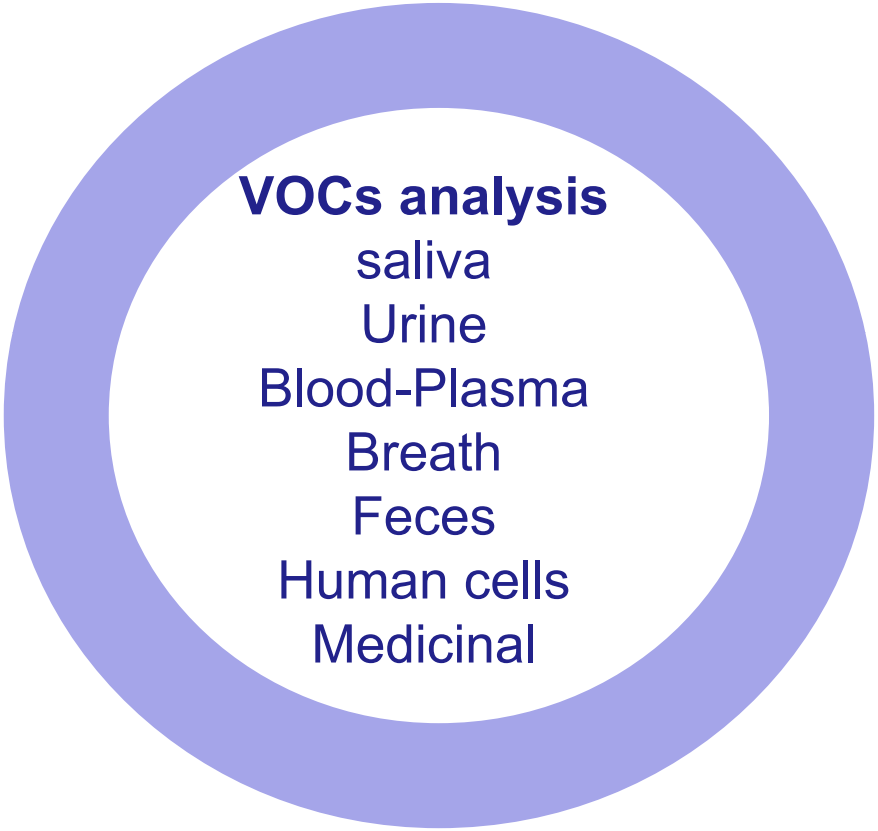
VOLATONOMICS

Human bodyfluid volatil compound biomarkers (saliva, urine, feces…)



Our VOLATONOMICS Solution

- **VOCs : from body fluids (saliva, urine, feces…)**
- **VOCs : from human cell culture**

There is an increasing interest in developing new biomarkers such as volatile organic compounds (VOCs) in body fluids& cell culture to improve :

✓Accurate medical diagnosis
✓Therapeutic monitoring and prognosis
✓Drug efficiency
✓Physiological investigation

Volatile compounds of human body are a result of the combination of hundreds of emitted odorous and non-odorous molecules. VOCs are the useful biomarkers source for monitoring body state of health for enhanced personalized treatment (drug treatment efficiency, prognosis decision…).

Our QUANTIVOCs Solution

- **VOCs** **Trace panels from medicinal products**

QuantiVOCs have been developed to detect and quantify **trace compounds** of **2 groups of 10 molecules** simultaneously by SPME-GC/MC-MS with **limits of detection of 1ppt to 10 ppt**.

Applications are “medicinal” and “moldy, musty, earthy”, odor defects.

Quantified molecules (ou VOCs) are:
geosmin 2-methylisoborneol, 2-Ethyl-4-methyl-1,3-dioxolane , 2-Ethyl-5,5-dimethyl-1,3-dioxane and specific chloroanisoles, bromoanisoles, méthoxypyrazines, chlorophenols, bromophenol.
Full available molecules list on request.

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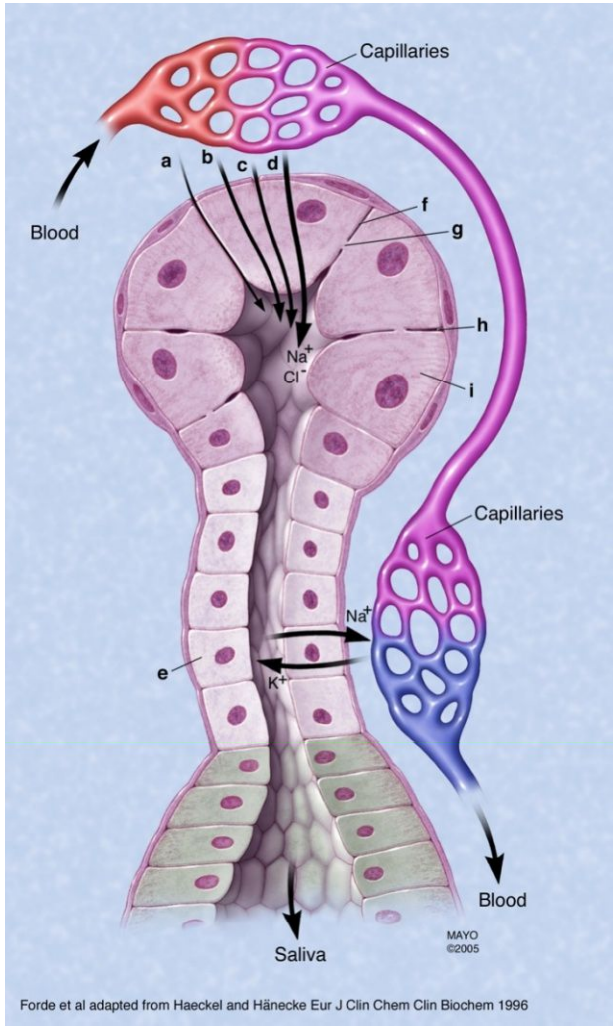
VOLATONOMICS into saliva

✓Oncology diagnosis
✓Therapeutic monitoring and prognosis
✓Drug efficiency
✓Physiological investigation

Saliva composition

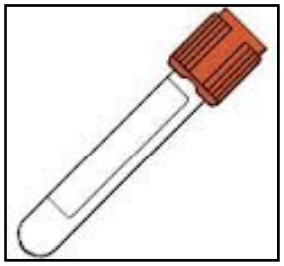
Saliva comes from blood serum

- Hormons : cortisol, melatonin…
- Chemical : drugs, ethanol…
- Immunoglobulins : IgA
- Sugar : glucose
- Bacteria
- Virus : HPV
- Free mARN and cells
- VOCs (Volatil Organics Compounds)



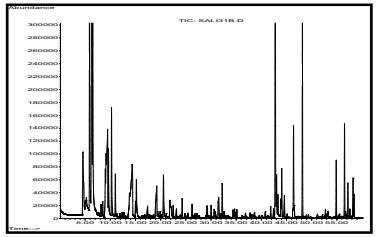
Our saliva platform

- **Specimen/sample kits and logistic**


- **VOC analysis by Spectrometry Head Space extraction**

- **Saliva Data base**



Key arguments

- **STABILIZED SAMPLES : <9 days**

- **DEFINE YOUR SAMPLING SIZE : >30 controls + 60 targets**

- **PRE SCREENING: pooling strategy with 3 pooled controls + 3X3 pooled targets**

- **DEFINE BUDGET : Pooling strategy and 90 unitary samples**

- **LOGISITIC SUPPORT : TSE (France) and UPS (export)**

- **PATENT : Method of evaluating cancer risk in human WO2011015589**

- **SUPPORT : specific support for data analysis and biomarker decision**

THANKS YOU - MERCI

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