Non-Invasive Biomarkers on Breath

BREATH[®] BIOPSY

A powerful approach for health monitoring, precision medicine and disease detection

Exhaled breath contains volatile organic compounds (VOCs) which can originate within the body and represent rich sources of biological information. VOCs can be collected and analyzed using Breath Biopsy[®].



Studies have identified over 1,000 VOCs that can be found on breath which can originate either from within the body (endogenous VOCs) or from external sources such as **diet**, **drugs** and the **microbiome (exogenous VOCs)**.



- Endogenous VOCs are products of our metabolic activity, picked up in the bloodstream and diffusing into air in the lungs. They can be characteristic of specific disease processes.
- Many exogenous VOCs are generated by human metabolic pathways and can provide additional valuable insights into health and disease.
- Using exogenous VOCs we can assess pathways for drug monitoring, treatment selection and precision medicine. We're harnessing this potential through our EVOC Probes[®] (owlstonemedical.com/evoc)





Contact us to discuss identifying and validating breath biomarkers, and how to incorporate Breath Biopsy in your research.

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