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**Research group: Environmental health**

**Leader:** BERTHET Aurélie

The environmental health group is interested in characterizing exposure to chemical, biological and physical pollutants in environment and their related health effects. The group's research focuses on different pollutants absorbed by oral, dermal, and inhalation routes, biological markers of exposure, and exposure determinants.

Different methods are used to characterize exposure: sampling and measurement of airborne pollutants, biological monitoring, experimental exposures in controlled conditions, and skin permeation assays.

The main research topics currently:

- New tobacco products
- Pesticides and biocides exposure
- Persistent organic pollutant (POP) exposure
- Endocrine disruptors
- Human toxicokinetics (inhalation (exposure chamber), dermal (permeation cells and human skin))
- Skin permeation and sensitization
- Biological monitoring: metabolites in biological matrices (pesticides, biocides, solvents, endocrine disruptors, tobacco products, etc.), oxidative stress (tobacco products, pesticides, etc.)
- Analysis of exposure determinants: type of pollutant, frequency and concentration of emission, environmental context
- Physical risks: UV exposure (skin cancer), noise (hearing loss)

For further information, Uniscience website:

<https://applicationspub.unil.ch/interpub/noauth/php/Un/UnPers.php?PerNum=1046758&LanCode=37&menu=coord>