

**ITTP Studentship Awards for 2008-2018**

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| **Host Institution** | **Collaborator Institution** | **Title** |
| ***2018*** |  |  |
| University of Oxford | Syngenta | Novel genetic approaches to predictive developmental and reproductive toxicology |
| Imperial College | AstraZeneca | Developing Predictive Phenotypic Signatures of Drug-Induced Mitochondrial Toxicity |
| University of Liverpool | GSK | Evaluation of Organoids and Systems Biology to develop Adverse Outcome Pathways of Gastrointestinal Toxicity |
| MRC Toxicology Unit | AstraZeneca  | Human iPS cell derived models of drug-induced neurotoxic effects on mitochondrial biology andmetabolism |
| ***2016*** |  |  |
| University of Durham/ Newcastle University | University of Liverpool / Covance / UCB Biopharma | Evaluation of methodologies for *in vitro* prediction of human drug-induced proarrythmia and cardiotoxicity of oncology therapeutics. |
| MRC Toxicology Unit | University of Nottingham | Adverse outcome pathways for examining toxicity in neurons |
| MRC Toxicology Unit | AstraZeneca | To explore the toxicity pathways induced by cellular delivery of modified nucleotides |
| University of the West of England, Bristol | AstraZeneca | Bridging in vitro and in vivo testing: the utilisation of a novel in vitro three-dimensional model of the human bone marrow for toxicity and genotoxicity testing |
| ***2015*** |  |  |
| University of Cambridge | AstraZeneca | Molecular mechanisms of bile salt export pump (BSEP) inhibition in drug-induced liver injury |
| MRC Toxicology Unit | AstraZeneca | Designing novel mRNA-based therapeutic approaches for non-toxic delivery of genetic material |
| University of Dundee | University of Liverpool | Development of a Mammalian Toxicity Reporter Model for Metastatic MelanomaTherapies |
| University of Liverpool | iThera Medical / UCL | Integrated imaging and circulating biomarkers for the assessment of drug-induced hepatotoxicity |
| ***2014*** |  |  |
| Newcastle University | EFSA | The role of gut permeability and increased systematic inflammatory mediators on chemical (food and drug) toxicity. |
| University of Manchester | University of Sheffield / NHS | Origins and biological significance of alkyl DNA damage in human sperm. |
| University of Liverpool | AstraZeneca | Manipulation of the physiological and toxicological phenotype of human hepatocytes by targeting cellular differentiation and de-differentiation |
| Imperial College | King’s College London | Metabolic phenotyping, cell death and inflammation; an integrative mechanistic approach for improved stratification of paracetamol-induced acute liver failure. |
| Imperial College | AstraZeneca | Development of novel in vitro systems and quantitative structure-activity relationships for the prediction of adverse xenobiotic hydrolysis events. |
| ***2013*** |  |  |
| University of Liverpool | University of Edinburgh / Newcastle University / Novartis  | An integrated assessment of miroRNA-122 and HMGB1 as mechanistic biomarkers of drug-induced liver injury. |
| University of Dundee | University of Dundee | Influence of p53 pathway in determining efficacy or toxicity of treatment with novel polo-like kinase-1 (PLK1) targeted anti-cancer therapeutic agents. |
| MRC Toxicology Unit | Eli Lilly | Development and analysis of mouse models to probe the function and on target toxicity of drugs that target G-protein coupled receptors. |
| MRC Toxicology Unit | GE Healthcare | Developing novel biomarkers of cardiotoxicity |
| ***2012*** |  |  |
| MRC Toxicology Unit  | Mission Therapeutics / University of Cambridge | Predicting cell toxicity: The role of protein synthesis in the DNA damage response  |
| MRC Toxicology Unit  | Newcastle University / University of Aberdeen | Investigating the adverse effects of novel tumour-specific IAP antagonists.  |
| MRC Toxicology Unit  | University of Dundee | Determining the role of microRNAs in the Nrf2 pathway following exposure to toxic agents and their effects on metabolism.  |
| Imperial College | Health Protection Agency / GSK | miRNA biomarkers of inflammatory lung pathophysiology arising from administered pharmaceuticals and pollution components. |
| ***2011*** |  |  |
| University of Bristol  | Many | Dissecting Mechanisms of Nanoparticle-mediated Foetal Toxicity  |
| University of Liverpool  | AstraZeneca | Understanding the role of micro RNA in drug-induced cardiovascular toxicity  |
| University of Dundee  | - | Mechanism of inhibition of inflammation by the antioxidant transcription factor Nrf2  |
| ***2010*** |  |  |
| Imperial College | CREAL | Metabonomic and epidemiological analyses of disinfection by-products in public water and risk of adverse birth outcomes  |
| University of Liverpool  | NHS Leeds | An investigation to define piperacillin and ceflazidime antigenicity and immunogenicity in patients with cystic fibrosis  |
| University of Liverpool  | MRC Toxicology Unit | Defining the chemical and molecular basis of toxicity induced by the endoperoxide class of antimalarials  |
| University of Liverpool  | Imperial College | Mechanisms of Aminoglycoside-induced nephrotoxicity – integrated molecular, proteomic, metabonomic and histological translational biomarkers |
| University of Cambridge | GSK | A metabolomics investigation of drug-induced hpatic phospholipidosis |
| ***2009*** |  |  |
| University of Southampton  | University of Birmingham | Nanotoxicology: particle and nanoparticles interactions with opsonins  |
| Imperial College  | COMET | In vivo comparative metabolic modelling of interspecies variation in hepatocytoxicity  |
| University of Southampton  | National Oceanography Centre | Investigation of the potential health effects of transition metals in particulate air pollution  |
| University of Cambridge  | Syngenta | A functional genomic approach to understanding lipid biosynthesis and organelle proliferation in the liver as an early indicator of the effects of non-genotoxic carcinogens  |
| University of Aberdeen  | - | Regulation of hepatic drug transporters: species differences and effect of cholestasis  |
| University of Liverpool  | Pfizer | Structure-metabolism analysis of the disposition and immunogenicity of PEGylated proteins  |
| University of Liverpool  | University of Liverpool | Integrated assessment of serum biomarkers of drug bioactivation, lipid peroxidation, apoptosis and necrosis in animal models of hepatic and renal stress.  |
| Newcastle University  | Wyeth | Myofibroblasts and their regulation of hepatic stem/progenitor cell function after injury  |
| ***2008*** |  |  |
| MRC Toxicology Unit  | GSK | Role of miRNA species and mRNA translation in mechanistic and evaluative toxicology in differentiated cardiac, hepatocyte and pancreatic islet cells from stem cells.  |
| University of Aberdeen  | - | Cannabinoid receptor antagonism and malformations in developing brain  |
| University of Dundee  | - | Inhibition of apoptosis by transcription factors Nrf1 and Nrf2 occurs mainly through regulation of intracellular redox status  |
| University of Dundee  | University of Dundee | Non catalytic mechanisms involved in glutathione S-transferase P (GST-P)-mediated cytoprotection  |
| University of Leicester  | - | Mitochondrial DNA-damage and toxin induced vascular endothelial cell ageing  |
| University of Manchester  | University of Manchester / MRC Toxicology Unit | Interleukin 17 and the development of allergic sensitization to chemicals  |
| King’ College, London  | GE Healthcare | Development of human stem cell populations for integrative toxicology  |
| University of Dundee  | - | The role of PPAR-delta agonists in hepatic steatosis  |
| University of Liverpool  | AstraZeneca | Investigation of drug-specific cellular responses relevant to drug-induced immune liver injury in man  |
| University of Birmingham  | University of Birmingham | Susceptibility of alternative mRNA processing to interference by small molecules; implications for drug design and toxicity  |
| MRC Toxicology Unit  | MRC Toxicology Unit | Role of Bcl-2 family proteins in neurotoxic cell  |