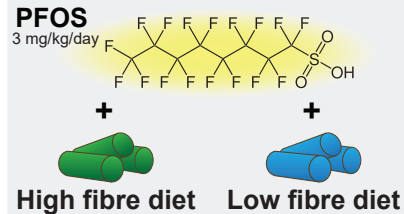


Study design

Analysis

Results



Feces

Urine

Brain

Liver

Blood

PFOS quantification
- LC-HRMS MS

The chromatogram displays the intensity of PFOS over retention time. The total peak is labeled 'Total PFOS' and is composed of 'br-PFOS' (blue shaded area) and 'I-PFOS' (red shaded area). The x-axis is labeled 'Retention time' and the y-axis is labeled 'Intensity'.

- 16S amplicon sequencing

Short-chain fatty acids
- GC-TOF MS



High fib
diet

- Lower blood serum PFOS
- Increased gastrointestinal excretion of PFOS
- Higher acetate, propionate, butyrate, and caproate

Low fibre diet

- **Decreased SCFA conc.**
- **Higher formate, valerate, isovalerate, and isobutyrate**
- **Increased cecal pH**
- **Longer transit time**



Both diets

- **PFOS-induced modulation of microbiota composition**
- **No effect on oral PFOS uptake**