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## Data in Brief





#### Data Article

# Dataset of breath research manuscripts curated using PubMed search strings from 1995–2016



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#### ABSTRACT

The data contained in this article are PubMed search strings and search string builders used to curate breath research manuscripts published from 1995-2016 and the respective number of articles found that satisfied the search requirements for selected categories. Breath sampling represents a non-invasive technique that has gained usefulness for public health, clinical, diagnostic, and environmental exposure assessment applications over the years. This data article includes search strings that were utilized to retrieve publications through the PubMed database for different breath research-related topics that were related to the analysis of exhaled breath, exhaled breath condensate (EBC), and exhaled breath aerosol (EBA) as well as the analysis of cellular headspace. Manuscripts were curated for topics including EBC, EBA, Direct MS, GC-MS, LC-MS, alcohol, and sensors. A summary of the number of papers published per year for the data retrieved using each of the search strings is also included. These data can be utilized to discern trends in the number of breath research publications in each of the different topics over time. A supplementary Appendix A containing the titles, author lists, journal names, publication dates, PMID numbers, and EntrezUID numbers for each of the journal articles curated using the finalized search strings for the seven breath research-related topics can also be found within this article. The selected manuscripts can be used to explore the impact that breath research has had on expanding the scientific knowledge in each of the investigated topics.

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#### **Specifications Table**

aled breath research , Direct MS, GC–MS, LC- t alcohol were restricted from 01/01/1960 to s related to medical th.
al articles related to of exhaled breath, EBC, er year for each topic is e curated for each topic
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l Appendix.
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#### Value of the data

- Researchers can use the acquired lists of breath research publications to gather references for review of the literature.
- Researchers can use the data to evaluate trends in the number and type of breath research manuscripts published from 1995–2016.
- Researches will be able to understand the value of exhaled breath research and the impact it has
  had on improving public health and the community through medical (clinical, diagnostic) and
  environmental (exposure, adverse outcome) applications.
- Researchers can use the developed search strings to curate additional breath research publications
  within the time frame, expand the time frame, or remove restrictions to obtain different lists of
  publications for assessment and review.

#### 1. Data

The presented data are six tables and a supplementary Appendix file. Table 1 contains the initial PubMed search string builders that were developed for the individual breath-related topics that were used to curate papers. These search string builders include "exhaled breath," "VOCs and headspace," "biological media," "aerosols," "condensate," "Direct MS," "GC–MS," "LC-MS," "alcohol," and "sensors." Table 2 contains combinations of the individual search strings listed in Table 1. These search strings were developed to ensure that the retrieved publications were focused on the subject of exhaled breath research and volatile compound analysis. Restrictions were introduced to the "exhaled breath" search strings in order to eliminate papers that were found to be out of scope after reviewing the

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