

# Asthma Birth Cohorts Database User Guide

---

**Last Updated: September 18, 2013**



National Institute of  
Allergy and  
Infectious Diseases



National Heart, Lung,  
and Blood Institute



## Table of Contents

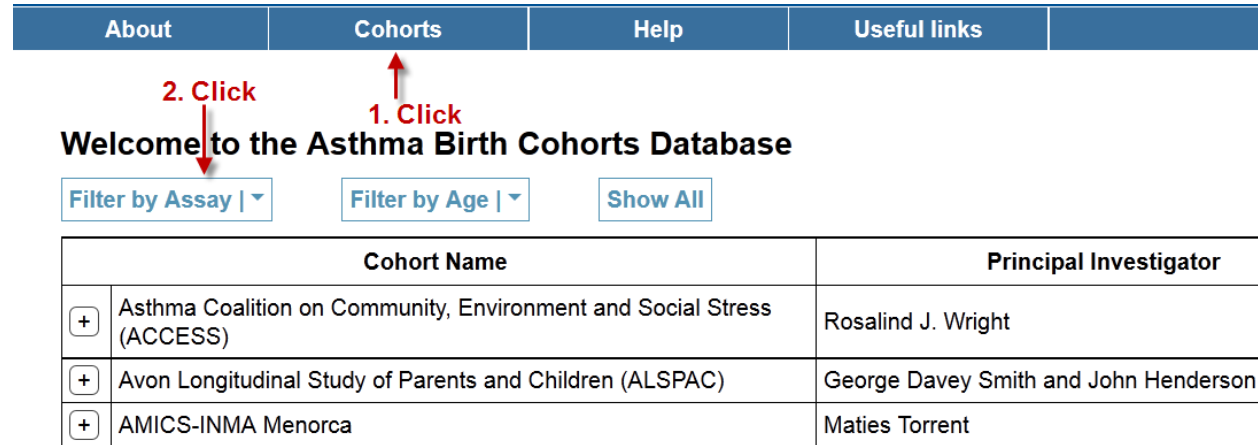
Searching the List of Cohorts .....	3
Additional Viewing Options.....	6
Printing a List of All Cohorts .....	7
Viewing Details of a Cohort .....	8
Adding Your Cohort to the Database .....	10
Exporting Cohorts .....	11



## Searching the List of Cohorts

To search the list of cohorts by using filters to limit the number of search results returned, do the following:

1. Click the **Cohorts** tab.
2. Click one of the filters that appear.



The screenshot shows the website's navigation bar with tabs for 'About', 'Cohorts', 'Help', and 'Useful links'. The 'Cohorts' tab is highlighted. Below the navigation bar, there is a heading 'Welcome to the Asthma Birth Cohorts Database' and three filter buttons: 'Filter by Assay | v', 'Filter by Age | v', and 'Show All'. A table below lists three cohorts with their names and principal investigators. Red arrows and text indicate the steps: '1. Click' points to the 'Cohorts' tab, and '2. Click' points to the 'Filter by Assay' button.

	Cohort Name	Principal Investigator
<input type="checkbox"/>	Asthma Coalition on Community, Environment and Social Stress (ACCESS)	Rosalind J. Wright
<input type="checkbox"/>	Avon Longitudinal Study of Parents and Children (ALSPAC)	George Davey Smith and John Henderson
<input type="checkbox"/>	AMICS-INMA Menorca	Maties Torrent

**Figure 1.**

# Asthma Birth Cohorts Database

3. If the filter has sub-filters, choose one.
4. Choose values for the sub-filter (if applicable).
5. Repeat steps 3 and 4 for another sub-filter, if you wish.

Welcome to the Asthma Birth Cohorts Database

Filter by Assay | Filter by Age | Show All

3. Click on a sub-filter

4. Choose options for sub-filter

5. Repeat these two steps for a different sub-filter (optional)

Pulmonary	<input type="checkbox"/> T Cell Surface Markers
Allergy	<input checked="" type="checkbox"/> PBMC Cytokine/Chemokine Production
Immunological Testing	<input checked="" type="checkbox"/> Serum Cytokine/Chemokine Production
Virus	
Environment	
Physical Exams/Questionnaires	
Microbiome	
Long term Storage - age collected	
Go	

Principal Investigator
Wright
Smith and John Henderson
...
...
...
BiB) Andrew Hall (ALIn)
and Moira Chan-Yeung

+ Childhood Asthma Prevention Study (CAPS) | Guy B. Marks

Figure 2.

# Asthma Birth Cohorts Database

6. Choose another filter.
7. Choose values for that filter.
8. Click **Go** to view the search results.

**Note:** The system is set up so that any data that matches at least one selection of the first filter and at least one selection in the second filter appears in the search results.

For our example, any data that matches at least one of the following 4 patterns appears in the search results:

- A. PBMC and 8 years.
- B. PBMC and 9 years.
- C. Serum and 8 years.
- D. Serum and 9 years.

## Welcome to the Asthma Birth Cohorts Database

Filter by Assay |  |  **6. Choose another filter**

**7. Choose values for the filter**

Select all		Unselect all				
<input type="checkbox"/> Prenatal	<input type="checkbox"/> Birth	<input type="checkbox"/> <1 yr	<input type="checkbox"/> 1 yr	<input type="checkbox"/> 2 yr	<input type="checkbox"/> 3 yr	<input type="checkbox"/> 4 yr
<input type="checkbox"/> 5 yr	<input type="checkbox"/> 6 yr	<input type="checkbox"/> 7 yr	<input checked="" type="checkbox"/> 8 yr	<input checked="" type="checkbox"/> 9 yr	<input type="checkbox"/> 10 yr	<input type="checkbox"/> 11 yr
<input type="checkbox"/> 12 yr	<input type="checkbox"/> 13 yr	<input type="checkbox"/> 14 yr	<input type="checkbox"/> 15 yr	<input type="checkbox"/> 16 yr	<input type="checkbox"/> 17 yr	<input type="checkbox"/> 18 yr
<input type="button" value="Go"/> <b>8. Click</b>						

Principal Investigator	
osalind J. Wright	
George Davey Smith and John Henderson	
Esther van Tilburg	
Ulf Gelleraud	
John Wright (BiB) Andrew Hall (ALLin)	

<input type="button" value="+"/>	Canadian Asthma Primary Prevention Study (CAPPS)	Allan Becker and Moira Chan-Yeung
----------------------------------	--	-----------------------------------

**Figure 3.**



## Additional Viewing Options

Figure 4 shows additional viewing options for cohorts.

Welcome to the Asthma Birth Cohorts Database

View all cohorts in the system (without a filter)

	Cohort Name	Principal Investigator	Cohort Contact
<input type="checkbox"/>	Asthma Coalition on Community, Environment and Social Stress (ACCESS)	Rosalind J. Wright	<a href="#">Rosalind Wright</a>
<input type="checkbox"/>	Avon Longitudinal Study of Parents and Children (ALSPAC)	George Davey Smith and John Henderson	<a href="#">John Henderson</a>
<input type="checkbox"/>	AMICS-INMA Menorca	Maties Torrent	<a href="#">Thomas Keil</a>
<input type="checkbox"/>	Stockholm Children Allergy and Environmental Prospective Birth Cohort Study (BAMSE)	Magnus Wickman	<a href="#">Anna Bergstrom</a>
<input type="checkbox"/>	Born in Bradford cohort study (BiB) AND the ALIn study (a smaller sample of BiB participants with specific focus on allergies and asthma)	John Wright (BiB) Andrew Hall (ALIn)	<a href="#">Isabelle Momas</a>
<input type="checkbox"/>	Canadian Asthma Primary Prevention Study (CAPPS)	Allan Becker and Moira Chan-Yeung	<a href="#">Allan Becker</a>
<input type="checkbox"/>	Childhood Asthma Prevention Study (CAPS)	Guy B. Marks	<a href="#">Patrick Holt</a>
<input type="checkbox"/>	Childhood Asthma Study (CAS)	Peter Sly (Respiratory) and Patrick Holt (Immunology)	<a href="#">Patrick Holt</a>
<input type="checkbox"/>	Childhood Asthma Study (CAS-I and CASII)	Dennis Ownby and Christine Johnson (CAS-I) and Edward Zoratti and Christine Johnson (CAS-II)	<a href="#">Christine Johnson</a>
<input type="checkbox"/>	Cincinnati Childhood Allergy and Air Pollution Study (CCAAPS)	Grace LeMasters (2001-12) and Patrick Ryan (2012-17)	<a href="#">Patrick Ryan</a>

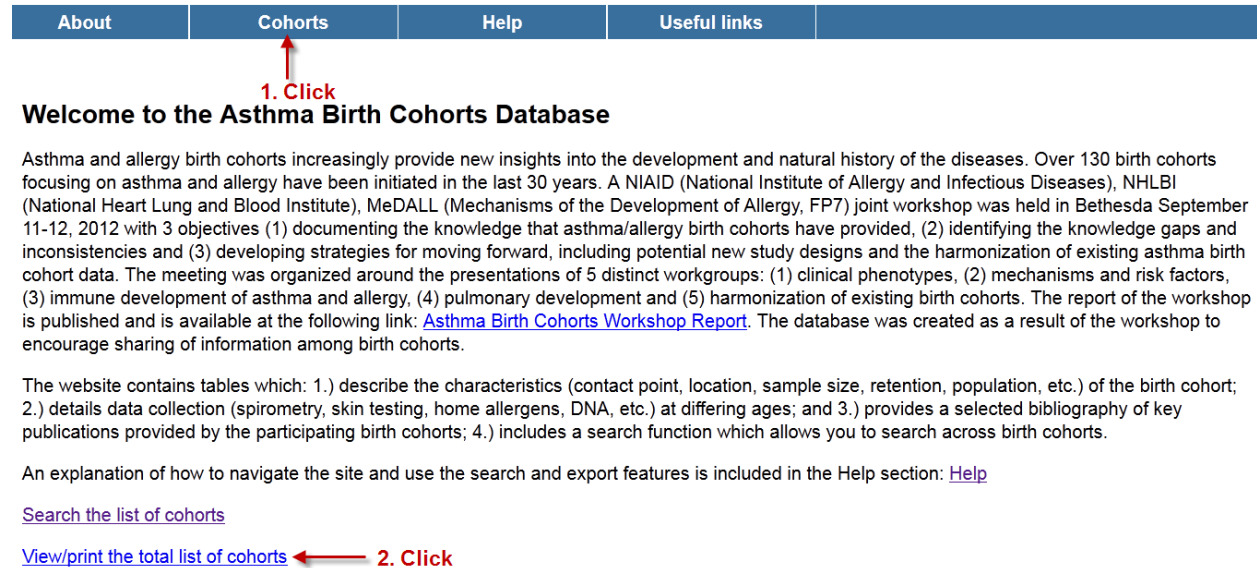
1 | [2](#) | [3](#) | [4](#) | [All](#)

View all cohorts on one (long) page

Figure 4.

## Printing a List of All Cohorts

To print a list of all the cohorts in the system, first click on the **Cohorts** tab, and then click the [View/print the total list of cohorts](#) link.



The screenshot shows the website's navigation menu with four tabs: 'About', 'Cohorts', 'Help', and 'Useful links'. The 'Cohorts' tab is highlighted in a darker blue and has a red arrow pointing to it from the text '1. Click' below it. Below the menu is the main content area with the heading 'Welcome to the Asthma Birth Cohorts Database'. The text describes the database's purpose and provides a link to 'View/print the total list of cohorts', which is also highlighted with a red arrow and the text '2. Click'.

**About**   **Cohorts**   **Help**   **Useful links**

1. Click

### Welcome to the Asthma Birth Cohorts Database

Asthma and allergy birth cohorts increasingly provide new insights into the development and natural history of the diseases. Over 130 birth cohorts focusing on asthma and allergy have been initiated in the last 30 years. A NIAID (National Institute of Allergy and Infectious Diseases), NHLBI (National Heart Lung and Blood Institute), MeDALL (Mechanisms of the Development of Allergy, FP7) joint workshop was held in Bethesda September 11-12, 2012 with 3 objectives (1) documenting the knowledge that asthma/allergy birth cohorts have provided, (2) identifying the knowledge gaps and inconsistencies and (3) developing strategies for moving forward, including potential new study designs and the harmonization of existing asthma birth cohort data. The meeting was organized around the presentations of 5 distinct workgroups: (1) clinical phenotypes, (2) mechanisms and risk factors, (3) immune development of asthma and allergy, (4) pulmonary development and (5) harmonization of existing birth cohorts. The report of the workshop is published and is available at the following link: [Asthma Birth Cohorts Workshop Report](#). The database was created as a result of the workshop to encourage sharing of information among birth cohorts.

The website contains tables which: 1.) describe the characteristics (contact point, location, sample size, retention, population, etc.) of the birth cohort; 2.) details data collection (spirometry, skin testing, home allergens, DNA, etc.) at differing ages; and 3.) provides a selected bibliography of key publications provided by the participating birth cohorts; 4.) includes a search function which allows you to search across birth cohorts.

An explanation of how to navigate the site and use the search and export features is included in the Help section: [Help](#)


[Search the list of cohorts](#)

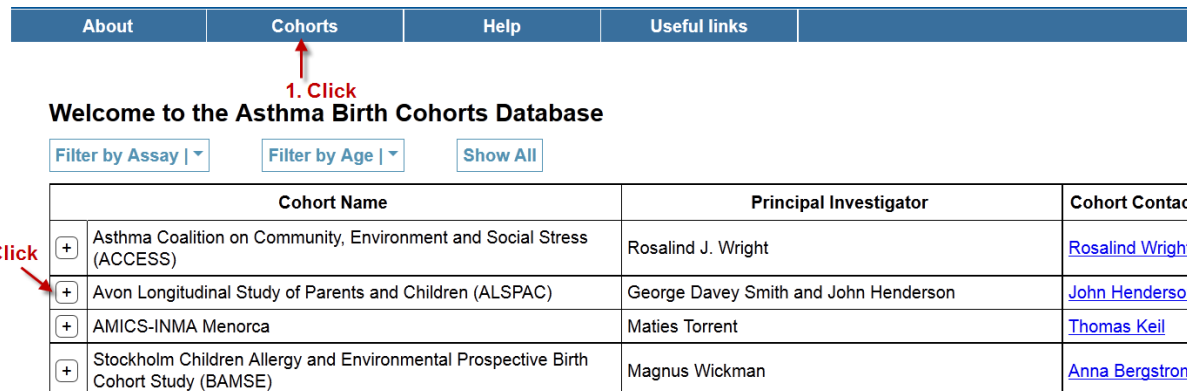
[View/print the total list of cohorts](#) ← 2. Click

Figure 5.




## Viewing Details of a Cohort

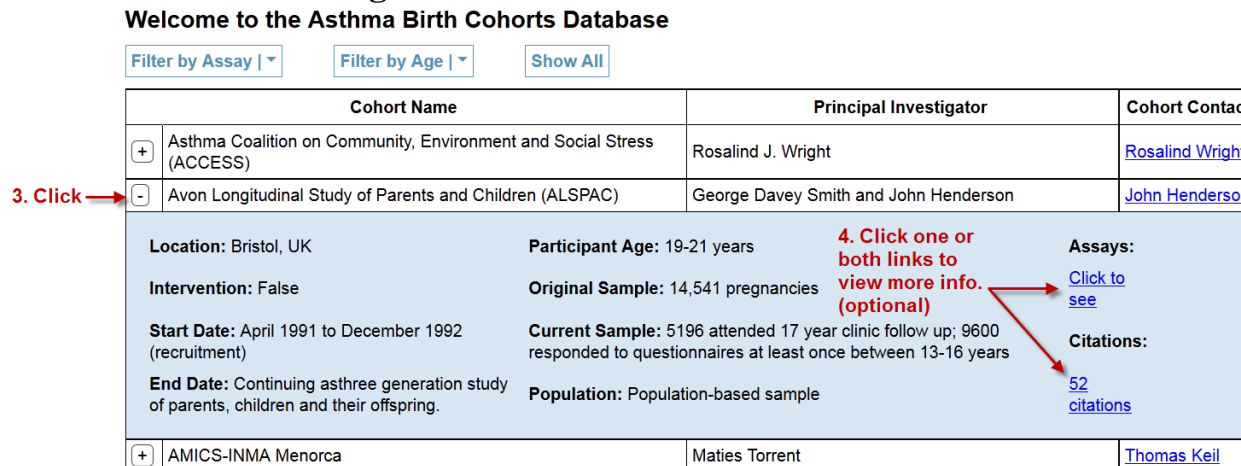
To view the details of a cohort, find that cohort using the **Cohorts** tab, and then click the  icon.



About				Cohorts				Help				Useful links			
Welcome to the Asthma Birth Cohorts Database															
Filter by Assay   ▾				Filter by Age   ▾				Show All							
Cohort Name				Principal Investigator				Cohort Contact							
+ Asthma Coalition on Community, Environment and Social Stress (ACCESS)				Rosalind J. Wright				<a href="#">Rosalind Wright</a>							
+ Avon Longitudinal Study of Parents and Children (ALSPAC)				George Davey Smith and John Henderson				<a href="#">John Henderson</a>							
+ AMICS-INMA Menorca				Maties Torrent				<a href="#">Thomas Keil</a>							
+ Stockholm Children Allergy and Environmental Prospective Birth Cohort Study (BAMSE)				Magnus Wickman				<a href="#">Anna Bergstrom</a>							

**Figure 6.**

The cohort information then appears, along with links to view assays and citations. To hide the details again, click the  icon.



Welcome to the Asthma Birth Cohorts Database											
Filter by Assay   ▾				Filter by Age   ▾				Show All			
Cohort Name				Principal Investigator				Cohort Contact			
+ Asthma Coalition on Community, Environment and Social Stress (ACCESS)				Rosalind J. Wright				<a href="#">Rosalind Wright</a>			
- Avon Longitudinal Study of Parents and Children (ALSPAC)				George Davey Smith and John Henderson				<a href="#">John Henderson</a>			
<b>Location:</b> Bristol, UK <b>Intervention:</b> False <b>Start Date:</b> April 1991 to December 1992 (recruitment) <b>End Date:</b> Continuing asthree generation study of parents, children and their offspring.				<b>Participant Age:</b> 19-21 years <b>Original Sample:</b> 14,541 pregnancies <b>Current Sample:</b> 5196 attended 17 year clinic follow up; 9600 responded to questionnaires at least once between 13-16 years <b>Population:</b> Population-based sample				<b>Assays:</b> <a href="#">Click to see</a> <b>Citations:</b> <a href="#">52 citations</a>			
+ AMICS-INMA Menorca				Maties Torrent				<a href="#">Thomas Keil</a>			

**Figure 7.**



If you click the link to view assays, an assay matrix for that cohort appears.

## Assays for Avon Longitudinal Study of Parents and Children (ALSPAC)

	Prenatal	Birth	<1yr	1 yr	2 yr	3 yr	4 yr	5 yr	6 yr	7 yr	8 yr	9 yr	10 yr	11 yr	12 yr	13 yr	14 yr	15 yr	16 yr	17 yr	18 yr
<b>Spirometry</b>											Yes							Yes			
<b>Beta-agonist bronchodilation</b>											Yes							Yes			
<b>FeNO</b>																		Yes			
<b>Total IgE</b>		Yes								Yes											
<b>Allergen skin testing - aeroallergens</b>										Yes											

**Figure 8.**

If you click the link to view citations, a list of citations for that cohort appears.

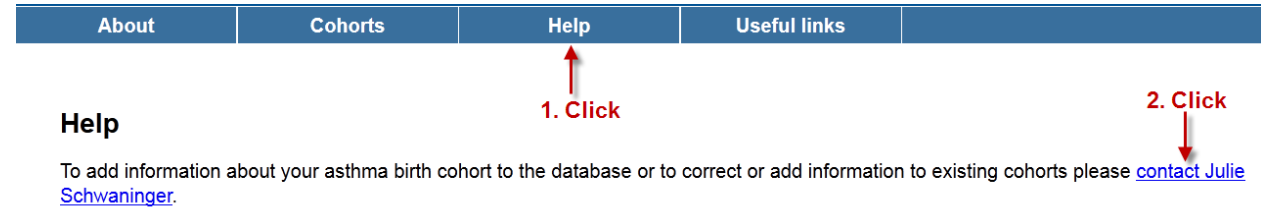
## Citations for Avon Longitudinal Study of Parents and Children (ALSPAC)

1. Baker D, Taylor H, Henderson J, the ALSPAC study team. Inequality in infant morbidity: causes and consequences in England in the 1990s. *J Epidemiol Comm Health* 1998; 52: 451-8.
2. Henderson J, North K, Griffiths M, Harvey I, Golding J, the ALSPAC study team. Pertussis vaccination and wheezing illnesses in young children. *Brit Med J* 1999; 318: 1173-6.
3. Baker D, Henderson J, the ALSPAC study team. Differences between infants and adults in the social aetiology of wheeze. *J Epidemiol Comm Health* 1999; 53: 636-42.
4. Lux AL, Henderson AJ, Pocock SJ. Wheeze associated with prenatal tobacco smoke exposure: a prospective, longitudinal study. *Arch Dis Child* 2000; 83: 307-12.
5. Henderson J, Sherriff A, North K, Kukla L, Hrubá D. Pre- and postnatal parental smoking and wheeze in infancy: cross cultural differences. *Eur Resp J* 2001; 18: 323-9.
6. Sherriff A, Peters T, Henderson J, Strachan D. Risk factor associations with wheezing patterns in children followed from birth to 3½ years. *Int J Epidemiol* 2001; 30: 1473-84.

**Figure 9.**

## Adding Your Cohort to the Database

To find out about adding your cohort information to the database, first click the **Help** tab, and then click the [contact](#) link.



**Figure 10.**

## Exporting Cohorts

To export a list of cohorts to an MS Excel document, do the following:

1. Click the **Cohorts** tab.
2. Optionally, perform a search to limit the number of results.
3. Click **Export**.

The screenshot shows the website interface with the 'Cohorts' tab selected. Below the navigation bar, there are filter options for 'Assay', 'Age', and 'Show All'. A table lists various asthma cohorts with their names, principal investigators, and contact information. At the bottom right, the 'Export' button is highlighted with a red arrow and the text '3. Click'.

	Cohort Name	Principal Investigator	Cohort Contact
<input type="checkbox"/>	Asthma Coalition on Community, Environment and Social Stress (ACCESS)	Rosalind J. Wright	<a href="#">Rosalind Wright</a>
<input type="checkbox"/>	Avon Longitudinal Study of Parents and Children (ALSPAC)	George Davey Smith and John Henderson	<a href="#">John Henderson</a>
<input type="checkbox"/>	AMICS-INMA Menorca	Maties Torrent	<a href="#">Thomas Keil</a>
<input type="checkbox"/>	Stockholm Children Allergy and Environmental Prospective Birth Cohort Study (BAMSE)	Magnus Wickman	<a href="#">Anna Bergstrom</a>
<input type="checkbox"/>	Born in Bradford cohort study (BiB) AND the ALin study (a smaller sample of BiB participants with specific focus on allergies and asthma)	John Wright (BiB) Andrew Hall (ALin)	<a href="#">Isabelle Momas</a>
<input type="checkbox"/>	Canadian Asthma Primary Prevention Study (CAPPS)	Allan Becker and Moira Chan-Yeung	<a href="#">Allan Becker</a>
<input type="checkbox"/>	Childhood Asthma Prevention Study (CAPS)	Guy B. Marks	<a href="#">Patrick Holt</a>
<input type="checkbox"/>	Childhood Asthma Study (CAS)	Peter Sly (Respiratory) and Patrick Holt (Immunology)	<a href="#">Patrick Holt</a>
<input type="checkbox"/>	Childhood Asthma Study (CAS-I and CASII)	Dennis Ownby and Christine Johnson (CAS-I) and Edward Zoratti and Christine Johnson (CAS-II)	<a href="#">Christine Johnson</a>
<input type="checkbox"/>	Cincinnati Childhood Allergy and Air Pollution Study (CCAAPS)	Grace LeMasters (2001-12) and Patrick Ryan (2012-17)	<a href="#">Patrick Ryan</a>
<input type="checkbox"/>	Columbia Center for Children's Environmental Health (CCCEH)	Rachel Miller and Frederica Perera	<a href="#">Rachel Miller</a>

1 | 2 | 3 | 4 | All | Export ← 3. Click

Figure 11.