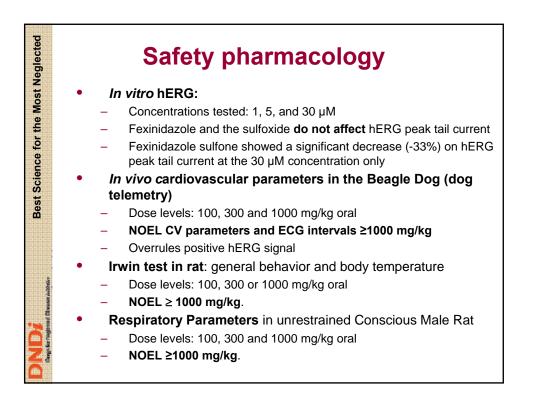
<ul> <li>In vivo activity in mouse model of chronic infection with CNS-involvement (<i>T.b.brucei</i> GVR35)</li> </ul>								
Compound		dose: #days x mg/kg	mode	Cured/ infected	MSD			
Study 1								
Diminazene diacet	urate	1 x 40	ip	0/4	63			
fexinidazole		5 x 100	ро	3/5	>145			
fexinidazole		5x (2 x 100) - <i>bid</i>	ро	5/5	>180			
Study 2								
Diminazene diacet	urate	1 x 40	ip	0/4	63			
melarsoprol		1 x 10	ip	2/8	>122			
fexinidazole		5 x 50	ро	0/8	63.8			
fexinidazole		5 x 100	ро	2/8	>107			
fexinidazole		5 x 200	po	7/8	>169			



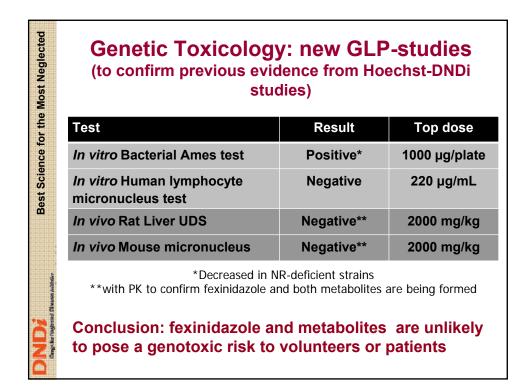




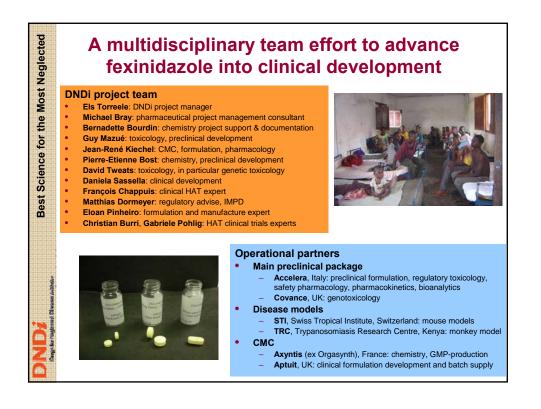


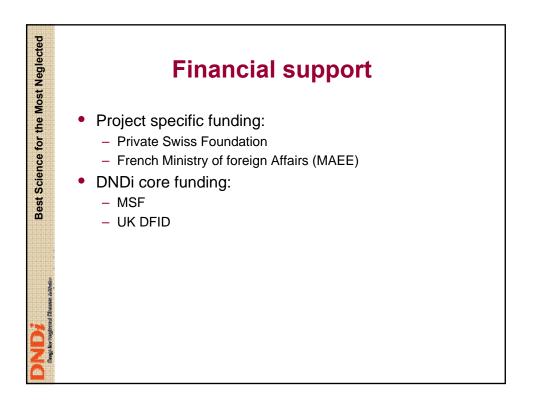


Science for the Most Neglected	4-week repeated dose Toxicokinetics – Rat & Dog										
Most	<ul> <li>Doses: 0, 50, 200 and 800 mg/kg/day, oral</li> <li>For both species, the dose of 200 mkd is considered the NOAEL (No-observed-adverse-effect-level)</li> </ul>										
ce for the											
en		Species	Dose	Sex	fexinidazole	sulfoxide	sulfone				
Sci	AUC <sub>0-24h</sub> mcgxh/mL	rat	200	М	2,320	122,100	341,333				
Best	at NOAEL (Day 28)		MKD	F	4,437	138,333	342,333				
å		dog	200 MKD	М	0.395	42,200	258,000				
		_	IVIND	F	0.377	33,800	277,000				
<b>ND</b> 2014 regiment Theorem address	<ul> <li>For both species, the top dose of 800 mkd is considered as "well-tolerated":</li> <li>In rat: slightly decreased body weight (M) and increased liver weight (F) with minimal/slight hypertrophy of hepatocytes</li> <li>In dog: slight reduction in food intake and decreased body weight (mainly F) but no histological findings</li> </ul>										
â	• No particular is	sues	iden	tifi	ed						

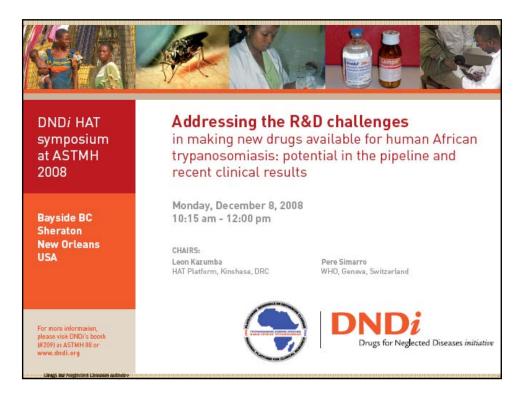












Presented during DNDi / HAT Platform symposium on "Addressing HAT R&D Challenges" held during ASTMH 2008

