

Publications relating directly to the Sensabues exhaled breath collection device, system, and method – ExaBreath (EB)

61	2022 Jan (Germany) - Probing for factors influencing exhaled breath drug testing in sports - pilot studies focusing on the tested individual's tobacco smoking habit and sex. https://pubmed.ncbi.nlm.nih.gov/35094434/ (Open access paper)
60	2021 Nov (USA) + A comprehensive breath test that confirms recent use of inhaled cannabis within the impairment window. https://www.nature.com/articles/s41598-021-02137-x (Open access paper)
59	2021 July (Germany) + SARS-CoV-2: Viral Loads of exhaled breath and oronasopharyngeal specimens in hospitalized patients with COVID-19 https://pubmed.ncbi.nlm.nih.gov/34242768/ (Open access paper)
58	2021 July (USA) - Biomarkers of Recent Cannabis Use in Blood, Oral Fluid and Breath. https://pubmed.ncbi.nlm.nih.gov/34185831/
57	2021 June (Germany) + Identification of biomarkers specific to five different nicotine product user groups: Study protocol of a controlled clinical trial. (Note – The Sensabues EB method is referred to as EBC in this paper) https://pubmed.ncbi.nlm.nih.gov/34189337/ (Open access paper)
56	2021 March (China/Singapore) + Online real-time monitoring of exhaled breath particles reveals unnoticed transport of non-volatile drugs from blood to breath. https://pubmed.ncbi.nlm.nih.gov/33724781/ (Open access paper)
55	2021 March (Canada) + Observational study of visual testing efficacy in detecting cannabis usage. https://journalcswb.ca/index.php/cswb/article/view/176 (Open access paper)
54	2021 Feb. (Sweden) - Peanuts in the air - clinical and experimental studies. https://pubmed.ncbi.nlm.nih.gov/33548082/
53	2020 Dec. (France) - Characterization of cannabidiol in alternative biological specimens and urine, after consumption of an oral capsule. https://pubmed.ncbi.nlm.nih.gov/33330903/
52	2020 Aug. (Germany) + Probing for the presence of doping agents in exhaled breath using chromatographic/mass spectrometric approaches. https://pubmed.ncbi.nlm.nih.gov/32881194/ (Open access paper)
51	2020 April (Germany) + Investigation of exhaled air and saliva as alternative matrices in the diagnosis of abuse of psychoactive substances. (Thesis written in German language) https://macau.uni-kiel.de/receive/macau_mods_00000541
50	2020 Feb. (Canada) + Evaluation of breath and plasma tetrahydrocannabinol concentration trends post-cannabis exposure in medical cannabis patients. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7173673/ (Open access paper)
49	2019 Oct. (Sweden) + Pharmacokinetics of methylphenidate and ritalinic acid in plasma correlations with exhaled breath and oral fluid in healthy volunteers. https://www.ncbi.nlm.nih.gov/pubmed/31786618 (Open access paper)
48	2019 Sept. (USA) + Validation of a liquid chromatography tandem mass spectrometry (LC-MS/MS) method to detect cannabinoids in whole blood and breath.

	https://pubmed.ncbi.nlm.nih.gov/31527291/ (Open access paper)
47	2019 Aug. (USA) + Investigating oral fluid and exhaled breath as alternative matrices for anti-doping testing: Analysis of 521 matched samples. https://www.ncbi.nlm.nih.gov/pubmed/31430626
46	2019 June (Belgium) + Measuring antibiotics in exhaled air in critically ill, non-ventilated patients: A feasibility and proof of concept study. https://pubmed.ncbi.nlm.nih.gov/30745285/
45	2019 April (Sweden) + First evaluation of the possibility of testing for drugged driving using exhaled breath sampling. https://www.ncbi.nlm.nih.gov/pubmed/31039047 (Open access paper)
44	2019 March (Germany) + Does oral fluid contribute to exhaled breath samples collected by means of an electret membrane? https://onlinelibrary.wiley.com/doi/full/10.1002/dta.2597 (Open access paper)
43	2018 Sept. (USA EPA) + Evolution of clinical and environmental health applications of exhaled breath research: Review of methods and instrumentation for gas-phase, condensate, and aerosols. https://www.ncbi.nlm.nih.gov/pubmed/29776545 (Open access paper)
42	2018 April (France) + Evaluation of a new method for the collection and measurement of 8-isoprostane in exhaled breath for future application in nanoparticle exposure biomonitoring. https://www.ncbi.nlm.nih.gov/pubmed/29651988
41	2018 March (Sweden) + Drug abuse screening with exhaled breath and oral fluid in adults with substance use disorder. https://www.ncbi.nlm.nih.gov/pubmed/29575801
40	2018 Jan. (USA, Russia) + Non-invasive lung disease diagnostics from exhaled microdroplets of lung fluid: perspectives and technical challenges https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7099678/ (Open access paper)
39	2018 Jan. (Sweden) + A liquid chromatography and tandem mass spectrometry method to determine 28 non-volatile drugs of abuse in exhaled breath. https://www.ncbi.nlm.nih.gov/pubmed/29059614
38	2017 Dec. (Belgium) + Quantitation of Antibiotics in Exhaled breath: a pilot study (ANTIBEX-trial). https://biblio.ugent.be/publication/8646623/file/8646628 https://biblio.ugent.be/publication/8608328/file/8618927
37	2017 Dec. (Sweden) + Two techniques to sample non-volatiles in breath—exemplified by methadone. https://www.ncbi.nlm.nih.gov/pubmed/29220343 http://www.iopscience.iop.org/article/10.1088/1752-7163/aa8b25/pdf (Open access paper)
36	2017 June (USA) - Achievements and challenges in anti-doping research. https://www.ncbi.nlm.nih.gov/pubmed/28571018
35	2017 May (Germany) + Expanding analytical options in sports drug testing: mass spectrometric detection of prohibited substances in exhaled breath. http://onlinelibrary.wiley.com/doi/10.1002/rcm.7903/epdf (Open access paper)
34	2016 Nov (Sweden) + Exhaled particles for monitoring of airway inflammation. (See Section 1.4.1 in thesis) https://gupea.ub.gu.se/handle/2077/44869
33	2016 Oct. (Germany) + Sports drug testing using complementary matrices: Advantages and limitations.

	https://www.ncbi.nlm.nih.gov/pubmed/27040951
32	2016 Oct. (France) + Characterization of metizolam, a designer benzodiazepine, in alternative biological specimens. https://www.sciencedirect.com/science/article/pii/S2352007816302050
31	2016 July (France) + Detection of Δ^9 -Tetrahydrocannabinol in exhaled breath after cannabis smoking and comparison with oral fluid. https://link.springer.com/article/10.1007/s11419-016-0333-x
30	2016 June (Belgium) + Δ^9 -Tetrahydrocannabinol concentrations in exhaled breath and physiological effects following cannabis intake - a pilot study using illicit cannabis. https://www.ncbi.nlm.nih.gov/pubmed/27288550
29	2016 June (France) + Testing for methadone and EDDP in exhaled breath collected with ExaBreath: Comparison with oral fluid and urine. http://www.sciencedirect.com/science/article/pii/S2352007816000305
28	2016 March (China) + Collecting protein biomarkers in breath using electret filters: A preliminary method on a new technical model and human study. http://www.ncbi.nlm.nih.gov/pubmed/26934615
27	2016 March (Sweden) + Characterization of exhaled breath particles collected by an electret filter technique. http://www.ncbi.nlm.nih.gov/pubmed/26987381
26	2016 Feb. (France) + Testing for drugs in exhaled breath collected with ExaBreath in a drug dependence population: Comparison with data obtained in urine after LC-MS/MS analyses. http://www.ncbi.nlm.nih.gov/pubmed/26222873
25	2016 Jan. (Sweden) + Potential of mass spectrometry in developing clinical laboratory biomarkers of non-volatiles in exhaled breath. http://www.ncbi.nlm.nih.gov/pubmed/26578691
24	2015 Nov. (Sweden) + Measurement of lung phosphatidylcholines in exhaled breath particles by a convenient collection procedure. http://www.ncbi.nlm.nih.gov/pubmed/26505278
23	2015 Dec. (Sweden) + First report on the pharmacokinetics of tramadol and O-desmethyltramadol in exhaled breath compared to plasma and oral fluid after a single oral dose. http://www.ncbi.nlm.nih.gov/pubmed/26388171 http://www.karolinska.se/contentassets/d5474c5480ca47778a14656b2f0926c1/tramadol-pharmacokinetics-in-exhaled-breath-oral-fluid-and-plasma.pdf
22	2015 Sept. (Sweden) - Study on the origin and collection of exogenous compounds in exhaled breath aerosol particles. Abstract only. http://eri.ersjournals.com/content/46/suppl_59/PA2095
21	2015 May (Sweden) + Phosphatidylethanolols in breath: a possible non-invasive screening test for heavy alcohol consumption. http://clinchem.aaccjnl.org/content/61/7/991 http://clinchem.aaccjnl.org/content/clinchem/61/7/991.full.pdf
20	2015 April (Sweden) + Application of drug testing using exhaled breath for compliance monitoring of drug addicts in treatment. http://www.ncbi.nlm.nih.gov/pubmed/25562730
19	2015 March (Sweden) + Method validation and application of a liquid chromatography-tandem mass spectrometry method for drugs of abuse testing in exhaled breath. http://www.ncbi.nlm.nih.gov/pubmed/25687804

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18	2015 Jan. (Sweden) + Clinical trial of a new technique for drugs of abuse testing: A new possible sampling technique. http://www.ncbi.nlm.nih.gov/pubmed/25312474
17	2014 Aug. (USA NIDA) + Quantification of cocaine and metabolites in exhaled breath by liquid chromatography-high-resolution mass spec following controlled administration of intravenous cocaine. http://www.ncbi.nlm.nih.gov/pubmed/25129634
16	2014 Aug. (Sweden) - Determination of amphetamine and methylphenidate in exhaled breath of patients ADHD treatment. http://www.ncbi.nlm.nih.gov/pubmed/24452069
15	2014 June (Belgium) + Δ^9 -Tetrahydrocannabinol concentrations in exhaled breath related to physiological effects following cannabis smoking. http://www.sciencedirect.com/science/article/pii/S235200781470037X
14	2014 May (USA NIDA) + NIDA Notes. https://www.drugabuse.gov/news-events/nida-notes/2014/05/device-detects-marijuana-in-breath-hours-after-smoking
13	2014 Jan. (Sweden) + Exhaled breath for drugs of abuse testing - evaluation in criminal justice settings. http://www.ncbi.nlm.nih.gov/pubmed/24438778
12	2013 Dec. (USA NIDA) + Cannabinoids in exhaled breath following controlled administration of smoked cannabis. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4537523/ http://clinchem.aaccjnls.org/content/60/9/1235 http://clinchem.aaccjnls.org/content/60/9/1236
11	2013 April (Sweden) + Detection of drugs of abuse in exhaled breath using a device for rapid collection: comparison with plasma, urine and self-reporting in 47 drug users. http://www.alna.se/sites/default/files/journal_of_breath_research_2013.pdf https://www.ncbi.nlm.nih.gov/pubmed/23619392
10	2012 Dec. (Sweden) + Detection of drugs of abuse in exhaled breath from users following recovery from intoxication. http://jat.oxfordjournals.org/content/36/9/638.full.pdf
9	2011 Dec. (Sweden) - Demonstration that methadone is being present in the exhaled breath aerosol fraction. http://www.ncbi.nlm.nih.gov/pubmed/21873017
8	2011 June (Sweden) + Study on the sampling of methadone from exhaled breath. https://academic.oup.com/jat/article-pdf/35/5/257/2441655/35-5-257.pdf
7	2011 April (Sweden) + Determination of methadone in exhaled breath condensate by liquid chromatography-tandem mass spectrometry. https://academic.oup.com/jat/article-pdf/35/3/129/2293790/35-3-129.pdf
6	2011 Oct. (Sweden) + Detection of THC in exhaled breath collected from cannabis users. https://academic.oup.com/jat/article-pdf/35/8/541/2615713/35-8-541.pdf
5	2010 July (Sweden) - Method for determination of methadone in exhaled breath collected from subjects undergoing methadone maintenance treatment. http://www.ncbi.nlm.nih.gov/pubmed/20638346
4	2010 June (Sweden) - Amphetamines detected in exhaled breath from drug addicts: A new possible

	method for drugs-of-abuse testing. http://www.ncbi.nlm.nih.gov/pubmed/20529456
3	2010 May - Characterization of exhaled particles from the healthy human lung - a systematic analysis in relation to pulmonary function variables. https://www.ncbi.nlm.nih.gov/pubmed/20500095
2	2010 March - Effect of airway opening on production of exhaled particles. https://www.ncbi.nlm.nih.gov/pubmed/20056850
1	2009 Sept. - The mechanism of breath aerosol formation. https://www.ncbi.nlm.nih.gov/pubmed/19415984