

NIHR HPRU in Environmental Exposures and Health

2022 Joint HPRU Meeting – 17th November 2022

Programme

09:40 – 10:00 Welcome and Introduction Frank Kelly

10:00 – 13:00 Session Chair – Professor Frank Kelly

Theme I Assessment of Population Exposures

10:00 – 10:35 [Overview](#) Ben Barratt

10:05 – 10:15 [Investigating levels of vaping and smoking biomarkers among people with mental health](#) Eve Taylor

10:15 – 10:25 [Chemicals in European residences - emissions, concentrations and health effects of Volatile and semi volatile organic compounds \(VOCs and SVOCs\)](#) Alice Middleton

10:25 – 10:35 [Bioaerosols](#) Emma-Jane Goode

10:35 – 11:05 Discussion

11:05 - 11:35 **Coffee Break**

Theme II Air Pollution and Health

11:35 – 11:40 [Overview](#) Helen Crabbe

11:40 – 11:50 [PM_{2.5} Exposure on the London Underground](#) David Green

11:50 – 12:00 [Novel exposure estimation for assessing the effects of long-term exposure to outdoor air pollution on cognition function in the elderly](#) Dylan Wood

12:00 – 12:10 [Air pollution and adverse birth outcomes](#) Rachel B Smith

12:10 – 12:40 Discussion

12:40 - 13:00 **Joint Academic Career Development Programme** **[Fred Piel/Steph Wright](#)**

13:00 – 14:00 **Lunch/Posters/Photos**

14:00 – 17:30 Session Chair – Professor Tim Gant

Theme III	<u>Biomarkers of Exposure and Effect</u>	
14:00 – 14:05	<u>Overview</u>	Martin Leonard
14:05 – 14:15	<u>In vitro high throughput toxicological assessment of electronic cigarettes flavours in human bronchial epithelial cells</u>	Felix Effah
14:15 – 14:25	<u>Validation of an Aerosol-Exposure Air-Liquid-Interface (AE-ALI) system to facilitate more realistic hazard identification of airborne contaminants in human relevant culture models</u>	Chang Guo
14:25 – 14:35	<u>Characterising the impact of brake dust exposure on bacterial virulence</u>	Liza Emirali
14:35 – 15:05	Discussion	
PhD Presentations		
15:05 – 15:15	<u>Theme I – Source specific air pollution exposure in 100 West London homes</u>	Adam Skillern
15:15 – 15:25	<u>Theme II -The adverse effects of occupational exposure to PM_{2.5} on the London Underground</u>	Justie Mak
15:25 – 15:35	<u>Theme III - Exposure models of nitrogen dioxide and particulate matter to assess mechanistic toxicology using advanced alveolar systems</u>	Joshua Bateman
15:35 – 15:45	<u>Theme IV - Fabrication of microplastic fibers for pulmonary toxicity studies</u>	Eric Auyang
15:45 - 16:10	Coffee Break	
Theme IV	<u>Emerging Environmental Issues and Preparedness</u>	
16:10 – 16:15	<u>Overview</u>	Steph Wright
16:15 – 16:25	<u>PFAS – A UK issue! Our current understanding</u>	Ovnair Sepai
16:25 – 16:35	<u>Health impacts from living near biomass electricity generator installations</u>	Brandon Parkes
16:35 – 16:45	Understanding exposures from waste fires	Alessia Freddo
16:45 – 17:15	Discussion	
17:15 – 17:30	Summary and Close	Tim Gant