**Session Proposal**

# Session Title

Investigation and Assessment of PFAS-Impacted Agricultural Lands and Food Crops

# Session Organizers

Jing Song, ISSCAS, jingsong@isscas.ac.cn (primary contact)

Roger Brewer, TOS Environmental, tosbrewer@yahoo.com

Xinyi Cui，Nanjing University, lizzycui@nju.edu.cn

# Session Description

The session will provide an opportunity for global experts to present and discuss new research on the impacts of per- and poly-fluoroalkyl substances (PFASs) on agricultural lands and food crops. The session will provide attendees with an overview of the sources of PFAS contamination of agricultural land, including the use of industrial and domestic wastewater to irrigate food crops and the use sludges as a soil amendment. Academic research and case studies of impacted agricultural lands will be used to review the uptake and transformation of PFASs into food crops. Evaluations of data reliability will be used to investigate more reliable and cost-effective approaches for testing of trace levels of contaminants in soil and food crops. Alternative methods for assessment of PFAS toxicity and risk will be explored in order to better allow the integration of risk management into decision making in consideration of economic, social and political limitations.

# Format

Oral presentations and posters. The Session Organizers can also offer to set up a half-day or full-day workshop.

# Proposed Speakers

**Serjus Ustanov (UNFAO):** Impact of PFASs on global agricultural lands and food crops

**Roger Brewer (TOS Environmental, USA):** Risk-based investigation of agricultural land and food crops

**Xinyi Cui(Nanjing University):** Bioavailability of PFAS in soil and vegetables

**Christopher Higgins (Colorado School of Mines):** Uptake of PFASs into food crops

**Jing Song, (ISSCAS):** Application of Decision Unit Multi Increment Sampling in soil-crop paired sampling: a case study on PFAS contaminated agricultural land

**Katie Richardson (Senversa, Australia):** Alternative methods to assess PFAS toxicity