

## A HUMAN PATHWAYS APPROACH TO DISEASE RESEARCH

## 26 - 27 June 2017 | NIH Fishers Lane Conference Center, Bethesda, MD

## **DRAFT AGENDA**

	Monday 26 June 2017		
0800	Registration and continental breakfast outside meeting room		
0830	Welcome, summary of workshop, goals, work products  Kate Wille	tt	
0845	KEYNOTE LECTURE: A CALL TO ACTION Chris Austin, NCAT	S	
0930	30 SESSION 1 – SETTING THE STAGE: WHAT IS NEEDED AND WHY?		
	Chair: Warren Casey		
0935	Challenges and needs to use existing data in drug development		
	François Pognan, Novar	tis	
0955	NIEHS-led US roadmap to implementation of alternatives Warren Casey, NIEH	S	
1020	Clinical Point of view: current practices, challenges and needs Bruce Cuthbert, NIM	Н	
1045	BREAK		
1100	FDA collaborations for addressing practical applications Suzanne Fitzpatrick, FD.	Α	
1120	Case studies in 21 <sup>st</sup> Century disease models		
	A tiered approach to in vitro-based compound testing: Using computational modeling, big data approaches and fit-for-purpose in vitro assays to streamline compound development		
	Rebecca Clewell, ScitoVatio	n	
	Using organoids to define key pathways in COPD pathogenesis		
	lan Adcock, Imperial College Londo	n	
	Organs-on-Chips: A Platform for Advancing Drug Development and Disease Modeling		
	Daniel Levner, Emulate, Inc	;	
1230	LUNCH		
1345	BREAKOUT GROUP DISCUSSION SESSION 1;		
1445	BREAK		
1500	SESSION 2: BIG DATA; INFORMATION INTO KNOWLEDGE INTO ACTION		
	Chair: Ajay Pillai		
1510	Overview of NIH Big data projects, LINCS in particular Ajay Pillai, NIH LINC	S	
1530	Biomedical Data Translator – What's it going to take? Christine Colvis, NIH Translator		
1550	Translator and Fanconi Anemia Christopher Chut	е	
1610	BREAK		
1630	BREAKOUT GROUP DISCUSSION SESSION 2		
1730	BREAK		
1740	RECAP DAY1		
1800	ADJOURN		

## Tuesday 27 June 2017

0000	OFCOLON A CURRENT TOOL O TO CURRORT DATUMAY DACED RECICIONS			
0830	SESSION 3: CURRENT TOOLS TO SUPPORT PATHWAY-BASED DECISIONS			
	Chair: Suzy Fitzpatrick			
0830	Tox21 and beyond for pharma and biomed	Anton Simeonov, NCATS		
0850	Organs on a chip: applications for testing and research	Lucie Low, NCATS		
0910	Primary Cell-Based Phenotypic Profiling for Building Human Outcome Pathways			
	Ellen Berg, DiscoveRx Corporation			
0930	Systems Biology Approach to Cancer	Shannon Hughes, NCI		
0950	BREAK			
1000	How might a "pathway-based" approach help (e.g. AOPs)?	C. Willett, HSUS/HSI		
1020	A network based approach to understanding drug toxicity and its application to human liver disease			
	Jeff Sutherland, Indiana Biosciences R	esearch Institute Consultant		
1040	Systems Pharmacology (PredicTox)	Darrell Abernethy, FDA		
1100	BREAK			
1115	BREAKOUT GROUP DISCUSSION SESSION 3			
1215	LUNCH			
1345	SUMMARY OF BO GROUP DISCUSSIONS 1 – 3			
1445	SESSION 4: COORDINATION AND SUPPORT: HOW TO MAKE IT WORK			
	Chairs, Troy Seidle			
Panel discussion				
	Role of funding agencies:	Chris Austin, NCATS		
	Role of pharma	François Pognan, Novartis		
	Role of academia/SMEs	Daniel Levner, Emulate		
	Role of regulatory agencies:	Frank Weichold, FDA		
1545	BREAK			
1600	GROUP DISCUSSION SESSION 4			
	BREAK			
1550	WRAP-UP: SUMMARY OF DISCUSSION QUESTIONS			
	Chairs, Kate Willett and Warren Casey			

1700 ADJOURN