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Exhaled breath analysis in hepatology: State-of-the-art and perspectives

De Vincentis A *et al.* Exhaled breath analysis in hepatology

Antonio De Vincentis, Umberto Vespasiani-Gentilucci, Anna Sabatini, Raffaele Antonelli-Incalzi, Antonio Picardi

Abstract

Liver disease is characterized by breath exhalation of peculiar volatile organic compounds

Match Overview

1	Crossref 58 words Raffaele Antonelli Incalzi, Antonio De Vincentis, Claudio Picardi, et al. "Breathprinting-Based Diagnosis, Selected Case Study"	2%
2	Crossref 11 words Gaetano Rocco. "Every breath you take: The value of the electronic nose (e-nose) technology in the early detection of liver disease"	<1%
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Exhaled breath analysis in hepatology: state-of-the-art and perspectives.



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Breath Analysis in Respiratory Diseases: State of the Art ...

https://www.researchgate.net/publication/329742755_Breath_Analysis...

In this regard, the analysis of **exhaled breath** with **gas sensor arrays** is a potential **non-invasive**, relatively **low-cost** and easy technique for the early detection of **lung cancer**.

Breath analysis in respiratory diseases: state-of-the-art ...

<https://www.tandfonline.com/doi/abs/10.1080/14737159.2019.1559052>

ABSTRACTIntroduction: The vast majority of respiratory diseases are associated with the production of volatile organic compounds (VOCs), the **analysis** of which might improve our knowledge about these disorders and their clinical management. The aim of this narrative review is to provide a comprehensive summary of current evidence supporting the application of **breath analysis** in the field of ...

Author: Panaiotis Finamore, Simone Scarlata,... **Publish Year:** 2019

New Perspectives in Monitoring of Lung Inflammation

<https://am-medicine.com/2017/06/new-perspectives-in-monitoring-of...> ▾

New **Perspectives** in Monitoring **Lung** Inflammation provides an introduction to the **analysis** of **exhaled breath condensate** for monitoring lung inflammation. The book **presents** current knowledge on the physicochemical properties of **exhaled breath** condensate and its formation in the airways and covers important **aspects of the** methodology.

[PDF] PERSPECTIVES IN CLINICAL GASTROENTEROLOGY AND ...

[https://www.cghjournal.org/article/S1542-3565\(13\)01468-7/pdf](https://www.cghjournal.org/article/S1542-3565(13)01468-7/pdf)

PERSPECTIVES IN CLINICAL GASTROENTEROLOGY AND HEPATOLOGY **Breath** Testing for Small Intestinal Bacterial Overgrowth: Maximizing **Test Accuracy** Richard J. Saad and William D. **Chey** Division of **Gastroenterology**, **University** of Michigan, Ann Arbor, Michigan This article has an accompanying continuing medical education activity on page e119.

Assessment of Exhaled Breath Condensate for Non-Invasive ...

<https://www.emjreviews.com/gastroenterology/abstract/assessment-of...> ▾

Kubáň P, Foret F. Exhaled breath condensate: Determination of non-volatile compounds and their potential for clinical diagnosis and monitoring. A review. *Anal Chim Acta.* 2013;805:1-18. Humphrey SP, Williamson RT. A review of saliva: Normal composition, flow and function. *J Prosthet Dent.* 2001;85(2):162-9.

Exhaled nitric oxide and oxygenation abnormalities in ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/10.1002/hep.510260406>

Dec 30, 2003 · Giovanni Rolla, Enrico Heffler, Luisa Bommarito, Giuseppe Guida, Iuliana Badiu, Roberta Berzia, Pietro Marsico, Stefano Pizzimenti and Franco Nebiolo. **Exhaled** nitric oxide in persistent rhinitis



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New Perspectives in Monitoring of Lung Inflammation ...

<https://freemecal.com/new-perspectives-in-monitoring-of-lung-inflammation-analysis-of...> ▾

Analysis of exhaled breath condensate is potentially useful for monitoring **airway inflammation** and in pharmacological therapy. With its non-invasive nature, this method may be suitable for longitudinal studies even in children and in patients with **lung severe disease**. **New Perspectives in Monitoring Lung Inflammation** provides an introduction to the **analysis of exhaled breath condensate** for monitoring **lung inflammation**.

Breath Analysis in Respiratory Diseases: State of the Art ...

https://www.researchgate.net/publication/329742755_Breath_Analysis_in_Respiratory...

Exhaled breath analysis is an emerging technology in **respiratory disease** and infection. **Electronic nose devices (e-nose)** are small and portable with a potential for point of care application.

Breath analysis in respiratory diseases: state-of-the-art ...

<https://www.tandfonline.com/doi/abs/10.1080/14737159.2019.1559052>

Breath analysis in respiratory diseases: state-of-the-art and future perspectives Panaiotis Finamore Unit of **Geriatrics**, Campus Bio-Medico University, Rome, Italy View further author information

Author: Panaiotis Finamore, Simone Scarlata,... **Publish Year:** 2019

Assessment of Exhaled Breath Condensate for Non-Invasive ...

<https://www.emjreviews.com/gastroenterology/abstract/assessment-of-exhaled-breath...> ▾

Exhaled breath condensate (EBC) 2 and **saliva** 3 are two easily obtained, **non-invasive samples** that bear promise in monitoring patients suffering from GORD. The aim of this study was to investigate the prospects of these samples in non-invasive diagnostic approaches to GORD.

New Perspectives in Monitoring of Lung Inflammation

<https://am-medicine.com/2017/06/new-perspectives-in-monitoring-of-lung-inflammation...> ▾

Analysis of exhaled breath condensate is potentially useful for monitoring **airway inflammation** and in **pharmacological therapy**. With its non-invasive nature, this method may be suitable for longitudinal studies even in children and in patients with **lung severe disease**.

Exhaled nitric oxide and oxygenation abnormalities in ...

<https://aasldpubs.onlinelibrary.wiley.com/doi/10.1002/hep.510260406>

Dec 30, 2003 · In all patients, cardiac index was positively correlated with **exhaled NO** ($r = .47, P < .001$) and with **expiratory NO₂** (**NO₂** ($r = .43, P < .01$)). The results suggest an important role of NO in the



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[PDF] Medical Applications of Exhaled Breath Analysis: State of ...

www.mirthe-erc.org/mirthecenter/wp-content/uploads/2015/03/Raed-Dweik1.pdf

Medical Applications of **Exhaled Breath Analysis**: State **of the** Art . Conflict of Interest Disclosure ...
Clinical Gastroenterology and **Hepatology** 2014 . Renal Failure . Vol. 61, No. 13, 2013 . PAH . Liver .
Asthma . Control . 88 Individuals 25 Control . 32 Asthma . 17 Liver Disorder . 14 PAH . Biomarkers in
Exhaled Breath • Advantages: – non ...

Breath Analysis in Respiratory Diseases: State of the Art ...

https://www.researchgate.net/publication/329742755_Breath_Analysis_in_Respiratory...

Breath Analysis in Respiratory Diseases: State **of the** Art and Future **Perspectives**. ... **Exhaled breath analysis** by e-nose is non-invasive, easy to perform and could reduce diagnostic time. Aim of ...

State of the art | Chromalytica

chromalytica.com/breath-analysis/state-of-the-art ▾

State **of the** art What your **breath** reveals The use of individual Volatile Organic Compounds (VOCs) as biomarkers of exposure or disease is hampered by the fact that using a single compound is generally insufficient to monitor complex and heterogeneous processes including environmental exposures or chronic diseases.

Assessment of Exhaled Breath Condensate for Non-Invasive ...

<https://www.emjreviews.com/gastroenterology/abstract/assessment-of-exhaled-breath...> ▾

Exhaled breath condensate (EBC) 2 and **saliva** 3 are two easily obtained, **non-invasive samples** that bear promise in monitoring patients suffering from GORD. The aim of this study was to investigate the prospects of these samples in non-invasive diagnostic approaches to GORD.

[PDF] Application of Fecal Volatile Organic Compound Analysis ...

<https://www.mdpi.com/2227-9040/6/3/29/pdf>

analysis as **non-invasive diagnostic biomarker** in clinical medical practice. The spectrum of VOCs, originating from (patho)physiological metabolic processes in the human body and detectable in **bodily**