**RSC TOXICOLOGY GROUP and IGHRC**

 **JOINT AWARENESS DAY**

**Does progress in ‘omics’ help in human health risk assessment?**

Advances in metabolomics, proteomics and genomics caused great excitement in anticipation for their potential use in toxicological investigations and risk assessments. Toxicologists were some of the first to demonstrate the utility of the novel analytical and DNA analysis techniques in experimental health sciences. More than a decade on how or have these technologies helped us towards more secure risk assessments?

This one-day event is open to all, with discounted rates for RSC members, UK regulatory risk assessors and government agency toxicologists and will be held at **The Royal Society of Chemistry**, Burlington House, Piccadilly, London, W1J 0BA, on the **13th October 2017**.

The workshop will be chaired by Professor Tim Gant, Head of the Toxicology Department at the Centre for Radiation, Chemical and Environmental Hazards, Public Health England.

Early bird rates apply (including a special rate for IGHRC members, discount code required) for places booked by **29 September 2017**. Register online at: <http://www.rsc.org/events/detail/27278/does-progress-in-omics-help-in-human-health-risk-assessment>

Lunch and refreshments will be provided.

If you require further information please contact the IGHRC Secretariat (Ruth Bevan) at: ruth@iehconsulting.co.uk or Kate Jones (RSC Toxicology, Chair) at kate.jones@hsl.gsi.gov.uk

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| **Provisional Programme** |
| 10.30 – 11.00 | Arrival Tea and Coffee |
| 11.00 – 11.10 | **Welcome:** *Len Levy, Chair IGHRC Executive Committee**Kate Jones, Chair Toxicology Group, RSC* |
| 11.10 – 11.30 | **Scene setting - the changing ‘omics’ landscape***Andy Smith (MRC Toxicology Unit)* |
| 11.30 – 12.00 | **Toxicogenomics, human risk assessment and possible regulatory uses** *Tim Gant (PHE)* |
| 12.00 – 12.30 | **Human early life exposome (HELIX) and omics: metabolic phenotyping and the exposome***Muireann Coen (Faculty of Medicine, Imperial College London /Astra Zeneca*) |
| 12.30 – 13.30 | LUNCH |
| 13.30 – 14.00 | **Application and use of ‘omic’ data for next generation risk assessment: from constructing adverse outcome pathways to defining points of departure** *Andy White (SETAC, Unilever)* |
| 14.00 – 14.30 | **Accelerating the impacts of metabolomics in regulatory toxicology – an academic view***Mark Viant (*Phenome Centre, *University of Birmingham* and NERC Biomolecular Analysis Facility*)* |
| 14.30 – 15.00 | TEA and COFFEE BREAK |
| 15.00– 15.30 | **Metabolomics in regulatory toxicology?***George Loizou (HSE’s Health & Safety Laboratory)* |
| 15.30 – 16.00 | **Are long carbon nanotubes the new asbestos; genomic evidence?***Marion MacFarlane (MRC Toxicology Unit)* |
| 16.00 – 16.15 | **Chair’s closing comments** |
| 16.15 – 17.15 | **RSC Toxicology Award 2017 and Reception**  |