

## **New health and exposure findings from a large US population exposed to high levels of PFOA**

**Chair:** Beate Ritz, UCLA

**Aim and short description.** New health and exposure findings from a large US population exposed to high levels of PFOA. This symposium will present a summary of recent research findings by the C8 Science Panel in a community highly exposed to PFOA, to which virtually everyone in industrialized countries is now exposed at low levels. Drinking water in six water districts in the mid-Ohio valley has been contaminated for approximately 50 years with PFOA, which was released by a nearby Dupont chemical plant. The mean serum PFOA in this population is 83 ng/ml (median 28 ng/ml), compared to an average of 4-5 ng/ml in the general US population. PFOA toxicology indicates a number of adverse effects including rodent carcinogenicity and fetotoxicity. The C8 Science Panel has been conducting 11 different studies related to PFOA, analyzing and extending a baseline survey of 69,000 community residents conducted in 2005 in which PFOA was measured in the blood.

### **Presentations**

1. Introduction: The C8 Science Panel, the 11 studies underway, data on exposure levels in the population  
**Speaker:** Kyle Steenland
2. Biphasic decline of serum PFOA concentrations among mid-Ohio valley residents.  
**Speakers:** Scott Bartell\*, Antonia Calafat, Christopher Lyu, Kyle Steenland, Barry Ryan
3. Mortality among PFOA-exposed workers  
**Speakers:** Kyle Steenland\*, Susan Woskie
4. Effect of PFOA on reproductive health outcomes  
**Speakers:** David Savitz\*, Cheryl Stein
5. Cross sectional and longitudinal associations between PFOS and PFOA in the Mid Ohio Valley and clinical markers of disease  
**Speakers:** Tony Fletcher\*, B Armstrong, N Fitz-Simon, G Leonardi, M Lopez-Espinosa, D Mondal
6. Retrospective exposure estimation and predicted versus observed serum perfluorooctanoic acid concentrations for participants in the C8 health project.  
**Speakers:** Hyeong-Moo Shin, Verónica M. Vieira, P. Barry Ryan, Kyle Steenland, Scott M. Bartell
7. Overview and discussion  
**Led by:** Dr. Beate Ritz (UCLA)