

NIHR HPRU in Chemical and Radiation Threats and Hazards

2022 Joint HPRU Meeting – 16th November 2022

Programme

09:40 – 09:50	Welcome and Introduction	Paul Elliott
09:50 – 10:00	Welcome and Introduction	Simon Bouffler

Theme I Adverse outcome pathways and exposure-response relationships for ionising and non-ionising radiation - Facilitated by Mireille Toledano

10:00 – 10:35	Overview	Liz Ainsbury
	Age as a modulator of ionising radiation-induced cardiovascular disease	Chris Whiteman
	Exposure to radiofrequency electromagnetic field (RF-EMF) and cognitive development in adolescents: the SCAMP study	Steven Shen
	UK sunlight exposures, potential Nitric oxide inducing and DNA damaging roles	Gareth Hazell
10:35 – 11:05	Discussion	
11:05 - 11:30	Coffee Break	

Theme II Biomarkers of exposure, effects, and susceptibility to chemical and radiation exposures - Facilitated by Paul Elliott

11:30 – 12:05	Overview	Marc Chadeau
	Pathways and molecular biomarkers of chemical mixture exposure	Lucas Cheng
	Biomarkers of potential chemical exposures in populations living in new housing developments built on brownfield sites	Holly Walder
	The Breast milk, Environment, Early-life and Development (BEED) study	Ruthie Parsons
12:05 – 12:35	Discussion	
12:35 - 13:35	Lunch/Posters/Photos	

13:35 – 13:55	Joint PCIEP Presentation	Diana Varaden/Phil Taverner
13:55 – 14:15	Knowledge Mobilisation	Kerry Broom
Theme III	In vitro testing and integration with epidemiological data Facilitated by Richard Haylock	
14:15 – 14:50	Overview	David Phillips
	Mutational signatures of chemotherapeutic and environmental agents in human tissue organoids	David Phillips
	Biomarkers and populations studies for occupational radiation protection	Liz Ainsbury
	Reciprocal Interaction of Pollutants with Gut Bacteria	Anna Lindell
14:50 – 15:20	Discussion	
15:20 – 15:45	Coffee Break	
Theme IV	Neurotoxins and high toxicity agents - Facilitated by Simon Bouffler	
15:45 – 16:20	Overview	Tom Welton
	Novel screens for environmental neurotoxins - <i>In vitro</i> exposure to Ochratoxin A alters the expression of genes associated with Parkinson's diseases	Sean Gettings
	Identification and validation of novel simulants of chemical warfare agents (CWAs) and toxic industrial chemicals (TICs) for decontamination studies	Thomas James
	Detection of HTAs in water	Davide Ciccarelli
16:20 – 16:50	Discussion	
16:50 – 17:00	Summary and Close	Simon Bouffler