

Day 1	
09:00	Registration
09:50	Welcome and Introduction Pratibha Mistry (IVTS Chair)
<b>CARDIOTOXICOLOGY - Chairs: Karl Herbert (University of Leicester) &amp; James Sidaway (AstraZeneca)</b>	
10:00	Plenary: Christine Mummery (LUMC, Netherlands) Derivatives of Human Pluripotent Stem Cells: the new patient
10.45	James Sidaway (AstraZeneca) Development of a high content stem cell cardiomyocyte screen for detecting drug-induced cardiotoxicity
11.15	Tea / coffee
11.45	Mike Cross (University of Liverpool) The role of the endothelium in cardiovascular toxicity
12.15	Gary Mirams (University of Oxford) Evaluation of Computational Modelling as a Pre-clinical Pro-arrhythmic Safety Assay
12.45	Exhibitor workshop: Caroline Freathy (Asterand) Use of human valvular interstitial cells for mitigating clinical valvulopathy risk
13:00	Lunch (Informal poster viewing)
<b>RENAL TOXICOLOGY – Chair: Jeff Penny (University of Manchester)</b>	
14:30	Plenary: Jamie Davies (University of Edinburgh) Engineering kidney tissue <i>in vitro</i>
15.15	Colin Brown (University of Newcastle) Development of predictive <i>in vitro</i> cross species proximal tubule models as platforms for ADME and Drug Safety Studies
15.45	Tea / coffee
16.15	Daniela Riccardi (Cardiff University) <i>In vitro</i> human renal primary cells as a novel tool for investigating mineral ion homeostasis during drug screening
16.45	Moin Saleem (University of Bristol) <i>In vitro</i> models for nephrotoxicity – time for a new approach?
17.15	Poster session and Drinks reception

Day 2	
08.30	Registration
<b>REPRODUCTIVE TOXICOLOGY – Chair: Penny Jones (Unilever)</b>	
09:00	Plenary: Aldert Piersma (RIVM, Netherlands) Reproductive Toxicology: of Mice and Man and Molecules
09.45	Anita Naidoo (GSK) Development of a two chamber <i>in vitro</i> model of the blood testis barrier using ‘adult’ rat Sertoli cells: Pharmaceutical applications.
10.15	Tea / Coffee
10.45	Philippe Durand (Kallistem) Assessment of toxicity on spermatogenesis <i>in vitro</i>
11.15	Sander van den Driesche (University of Edinburgh) Effects of phthalate exposure on foetal testis development and function: a comparison of <i>in vivo</i> and <i>in vitro</i> models
11.45	Exhibitor workshop: Tony Rutt (InSphero) <i>In vitro</i> embryotoxicity testing - InSphero's easyEST™ Service
12:00	Lunch and IVTS AGM
<b>Free Communications Workshop - Chairs: Amy Pointon (AstraZeneca) &amp; Raymond Boughton (Delphic HSE)</b>	
13:30	<i>IVTS Poster Prize Winner, BTS 2012</i> : Obinna Ubah (University of Aberdeen) Novel mitochondrial targeted flavonoid-based inhibitors of cell growth; Synergism with alpha-difluoromethylornithine (DFMO) and selectivity for cancer cells.
13.45	Lucinder Cowling (University of York) Epigenetic dysregulation in cadmium toxicity and carcinogenesis
14.00	Gary Hutchison (Edinburgh Napier University) Nanoparticles - a potential danger to male reproductive health? Development of an <i>in vitro</i> Sertoli cell model.
14.15	Robin Williams (Royal Holloway, University of London) Investigating Dictyostelium as an Early Model for Identifying Emetic Liability
14:30	Tea / coffee
14.55	IVTS 2012 presentation award
<b>EPIGENETICS - Chairs: Jon Welch (Charles River) &amp; Ann Doherty (IGG Secretary)</b>	
15.00	Lorraine Young (University of Nottingham) The Challenges of Epigenetics for Toxicology
15.30	Nessa Carey (Pfizer) Epigenetics – the toxicological sleeper agent?
16.00	Nabil Hajji (Imperial College London) Molecular Mechanisms and Outcomes of Arsenic-Induced Histone Acetylation
16:30	Closing remarks - <i>Pratibha Mistry (IVTS Chair)</i>